

TH-K20A

144 MHz FM TRANSCEIVER

It's No Leap of Faith...

The TH-K20A is fully equipped for clear communications
— wherever and whenever needed.

KENWOOD

146.970 199

TH-K20 FM TRANSCEIVER



AMATEUR ELECTRONIC SUPPLY

HAM RADIO CATALOG

SPRING/SUMMER 2012

5710 W. Good Hope Rd.
Milwaukee, WI 53223
414-358-0333
1-800-558-0411
Fax 414-358-3337
Service 414-358-4087
milwaukee@aesham.com

28940 Euclid Ave.
Cleveland, OH 44092
440-585-7388
1-800-321-3594
Fax 440-585-1024
cleveland@aesham.com

621 Commonwealth Ave.
Orlando, FL 32803
407-894-3238
1-800-327-1917
Fax 407-894-7553
orlando@aesham.com
Vendedores Hispanos

4640 South Polaris Ave.
Las Vegas, NV 89103
702-647-3114
1-800-634-6227
Fax 702-647-3412
lasvegas@aesham.com
Deutsch Sprechend Verkäufer
Vendedores Hispanos

Store Hours
Monday – Friday • 9am to 5:30pm
Saturday • 9am to 3pm

1-800-558-0411
www.aesham.com

digital HF DSP

you can't work 'em
if you can't hear 'em

Icom's pioneering work in Digital Signal Processing
lets today's ham isolate weak signals without
needing to buy expensive optional filters



IC-7800 HF + 6m

200 Watt Output (50W AM),
Built-in Power Supply

RX: 0.030–60.000MHz*

Four 32 Bit IF-DSPs + 24 Bit
AD/DA Converters

2 Completely Independent Receivers

+40dBm 3rd Order Intercept Point

3 Roofing Filters

Selectable, "Build Your Own"
IF Filter Shapes



IC-7700 HF + 6m

200 Watt Output (50W AM),
Built-in Power Supply

RX: 0.030–60.000MHz*

32 Bit IF-DSPs + 24 Bit
AD/DA Converters

Single Receive

+40dBm 3rd Order Intercept Point

3 Roofing Filters

Selectable, "Build Your Own"
IF Filter Shapes



IC-7600 HF + 6m



100 Watt Output (30W AM),
Optional PS-126

RX: 0.030–60.000MHz*

USB Port for CI-V Format
PC Control and Audio In/Out

Dual Receive

+30 dBm 3rd Order Intercept Point

3 Roofing Filters

Selectable, "Build Your Own"
IF Filter Shapes



IC-7410 HF + 6m



100 Watt Output (40W AM)

RX: 0.030–60.000MHz*

32 Bit Floating Point DSP Unit

+30 dBm 3rd Order Intercept
Point (14MHz)

Double Conversion Super-
heterodyne System

Built-in 15kHz 1st IF Filter
(Optional 3kHz/6kHz)



IC-7200 HF + 6m



100 Watt Output (25W AM)

RX: 0.030–60.000MHz*

32 Bit IF-DSP + 24 Bit AD/DA Converter

Digital Twin Passband Tuning

USB Port for CI-V Format PC Control
and Audio In/Out

Flexible Selectable Filter Width and Shape



IC-7000 HF/6m/2m/70cm

100W (40W AM), 50W on 2M (20W AM),
35W on 70CM (14W AM)

RX: 30–199.999, 400–470MHz*

Digital IF Filters

Digital Voice Recorder

Front Panel Separation with
Optional 3.5m or 5m Cable (As Shown)

your hobby. your life. your love for ham radio.

*Frequency specs may vary. Refer to owner's manual for exact frequency specs.
©2012 Icom America Inc. The Icom logo is a registered trademark of Icom Inc.
All specifications are subject to change without notice or obligation. 30727b


ICOM[®]

Send your voice to the world with a mobile radio.

Work a D-STAR repeater and you're tied in to worldwide communications, whether you're using a D-STAR mobile or handheld radio. Enjoy advanced digital communication with D-STAR transceivers.

IC-2820H

FEATURE-RICH 2m + 70cm MOBILE + OPTIONAL GPS RECEIVER

D-STAR optional

- 50/15/5 Watt Output
- RX: 118–549.995, 118–173.995, 375–549.999, 810–999.990MHz*
- 522 Alphanumeric Memory Channels
- One Touch Reply Function
- Digital Voice/GPS (Optional UT-123 Required)
- Low Speed Data (Optional OPC-1529R Required)



ID-880H

ENTRY-CLASS 2m + 70cm DIGITAL MOBILE

D-STAR ready

- 50/15/5 Watt VHF/UHF
- FM, AM (Receive only), DV
- RX: 118–999.99MHz*
- 1052 Alphanumeric Memory Channels
- Free Programming Software†

†www.icomamerica.com/amateur/DSTAR
for details about free software

ID-1

GO DIGITAL ON 23cm

D-STAR ready

- 10 Watt on 23cm (FM, DV, DD)
- RX: 1240–1300MHz*
- 100 Alphanumeric Memory Channels
- USB Rig Control, Ethernet Plug for DD
- Black Box Operation
- Remote Control Head, Remote Speaker and Cables Included
- PC Software Included



NEW ID-31A

UHF/70cm + D-STAR IN THE PALM OF YOUR HAND!

D-STAR ready

- FM Analog Voice or D-STAR DV
- Built-in GPS Receiver
- IPX7 Submersible



D-PRS™

IC-80AD 2m + 70cm DUAL BANDER

D-STAR ready

- 5/2.5/0.5/0.1 Watt VHF/UHF
- FM, FM-N, AM (Receive only), WFM (Receive only), DV
- RX: 0.495–999.990MHz*
- 1052 Alphanumeric Memory Channels
- Li-ion Battery
- Free Programming Software†

†www.icomamerica.com/amateur/DSTAR
for details about free software



IC-92AD 2m + 70cm MILITARY RUGGED AND SUBMERSIBLE

D-STAR ready

- 5/2.5/0.5/0.1 Watt Output
- RX: 0.495–999.990, 118–174, 350–470MHz*
- 1304 Alphanumeric Memory Channels
- Optional GPS Speaker Mic (HM-175GPS)
- IPX7 Submersible



AES LOCATION MAPS.....	126
AES MANUFACTURER INFO	127
AES ORDER BLANK.....	122
AES POLICIES.....	123
AES PRICE GUIDE (by mfg. A-Z).....	3-22
AES SALES STAFF.....	124
AES SERVICE DEPT/SHIPPING INFO	125
AMATEUR RADIO COMPARISON CHARTS	38-40
HAMFESTS.....	22

MANUFACTURERS

AES PRODUCTS.....	41, 79, 99
AIM ELECTRONICS.....	96, 97
ALAN BROADBAND.....	100
ALINCO.....	24, 25
ALPHA DELTA.....	75, 79, 98, 99, 112
AMECO.....	53, 100
AMERITRON.....	42, 46, 47, 92, 95, 98
AMPHENOL.....	97
AOR.....	112
ARRL PRODUCTS.....	100, 102-106, 108
ARROW ANTENNA.....	81
ARTSCI.....	104, 121
ASTRON.....	43
AVMAP.....	55
BMI (BENJAMIN MICHAEL INDUSTRIES).....	120
BELDEN.....	96
BENCHER.....	53, 100
BETTER RF COMPANY.....	53, 92
BONGO TIES.....	100
BUCKMASTER.....	79
BUTTERNUT.....	82
C.CRANE.....	114
CQ PUBLICATIONS (CQX).....	105, 106
CABLE X-PERTS.....	96, 97, 99
CHANNEL MASTER.....	87
COAX SEAL (UNV).....	98
COAX WRAP (CWR).....	98
COAXIAL DYNAMICS.....	95
COBRA.....	107
COMET (CMT).....	23, 58-61, 84, 92, 121
COMMUNICATIONS SPECIALISTS.....	51
CROSS DEVICES (CRS).....	98
CUSHCRAFT.....	73
CZL.....	97
DAIWA.....	43, 95, 98
DALBANI CONNECTOR.....	97
DAVE INGRAM BOOKS (ING).....	103, 104
DAVIS WEATHER INSTRUMENTS.....	117
DAVIS RF (DRF).....	77, 86, 96
DIAMOND ANTENNA.....	43, 62-67, 95, 98, 109, 112
ECG.....	87, 118
EASY-UP.....	84
ELECTRIC RADIO.....	106
ELK ANTENNAS.....	81
GRE.....	109
GAP.....	50, 57
GLEN MARTIN ENGINEERING.....	85
GREEN LIGHT LABS.....	30
GRUNDIG/ETON.....	114
GUYTIE.....	84
HARGER.....	99
HEIL SOUND.....	48, 49, C IV
HOUSE OF DEALS.....	97, 121

HUSTLER ANTENNAS.....	70-72, 107, 112
HY-GAIN.....	76, 81, 86
ICOM.....	C II, 1, 26-29, 51, 88, 108, 111, 112
INTERNET LABS (DV DONGLE & DV AP).....	51
ISOTRON (BILAL).....	77
NEW! JETSTREAM.....	24, 80, 97
JSC WIRE & CABLE.....	79, 86, 96
K-40.....	107
KANTRONICS.....	55
KENT KEYS.....	53
KENWOOD.....	C I, 30-32, 49, 50, 97, 100
KESTER.....	119
KLEINHUIS.....	99
KOSS.....	50
LDG ELECTRONICS.....	90, 91
LACROSSE.....	116, 117
LAIRD.....	82
LARSEN.....	68, 69, 107, 112
M2 ANTENNA SYSTEMS.....	82, 87
MEJ.....	24, 42, 44, 49, 50, 52, 54-56, 77, 79, 80, 82, 83, 85, 88, 89, 93-95, 97-100, 106, 113, 120, 121
MAHA.....	44
MALDOL.....	58-61
MIDLAND.....	50, 107, 117
MIRACLE ANTENNA (MIA).....	83
MIRAGE.....	47
MONITORING TIMES (GRV).....	106, 112
NIFTY HAM ACCESSORIES.....	56, 115
NORCOMM.....	51
NUTS & VOLTS.....	106
OUTBACKER.....	81
PAK TECHNOLOGIES.....	121
PALOMAR ENGINEERS.....	100
PALSTAR (PLS).....	92, 93, 95
PENETROX.....	98
PHILMORE.....	97
POLES & HOLDERS.....	84
POLYPHASE (PLY).....	99
POPULAR COMMUNICATIONS (CQX).....	106
POWERFILM (POF).....	43
POWERWERX.....	43, 45
RCA.....	114
RF PARTS.....	97
RT SYSTEMS.....	54, 56, 84
RADIOWAVZ.....	78, 83
RADIO OASIS (RAO).....	79
SGC.....	50, 88
SAMLEX AMERICA.....	43
SANGEAN.....	115
SEQUOIA.....	106
SHAKESPEARE.....	97, 108
SIGNALINK.....	54
SMILEY ANTENNA.....	83
SOLARCON.....	82, 107
SONY.....	112
STICKY PAD.....	121
STORM COPPER.....	99
SYNTHETIC TEXTILES.....	79
TARHEEL ANTENNAS.....	80
TENERGY.....	44
TERK.....	118
TIMES MICROWAVE (TMS).....	96
TIMEWAVE.....	51, 55, 93
TRIPP LITE.....	44

TURBO TUNER.....	80
TWEAKED EARBUDS.....	115
US TOWER.....	85
UNIDEN.....	107, 110, 111
UNIFIED MICROSYSTEMS (UNM).....	53
UNIVERSAL TOWERS (UNT).....	85
VANCO (VCO).....	95, 97, 118
VECTRONICS.....	88, 95, 100, 120
VELLEMAN.....	43, 96, 118-120
VIBROPLEX.....	53
W2AU (UNADILLA).....	79
W4RT.....	55, 93
W5YI/GORDON WEST.....	101, 106, 112, 115
WATFFL (LADDER LOC).....	79
WAHL CLIPPER CORP.....	120
WELLER.....	119
WEST MOUNTAIN RADIO.....	44, 45, 50, 54
WILEY (WIE).....	106
WINEGARD.....	118
WOUXUN.....	25
YAESU.....	33-37, 49-51, 80, 87, 128, C III

PRODUCT TYPE

AIRCRAFT RADIO.....	108
AMPLIFIERS & ACC.....	26, 34, 46, 47
ANTENNA ANALYZERS.....	23, 92-94
ANTENNA FEEDTHROUGH PANELS.....	79
ANTENNA MOUNTS - BASE.....	57, 68, 77, 81, 84
ANTENNA MOUNTS - MOBILE.....	58-60, 66, 69, 71, 80, 82, 83
ANTENNA TUNE CONTROLLERS.....	80, 92
ANTENNA TUNERS - AUTOMATIC.....	88-92
ANTENNA TUNERS - MANUAL.....	88, 89, 92
ANTENNA WIRE.....	77, 79
ANTENNAS - BASE.....	23, 57, 61-63, 70, 72, 73, 75, 79, 81, 82, 121
ANTENNAS - HANDHELD.....	58, 59, 65, 81, 83
ANTENNAS - MOBILE.....	58, 59, 63-65, 68-71, 74, 80, 81-83, 88
ANTENNAS - SCANNER/SWL.....	63, 70, 83, 109, 112, 113, 115
BALUNS/INSULATORS.....	75, 76, 78, 79, 91
BATTERIES/CHARGERS/ANALYZER.....	44, 45
BOOKS/MAGAZINES.....	56, 100-106, 108, 112, 115
CB RADIOS/ANTENNAS.....	107
CLOCKS/CLOCK RADIOS.....	115, 117, 120
COAX ASSEMBLIES.....	60, 67, 78
COAX CONNECTORS/ADAPTERS.....	97
COAX SWITCHES.....	67, 75, 98
COAX/LADDER LINE.....	79, 96
DC POWER CONNECTIONS/WIRE.....	45
DIGITAL MODE INTERFACE.....	54, 55
DSP/NOISE REDUC/SPEECH ENHAN.....	50, 51, 57
DUMMY LOADS.....	67, 95
DUPLEXERS/TRIPLEXERS.....	67, 98
DX BEACON.....	55
D-STAR.....	1, 27-29, 51
ELECTRONIC LAB KITS/RADIO KITS.....	120
ENCODERS/DECODERS.....	51
FILTERS - CW/SSB.....	55, 113
FILTERS - LOW/HIGH.....	100
FILTERS - TOROIDS/NOISE.....	45, 100
FLASHLIGHTS/ROAD FLARES.....	121
GPS/APRS.....	1, 28-31, 36, 37, 55
GROUNDING.....	75, 99

HEADPHONES/EARPHONES/BUDS.....	49, 50, 115
HEADSETS/BOOMSETS.....	49, C IV
HF RADIOS.....	C II, 26, 27, 30, 32, 34, 35, 128, C III
HT - 2M.....	C I, 24, 25, 29, 31, 33, 36
HT - 220 MHz.....	25, 31
HT - 440 MHz.....	1, 25, 28, 29, 36
HT - 900 MHz.....	25
HT - 1.2 GHz.....	25
HT - COMMERCIAL BAND.....	25
HT - DUAL-BAND.....	1, 25, 29, 31, 37
HT - QUAD-BAND.....	37
HT - TRI-BAND.....	25, 31, 37
INSPECTION CAMERA.....	118
INTERNET LINKING.....	51
INTERNET RADIO (WIFI).....	114, 115
LIGHTNING PROTECTION.....	67, 75, 99
MAPS.....	106
MARINE RADIOS/ANTENNAS.....	108
MEGAPHONE.....	118
MICROPHONES & ACC.....	27, 31, 48, C IV
MOBILE - 10M.....	24
MOBILE - 6M.....	24
MOBILE - 2M.....	24, 28, 31, 33, 35
MOBILE - 220MHz.....	24
MOBILE - 1.2 GHz FM & D-Star.....	1, 28
MOBILE - DUAL-BAND.....	1, 28, 30, 33, 35, 36
MOBILE - HF.....	C II, 27, 30, 35
MOBILE - QUAD-BAND.....	36
MORSE CODE/CW KEYERS/READERS.....	52, 53
MOUNTS FOR ELECTRONICS.....	41, 56, 121
PACKET/TNC.....	24, 31, 55
PORTABLE RADIO PACKS.....	56
POWER OUTLETS/PANELS.....	42, 44, 45
POWER PLUGS/ADAPTERS.....	44, 45, 118
POWER SUPPLIES/INVERTERS/BACKUP.....	24, 27, 36, 42, 43, 45
PREAMPLIFIERS.....	47
PRESELECTORS.....	113
QRP RADIOS/ACC.....	24, 35
QSL CARD HOLDERS.....	121
QUICK REFERENCE GUIDES.....	56
RECEIVERS - AM/FM/SW.....	112, 114, 115
RECEIVERS - COMMUNICATIONS.....	111, 113
RECEIVERS - WIDEBAND.....	111, 112
REPEATERS.....	51
ROPE/GUY KITS.....	57, 79, 84
ROTATORS/CABLE/ACC.....	86, 87
SATELLITE COMMUNICATIONS.....	27, 30, 81
SCANNERS.....	109-111
SOFTWARE.....	27, 56, 84, 101, 102, 104
SOLAR PANELS.....	43
SOLDERING & ACCESSORIES.....	119, 120
SOUND CARD INTERFACES.....	54
SPEAKERS.....	27, 31, 36, 50, 57
SWR/WATTMETERS/ANALYZERS.....	23, 91, 94, 95, 121
TEST EQUIPMENT.....	42, 100, 119
TOOLS.....	45, 96, 119
TOWERS/TRIPODS/MASTS.....	84, 85
TUBES.....	46
TV/AM&FM ANTENNAS/ACC.....	118, 119
WEATHER PROTECTION FOR COAX.....	98
WEATHER RADIOS/INSTRUMENTS.....	116, 117
WI-FI ANTENNAS.....	62, 64, 121

CODES WITHIN THE PRICE GUIDE

(T) Item too large for ground shipment. Shipment by truck only. No COD, send payment in advance or use charge card for merchandise. Freight charges collected upon delivery.

Note: Charges for truck shipments from 1-99 lbs are running a minimum of \$80.00, plus local destination charges. It is advisable to contact a local freight office for a quotation.

(D) **DISCONTINUED** by Manufacturer but available from stock in limited quantities when price guide was published.

(†) **TEMPORARY LOW PRICE** due to special purchase, over stock, etc. Quantities may be limited at this price.

(Δ) Item **not** discontinued by Manufacturer but probably won't be available from AES when present stock is gone.

All Prices and Specifications in this catalog are subject to change without notice. Due to foreign currency fluctuations, promotions, manufacturer's specials, etc. prices may vary, so please confirm prices with salesperson before ordering.

AMATEUR ELECTRONIC SUPPLY® is not responsible for typographical errors or omissions.

Copyright © 2012 AMATEUR ELECTRONIC SUPPLY®

AES (AES)

14 ANT WIRE #14 stranded antenna wire per ft.
14 ANT WIRE100 ft. cut
14 ANT WIRE3000 ft. Roll

Dogbone White antenna end insulator

MT-1 Vent mount for remote heads

MT-2 Side grip holder for MT-1

MT-3 Motorcycle/bike mt w/express mount ...

MT-4 Vent grip mt for small cell max 2-1/4" wide D

MT-5 Visor mount w/express mount

MT-2 Side grip holder for MT-5

MT-6 Dash bean bag mt w/side grip holder ..

MT-7 Seat bolt mount

MT-2 Side grip holder for MT-7

MT-8 Window mount w/express mount

MT-9 Low vibration windshield/dash mount ...

MT-10 Low profile universal mount w/swivel

MT-11 Cup holder mount w/express mount ...

MT-2 Side grip holder for MT-11

MT-12 Bug mount; dash/console/windshield

MT-13 Adhesive kit for MT-8 & MT-9

MT-14 Adhesive kit for MT-10 & MT-12

MT-15 Surface preparation/cleaning pad

SP-N 1.6kw 2.5GHz type N surge protector ...

SP-U 1.6kw 600MHz UHF surge protector

AP Replacement arc-plug for SP-N/SP-U ...

AIM (AIM)

24-7735P Coax stripper; RG-58/59/62

24-7736P Coax stripper; RG-59/6/8281

AOR (AOR)

AR-ONE* Rcvr/restricted sales! special order

AR-8600 Mk II-B .53M-2.04G base Rcvr/cell blkd

AR-8600 Mk II-U* Rcvr/restricted sales! spec order

AR-8200 Mk III-B .5M-3G hand/SSB/cell blkd

AR-8200 Mk III-U* Rcvr/restricted sales! spec order

LC-8200 Leather case

LA-390 .01-500MHz indoor active loop rcv ant

*United States & state government agencies or a political subdivision thereof and communications utility companies and their legal agents **ONLY** may purchase unblocked models of AR-ONE/AR-8200/AR-8600 for official government use only. Mail or FAX purchase order to

AOR - continued

AES. Exports: inquire.

ARRL (ARR)

6672 2012 softcover Radio Amateur's HB w/CD

6634 2012 hardcover Radio Amateur's HB w/CD ..

5781 1970-74 QST on CD-ROM

5773 1975-79 QST on CD-ROM

6109 1996 ARRL Periodicals CD-ROM

6729 1997 ARRL Periodicals CD-ROM

7881 1999 ARRL Periodicals CD-ROM

8209 2000 ARRL Periodicals CD-ROM

8632 2001 ARRL Periodicals CD-ROM

8802 2002 ARRL Periodicals CD-ROM

9124 2003 ARRL Periodicals CD-ROM

9396 2004 ARRL Periodicals CD-ROM

9574 2005 ARRL Periodicals CD-ROM

9841 2006 ARRL Periodicals CD-ROM

1204 2007 ARRL Periodicals CD-ROM

9406 2008 ARRL Periodicals CD-ROM

1486 2009 ARRL Periodicals CD-ROM

2001 2010 ARRL Periodicals CD-ROM

5651 2011 ARRL Periodicals CD-ROM

0011 200 Meters & Down (early ham radio) ..

6320 The ABC's of Software Defined Radio ...

1103 AC Power Interference Handbook 3rd ed ..

9450 Amateur Radio on the Move

6948 Softcover antenna Book w/CD 22nd ed

6801 Hardcover antenna Book w/CD 22nd ed

0194 Antenna Compendium 1

2545 Antenna Compendium 2

4017 Antenna Compendium 3

4912 Antenna Compendium 4

5625 Antenna Compendium 5 w/software ...

7431 Antenna Compendium 6 w/software ...

8608 Antenna Compendium 7

0991 Antenna Compendium 8

0946 Antenna Towers for Radio Amateurs ...

1479 Antenna Designer's Notebook

9994 Basic Antennas

9558 Basic Radio

7440 DXCC Countries List July 2011

9884 DXCC Handbook

9388 Emergency Communication Handbook ..

6153 Emergency Power for Radio Comms 2nd ed

8874 Extra Class License Manual 9th ed w/CD ...

1379 Extra Class Q & A Manual 2nd edition ..

1173 FCC Ham Radio Rules & Regulations 2nd ed

0885 Field Day Handbook

9922 GPS & Amateur Radio book

8119 General Class License Manual 7th ed w/CD

8089 General Q & A Manual 4th edition

6016 Get on the Air with HF Digital

9728 Getting Started with Ham Radio

0984 Guide to Antenna Tuners

1034 HF Digital Handbook 4th edition

9361 Hints and Kinks 17th edition

4920 Introduction to RF Design

1250 Log Book

9744 Low Profile Amateur Radio 2nd edition

8977 Map of North America

9723 Marine Amateur Radio

7539 Minilog

9655 More QRP Power

7709 More Wire Antenna Classics

9795 More Vertical Antenna Classics

8560 ON4UN's Low Band DXing w/CD 5th ed

1093 Operating Manual 9th edition

9310 RF Amplifier Classics

6621 RF Exposure and You

0915 RFI Book 3rd edition

0922 Remote Operating for Amateur Radio ..

5347 2012/13 pocket size Repeater Directory

5485 2012/13 desktop edition Repeater Directory

9857 Satellite Handbook

AES Price

ARRL - continued

8624 Simple and Fun Antennas for Hams

8393 Small Antennas for Small Spaces

0908 Storm Spotting and Amateur Radio

0977 Technician Lic Man 2nd ed w/CD (new ham)

0847 Technician Q & A Manual 5th edition ...

2701 Transmitter Hunting

4678 2012/13 TravelPlus for Repeaters CD-ROM

0823 Understanding Basic Electronics 2nd ed

1220 VHF Digital Handbook

9078 VHF/UHF Antenna Classics

5218 Vertical Antenna Classics

9183 Vintage Radio

1431 VoIP and Amateur Radio 2nd edition ...

7075 Wire Antenna Classics

5226 Radio Amateurs World Atlas

7717 World Azimuthal Map

2944 World Grid Locator Atlas

8804 World Robinson Map

8187 Yagi Antenna Classics

8314 Your Introduction to Morse Code CD's ..

Alan Broadband (ALA)

185 Dlx analog/dig transmitter/bug detector D

ALINCO (ALI)

DJ-G7T 2m/440/1.2GHz 5/5/1w HT

DJ-G29T 5w 220/2.5w 900 MHz HT

EBP-73 7.4v 1200mah lith ion battery

EDC-36 Angle plug cigarette cable w/filter

EDC-43 Cig lighter cable

EDH-35 Dry cell battery case

EDS-10 Mic/speaker cable

EDS-11 Clone cable

EMS-47* Spkr/mic w/volume control

EMS-62 Speaker/mic

ERW-4C PC cable

ERW-7* USB PC cable

ESC-50 Soft case

*Requires EDS-10 w/DJ-G7T

DJ-V17T 5w 2m FM HT

DJ-V27T 5w 220 FM HT

DJ-V47T 4.5w 440 FM HT

DJ-V57T 5w 2m/4.5w 440 FM HT

EBP-63 7.4v 1100mah lith ion battery

EBP-64 7.4v 1600mah lith ion battery

EBP-65 7.2v 700mah NiMH battery

EBP-66 7.2v 2000mah NiMH battery

EDC-36 Angle plug cigarette cable w/filter

EDC-37 13.8v power cable

EDC-43 Cig lighter cable

EDC-93 Extra wall charger

EDC-144 Rapid charger

EDH-34 Dry cell case

EDS-10 Mic/speaker cable

EDS-11 Clone cable

EME-6* Earphone

EME-12* Headset w/earphone/mic/VOX

EME-13* Headset w/ear bud/mic/VOX

EME-15* Earphone/mic w/VOX

EME-20* Tie-pin mic & earphone

EMS-47* Spkr/mic w/volume control

EMS-62 Speaker/mic

ERW-4C* PC cable

ERW-7* USB PC cable

ESC-41 Soft case

*Requires EDS-10 w/DJ-V17T/N27T/N47T/V57T

DJ-175T 5w 2m FM HT

EBP-71 7.4v 1200mah lith ion battery

EDC-164T Lith ion charger

EBP-72 7.2v 700mah NiMH battery

EME-6 Earphone

EME-12 Headset w/earphone/mic/VOX

EME-13 Headset w/ear bud/mic/VOX

EME-15 Earphone/mic w/VOX

EMS-47 Spkr/mic w/volume control

Alinco - continued

AES Price

ERW-4C	PC cable
ERW-7	USB PC cable
ESC-49	Soft case
EBP-52N	3.6v 500mah NiMH batt; DJ-S40T ..D
EBP-53N	6v 500mah NiMH batt; DJ-S40T ..D
EBP-54N	3.6v 1500mah NiMH batt; DJ-S40T ..D
EDC-88	Quick cgr; nicad battery packs; 596T ..D
EDC-111	Charger for EBP-56N
EDH-31	Dry cell battery case; DJ-S40T
EDH-32	Cigarette lighter cable for DJ-C7T ..Δ
EME-18	Earphone for DJ-C7T
EME-24	Earphone/mic for DJ-C7T
EMS-60	Speaker/mic for DJ-C7T
ESC-27	Soft case for DJ-S11T
ESC-36	Soft case for EBP-48N
ESC-38	Soft case for DJ-C7T
ESC-40	Soft case for DJ-S45T
SW-596	Windows prog software; DJ-596T ..Δ
EBP-52S	3.6v 500mah NiMH batt; DJ-X3T ...D
EDC-105	NiMH batt cgr, less ps; DJ-X3T ...Δ
EDH-31S	Dry cell battery case; DJ-X3T
EDS-12	Remote controller cable; DJX30T ...Δ
ESC-29	Soft case for EBP-37N
DR-03T	10w 10m FM Xcvr
DR-06T	50w 6m FM Xcvr
EDC-37	13.8v power cable; ignition on/off ..
EDC-43	Cig lighter cable; ignition on/off ...
EJ-41U	1200/9600 TNC unit; DR-06T
EJ-47U	Digital board; DR-06T
DR-135T Mk III	Black 50w 2m FM Xcvr
DR-235T Mk III	Black 25w 220 FM Xcvr
EDC-37	13.8v power cable; ignition on/off ..
EDC-43	Cig lighter cable; ignition on/off ...
EJ-41U	1200/9600 TNC unit
EJ-47U	Digital board; Mk II/III
ERW-4C	PC cable
ERW-7	USB PC cable
MB-130	Extra mobile bracket
HK-130	Hardware kit for MB-130
PC-15B	Extra DC cable
SW-620	Windows programming software ..
DR-135TP Mk III	Blk 50w 2m FM/9600 TNC
EDC-37	13.8v power cable; ignition on/off ..
EDC-43	Cig lighter cable; ignition on/off ...
EJ-47U	Digital board; Mk II/III versions
ERW-4C	PC cable
ERW-7	USB PC cable
MB-130	Extra mobile bracket
HK-130	Hardware kit for MB-130
PC-15B	Extra DC cable
SW-620	Windows programming software ..
DR-635T	50/35w 2m/440 FM Xcvr
EDS-9	Separation kit
EJ-47U	Digital board for DR-620T/635T ...
EJ-50U	TNC unit for DR-620T/635T
ERW-4C	PC cable
ERW-7	USB PC cable
MB-130	Extra mobile bracket
HK-130	Hardware kit for MB-130
PC-15B	Extra DC cable
SW-620	Windows programming software ..
DM-330MVT	30A switching ps/meter/32A surge ..
DM-340MVT	30A ps w/meters/35A surge

ALPHA DELTA (ALP)

ATT-3G50	200w 3GHz type N surge protector
ATT-3G50-HP	2kw 3GHz type N surge protector
ATT-3G50B	200w 3GHz type N bulkhead protector
ATT-3G50U	200w 500MHz UHF surge protector
ATT-3G50U-HP	2kw 500MHz UHF surge protector
ATT/3G50	Extra 200w arc-plug cartridge ...
ATT-HP/3G50HP	Extra 2kw arc-plug cart ...
UCGC	Universal copper ground rod clamp ...

Alpha Delta - continued

AES Price

Delta-2B	500 MHz 2-pos coax switch/protector
Delta-2B/N	1.3 GHz 2-pos N switch/protector
Delta-4B	500 MHz 4-pos coax switch/protector
Delta-4B/N	1.3 GHz 4-pos N switch/protector
ASC-4B	500 Mhz 4-pos ant selector console
ASC-4B/N	1.3 GHz 4-pos N ant selector console .
D-4	Extra arc-plug; all switches above
Delta-C	Kit w/ctr ins/2 end ins/static protect
SEP	Extra arc-plug cart; DX-Ultra/Delta-C
Delta-CIN	Antenna end insulator .....each
DX-80	80m 134' complete dipole antenna
DX-40	40m 67' complete dipole antenna
DX-20	20m 34' complete dipole antenna
DX-A	160-80-40m twin sloper antenna
DX-B	160-80-40-30m 60' sloper ant
DX-CC	80-10m 5-band 82' no trap, no tuner dipole
DX-DD	80/40m 82' Delta Dipole antenna
DX-EE	40-10m 4-band 40' no trap, no tuner dipole
DX-LB	160-80-40m 100' shortened dipole
DX-LB Plus	160/80/40/20/15/10m 100' short dip
DX-SWL	AM broadcast-13m 60' SWL sloper ant
DX-Ultra	AM broadcast-30MHz 80' SWL dipole
SEP	Extra arc-plug cart; DX-Ultra/Delta-C

AMECO (AME)

CODE PRACTICE OSCILLATORS & CODE KEYS

K-1	Bakelite type key
K-4R	Brass type key
OCM-2K	Code oscillator & CW monitor kit
OCM-2W	Wired oscillator & CW monitor

FILTER

HP-75T	75 ohm high-pass filter
--------	-------------------------------

AMERITRON (AMR)

AL-80B	1kw PEP out linear amp (3-500Z)
AL-82	1.5kw PEP out linear amp (2 3-500Zs)
AL-572	1.3kw PEP out linear amp (4 572Bs)
AL-800	1250w PEP out linear (3CX800A7) ..
AL-800H	1.5kw PEP out amp (2 3CX800A7) Δ
AL-811	600w PEP out linear amp (3 811As) .
AL-811H	800w PEP out linear amp (4 811As)
AL-1200	1.5kw PEP out linear (3CX-1200A7) Δ
AL-1500	1.5kw out linear amplifier (8877) ...
ALS-500M	500w PEP out solid state mob amp
ALS-500RC	Remote head; sn 13049 & up .
ALS-600	600w PEP out solid state amp w/ps
ALS-600S	600w PEP out solid state amp/switch ps
ALS-1300	1200w PEP out solid state amp w/ps
ALS-500RC	Remote head
ARB-704	Amplifier Xcvr interface buffer
PNP-5M	Plug & play cable; FT-847
PNP-7D	Plug & play cbl; TS-570S/590S/870S/2000
PNP-8D	Plug & play cable; FT-920/1000/2000
PNP-8DI	Plug & play cable; 8-pin DIN/com acc
PNP-8M	Plug & play cbl; FT-450/817/857/897/950
PNP-8MK	Plug & play cable; TS-480
PNP-13D	Plug & play cable; IC-706/718/7000
PNP-35	Plug & play cable; FT-100 series ..
ARB-704I2	Amp Xcvr interface/cbl; IC-706/7000
ATP-100	Amplifier tuning pulser
ATP-102	Deluxe amplifier tuning pulser
ATR-20	1.2kw PEP antenna tuner
ATR-30	3kw PEP antenna tuner
ADL-1500	1.5kw dummy load with oil
ADL-2500	2.5kw dummy load with fan
ICP-120	120v inrush protector
ICP-240	240v inrush protector
AWM-30	3kw PEP SWR/wattmeter/rem sens .
AWM-35	3kw PEP mobile SWR/wattmeter
QSK-5	Stand alone T/R switch
QSK-5PC	PC board kit; T/R switch
CF-5	Cooling fan for QSK-5
RCS-4	4-pos wireless remote coax switch
RCS-8V	160-2m 5-pos remote coax switch ...

Ameritron - continued

AES Price

RCS-8VN	160-2m 5-pos N rem coax switch ..
Note: RCS-8V/VN require 8-wire control cable.	
RCS-10	DC-100MHz 8-pos remote coax switch
Note: RCS-10 requires 4-wire control cable.	
SDC-102	Prog screwdriver ant controller

Amphenol (See Connectors)

ARROW Antenna (ARA)

146/437-10	3 el 2m/7 el 440 handheld beam
146/437-10BP	3el 2m/7el 440 HH split bm beam
10w duplexer	(installs in boom) w/BNC
10w duplexer	(installs in boom) w/SMA
30" ant bag	Carry bag for 146/437-10BP .
OSJ-146/440	2m/440 57.5" J-pole antenna ..

ARTSCI (ART)

Repeater Mapbook	15th edition
------------------	--------------------

ASTRON (ASR)

RS-7A	5A power supply, 7A surge
RS-10A	7.5A power supply, 10A surge
RS-12A	9A power supply, 12A surge
RS-20A	16A power supply, 20A surge
RS-35A	25A power supply, 35A surge
RS-50A	37A power supply, 50A surge
RS-70A	57A power supply, 70A surge
RS-20M	16A ps w/meters, 20A surge
RS-35M	25A ps w/meters, 35A surge
RS-50M	37A ps w/meters, 50A surge
RS-70M	57A ps w/meters, 70A surge
VS-20ML	Variable 16A ps/meters, 20A surge .
VS-35M	Variable 25A ps/meters, 35A surge .
VS-50M	Variable 37A ps/meters, 50A surge .
RM-35M	25A rack mt ps/meters, 35A surge .
RM-50M	37A rack mt ps/meters, 50A surge .
RM-60M	50A rack mt ps/meters, 55A surge .
SS-25	20A switching ps, 25A surge
SS-25M	20A switching ps/meters, 25A surge
SS-30	25A switching ps, 30A surge
SS-30M	25A switching ps/meters, 30A surge
N2412-12	10A 22-32vdc to 13.8vdc converter
N2412-24	20A 22-32vdc to 13.8vdc converter

AvMap (AVM)

G-6APRS	GPS/APRS w/Kenwood cable
---------	--------------------------------

BMI (BMI)

972AD	12" 12/24-hour wall clock
-------	---------------------------------

BELDEN (BEL)

52 OHM COAXIAL CABLE

8216	RG-174 (sub-miniature)
8219	RG-58AU (stranded, foam)
8219 WHT	RG-58AU (white, foam)
8262	RG-58CU (non-contaminating) Δ,per ft.
9913F7	RG-8U (low loss, flexible)
9913F7	100 ft. cut
9913F7	500 ft. Roll

75 OHM COAXIAL CABLE

8241	RG-59U (73 ohm, solid center) Δ,per ft.
9248	RG-6U (75 ohm, solid center) Δ,per ft.
8238	RG-11 (75 ohm, stranded center) Δ,per ft.

ROTOR CABLE

8484	4-wire; 4-20 gauge
------	--------------------------

No. 8 ALUMINUM GROUND WIRE

8018	Multiples of 50 ft. ....D,each
------	--------------------------------

BENCHER (BEN)

BY-1	Iambic keyer paddle w/black base
BY-2	Iambic keyer paddle w/chrome base
BY-4	Iambic paddle/blk base/gold components
170-82	Mercury paddle
ST-1	Single lever keyer paddle, black base ...

Benchner - continued

AES Price

ST-2	Sgl lever kyr paddle, chrome base
RJ-1	Dlx hand key w/navy knob/black base ..
RJ-2	Dlx hand key w/navy knob/chrome base ..
EZ-1	Universal hook-up kit; paddle/key (not 170-82)
YA-1	1kw low pass filter

BETTER RF (BET)

706	Tune Control for IC-706 series/IC-718
7000	Screwdriver Control* for IC-7000
*Requires 7000 Tune Control also	
7000	Tune Control for IC-7000
I-Mate	Msg acc; PRO/PROII/7410/7600/7700/7800
Yae	Tune Control for FT-100/857/897

BongoTies (BON)

A5-01	Package of 10 cable ties
-------	--------------------------------

BUCKMASTER (BUC)

OCF	80-6m 300w 135' off-center-fed dipole
OCF-HP	80-6m 3kw 135' off-center-fed dipole

BUTTERNUT (BUT)

Skyhawk 3X10	Triband 10 el, 24' beam w/balun *
--------------	-----------------------------------

*Skyhawk 3X10 is drop-shipped (shipped direct to you from the BUTTERNUT factory). We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. You can obtain shipping charges from any AES salesperson by phone or email.

HF-6VX	80/40/30/20/15/10m 26' vert ant
--------	--------------------------------------

HF-9VX	80/40/30/20/17/15/12/10/6m 26' vert
--------	-------------------------------------

A17-12	17 & 12m kit for HF-6VX
--------	-------------------------------

CPK	Counterpoise kit
-----	------------------------

MPS	Mounting post sleeve
-----	----------------------------

RMK-II	Roof mounting kit w/radials
--------	-----------------------------------

STR-II	Radial kit only
--------	-----------------------

TBR-160S	160m resonator
----------	----------------------

HF-2V	80/40m 32' vertical
-------	---------------------------

TBR-160S	160m resonator
----------	----------------------

CQ (CQX)

Building and Using Baluns and Ununs	
-------------------------------------	-------

HR Anthology - Homebrewing Techniques	
---------------------------------------	-------

W6SAI HF Antenna Handbook	
---------------------------	-------

CABLE X-PERTS (CAB)

CXP1318FX	CXP1318FX (low loss, flexible) per ft.
CXP1318FX	500 ft. Roll

CXP1318FC-3	3' CXP1318FX/silver teflon PL259s
-------------	-----------------------------------

CXP1318FC-6	6' CXP1318FX/silver teflon PL259s
-------------	-----------------------------------

CXP1318FC-25	25' CXP1318FX/silver teflon PL259s
--------------	------------------------------------

CXP1318FC-50	50' CXP1318FX/silver teflon PL259s
--------------	------------------------------------

CXP1318FC-75	75' CXP1318FX/silver teflon PL259s
--------------	------------------------------------

CXP1318FC-100	100' CXP1318FX/silver teflon PL259s
---------------	-------------------------------------

CXP1318FC-150	150' CXP1318FX/silver teflon PL259s
---------------	-------------------------------------

CXP1318FN-3	3' CXP1318FX/type N males
-------------	--------------------------------

CXP1318FN-6	6' CXP1318FX/type N males
-------------	--------------------------------

CXP1318FN-10	10' CXP1318FX/type N males
--------------	---------------------------------

CXP1318FN-25	25' CXP1318FX/type N males
--------------	---------------------------------

CXP1318FN-50	50' CXP1318FX/type N males
--------------	---------------------------------

CXP1318FN-75	75' CXP1318FX/type N males
--------------	---------------------------------

CXP1318FN-100	100' CXP1318FX/type N males
---------------	----------------------------------

CXP1318FN-125	125' CXP1318FX/type N males
---------------	----------------------------------

CXP008C-3	3' RG8 foam/silver teflon PL259s
-----------	----------------------------------

CXP008C-6	6' RG8 foam/silver teflon PL259s
-----------	----------------------------------

CXP008C-25	25' RG8 foam/silver teflon PL259s
------------	-----------------------------------

CXP008C-50	50' RG8 foam/silver teflon PL259s
------------	-----------------------------------

CXP008C-75	75' RG8 foam/silver teflon PL259s
------------	-----------------------------------

CXP008C-100	100' RG8 foam/silver teflon PL259s
-------------	------------------------------------

CXP008C-125	125' RG8 foam/silver teflon PL259s
-------------	------------------------------------

CXP213C-6	6' RG213/silver teflon PL259s
-----------	------------------------------------

CXP213C-15	15' RG213/silver teflon PL259s
------------	--------------------------------

CXP213C-25	25' RG213/silver teflon PL259s
------------	--------------------------------

Cbl Xperts - continued

AES Price

CXP213C-50	50' RG213/silver teflon PL259s
------------	--------------------------------

CXP213C-75	75' RG213/silver teflon PL259s
------------	--------------------------------

CXP213C-100	100' RG213/silver teflon PL259s
-------------	---------------------------------

CXP08XC-18IN	18" RG8X/silver teflon PL259s
--------------	-------------------------------

CXP08XC-3	3' RG8X/silver teflon PL259s
-----------	------------------------------------

CXP08XC-6	6' RG8X/silver teflon PL259s
-----------	------------------------------------

CXP08XC-12	12' RG8X/silver teflon PL259s ..
------------	----------------------------------

CXP08XC-25	25' RG8X/silver teflon PL259s ..
------------	----------------------------------

CXP08XC-50	50' RG8X/silver teflon PL259s ..
------------	----------------------------------

CXP08XC-75	75' RG8X/silver teflon PL259s ..
------------	----------------------------------

CXP08XC-100	100' RG8X/silver teflon PL259s
-------------	--------------------------------

6633S	Type N male; 8214/9913/9913F
-------	------------------------------------

CXP058ARBP-3	3' RG58/rft angle BNC male - PL-259
--------------	-------------------------------------

CXP058ARBS-3	3' RG58/BNC male - SO-239
--------------	---------------------------

CXP08XC-3	3' RG8X/male BNCs
-----------	-------------------------

CXP08XC-6	6' RG8X/male BNCs
-----------	-------------------------

UG-3634	4" SO-239 double female
---------	-------------------------------

UG-3636	6" SO-239 double female
---------	-------------------------------

235	1" tinned copper ground braid .....per ft
-----	---

235	100 ft. Roll
-----	-------------------

2332	1/2" tinned copper ground braid .....per ft.
------	--

2332	100 ft. Roll
------	-------------------

AZ-12	12ga red/black DC power cord .....per ft
-------	--

AZ-12	100 ft. Roll
-------	-------------------

Channel Master (CHA)

9521A	Prog light duty rotor/IR rem cont/3-wire
-------	--

CLOCKS

BMI 972AD	12" 12/24-hour wall clock
-----------	---------------------------------

LAC WT-3102S	10" 12-hr analog atomic clock
--------------	-------------------------------

MFJ 105D	24-hour quartz wall clock
----------	---------------------------------

MFJ 107B	24-hour digital clock
----------	-----------------------------

MFJ 108B	24/12-hour dual disp digital clock
----------	------------------------------------

MFJ 112B	Deluxe world map clock
----------	------------------------------

MFJ 113	24/12-hr 1.8" LED clock/batt back-up
---------	--------------------------------------

MFJ 118	Giant 24/12 hour LCD clock
---------	----------------------------------

MFJ 121B	Giant 24/12hr LCD dual time atomic
----------	------------------------------------

MFJ 123B	Eternity solar atomic clock
----------	-----------------------------------

COAX SEAL (UNV)

104	1/2" x 60" coax seal
-----	----------------------------

COAX WRAP (CWR)

CW-10B	1" x 10' black silicon tape
--------	-----------------------------------

CW-10R	1" x 10' red silicon tape
--------	---------------------------------

Coaxial Dynamics (COA)

81000-A	Wattmeter w/SO-239s
---------	---------------------------

83000-A	Peak reading wattmeter w/SO-239s
---------	----------------------------------

82004	50w 2-30MHz element
-------	---------------------------

82005	100w 2-30MHz element
-------	----------------------------

82006	250w 2-30MHz element
-------	----------------------------

82007	500w 2-30MHz element
-------	----------------------------

82008	1000w 2-30MHz element
-------	-----------------------------

82009	2500w 2-30MHz element
-------	-----------------------------

82010	5000w 2-30MHz element
-------	-----------------------------

82013	10w 25-60MHz element
-------	----------------------------

82014	25w 25-60MHz element
-------	----------------------------

82015	50w 25-60MHz element
-------	----------------------------

82016	100w 25-60MHz element
-------	-----------------------------

82029	10w 100-250MHz element
-------	------------------------------

82031	50w 100-250MHz element
-------	------------------------------

82033	250w 100-250MHz element
-------	-------------------------------

82046	10w 400-1000MHz element
-------	-------------------------------

82048	50w 400-1000MHz element
-------	-------------------------------

82049	100w 400-1000MHz element
-------	--------------------------------

88000	N female quick match connector each
-------	-------------------------------------

88800	Carrying case for meter
-------	-------------------------------

COBRA (COB)

19DX IV	AM Mobile CB
---------	--------------------

25LTD	(25LTD Classic) AM Mobile CB
-------	------------------------------

25WXNW ST	Night Watch Sound Tracker AM Mob CBWX
-----------	---------------------------------------

29LTD	(29LTD Classic) AM Mobile CB
-------	------------------------------------

Cobra - continued

AES Price

29NW	Night Watch AM Mobile CB
------	--------------------------------

29WXNW ST	Night Watch Sound Tracker AM Mob CBWX
-----------	---------------------------------------

75WX ST	Sound Tracker AM Mobile CB w/WX
---------	---------------------------------

148GTL	SSB/AM Mobile CB
--------	------------------------

HH-Road Trip	Sound Tracker HH CB/WX/mag ant
--------------	--------------------------------

HGA-1000	Magnet mt CB antenna
----------	----------------------------

HGM-77	Noise canx/amplified mobile mic
--------	--------------------------------------

COMET (CMT)

ANTENNA MOUNTING SYSTEMS

CP-45	14' 8" 1-3/8" OD telescoping alum mast
-------	--

106105	RV ladder bkts for CP-45 or 1.5" mast
--------	---------------------------------------

YS-45	Ground mount aluminum tripod for CP-45
-------	--

ANTENNA ANALYZER & METER

CAA-500	1.8-500MHz antenna analyzer
---------	-----------------------------------

CMX-2300	1.8-200 3kw/140-525 200w meter
----------	--------------------------------

MOBILE ANTENNAS

B-10	2m/440 0/2.15db 12" cell look-alike ant
------	---

B-10NMO	2m/440 0/2.15db 12" cell look-alike NMO
---------	---

CA-2X4SR	2m/440 3.8/6.2db 40" mob ant ...
----------	----------------------------------

CA-2X4SRNMO	2m/440 3.8/6.2db 40" NMO ant
-------------	------------------------------

CSB-750A	2m/440 3.6/6.1db 42" foldover ant
----------	-----------------------------------

CSB-770A	2m/440 4.4/6.9db 51" foldover ant
----------	-----------------------------------

CSB-790A	2m/440 5.1/7.7db 62" foldover ant
----------	-----------------------------------

HP-32FHN	2m/440 3/5.5db 34" 350/250w ant
----------	---------------------------------

M-24B	2m/440 1.7/4.1db mag mt ant w/BNC
-------	-----------------------------------

M-24M	2m/440 1.7/4.1db mag mt ant w/PL259
-------	-------------------------------------

M-24S	2m/440 1.7/4.1db mag mt ant w/SMA
-------	-----------------------------------

SBB-1	2m/440 1.5/2.15db 16" flex mobile ...
-------	---------------------------------------

SBB-1NMO	2m/440 1.5/2.15db 16" flex NMO
----------	--------------------------------

SBB-2	2m/440 2.15/3.8db 18" black mobile
-------	------------------------------------

SBB-2NMO	2m/440 2.15/3.8db 18" blk NMO
----------	-------------------------------

SBB-5	2m/440 3/5.5db 38" black mobile ant
-------	-------------------------------------

SBB-5NMO	2m/440 3/5.5db 38" black NMO ..
----------	---------------------------------

SBB-7	2m/440 4.5/7.2db 55" black mob ant
-------	------------------------------------

SBB-7NMO	2m/440 4.5/7.2db 55" black NMO
----------	--------------------------------

SB-14	6m/2m/440 43" chrome mobile ant ...
-------	-------------------------------------

SBB-15	6m/2m/440 0/4.5/7.2db 61" blk mob
--------	-----------------------------------

SBB-25	2m 4.1db black mobile antenna
--------	-------------------------------------

SBB-25NMO	2m 4.1db black NMO mob ant
-----------	----------------------------------

SBB-94	2m/440/1.2 2.15/5.1/7.2db 24" N blk
--------	-------------------------------------

SBB-97	2m/440/1.2 3/6.8/9.6db 40" N black
--------	------------------------------------

SBB-123	1.2GHz 7.2db 24" type N blk mob ..
---------	------------------------------------

SBB-224	2m/220/440 2.15/3.5/6db blk mob
---------	---------------------------------

SBB-224NMO	2m/220/440 2.15/3.5/6db blk NMO
------------	---------------------------------

SF-245SPRR	2.4GHz 7db 18" fg N ant/spring
------------	--------------------------------

SS-460SB	2m/440 2.15/3.8db 18" blk ant/spring
----------	--------------------------------------

SS-460SBNMO	2m/440 2.15/3.8db 18" blk NMO/spg
-------------	-----------------------------------

SS-680SB	2m/440 2.15/4.15db 27" blk ant/spg
----------	------------------------------------

SS-680SBNMO	2m/440 2.15/4.15db 27" blk NMO/spg
-------------	------------------------------------

UHV-4	10/6/2/440 55" mobile ant; FT8900R
-------	------------------------------------

UHV-6	40/15/10/6/2m/440 78" mobile ant ...
-------	--------------------------------------

L-3.5	80m loading coil for UHV-6
-------	----------------------------------

L-14	20m loading coil for UHV-6/CA-HV
------	---------------------------------------

L-18	17m loading coil for UHV-6/CA-HV
------	---------------------------------------

MOBILE MOUNTS

3D4M	Mobile mt, 13' coax w/UHF connectors
------	--------------------------------------

3D4N	Mobile mt, 13' coax w/type N
------	------------------------------------

3D5M	Mobile mt, 16.5' coax w/UHF connectors
------	--

5D4N	Roof mount, 13' coax w/type N
------	-------------------------------------

AD-10N	NMO mount to female N adapter
--------	-------------------------------------

AD-15M	NMO mount to SO-239 adapter
--------	-----------------------------------

AD-25M	SO-239 to NMO mount adapter
--------	-----------------------------------

AD-35M	3/4-24 stud to UHF mobile mt adapter
--------	--------------------------------------

CK-3-3/8-24	Dlx 2-step 16.5' cbl/3/8-24/UHF
-------------	---------------------------------

</

Comet - continued

AES Price

CT-5M	Trunk lip mount w/16.5' coax	
GRB-5M	Deluxe black trunk lip mt w/coax .D	
HD-5-3/8-24	HD 5/8" lip mt (RS-840) w/16.5' coax	
LD-5M	Hvy duty lip mt (RS-840) w/16.5' coax	
LD-5M	Light duty lip mt w/16.5' coax	
MG-4N	Magnet mt w/13' coax, N connector ..	
RS-520	Mini heavy duty trunk/hatch mount ..	
RS-560C	Luggage rack mount	
RS-660U	Wide opening roof rack mount	
RS-720	Hatch/rear door/trnk multi-adj mt	
RS-720NMO	Hch/rear door/trnk multi-adj NMO mt	
RS-730	HD rear van/SUV door/trnk lip mt, no coax	
RS-840	HD low profile lip mt w/lateral support	
BASE STATION ANTENNAS		
CA-712EF	440 9db 10' 5" base antenna	
CA-F726F	440-470 6db 3' 6" tunable ant	
CA-52HB4	6m 4 el 10.4db 10' 6" boom beam	
CHA-250B	3.5-57MHz no radials 23.5' vertical	
CHV-5X	40/20/15/10/6m 13' 150wP rotate dip	
CX-333	2m/220/440 6.5/7.8/9db 10.25' ant	
CYA-1216E	1.2GHz 16el 16.6db 4' 5" bm N beam	
DS-150S	6m/2m/440/900/1.2 discone/60' coax	
GH-50	6m 2.15db 7' 10" fg base antenna .D	
GP-1	2m/440 3/6db 4' 1" base/rptr antenna	
GP-3	2m/440 4.5/7.2db 5' 11" base/rptr ant	
GP-6	2m/440 6.5/9db 10' 2" base/rptr ant ..	
GP-9	2m/440 8.5/11.9db 17' 8" base/rptr ..	
GP-9N	2m/440 8.5/11.9db 17' 8" N base/rptr	
GP-15	6/2m/440 3/6.2/8.6db 7' 11" base	
GP-21/CA-1221S	1.2 14.8db 8' N base/rptr ..	
GP-24R	2.4GHz 15.4db 5' 10" N base/rptr ...	
GP-95	2m/440/1.2 6/8.6/12.8db 8' 1-pc N ant	
GP-98	2m/440/1.2 6.5/9/13.5db 9' 8" N ant.	
H-422	40/20/15/10m 34' rotatable dipole	
KP-20	900 MHz 9.2db 7' 4" type N base/rptr	
CTC-50M	Window gap adapter	

DUPLEXERS AND TRIPLXERS

CF-142	1.3-150/200-480 600/400w UHF/leads	
CF-360A	1.3-30/50-470 600w UHF w/leads ..	
CF-360B	1.3-30/50-470 600w UHF/common lead	
CF-413B	1.3-460/840-1.4 D-Star N/UHF/N/leads	
CF-416A	2m/440 800/500w SO239/PL259/leads	
CF-416B	2m/440 800/500w UHF/N w/leads ..	
CF-416C	2m/440 800/500w N/UHF/N leads ..	
CF-416W	1.3-250/400-1400 400/200w N/leads ...	
CF-530	1.3-90/125-470 600w UHF w/leads ..	
CF-530C	Backwards duplexer for FT-8900R	
CF-706A	1.3-56/75-470 350w UHF w/leads ..	
CF-4130B	1.3-460/840-1400 800/500/200w UHF/N	
CF-4160I	2m/440 800/500w UHF/UHF/N, no leads	
CF-4160J	2m/440 800/500w SO239, no leads ..	
CF-4160K	2m/440 800/500w all UHF, no leads	
CF-4160N	1.3-170/350-540 N duplexer	
CFX-324A	2m/220/440 600w UHF w/leads ...	
CFX-324B	2m/220/440 600w UHF, no leads ..	
CFX-431B	2m/440/1.2 D-Star N/UHF/N/leads	
CFX-514	HF/2m/440 800/800/500w UHF w/leads	
CFX-514J	HF/2m/440 800/800/500w UHF, no leads	
CFX-514N	HF/2m/440 800/800/500w UHF/N/leads	
CFX-4310C	1.3-150/440/1.2 triplexer, no leads	
CFX-5140	HF/6m/2m/440 800/800/500w UHF, no lead	

HT & HANDHELD SCANNER ANTENNAS & CABLES

BNC-24	2m/440 17" 2.15/5.3db BNC whip ...	
CH-32	2m/440 1.75" BNC Miracle Baby ant .	
CH-75	2m/440 0/3.2db 14.75" BNC ant	
HB-05	18" BNC female - SMA male adapter/cbl	
HM-05	18" BNC male - SO-239 adapter/cable	
HM-05-JS1	18" SMA female - SO-239 adapter/cbl	
HS-05	18" SMA male - SO-239 adapter/cable	
HM-05-JS1	18" SMA female - SO-239 adapter/cbl	
HS-10	39" SMA male - SO-239 adapter/cable	
HT-224	2m/220/440 11.5" SMA antenna	
SH-55	2m/440 1.5/3.2db 15" BNC ant	

Comet - continued

AES Price

SH-95	2m/440/1.2 1.5/2.15/5.5db BNC ant .	
SMA-3	2m/440 1.2/1.7db 9.75" SMA ant	
SMA-24	2m/440 17" 2.15/5.3db SMA whip ...	
SMA-24J	2m/440 17" 2.15/5.3db Wouxun whip	
SMA-501	2m/440/900 1.5" SMA antenna	
SMA-503	2m/440 8.75" SMA antenna	
SMA-503J	2m/440 8.75" Wouxun antenna	
SMA-703	2m/440/1.2GHz 6.5" SMA ant	

COMM-SPEC (COM)

ID-8	Automatic morse station identifier	
SS-64	64-tone mini prog CTCSS encoder	
TE-32	32-tone CTCSS prog encoder box	
TS-64DS	64-tone CTCSS prog encoder/decoder	

CONNECTORS

AMPHENOL COAX CONNECTORS (AMP)

83-TSP	Silver plated coax plug (PL-259)	
(CZL) 401TS	Silver plated teflon PL-259	
83-168-RFX	Reducer; RG-59/RG-8X (UG-176)	
83-185-RFX	Reducer for RG-58 (UG-175) ..	
(SHA) PL-258-CPB-G	Solderless splice; RG8X/58	
(SHA) PL-259-CPB-G	Solderless PL259/RG8X/58	
83-1AP	Right angle adaptor (UG-646)	
83-1J	Double female adaptor (PL-258)	
83-1R	Female chassis mt socket (SO-239) ...	
83-1T	T-connector adaptor (M-358)	
83-877	Double male adaptor	
83-878	Single hole 1/8" chassis socket	

31-002	BNC male connector for RG-58	
31-012	BNC male connector; RG-59/RG-8X ..	
31-221	BNC female chassis socket	
82-24	Type N female chassis mt socket	
82-64	Type N right angle adaptor	
(CAB) 6633S	Type N male; 8214/9913/9913F ..	
82-202-1006	Type N male; 8214/9913/9913F ..	
34025	Type N male connector for RG-58	
(CAB) UG-3634	4" SO-239 double female	
(CAB) UG-3636	6" SO-239 double female	

AMPHENOL COAX ADAPTORS (AMP)

2900	SO-239 to BNC male adaptor	
4400	SO-239 to type N male adaptor	
31-28	BNC female to PL-259 adaptor	
(HOU) SMA-872	SO-239 to SMA plug adaptor	
(VCO) VAD-1	SO-239 to BNC male adaptor ...	

AIM CONNECTORS, PLUGS & ADAPTORS (AIM)

26-8010	Type N double female	
26-8011	Type N chassis mount	
26-8014	N female to PL-259	
26-8015	N male to SO-239	
26-8016	BNC female to N male	
26-8017	BNC male to N female	
27-8120	BNC female to PL-259	
27-8130	BNC double male	
27-8140	BNC T; 2 female, 1 male	
27-8150	BNC right angle adaptor	
29-3855	BNC female to SMA male	
29-4140	SO-239 to mini PL-259	
CPAD-207	Chassis mt 2" SO-239 double female	
CPAD-556M	Dual BNC chassis mount	
(JET) JT-1110	UHF right angle adaptor	
(JET) JT-1111	UHF double male adaptor	
(JET) JT-3140	SMA female to BNC male adaptor	
(JET) JTM-EX	8-pin modular 16.5' mic extension	
(JET) JTM-EXR	8-pin round 16.5' mic extension	
(RFP) RSA-3476	BNC male to SMA female	

VANCO MICROPHONE CONNECTORS (VCO)

CBC-4	4-pin female mic plug	
CBC-5	5-pin female mic plug	
CBC-6	6-pin female mic plug	
(PHI) 61-608B	8-pin female mic plug	
CBC-8P	Panel mt 8-pin male	

Connectors - continued

AES Price

KENWOOD DIN PLUGS (KEN)		
7-pin DIN plug		
8-pin DIN plug		
13-pin DIN plug		
VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)		
MH-1	Magnetic mic holder	
MH-2	Regular mic holder	
P-12R	2-contact cigarette plug	
P-212	2-outlet cigarette plug adapter	
P-212B	Dual cigarette lighter socket adapter	
(DAL) 15-0293	3.5mm mono phone plug	
(HOU) AP-115	1/4" metal stereo plug	
(HOU) AP-135	3.5mm stereo mini phone plug	

C. CRANE (CRA)

CC2B	Black AM/FM/WX/2m portable receiver	
CSW	AM/FM/SW portable receiver	
CWF	Wi-Fi internet radio	
EP	Easy to use AM/FM portable receiver	
SWP	AM/FM/SW pocket receiver	

CROSS DEVICES (CRS)

STUF	Coax connector waterproofing filler	
------	--	--

CUSHCRAFT (CUS)

VHF/UHF FM BEAMS* (Vertical polarization)

A148-3S	2m, 3 el wideband beam, 7.8db	
A148-10S	2m, 10 el wideband beam, 13.2db	
A449-6S	440 MHz, 6 el, 3' boom, 10 db	
A449-11S	440 MHz, 11 el, 4.5' boom, 13 db ..	

*Antennas can be mounted vertically or horizontally!

2M/440 FM BEAMS* (Vertical polarization)

A270-6S	2m/440, 3/3 el, 2.8' boom, 7.8 db ..	
A270-10S	2m/440, 5/5 el, 6.17' boom, 10 db	

*Antennas can be mounted vertically or horizontally!

TRI-BAND 6M/2M/440 BEAM

A6270-13S	6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db	
-----------	--	--

FM RINGOS - 1/2 Wave Verticals

AR-10	10m FM Ringo, 17.6', 3db, 1000w	
AR-6	6m FM Ringo, 10.1', 3db, 1000w	
AR-2	2m FM Ringo, 3.9', 3db, 1000w	
AR-450	440MHz FM Ringo, 1.4', 3db, 500w ..	

RINGO RANGERS - FM Verticals

ARX-2	2m FM Ringo Ranger, 9.3', 5db, 1000w	
ARX-2B	2m FM Ringo Ranger II, 14', 7db, 1000w	
ARX-220B	220 FM Ringo Ranger II, 9.3', 7db, 500w	
ARX-450B	440FM Ringo Ranger II, 4.9', 7db, 500w	

DUAL-BAND 2M/440 FM RINGOS

AR-270	2m/440MHz FM, 3.75', 3/5.5db, 250w	
AR-270B	2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	

TWIST, OSCAR BEAM (Horiz/Vert Polarization)

A148-20T	2m 20el 10.8'boom 13db twist	
----------	-----------------------------------	--

BOOMER ANTENNAS

124WB	2m Boomer, 4 el, 4' boom, 10.2 db ...	
13B2	2m Boomer, 13 el, 15' boom, 15.8 db ..	
17B2	2m Boomer, 17 el, 3' boom, 18 db	
26B2	2 13B2s vertically stacked	
224WB	220 Boomer, 4 el, 3' boom, 10.2db ...	
719B	432 19 el 13.5' boom 15.5db	

BOOMER POWER DIVIDERS

PD-2	Power divider for 2 13B2s	
PD-4	Power divider for 4 13B2s	

VHF/UHF BEAMS* (Horizontal polarization)

A50-3S	6m, 3 el, 6' boom, 8 db, stainless hdwre	
A50-5S	6m, 5 el, 12' boom, 10 db, stainless hdwre	
A50-6S	6m, 6 el, 20' boom, 11db, stainless hdwre	
A148-10S	2m, 10 el wideband beam, 13.2db	
A430-11S	430 MHz, 11 el, 4' boom, 13 db	

*Antennas can be mounted vertically or horizontally!

MULTIBAND HF VERTICAL ANTENNAS

MA-5VA	20/17/15/12/10m 14.7' vertical ant	
MA-6VA	20/17/15/12/10/6m 14.7' vertical ant .	

Cushcraft - continued AES Price

MA-160V	160m 36' vertical ant w/radials
MA-8040V	80/40m 27' vertical antenna
R-6000	20/17/15/12/10/6m 19' vertical
R-8	40/30/20/17/15/12/10/6m 28.5' vert
R-8GK	Guy kit for R-8

ROTATABLE HF DIPOLES

D-3	20/15/10m World Ranger rotatable dipole
D-3W	30/17/12m rotatable dipole
D-4	40/20/15/10m World Ranger rotatable dipole
D-40	40m World Ranger rotatable dipole

BIG THUNDER HF TRI-BAND BEAM

X-7	20/15/10m, 7 el, 18' boom, 12.5/13db ..
X-740	40m add-on kit for X-7

BIG THUNDER HF MONOBAND BEAM

XM-240	40m, 2 el, 22' boom, 6 db
TEN-3	10m, 3 el, 8' boom, 8 db

MULTIBAND HF BEAM ANTENNAS

A-3S	20/15/10m, 3el, 14'bm, 8db, stainless hdwr
A-743	40m or 30m add-on kit; A-3/A-3S ...
A-4S	20/15/10m, 4el, 18'bm, 8.9db, stainless hdwr
A-744	40m or 30m add-on kit; A-4/A-4S ...
A-3WS	17 & 12m, 3 el, 14' boom, 8 db
A-103	30m add-on kit for A-3WS
ASL-2010	13.5-32MHz 8el 18' bm 6.4db LP
MA-5B	20/17/15/12/10m 7.3' boom mini beam

LIGHTNING ARRESTORS

LAC-4N	200w type N gas tube arrestor
LAC-4NH	2kw type N gas tube arrestor
LC-2	Extra 200w cartridge for LAC-4/4N
LC-2KW	Extra 2kw cartridge for LAC-4H/4NH D

DAIWA (DAI)

CN-101	1.8-150 15/150/1.5kw SWR/pwr meter/light
CN-103M	140-525 20/200w SWR/power meter
CN-103N	140-525 20/200w N SWR/pwr meter
CN-801HP	1.8-200 20/200/2kw SWR/PEP pwr
CN-801HP3	1.8-200 30/300/3kw SWR/PEP pwr
CN-801SH	900-2.5GHz 200mw/2/20w N SWR/pwr
CN-801V	140-525 20/200w SWR/power meter
CS-201	2-position 600MHz coax switch
CS-201GII	2-position 2GHz N coax switch
SS-330W	Variable 30A switch ps/fan/meters
SS-505	Variable 50A switch ps/fan/meter/3-outputs

DAVIS (DAV)

6152	Vantage Pro2 wireless weather station
6250	Vantage Vue wireless weather station
0131	Weather forecasting quick reference card
0276	WindScribe electronic wind/temp indicator
0281	Wind Wizard handheld wind indicator ..

DAVIS RF (DRF)

Bury-Flex	RG-8U buriable, PE jacket ...per ft.
Bury-Flex	100 ft. cut
Bury-Flex	500 ft. Roll
CW-14	#14 Copperweld ant wire .100 ft. Roll
CW-14	250 ft. Roll
CW-16	#16 Copperweld ant wire .100 ft. Roll
CW-16	250 ft. Roll
PS-13	#13 Poly-Stealth ant wire .100 ft. Roll
PS-13	250 ft. Roll
PS-18	#18 Poly-Stealth ant wire .100 ft. Roll
PS-18	250 ft. Roll
PS-26	#26 Poly-Stealth ant wire .100 ft. Roll
PS-26	250 ft. Roll
RcH	8-wire rotor cable; 2-16; 6-18 ....per ft.
RcH	100 ft. cut
RcH	500 ft. Roll
RG-8XIIA	RG-8XIIA coax cable .....per ft.
RG-8XIIA	100 ft. cut
RG-8XIIA	1000 ft. Roll
RG-213	RG-213 coax cable .....per ft.
RG-213	100 ft. cut

Davis RF - continued AES Price

RG-213	500 ft. Roll
--------	-------------------

DIAMOND (DIA)

SWR/POWER METERS

SX-20C	HF/6m/2m 30/300w meter
SX-40C	144-470 (220 w/correction) 30/300w
SX-100	1.6-60 MHz 30/300/3kw PEP meter ..
SX-200	1.8-200 MHz 5/20/200w PEP meter ..
SX-240C	1.8-54/140-470 3kw HF/30/300w meter
SX-400	140-525 MHz 5/20/200w PEP meter
SX-600	Dual band 1.8-160/140-525 200w PEP mtr
SX-1100	1.8-160/430-1300MHz 200w PEP mtr

HT & HANDHELD SCANNER ANTENNAS

RH-3	2m/440 1.75" BNC mini HT duck
RH-77CA	2m/440 15" BNC rubber gain ant ..
RH-205	2m 3/4 wave 47.5" BNC telescopic ant
RH-519	2m/440 8" BNC flexible whip
RH-707	2m/440 8 3/4" BNC tilttable whip
RH-789	93-1100MHz adjustable freq BNC ant
RH-951S	2m/440/1.2GHz 14" BNC slim duck
RHF-10	2m/440 2.75" BNC flexible rubber ant
RHF-40	2m/440 15" BNC flexible rubber gain ant
SRH-77CA	2m/440 15" SMA rubber gain ant
SRH-320A	2m/220/440 13.75" SMA flex whip
SRH-519	2m/440 8" SMA flexible whip
SRH-789	93-1100MHz adjustable freq SMA ant
SRH-805	2m/440/1.2GHz 1.75" SMA ant
SRH-815	2m/440/1.2GHz 6" SMA flex whip ..
SRH-940	6m/2m/440 18" SMA flexible whip
SRH-999	6m/2m/440/1.2GHz 20" SMA flex whip
SRHF-10	2m/440 2.75" SMA flexible rubber ant
SRHF-40	2m/440 15" SMA flexible rubber gain ant
SRJ-77CA	2m/440 15" Wouxun rubber gain ant

MONO-BAND MOBILE ANTENNAS

HF-6CL	6m 86.6" mobile antenna
HF-40CL	40m 86.6" mobile antenna
HF-80CL	80m 87.5" mobile antenna
HF-6FX	6m 2.15db 44" mobile antenna
M-285	2m 3.4db 52.4" mobile antenna
M-285SNMO	2m 3.4db 52.4" NMO mobile ant
M-685	6m 2.15db 52.4" mobile antenna
M-685SNMO	6m 2.15db 52.4" NMO mobile ant
NR-22L	2m 6.5db 96.8" mobile antenna
NR-124N	1.2GHz 8.4db 25" N mobile ant
NR-124NMO	1.2GHz 8.4db 25" NMO mob ant
NR-140BNMO	Black 220 4db 37" NMO ant ..

DUAL-BAND MOBILE ANTENNAS

AZ-504FXH	2m/440 0/2.15db 15.5" flex mob ant
AZ-504SP	2m/440 0/2.15db 15.5" mob/spring
AZ-507RSP	2m/440 2.15/4.9db 27.5" mob/spring
CR-270A	2m/440 2.15/3.4db 17.2" mobile ant
MR-73SMA	2m/440 0/3.4db 10w mini-mag SMA
MR-75S	2m/440 0/3.4db 20" 35w mag SMA ant
MR-77	2m/440 2.15/3.4db 20" magnetic ant
MR-77SMA	2m/440 2.15/3.4db 20" mag w/SMA
NR-72BNMO	Black 2m/440 2.15db 14" NMO
NR-73BNMO	Blk 2m/440 2.15/5.5db 34" NMO
NR-770HA	2m/440 3/5.5db 40" mobile ant ..
NR-770HB	Black 2m/440 3/5.5db 40" mobile
NR-770HNMO	2m/440 3/5.5db 40" NMO mobile
NR-770HBNMO	Blk 2m/440 3/5.5db 40" NMO
NR-770HRKS	2m/440 3/5.5db 40" adhesive mt
NR-7900A	2m/440 3/7.6db 57" hi pwr mob ant
SG-7000A	2m/440 2.15/3.8db 19" mobile
SG-7500A	2m/440 3.5/6db 41" mobile ant ...
SG-7500NMO	2m/440 3.5/6db 41" NMO ant ...
SG-7900A	2m/440 5/7.6db 62" mobile ant ...
SG-7900ANMO	2m/440 5/7.6db 62" NMO ant
K-400CNMO	Hatch/trnk mt/coax; SG7900ANMO

TRI-BAND MOBILE ANTENNAS

CR-320A	2m/220/440 2.15/3.8/5.5db 36"
CR-320BNMO	Black 2m/220/440 36" NMO ant
CR-627B	6m/2m/440 2.15/4.5/7.2db 60" ant

Diamond - continued AES Price

CR-627BNMO	6m/2m/440 2.15/4.5/7.2db 60"
HV-7A	10/6/2m/440 54" UHF mount mobile ant
HVC-7	40m loading coil for HV-7A/MV-3A
HVC-14	20m loading coil for HV-7A/MV-3A
HVC-18	17m loading coil for HV-7A/MV-3A
HVC-21	15m loading coil for HV-7A/MV-3A
NR-2000NA	2m/440/1.2.3.15/6.3/9.7db 39" N mob

QUAD-BAND MOBILE ANTENNAS

CR-8900A	10m/6m/2m/440 0/0/2.15/5.5db 50"
D-220	2m/440/900/1.2G 35.5" mobile discone
SD-330	80-10m 200w PEP motorized antenna
SD-330-3/8	80-10m 200w PEP 3/8-24 mot ant
ADHESIVE BACKED MOBILE MOUNT	
HRKS	SO239 mt/13' coax/SMA/PL259 adapter

MAGNET MOUNTS

DPK-4NM-N	Hvy dty mag mt, cbl, N, 45" max
K-702M	Hvy duty mag mt, 6 3/8" dia, 50" max
SPM-35	Hvy duty mag mt, cable, 45" max
SPM-NMO	Hvy dty NMO mag mt, cbl, 45" max

TRUNK LIP MOUNTING KITS

K-400	Hatch/trunk mt; NR/SG antennas
K-400C	Hatch/trunk mt w/coax; UHF mount ..
K-400CNMO	Hatch/trunk mt w/coax; NMO mt
K-400S	Hatch/trunk mt w/coax; UHF mt/SMA
K-400SNMO	Hatch/trunk mt w/coax; NMO/SMA
K-400-3/8C	Trunk mount w/6.5" cable; 3/8-24

C-101-3/8C	Extra cable assembly; K400-3/8C
------------	---------------------------------

K-412C	Light duty hatch/trnk mt w/coax; UHF mt
K-412CNMO	Light duty hatch/trnk mt w/coax; NMO
K-412S	Light duty hatch/trnk mt w/coax; UHF/SMA
K-412SNMO	Lt duty hatch/trnk mt/coax; NMO/SMA
K-600M	Tilt angle SO-239 trunk mt w/cable
K-600S	Tilt angle SO-239 trnk mt w/cable/SMA
K-9000LRM	Motorized luggage rack mount ..
K-9000LRMO	Motor lug rack mt; o/s hardware
K-9000TM	Motorized trunk/hatchback mt

MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S	Lug rack SO-239 mt; new type SUV/SMA
K-515SNMO	Lug rack NMO mt; new type SUV/SMA
K-540	Mirror/luggage rack mt; under 45"
K-540KM	Mirror/luggage rack mt w/coax
K-550*	Luggage mt; new mini vans (use GLP)
K-550KM*	Luggage mt w/SO-239 base/coax
*K-550	series not recommended for Yae ATAS-100/120
K-550L	Oversized luggage rack mount

MOUNTING GROUP HARDWARE

BNCJ-SMAP	Low prof blk BNC-F to SMA-M adapt
C-101	SO-239 mt, 6.5' RG-316 low-loss coax
C-101-3/8C-KIT	Upgrades any K400 to K400-3/8C
C-101-3/8C	Extra cable assembly; K400-3/8C
C-101NMO	NMO mt, 6.5' RG-316 low-loss coax
C-104SMA	4' RG-58 ext cbl; SMA male & SO-239
C-105SMA	5' RG-58 ext cable; C-101/SMA male
C-110	10' ext cable; C-101/K-601/K-400-3/8C
C-110BNC	10' extension cable to BNC male
C-110SMA	10' RG-58 ext cable; C-101/SMA male
C-211	SO-239 mt, 6.5' coax, 10' coax extend
C-213SMA	SO-239 mt, 13.5' RG-316 cbl/SMA male
C-213SNMO	NMO mt, 13.5' RG-316 low-loss coax
CRM	Stainless steel right angle bracket w/U-bolts
D38-24	UHF to 3/8-24 adapter

MONO-BAND BASE STATION ANTENNAS

A-144S5	2m 5 el 37.5" boom 9db beam
KB-144	Side mounting bracket/hardware ..
SB-144	Stacking boom
A-430S10	430 10 el 43" boom 13db beam
KB-430	Side mounting bracket/hardware ..
SB-430	Stacking boom
A-430S15	430 15 el 89" boom 14.8db beam ..
SB-430	Stacking boom
A-502HB	6m 2 el 2.6' boom 6.3db beam
CP-22E	2m 6.5db 9' base antenna

Diamond - continued

CP-62	6m 5.5db 22' base antenna
F-22A	2m 6.7db 10.5' base antenna
F-23H	2m 7.8db 15' base antenna
F-718A	440 11.5db 15' type N base antenna
F-1230All	1.2GHz 13.1db 12' N base ant
2400-Y12	2.4GHz 12db 8el 15"bm 25w N beam Δ

DUAL-BAND BASE STATION ANTENNAS

CP-610	6/10m 5.5/3.4db 22' base antenna
X-30A	2m/440 3/5.5db 4.5' base antenna
X-50A	2m/440 4.5/7.2db 5.6' base antenna ..
X-50NA	2m/440 4.5/7.2db 5.6' base N ant ...
X-200A	2m/440 6/8db 8.3' base antenna
X-300A	2m/440 6.5/9db 10' base antenna ...
X-300NA	2m/440 6.5/9db 10' base N ant
X-510HDM	2m/440 8.3/11.7db 17.2' hi pwr ant ..
X-510HDN	2m/440 8.3/11.7db 17.2' hi pwr N ant ..
X-510NJ	143.5-146.5/428-442 8.3/11.7db 17.2' N

TRI-BAND BASE STATION ANTENNAS

D-130J	50-1300 MHz 200w discone antenna
D-130NJ	50-1300 MHz 200w N discone ant ..
D-3000N	25-3000 Mhz wideband N discone .
V-2000A	52-54MHz/2m/440 2.1/6.2/8.4db 8.3'
X-3200A	2m/220/440 6/7.8/8db 10' base
X-6000A	2m/440/1.2 6.5/9/10db 10.5' N

HF BASE STATION ANTENNAS

BB-7V	2-30MHz 22' no radial vertical (use tuner)
CP-5H	40/20/15/10/6m 11.8' trap vert/radials
CP-6AR	75/40/20/15/10/6m 15.1' trap vert/radials
CP-725H	40/15/10/6m 11.67' trap vert/radials
W-735	80/40m 85' dipole antenna
W-8010	80/40/20/15/10m 63' dipole antenna

DUPLEXERS & TRIPLEXERS

MX-37	1.6-470/900-1300 N/N duplexer w/cable
MX-62M	HF-6m & 2m/440, 12" cables dplx .
MX-72A	HF-2m/440 dplx/440 N female, 12" cbls
MX-72D	HF-2m/440 400/150/100w duplexer
MX-72H	HF-2m/440 duplexer w/12" cables ..
MX-72N	HF-2m/440 dplx, 440 type N male, 12" cbls
MX-214	2m/220 duplexer
MX-324	2m/220/440 triplexer
MX-610	HF/6m-UHF duplexer
MX-2000	HF-6m/2m/440 400/400/250w triplexer
MX-2000N	HF-6m/2m/440 400/400/250w N triplexer
MX-3000	HF-2m/440/1.2 400/200/100w triplexer
MX-3000N	HF-2m/440/1.2 400/200/100w N triplexer

ACCESSORIES

CA-23RP	2500MHz 200w N-F/N-M lightning protect D
CA-23RS	2500MHz 200w N lightning protector D
CA-23RW	2500MHz 200w N waterproof protector D
CX-210A	1.5kw DC-1GHz 2-pos coax switch .
CX-210N	1.5kw DC-3GHz 2-pos N coax switch
CX-310A	HD 3-pos DC-800MHz coax switch .
DL-30A	15/100w peak 0-500MHz dummy load
DL-30N	15/100w peak 0-1500MHz N dummy load
GZV-4000	Variable 40A switching ps/meter/spkr
GZV-6000	Variable 60A switching ps/meter/spkr
MGC-50	Window feedthru assembly
PC-3	10' DC cable w/T-connector for mob rig
SP-1000	1GHz 400w PEP lightning protector
SP-1000PW	1GHz 400w PEP male/female protector
SP-3000	3GHz 200w PEP N lightning protector
SP-3000P	3GHz 200w PEP N male/female protector
SP-3000W	3GHz 200w PEP N waterproof protector

ECG (ECG)

U-105	Light duty antenna rotor/3-wire
U-106	Light duty ant rotor/presets/IR rem/3-wire
TB-105	Thrust bearing for U-105/U-106 ...
WIC-1	Wireless inspection camera
WIC-4	3.28' extension shaft

EASY-UP (UPS OK) (EAS)

EZ 5-16	5' 16 ga steel mast .....pick-up only
---------	---------------------------------------

AES Price

Easy-Up - continued

EZ 29-24S	Stainless double strap chimney mt
EZ 30-24	Dlx wall mt w/extra 3rd leg support
EZ 31	Heavy duty adjustable eave mount
EZ 48-3ABX	3' boxed tripod w/pitch pad kit .
EZ 48-5ABX	5' boxed tripod w/pitch pad kit .
EZ 70	Vent mt for 2.5"-3.75" vent; not for PVC ..

ELK Antennas (ELK)

2M/440-L5	2m/440 5el quick assembly LP beam
220-L6	220 6el quick assembly LP beam
440-L8	440 8el quick assembly LP beam
Elk Bag	Canvas carrying bag for Elk antenna ...

GAP VERTICALS (GAP)

DX-VIII	Challenger 75*/40/20/15/12/10/6/2m 31.5'
	*80m CW w/capacitor exchange from GAP

Challenger Counterpoise

(SYN) 100' 3/8" black double braided rope ..

DX-VI Eagle 40/20/17/15/12/10m 21' rigid ..

DX-IV Voyager 160/80/40/20m 45'; use 350' guy Δ

Voyager Counterpoise

(SYN) 350' 3/8" black double braided rope ..

Titan DX 75*/40/30/20/17/15/12/10m, 25' ..

*80m CW w/capacitor exchange from GAP

20M MONOGAP 16' 20m vert/radials/ground mt

40M MONOGAP 31' 40m vert/radials/ground mt

100' Guy Kit with clamp

200' Guy Kit with clamp

Ground Mount Quick tilt mt for vertical ant .

Ladder Mount Quick tilt mt; campers/RVs

ANEM Adjustable Hear It DSP in line noise elim

Hear It DSP noise eliminating speaker

Hear It DSPKR 10w RMS noise canx DSP spkr

In Line Module Hear It DSP in line noise elim

Noise Away Amplified DSP noise canx spkr ..

GB (GBX)

OX-400 4 oz anti-corrosion compound

GRE (GRE)

PSR-100 Standard handheld scanner

PSR-310 Triple trunking handheld scanner ..

PSR-500 Digital triple trunking handheld scanner

100-014 Cig adapter; PSR-100/310/500 ..

PSR-700 EZ Scan-SD handheld scanner

PSR-800 Digital P25 EZ Scan-SD HH scanner

100-001 800MHz duck; 300/310/500/700/800

PSR-200U Standard mobile/desktop scanner

PSR-410 Triple trunking mobile/desktop scanner

PSR-600 Digital triple trunking mob/desktop scanner

GLEN MARTIN (GME)

ROOF-TOP TOWERS

RT-424	4.5' roof-top tower, anodized aluminum
RT-832	8' roof-top tower, anodized aluminum
RT-936	9' roof-top tower, anodized aluminum
RT-1832	17.5' roof-top tower, anodized aluminum
RT-2632	26' roof-top tower, anodized aluminum
EL-3744	Concrete L-bolts, set of 8
LB-3755	Lag bolts, set of 8 (3/4 x 5")
MC-10	Mast clamp; aluminum, 2 required
RA-6024	24" side arm for roof towers
RA-6048	48" side arm for roof towers
RT-5505	Rubber mat, 18" x 48"
RT-8900	Non-penetrating roof mount base
TB-25	Thrust bearing

All GLEN MARTIN products are drop-shipped (shipped direct to you from the GLEN MARTIN factory). We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. You can obtain shipping charges from any AES salesperson by phone or email.

AES Price

Green Light Labs (GLL)

GPS-710	Plug and play GPS for TMD-710A ...
SEP-710-24	24" separation cable kit

GRUNDIG/ETON (GRU)

FR-160	AM/FM/WX/flashlight/crank/cell cgr Δ
FR-600	AM/FM/SW/SAME WX/light/solar/cell cgr
GS-450DL	Black portable AM/FM/SW Rcvr w/ps
M-400	Mini AM/FM/SW receiver
Satellit 750	AM/FM/SW/aircraft receiver

GuyTie (GUY)

2104211	1"OD mast guyline attach point
2104213	1.25"OD mast guyline attach point
2104215	1.5"OD mast guyline attach point .

HARGER (HRG)

GBIS18114AE	3/8" copper entrance ground bar kit
GBIS18148AE	3/8" copper station ground bar kit
GEL3AE	Package of 5 HD grounding lugs
GP1868.78AE	3/8" copper single pt gnd panel kit
GBX976AE	NEMA-4X weatherproof enclosure

HEIL (HEI)

BM-10-iC	Boom mic/headset/adaptor; lcom D
PMD-6	Pro Micro Dual boomset with HC-6 ...
PMS-6	Pro Micro Single boomset with HC-6 .
PRO-SET-6	Deluxe boom mic/headset (HC-6)
PRO-SET-iC	Dlx boom mic/headset/adaptor; lcom
PRO-SET-PLUS-iC	Dlx bm mic/hdset (HC4); lcom D
PSE-6	Pro Set Elite boom mic/headset (HC-6)
PSE-iC	Pro Set Elite boom mic/headset; lcom
AD-1-I	Pro-Set 8-pin adaptor cord for lcom
AD-1-IC	Pro-Set 8-pin adaptor cord; lcom .
AD-1-ICM	ProSet modular adaptor cord; lco
AD-1-IM	Pro-Set modular adaptor cord; lco
AD-1-K	Pro-Set 8-pin adapt cord; Kenwood
AD-1-K-M	Pro-Set modular adaptor cord; Ken
AD-1-T	Pro-Set 4-pin adapt cord; Ten-Tec .
AD-1-Y	Pro-Set 8-pin adaptor cord; Yaesu
AD-1-Y-M	Pro-Set modular adapt cord; Yae
HSTA-IC8	Traveler adapter for lcom 8-pin
HSTA-IM	Traveler adapter; lcom modular ...Δ
HSTA-K8	Traveler adapter for Kenwood 8-pin
HSTA-KM	Traveler adapter; Kenwood modular ...Δ
HSTA-PC	Traveler adapter for computer
HSTA-YM	Traveler adapter; Yaesu 8-pin modular Δ
HSTA-YM6	Traveler adapter; Yae 6-pin modular ... Δ
HTA-IHT	Traveler adapter for lcom HT
HTA-KHT	Traveler adapter for Kenwood HT . Δ
HTA-VX	Traveler adapter; Yaesu VX HT (not VX7) . Δ

GM-4	Goldline dual element studio mic/HC-4
GM-Elite	Goldline dual el studio mic/HC-5.1
HM-12	Single element mic/Genesis element .
ICM	Pre-PRO lcom electret mic w/cable
CC-1-C	3/8" plug cable for Collins/Drake Δ
CC-1-I	8-pin cable for lcom
CC-1-I-M	Modular cable for lcom
CC-1-K	8-pin cable for Kenwood
CC-1-K-M	Modular cable for Kenwood
CC-1-T	4-pin cable for Ten-Tec
CC-1-Y	8-pin cable for Yaesu
CC-1-Y-M	Modular cable for Yaesu
HB-1	Articulated microphone boom
PL-2T	Topless proline boom
DT-1	Desk top flush mount; HB-1/PL-2T
FL-2	Flange mount; HB-1/PL-2T
RS-1	Riser 12" flange mt; HB-1/PL-2T ..
SB-2	Small adjustable mic boom
WM-1	Vertical wall mt for Heil mic booms ..
HM-4	Handi-Mic hand microphone w/HC-4 Δ
HM-iC	Handi-Mic hand mic/electret element; lco
HM-PRO	Handi-Mic hand mic/broadcast element
CH-1-I8	8-pin coiled cable for lcom

Heil - continued

CH-1-IM	Modular coiled cable for Icom
CH-1-K8	8-pin coiled cable for Kenwood
CH-1-KM	Modular coiled cable for Kenwood
CH-1-YM	Modular coiled cable for Yaesu
PR-20-UT	Cardioid dynamic studio mic
CC-1-XLR-I	3-pin XLR to 8-pin Icom cable
CC-1-XLR-K	3-pin XLR to 8-pin Kenwood cable
CC-1-XLR-Y	3-pin XLR to 8-pin Yaesu cable
CC-1-XLR-Y-BAL*	3p XLR- 8p balanced Yae cbl
*CC-1-XLR-Y-BAL for FT950/2000/FTDX5000/9000	
PR-40	Broadcast & recording studio microphone
CC-1-XLR-I	3-pin XLR to 8-pin Icom cable
CC-1-XLR-K	3-pin XLR to 8-pin Kenwood cable
CC-1-XLR-Y	3-pin XLR to 8-pin Yaesu cable
CC-1-XLR-Y-BAL*	3p XLR- 8p balanced Yae cbl
WSPR-40	Windscreen
*CC-1-XLR-Y-BAL for FT950/2000/FTDX5000/9000	
PR-781	Dynamic cardioid studio mic
CC-1-XLR-I	3-pin XLR to 8-pin Icom cable
CC-1-XLR-K	3-pin XLR to 8-pin Kenwood cable
CC-1-XLR-Y	3-pin XLR to 8-pin Yaesu cable
CC-1-XLR-Y-BAL*	3p XLR- 8p balanced Yae cbl
WSPR-40	Windscreen
*CC-1-XLR-Y-BAL for FT950/2000/FTDX5000/9000	
PRO-SET-3	Deluxe headphones
AD-100	Mic/boomset adapt; FT-100/AD-1Y/CC-1Y
ADMY-817*	8pmale - 8pmodular adapt;817/897
*PTT/mic only, no other functions	
Boom Clip	for BM-series
CB-1-PTT	Classic base w/soft PTT switch
Ear Pads	for Pro-Set series
FS-2	Dual switch foot switch
FS-3	Single channel foot switch
HD-AT	6db headph attenuator, ¼"m-¼" adapt
HS-2	Magnum ergonomic hand switch
HW-20	20' Heilwire
SM-1	Shock mount for 1" stem diameter mic
SM-2B	Black shock mt; 2" stem diameter mic
TM-1	Tri-mount microphone adapter
XT-1	Audio matching xfmr; lo-Z mic/tube Xcvr

House of Deals (HOU)

FL-3232T 32 LED/3 D flashlight

HUSTLER (HUS)

RM-80	80m CW 400w PEP resonator
RM-75	75m phone 400w PEP resonator
RM-60	60m phone 400w PEP resonator
RM-40	40m 400w PEP resonator
RM-30	30m 400w PEP resonator
RM-20	20m 400w PEP resonator
RM-17	17m 400w PEP resonator
RM-15	15m 400w PEP resonator
RM-12	12m 400w PEP resonator
RM-11	CB 400w PEP resonator
RM-10	10m 400w PEP resonator
RM-80S	80m CW 2kw PEP resonator
RM-75S	75m phone 2kw PEP resonator
RM-40S	40m 2kw PEP resonator
RM-20S	20m 2kw PEP resonator
RM-15S	15m 2kw PEP resonator
RM-11S	CB 2kw PEP resonator
RM-10S	10m 2kw PEP resonator
MO-1	54" mast for fender or deck mount
MO-2	54" mast for bumper mount
MO-3	54" no break-over mast
MO-4	22" mast for special applications
VP-1	Tri-band adapter
RSS-2	Resonator spring
QD-2	Stainless quick disconnect
L-14-144	12' RG-58, PL-259 to lugs
L-14-240	20' RG-58, PL-259 to lugs
STAINLESS 2" MOBILE BALL MOUNTS	
SSM-1	Ball & spring, cadmium hardware

AES Price

Hustler - continued

SSM-2	Ball, cadmium hardware
SSM-3	Stainless steel spring
1-1/2" MOBILE BALL MOUNTS	
C-32	Chrome plated ball
C-30	Chrome plated spring
C-29	Stainless steel spring
BM-1	Single strap bumper mt w/C-32
3/8-24 THREAD MOBILE MOUNTS	
HLM	Trunk lip mount w/swivel
HOT	Hustloff trunk lip mt w/swivel
MBM	Super magnet mount w/16' coax
RVM	Recreational vehicle mount
TLM	Trunk lip mount
HF ANTENNAS	
4-BTV	40/20/15/10m 21' trap vertical
5-BTV	80/40/20/15/10m 25' trap vertical
30-MTK	30m trap kit for 4-BTV/5-BTV
6-BTV	80/40/30/20/15/10m 24' trap vert
VHF/UHF BASE STATION ANTENNAS	
G3-144	2m 3db 7.5' vertical antenna
G6-144B	2m 6db 10' vertical antenna
G6-270R	2m/440 6db 7.5' base station ant
G7-144	2m 7db 15' vertical antenna
G7-220	220 MHz 7db 10' vertical antenna
G6-440	440 MHz 6db 7' vertical antenna
VHF/UHF MOBILE ANTENNAS	
BBG-144	2m 3.4db NMO coil/whip only
BBGT-144	2m 3.4db NMO trunk lip mt ant
BBG-440-5	440 5db NMO coil/whip only
G6-144	2m ¾-24 ant, 7' high, 5.2db
CGT-144	2m trunk mt ant, 7' high, 5.2db
CG-220	220 MHz ¾-24 ant, 5.2db
CGT-220	220 trunk mt ant, 5.2db
LMB-144	2m 3.4db black NMO coil/whip only
LMC-144	2m 3.4db NMO coil/whip only
LMC-270	2m/440 2.4/4db NMO coil/whip only
LMG-144	2m 3.4db NMO pushpin coil/whip only
MKR-2	Radial kit for CG/RX/SF-antennas
MX-2	2m 3.4db black & chrome NMO mag ant
MX-2B	2m 3.4db all black NMO mag mt ant
MX-220	220 3.4db blk & chrome NMO mag ant
MX-270	2m/440 2.4/4db chrome NMO mag mt ant
RX-2	2m 3.4db magnetic mount ant
SF-2	2m ¾-24 ant, 4' high, 3.4 db
THF	140-500 MHz ¼ wave trunk mount ant
UGM	140-500 MHz ¼ wave BNC mag mt ant
CB & MONITOR ANTENNAS	
1C-11	White trunk mount CB antenna
1C-11B	Black trunk mt CB antenna
1C-56	102" stainless whip .....pick-up only
1C-100	White magnetic mount CB antenna
1C-100B	Black magnetic mt CB antenna
FG-27S	48" CB whip
HQ-27	Power Packer ¾-24 CB whip
HQ-27M	Power Packer trunk mt CB antenna
HQD	Dual fg mirror mount CB antenna
HQT	Single fg mirror mount CB antenna
RQM	Magnetic mount CB antenna
RTG-27L	25" CB antenna w/rain gutter mt
RTM	25" magnetic mount CB antenna
RTS-27L	25" CB antenna w/roof mount
SCB/BLK	46" black CB whip
SCB-S/BLK	35" black CB whip
DCL-B	Discone monitor ant/50' coax/BNC plug
DCX	Discone monitor ant; 40-950 MHz
MOR-B	Roof/deck mt 4-band BNC monitor ant
MOT-B	Trunk lip mt 4-band BNC monitor ant
MRM-B	Magnet mt 4-band BNC monitor ant
HY-GAIN (HYG)	
HF BEAM ANTENNAS	
LJ-103BA	3el 7.9db 8' boom 10m beam
LJ-105CA	5el 10.8db 24' boom 10m beam

AES Price

Hy-Gain - continued

AES Price

LJ-153BA	3el 7.9db 12' boom 15m beam
LJ-204BA	4el 8.2db 26' boom 20 or 17m beam
TH-3JRS	3el 600w PEP 20/15/10m beam
TH-3MK4	3el 8db 14' boom 20/15/10m beam
TH-5MK2	5el 8.3db 19' boom 20/15/10m beam
TH-7DX	7el 8.77db 24' boom 20/15/10m beam

BN-86 3-30MHz balun for HF beam

MULTI-BAND HF VERTICAL ANTENNAS

AV-14AVQ	40/20/15/10m 18' vertical ant
AV-18AVQ II	80/40/20/15/10m vertical ant
AV-18HT	HyTower 80/40/20/15/10m 53' vert T*

*AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipsments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.

AV-18HT-JR	HyTower Jr 80/40/20/15/10m 39' vert
AV-620	20/17/15/12/10/6m 22.5' vertical
AV-640	40/30/20/17/15/12/10/6m 25.5' vert
DX-88	80/40/30/20/17/15/12/10m 25' vert

VHF/UHF ANTENNAS

DB-218SAT	VHF/UHF Oscar Link system
VB-25FM	5el 11.2db 75" boom 2m beam
VB-64DX	4el 10.4db 12' boom 6m beam

ANTENNA ROTORS

AR-40	3 sq ft antenna rotor/5-wire
CD-45-II	8.5 sq ft antenna rotor/8-wire
HAM-IV	15 sq ft antenna rotor/8-wire
HAM-V	Digital 15 sq ft antenna rotor/8-wire
HDR-300A	Hvy duty dig 25 sq ft rotor/8-wire
T-2X	Tailtwister 20 sq ft antenna rotor/8-wire
T-2XD	Tailtwister dig 20 sq ft ant rotor/8-wire

OPTIONAL ACCESSORIES FOR ROTORS

DCU-1	Dig rotor control; CD-45/HAM-IV/T-2X
MSHD	Lwr mast support; HAM-IV/V/T-2X/XD
MSLD	Lower mast support; CD-45-II/AR-40
TSP-1	Tower spacer plate

See Davis RF & JSC for rotor cable

ICOM (ICO)

IC-7800	200w HF+6m Xcvr/tmr/ps special order
(BET) I-Mate	Message accessory
CT-17	CI-V level converter
HM-36	Scanning hand mic
RS-BA1	IP remote control software
SM-30	Electret desk microphone
SM-50	Dynamic desk microphone
SP-20	Speaker w/audio filters
SP-23	Speaker w/audio filters
SP-33	Smaller external speaker
IC-7700	200w single RX HF/6m Xcvr/ps
(BET) I-Mate	Message accessory
CT-17	CI-V level converter
HM-36	Scanning hand mic
RS-BA1	IP remote control software
SM-30	Electret desk microphone
SM-50	Dynamic desk microphone
SP-20	Speaker w/audio filters
SP-23	Speaker w/audio filters
SP-33	Smaller external speaker
IC-7600	100w HF/6m transceiver
(BET) I-Mate	Message accessory
PS-126	25A 4-pin switching power supply
AH-4	80-6m 120w auto wire ant tuner
AH-2B	Whip w/mt; 40-6m use tuner
CT-17	CI-V level converter
RS-BA1	IP remote control software
SM-30	Electret desk microphone
SM-50	Dynamic desk microphone

Icom - continued

AES Price

SP-20	Speaker w/audio filters
SP-23	Speaker w/audio filters
SP-33	Smaller external speaker
IC-7410	100w HF/6m transceiver/tuner
(BET) I-Mate	Message accessory
PS-126	25A 4-pin switching power supply
AH-4	80-6m 120w auto wire ant tuner
AH-2B	Whip w/mt; 40-6m use tuner ....Δ
CT-17	CI-V level converter
FL-430	6 KHz 1st IF roofing filter
FL-431	3 KHz 1st IF roofing filter
OPC-599	7+8-pin to 13-pin adapter
OPC-1457	Extra DC cable
RS-BA1	IP remote control software
SM-30	Electret desk microphone
SM-50	Dynamic desk microphone
SP-20	Speaker w/audio filters
SP-21	Speaker
SP-23	Speaker w/audio filters
SP-33	Smaller external speaker
IC-9100	HF/6m/2m/430 transceiver/tuner ..
PS-126	25A 4-pin switching power supply
AG-25	2m mast mounted GaSfET preamp ..
AG-35	430 MHz mast mounted preamp
AH-4	80-6m 120w auto wire ant tuner
AH-2B	Whip w/mt; 40-6m use tuner ....Δ
CS-9100	Programming software
OPC-1529R	Data communications cable
CT-17	CI-V level converter
FL-430	6 KHz 1st IF roofing filter
FL-431	3 KHz 1st IF roofing filter
OPC-599	7+8-pin to 13-pin adapter
OPC-1457	Extra DC cable
RS-BA1	IP remote control software
SM-30	Electret desk microphone
SM-50	Dynamic desk microphone
SP-20	Speaker w/audio filters
SP-21	Speaker
SP-23	Speaker w/audio filters
SP-33	Smaller external speaker
UT-121	Digital board for D-Star
UX-9100	1.2GHz unit for IC-9100
IC-718	HF Xcvr/SW Rcvr/mic w/DSP
(BET) 706 Tune Control	for IC-718
(W4R) OBF-703/718-DIY	CW&SB Collins filts
PS-125	25A switching power supply
AH-4	80-6m 120w auto wire ant tuner
AH-2B	Whip w/mt; 40-6m use tuner ....Δ
AT-180	Auto coax antenna tuner; HF+6m ..
CR-338	High stability crystal unit
CT-17	CI-V level converter
FL-52A	500 Hz 455 KHz IF CW filter
FL-53A	250 Hz 455 KHz IF CW filter
FL-222	1.9 KHz 455 KHz IF SSB filter
FL-257	3.3 KHz 455 KHz IF SSB filter
Suggest dealer	installation of filters in IC-718 ..
MB-5	Mobile mount
MB-23	Side mount carrying handle
OPC-025D	Extra DC cable
OPC-599	7+8-pin to 13-pin adapter
SM-30	Electret desk microphone
SM-50	Dynamic desk microphone
SP-5	Mobile speaker
SP-20	Speaker w/audio filters
SP-23	Speaker w/audio filters
SP-33	Smaller external speaker
UT-102	Voice synthesizer
IC-7000	Deluxe mini HF/6m/2m/440 Xcvr ...
(BET) 7000 Screwdriver Control*	for IC-7000
*Requires 7000 Tune Control	also
(BET) 7000 Tune Control	for IC-7000
PS-126	25A 4-pin switching power supply ..
AG-25	2m mast mounted GaSfET preamp ..
AG-35	430 MHz mast mounted preamp

Icom - continued

AES Price

AH-4	80-6m 120w auto wire ant tuner
AH-2B	Whip w/mt; 40-6m use tuner ....Δ
AT-180	Auto coax antenna tuner; HF+6m ..
CT-17	CI-V level converter
HM-154T	TTP microphone
MB-62	Mounting bracket for main unit
MB-105	Remote head bracket
MB-106	Carry handle
MB-120	Mounting base (MB-105 required) ..
OPC-599	7+8-pin to 13-pin adapter
OPC-742	13-pin cable
OPC-1443	11.5' remote cable
OPC-1444	16' remote cable
OPC-1457	Extra DC cable
RMK-7000	Package; MB-62, MB-105, OPC-1443
SM-30	Electret desk microphone
SM-50	Dynamic desk microphone
OPC-589	8p - jack adapt; SM6/8/20/30/50
SP-10	Slim-line external speaker
SP-33	Smaller external speaker
IC-7200	HF/6m rugged Xcvr
PS-126	25A 4-pin switching power supply ..
AH-4	80-6m 120w auto wire ant tuner
AH-2B	Whip w/mt; 40-6m use tuner ....Δ
AT-180	Auto coax antenna tuner; HF+6m ..
CT-17	CI-V level converter
MB-116	Front handles
MB-117	Carrying handle
MB-118	Mobile mounting bracket
OPC-599	7+8-pin to 13-pin adapter
OPC-1457	Extra DC cable
RS-BA1	IP remote control software
SM-30	Electret desk microphone
SM-50	Dynamic desk microphone
SP-10	Slim-line external speaker
SP-20	Speaker w/audio filters
SP-23	Speaker w/audio filters
SP-33	Smaller external speaker
AH-710	1.9-30 MHz 80' folded dipole/98' coax
MB-63	Mounting bkt; 703/706 control panel Δ
MB-72	Carrying handle; 703/706 Mk II-G Δ
OPC-581	11.5' separation cable; 703/706 Δ
OPC-587	16' separation cable; 703/706 Δ
OPC-1229	Extra DC cable; IC-703/Plus ....Δ
PW-1	160-15+6m linear amplifier/ps/tuner
RECEIVERS	
R-6-16	Handheld receiver/cell blkd
R-6-20*	Rcvr/restricted sales! special order
AD-92SMA	SMA- BNC adapter
CP-18A	Cig lighter cable
CS-R6	Cloning software
OPC-474	Cloning cable (R-6 to R-6)
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
CT-17	CI-V level converter
HP-4	Lightweight headphones
LC-146A	Carrying case
SP-13	Earphone
RX-7-05	Handheld receiver/cell blkd
AD-92SMA	SMA- BNC adapter
BP-244	3.7v 1100mah lith ion battery ....Δ
BP-262	Battery case for 3 AA's
CP-18A	Cig lighter cable
CS-RX7	Cloning software/USB cable; RX-7 Δ
CT-17	CI-V level converter
HP-4	Lightweight headphones
LC-170	Carrying case
OPC-474	Cloning cable (RX-7 to RX-7)
OPC-478U/UC	PC USB cable
SP-13	Earphone
R-20-06	150KHz-3.3GHz handheld Rcvr/cell blkd
R-20-11*	Rcvr/restricted sales! special order
BC-156-02	Desktop charger
BP-206	Extra 3.7v 1650mah lith ion batt ..

Icom - continued

AES Price

CP-18A	Cig lighter cable
CS-R20	Cloning software/USB cable; R-20
CT-17	CI-V level converter
LC-158	Carrying case
MB-86	Swivel belt clip
SP-13	Earphone
PCR-1500-25	PC Rcvr/cell blkd .special order
PCR-1500-30*	Rcvr/restricted sales! special order
AH-8000	100-3300MHz discone ant/49'cbl/N
BON CS-4.5	Bonito software
CP-12L	Right angle cig cable w/filter
OPC-254L	Right angle mini DC pwr cable ..
OPC-441	16.4' speaker extension cable
SP-10	Slim-line external speaker
UT-106	Plug-in DSP unit
R-2500-05	Rcvr/rem head/cell blkd special order
R-2500-10*	Rcvr/restricted sales! special order
AH-8000	100-3300MHz discone ant/49'cbl/N
BON CS-4.5	Bonito software
CP-12L	Right angle cig cable w/filter
OPC-254L	Right angle mini DC pwr cable ..
OPC-441	16.4' speaker extension cable
SP-10	Slim-line external speaker
UT-106	Plug-in DSP unit
UT-108	DTMF decoder unit
UT-118	Digital board
UT-122	P-25 digital board
CS-R3	Win programming software; R-3 ....D
CS-R5	Win programming software; R-5 ....Δ
R-75	.03-60 MHz shortwave Rcvr/DSP
CR-282	High stability crystal unit
CT-17	CI-V level converter
FL-52A	500 Hz 455 KHz IF CW filter
FL-53A	250 Hz 455 KHz IF CW filter
FL-100	500 Hz 9 MHz IF CW filter
FL-101	250 Hz 9 MHz IF CW filter
FL-103	2.8 KHz 9 MHz IF SSB filter
FL-222	1.9 KHz 455 KHz IF SSB filter
FL-223	1.9 KHz 9 MHz IF SSB filter
FL-232	350 Hz 9 MHz IF CW/RTTY filter
FL-257	3.3 KHz 455 KHz IF SSB filter
MB-5	Mobile mount
MB-23	Side mount carrying handle
OPC-478	PC RS-232C cable
SP-23	Speaker w/audio filters
UT-102	Voice synthesizer
R-8500*	Rcvr/restricted sales! .special order
AH-8000	100-3300MHz discone ant/49'cbl/N
CR-293	High stability xtal unit
FL-52A	500 Hz CW filter
MB-23	Side mount carrying handle
SP-23	Speaker w/audio filters
UT-102	Voice synthesizer
R-9500-02	Deluxe Receiver .....special order
R-9500-06*	Rcvr/restricted sales! special order
AH-8000	100-3300MHz discone ant/49'cbl/N
CT-17	CI-V level converter
SP-20	Speaker w/audio filters
UT-122	P-25 digital board

*United States government agencies may purchase unblocked models of R-6/R-20/R-2500/R-8500/R-9500 for official government use only. State and local governments may purchase only unblocked R-2500/R-9500. Mail or FAX purchase order to AES. Exports: inquire.

CS-D800	Cloning software; ID-800
HM-133S	Extra TTP mic; IC-2100H
MB-84	Remote controller bracket; IC-2720H Δ
OPC-1384	RS-232C data cable; ID-800
IC-2200H	65w 2m FM Xcvr w/WX alert ....D
CS-2200H	Windows cloning software
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
HM-133V	Extra remote control TTP mic

Icom - continued**AES Price**

HM-154	Optional non-TTP hand mic
MB-28H	Mobile mounting bracket
OPC-347	23' DC cable
OPC-440	16.4' mic extension cable
OPC-441	16.4' speaker extension cable
OPC-474	Radio to radio cloning cable
OPC-589	8-pin mic jack adapter cable
OPC-1132	9.8' DC cable
SP-10	Slim-line external speaker
UT-108	DTMF decoder unit
UT-118	Digital board
IC-2300H	65w 2m FM Xcvr w/WX alert
CS-2300H	Windows cloning software
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
HM-133V	Extra remote control TTP mic
HM-154	Optional non-TTP hand mic
MB-28H	Mobile mounting bracket
OPC-347	23' DC cable
OPC-440	16.4' mic extension cable
OPC-441	16.4' speaker extension cable
OPC-474	Radio to radio cloning cable
OPC-589	8-pin mic jack adapter cable
OPC-1132	9.8' DC cable
SP-10	Slim-line external speaker
IC-V8000	75w 2m FM Xcvr w/WX alert/scan
CS-V8000	Windows cloning software
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
HM-133V	Extra remote control TTP mic
HM-154	Optional non-TTP hand mic
OPC-347	23' DC cable
OPC-440	16.4' mic extension cable
OPC-441	16.4' speaker extension cable
OPC-474	Radio to radio cloning cable
OPC-589	8-pin mic jack adapter cable
OPC-1132	9.8' DC cable
SP-10	Slim-line external speaker
UT-108	DTMF decoder unit
V8000-MMB	Extra mobile bracket
IC-208H	55w 2m/50w 440 FM Xcvr/WX alert D
CS-208	Win cloning software
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
HM-154	Optional non-TTP hand mic
MB-28H	Mobile mounting bracket
MB-58	Remote controller bracket
MB-120	Mounting base platform; MB-58
OPC-347	23' DC cable
OPC-440	16.4' mic extension cable
OPC-441	16.4' speaker extension cable
OPC-474	Radio to radio cloning cable
OPC-589	8-pin mic jack adapter cable
OPC-601R	23' separation cable
OPC-1132	9.8' DC cable
SP-10	Slim-line external speaker
IC-2820H	50w 2m/50w 440 FM Xcvr
CS-2820	Win cloning software
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
HM-154	Optional non-TTP hand mic
MB-120	Mounting base platform
OPC-347	23' DC cable
OPC-440	16.4' mic extension cable
OPC-441	16.4' speaker extension cable
OPC-474	Radio to radio cloning cable
OPC-589	8-pin mic jack adapter cable
OPC-1132	9.8' DC cable
OPC-1529R	Data communications cable
SP-10	Slim-line external speaker
UT-123	DV mode & GPS receiver
V8000-MMB	Extra mobile bracket
ID-1	10w 1.2GHz FM/128k analog/digital Xcvr
HM-154	Optional non-TTP hand mic

Icom - continued**AES Price**

MB-28H	Mobile mounting bracket
OPC-347	23' DC cable
OPC-440	16.4' mic extension cable
OPC-441	16.4' speaker extension cable
OPC-1132	9.8' DC cable
SP-10	Slim-line external speaker
ID-880H	50w 2m/440 D-Star ready Xcvr
HM-154	Optional non-TTP hand mic
MB-120	Mounting base platform
OPC-347	23' DC cable
OPC-440	16.4' mic extension cable
OPC-441	16.4' speaker extension cable
OPC-474	Cloning cable (radio to radio)
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
OPC-589	8-pin mic jack adapter cable
OPC-1132	9.8' DC cable
OPC-1529R	Data communications cable
SP-10	Slim-line external speaker
IC-80AD	5w 2m/440 D-Star ready HT
AD-92SMA	SMA- BNC adapter
BC-139	Desk rapid charger
BP-216	Battery case for 2 AA
BP-217	7.4v 1300mah lith ion battery
CP-19R	Cig lighter cable w/filter
HM-75A	Remote control spkr/mic
HM-131	Spkr/mic/earph jack/revolving clip
HM-189GPS	Spkr/mic w/GPS
HS-85	Headset w/VOX
LC-163	Carrying case
MB-86	Swivel belt clip
OPC-254L	Right angle mini DC pwr cable
OPC-474	Cloning cable (radio to radio)
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
OPC-1529R	Data communications cable
SP-13	Earphone
IC-91A	5w 2m/440 D-Star upgradeable HT D
AD-92SMA	SMA- BNC adapter
BC-139	Desk rapid charger
BP-216	Battery case for 2 AA
BP-217	7.4v 1300mah lith ion battery
CP-19R	Cig lighter cable w/filter
HM-75A	Remote control spkr/mic
HM-128	Earphone+microphone
HM-131	Spkr/mic/earph jack/revolving clip
HS-85	Headset w/VOX
LC-163	Carrying case
OPC-254L	Right angle mini DC pwr cable
OPC-474	Cloning cable (radio to radio)
OPC-1529R	Data communications cable
RS-91	Rem cont software/RS-232 cable
SP-13	Earphone
UT-121	Digital board for D-Star
IC-92AD	5w 2m/440 D-Star ready HT
AD-92SMA	SMA- BNC adapter
BC-177	Desk rapid charger
BP-256	7.4v 1620mah lith ion battery
BP-257	Battery case for 2 AA
CP-19R	Cig lighter cable w/filter
HM-75A*	Remote control spkr/mic
HM-131*	Spkr/mic/earph jack/revolving clip
HM-174	Waterproof spkr/mic
HM-175GPS	Waterproof spkr/mic w/GPS
HS-85*	Headset w/VOX
LC-168	Carrying case
OPC-254L	Right angle mini DC pwr cable
OPC-474	Cloning cable (radio to radio)
OPC-1797	Plug adapt cable; 2pin spkr/mic
RS-92	Rem control software/RS-232 cable
SP-13*	Earphone
*These accessories require OPC-1797 with IC-92AD	
ID-31A	5w 440 FM D-Star HT w/GPS
AD-92SMA	SMA- BNC adapter

Icom - continued**AES Price**

BC-202	Rapid desktop charger
BP-271	7.4v 1150mah lith ion battery
BP-272	7.4v 1880mah lith ion battery
BP-273	Battery case for 3 AA
CP-12L	Right angle cig cable w/filter
CP-19R	Cig lighter cable w/filter
CT-17	CI-V level converter
HM-75LS	Rem control spkr/mic/rt angle plug
HM-186LS	Compact spkr/mic/rt angle plug
HS-94	Ear-piece style headset
OPC-2006LS	Plug adapter cable; HS-94
LC-178	Carrying case
OPC-254L	Right angle mini DC pwr cable
OPC-2218LU	Cloning/data cable
SP-13	Earphone
D-STAR REPEATERS	
ID-RP2C	Repeater controller
RS-RP2G2	G2 D-Star gateway software
ID-RP2D	1.2GHz data repeater special order
ID-RP2V	1.2GHz voice repeater special order
ID-RP2000V	2m voice repeater
ID-RP4000V	440MHz voice repeater
IC-V80	5.5w 2m FM HT/battery/charger
IC-V80 Sport	2m FM HT/alk case
BC-191	Desktop quick charger for BP-264
BC-193	Desktop quick charger for BP-265
BP-263	Battery case
BP-264	7.2v 1400mah NiMH battery
BP-265	7.2v 1900mah lith ion battery
CP-17L	Right angle cig cable for charger
CS-V80	Cloning software for IC-V80
OPC-474	Cloning cable (HT to HT)
OPC-478U/UC	PC USB cable
HM-158L	Rt angle spkr/mic/earph jack/clip
HS-94	Ear-piece style headset
OPC-2004	Plug adapter cable for HS-94
OPC-515L	Right angle DC cord for charger
IC-V82	7w 2m FM HT/battery/charger
IC-U82	5w 440 FM HT/battery/charger
BC-119-N01	Desk charger (adapter required)
AD-94-11	Adapter cup for BC-119-N01
AD-101	Adapt cup; BP-211N/BC-119-N01
BC-144N/BC144N51	Rapid desk charger
BP-208N	Battery case
BP-210N	7.2v 1650mah 5w battery
BP-222N	7.2v 600mah 5w battery
CS-V82	Cloning software for IC-V82/U82
OPC-474	Cloning cable (HT to HT)
OPC-478	PC RS-232C cable
OPC-478U/UC	PC USB cable
HM-46	Slim-line speaker/mic
HM-54	Heavy duty spkr/mic
HM-75A	Remote control spkr/mic
HM-128L	Rt angle plug earphone+mic
HM-158L	Rt angle spkr/mic/earph jack/clip
HS-85	Headset w/VOX
HS-94	Ear-piece style headset; use w/VS-1L
VS-1L	Right angle VOX-PTT unit for HS-94
MB-86	Swivel belt clip
MB-103	Spring loaded belt clip; N-series batts
SP-13	Earphone
UT-108	DTMF decoder unit
UT-118	Digital board
IC-T70A	5w 2m/440 FM HT/battery/charger
AD-92SMA	SMA- BNC adapter
BC-191	Desktop quick charger for BP-264
BC-193	Desktop quick charger for BP-265
BP-263	Battery case
BP-264	7.2v 1400mah NiMH battery
BP-265	7.2v 1900mah lith ion battery
CP-12L	Right angle cig cable w/filter
CP-17L	Right angle cig cable for charger
CP-19R	Cig lighter cable w/filter

Icom - continued

AES Price

CS-T70	Cloning software for IC-T70A	
OPC-474	Cloning cable (HT to HT)	
OPC-478U/UC	PC USB cable	
HM-131	Spkr/mic/earph jack/revolving clip	
HS-94	Ear-piece style headset	
OPC-2006	Plug adapter cable for HS-94	
LC-174	Carrying case	
OPC-254L	Right angle mini DC pwr cable	
OPC-515L	Right angle DC cord for charger	
BC-119-N11	Nicad/NiMH desk cgr (use adapt) Δ	
BP-170	Battery case; IC-T7H Sport	Δ
BP-180	7.2v 600mah batt; IC-T7H Sport ....D	
BP-200L	9.6v 760mah NiMH battery; T81A Δ	
BP-226	Battery case for 5 AA for IC-V85 ....Δ	
BP-227	7.2v 1700mah lith ion batt; IC-V85 Δ	
BP-243	3.7v 1800mah lith ion batt; IC-P7A D	
CP-21LR	Cig cable w/filter; IC-P7A	D
CS-P7	Windows cloning software; IC-P7A	D
CS-T90A	Windows cloning software; IC-T90A Δ	
CS-V8	Cloning software for IC-V8	Δ
CS-V85	Cloning software for IC-V85	Δ
FA-1443B	Extra 2m/440 duck; IC-T7H Sport Δ	
HM-46L	Slim-line spkr/mic, rt angle plug ..Δ	
HS-51	Headset w/VOX for IC-V8	D
LC-152A	Carrying case for IC-T90A	Δ
LC-161	Carrying case; IC-P7A	D
LC-167	Carrying case for IC-V85	D
LCF36 Swivel	Leather case w/swivel; ICV8 ..D	
VS-1	VOX-PTT unit for HS-94 w/IC-T90A ....Δ	

ACCESSORIES

AG-25	2m mast mounted GaSfET preamp	
AG-35	430 MHz mast mounted preamp	
AH-8000	100-3300MHz discone ant/49'cb/N	
CT-17	CI-V level converter	
PS-125	25A switching power supply	
PS-126	25A 4-pin switching power supply ...	
SM-50	Dynamic desk microphone	
SP-5	Mobile speaker	
SP-10	Slim-line external speaker	
SP-20	Speaker w/audio filters	
SP-23	Speaker w/audio filters	

CONSUMER ELECTRONICS

A-24	5w air handheld w/NiMH battery	
IC-M72	Waterproof 6w VHF marine handheld	

Dave INGRAM (ING)

Keys II	Book	
QRP Romps	Book	
World of Keys	Book	
Your Guide to HF Fun	Book	

INTERNET LABS (INT)

DV-AP	Access point dongle for D-Star radios	
DV-Dongle	Computer dongle; internet D-Star	

ISOTRON (ISO)

160C	160m 9.5'x16"x15" 100 KHz bandwidth ant	
80	80m 32"x16"x15" 110 KHz bandwidth ant	
40	40m 22"x16"x15" 250 KHz bandwidth ant	
20	20m 21"x8"x4" 350 KHz bandwidth ant	
15	15m 21"x1.5"x4" 450 KHz bandwidth ant	
10	10m 16"x1.5"x4" 1 MHz bandwidth ant	
6	6m 16.5"x2"x4" 1.25 MHz bandwidth ant	
8040201510Co*	80/40/20/15/10m combo ant	
	*2 feedlines required for 8040201510Co	
80/40 Combo	80/40m 32"x16"x30" ant ...	
40/20 Combo	40/20m combo antenna	
20/15/10 Combo	20/15/20m combo ant	

JSC (JSC)

1318	18ga solid 450 ohm ladder line .per ft.	
1318	100 ft. cut	
1318	1000 ft. Roll	
1313	14ga stranded 450 ohm ladder line per ft.	

JSC - continued

AES Price

1313	100 ft. cut	
1313	1000 ft. Roll	
3030	RG-8U coax cable .....per ft.	
3030	100 ft. Roll	
3030	500 ft. Roll	
3060	Mini RG-8U coax cable .....per ft.	
3060	100 ft. cut	
3060	1000 ft. Roll	
3110	RG-58AU coax cable .....per ft.	
3110	100 ft. cut	
3110	1000 ft. Roll	
3500	Equiv 9913 coax cable .....100 ft. Roll	
3500	250 ft. Roll	
3500	500 ft. Roll	
3780	RG-213 coax cable .....per ft.	
3780	100 ft. Roll	
3780	500 ft. Roll	
5971	8-wire rotor cable; 2-18, 6-22 .....per ft.	
5971	100 ft. cut	
5971	1000 ft. Roll	
5972	8-wire rotor cable; 2-16; 6-18 .....per ft.	
5972	100 ft. cut	
5972	500 ft. Roll	

Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

JETSTREAM (JET)

JT-220M	50w 220MHz FM Xcvr	
JTM-HF6	6m 4' 10" stick antenna	
JTM-HF10	10m 8' HF stick antenna	
JTM-HF12	12m 8' HF stick antenna	
JTM-HF15	15m 8' HF stick antenna	
JTM-HF17	17m 8' HF stick antenna	
JTM-HF20	20m 8' HF stick antenna	
JTM-HF40	40m 8' HF stick antenna	
JTM-HF75	75m 8' HF stick antenna	
JTM-HF160	160m 8' HF stick antenna	

K-40 (K40)

K-30	MagnaMount mobile CB antenna	
K-40	Black base loaded roof/trunk mt CB ant	
M-40	Black MagnaMount for K-40	
W-40	Black weather cap for K-40	D
W-40W	White weather cap for K-40	
SF-400	4' black Superflex fiberglass CB whip	
SF-400W	4' white Superflex fiberglass CB whip	

KNK Marketing (KNK)

RLG	2007 So CA rpt listings/SW USA rpt map	
-----	--	--

KANTRONICS (KAN)

KPC-3 Plus	Small packet TNC/512K RAM	
KPC-9612 Plus/128K	9600 controller/128K ...	
	12VDC Adaptor 300ma adaptor	
KAM XL	All mode TNC w/DSP modems	
	12VDC Adaptor 300ma adaptor	

KENT (KNT)

SK-1	Straight key	
SP-1	Single paddle key	
TP-1	Dual paddle iambic key	

KENWOOD (KEN)

TS-B2000	PC ctl HF/6m/2m/430 Xcvtuner ...	
TS-2000	HF/6m/2m/430 Xcvt/ant tuner	
	UT-20 1.2GHz module Kenwood install only	
TS-2000X	HF/6m/2m/430/1.2 Xcvt/ant tuner ...	
KPS-15	23A switching ps w/fan, 25A surge	
PS-60	Heavy duty 22.5A power supply	
ARCP-2000	PC control soft; included w/TSB ...	
DRU-3A	Digital recording unit	
HS-5	Deluxe headphones	

Kenwood - continued

AES Price

HS-6	Lightweight headphones	
MB-430	Mobile mounting bracket	
MC-43S	Extra 8-pin hand mic w/up-down ..	
MC-60A	8-pin amp desk mic w/up-down ..	
MC-90	2-head DSP desk microphone	
PG-2Y	13' DC cable	
PG-2Z	6.5' heavy duty DC cable	
RC-2000	Remote faceplate mobile kit	
SP-23	External speaker	
VS-3	Voice synthesizer	
TS-590S	Compact HF/6m advanced DSP Xcvt ..	
KPS-15	23A switching ps w/fan, 25A surge ..	
PS-60	Heavy duty 22.5A power supply	
HS-5	Deluxe headphones	
HS-6	Lightweight headphones	
MB-430	Mobile mounting bracket	
MC-47	Multi-function 8-pin hand mic	
MC-60A	8-pin amp desk mic w/up-down ..	
MC-90	2-head DSP desk microphone	
PG-20	22' DC cable	
SO-3	TCXO unit	
SP-23	External speaker	
SP-50B	High quality external mobile spkr ..	
VGS-1	Voice guide & storage unit	
TS-480HX	200w HF/100w 6m Xcvt	
TS-480SAT	100w HF/6m Xcvt w/auto tuner	
KPS-15	23A sw ps/fan, 25A surge (use 2 for 200w) ..	
PS-60	Heavy duty 22.5A ps (use 2 for 200w) ..	
HS-5	Deluxe headphones	
HS-6	Lightweight headphones	
MB-480	Carrying bracket w/handle	
MC-43S	Extra 8-pin hand mic w/up-down ..	
MC-47	Multi-function 8-pin hand mic	
MC-60A	8-pin amp desk mic w/up-down ..	
MC-90	2-head DSP desk microphone	
MJ-88	Modular to 8-pin mic adapter	
PG-4Z	13' panel extension kit	
PG-20	22' DC cable	
SO-3	TCXO unit	
SP-23	External speaker	
SP-50B	High quality external mobile spkr ..	
VGS-1	Voice guide & storage unit	
YF-107C	500 Hz CW filter	
YF-107CN	270 Hz CW filter	
YF-107SN	1.8 KHz SSB filter	
7-pin DIN	plug	
8-pin DIN	plug	
13-pin DIN	plug	
HS-5	Deluxe headphones	
HS-6	Lightweight headphones	
KES-5	Heavy duty 40w unterminated speaker ..	
KPS-15	23A switching ps w/fan, 25A surge ..	
LF-30A	1kw PEP low pass filter	D
MC-43S	8-pin hand mic w/up-down switch ..	
MC-60A	8-pin amp desk mic w/up-down	
MJ-88	Modular to 8-pin mic adapter	
SP-50B	High quality external mobile speaker ..	
TM-V71A	50w 2m/50w 440 FM Xcvt	
DFK-3D	Detachable front panel kit	
MJ-88	Modular to 8-pin mic adapter	
PG-2N	Extra DC cable	
PG-5A	Packet data cable	
PG-5F	Extension cable kit	
PG-5G	Programming interface kit	
PG-5H	PC interface kit	
RC-D710	TNC/APRS control head	
PG-5J	Interface kit; external TNC w/RC-D710 ..	
SP-50B	High quality external mobile spkr ..	
VGS-1	Voice guide & storage unit	
TM-D710A	50w 2m/50w 440 FM Xcvt/TNC ...	
MJ-88	Modular to 8-pin mic adapter	
PG-2N	Extra DC cable	
PG-5A	Packet data cable	
PG-5F	Extension cable kit	

Kenwood - continued**AES Price**

PG-5G	Programming interface kit
PG-5H	PC interface kit
SP-50B	High quality external mobile spkr ..
VGS-1	Voice guide & storage unit
TM-281A	65w 2m FM Xcvr w/WX alert
KPG-46U	USB programming cable
MJ-88	Modular to 8-pin mic adapter
PG-2N	Extra DC cable
SP-50B	High quality external mobile spkr ..
BT-11	4-AA battery holder; TH-D7A(G)
BT-14	6 AA battery holder for TH-K2AT
KSC-24	Rapid charger for TH-K2AT
PB-39	9.6v 600mah 5w batt; TH-D7A(G)
PB-43N	7.2v 1100mah NiMH batt; TH-K2AT
PG-3B	15A DC line noise filter
PG-5D	PC interface cable for TM-271A
RC-D710	TNC/APRS head
PG-5J	Interface kit; external TNC w/RC-D710
SC-54	Soft case for TH-K2AT

TH-K20A	5.5w 2m FM HT/lith ion
BT-16	AAA battery case
KHS-22	Boom mic headset
KHS-26	Lapel clip mic/ear piece
KNB-63L	Extra 1130mah lith ion battery ..
PG-4Y	9-pin PC programming cable
SMC-32	Mini water resist rt angle spkr/mic ..
SMC-33	Speaker/mic w/remote control
SMC-34	Spkr/mic w/vol cont/function keys ..
TH-F6A	5w 2m/220/440 FM HT/lith ion
BT-13	AA battery case
KHS-22	Boom mic headset
KHS-26	Lapel clip mic/ear piece
PB-42L	Extra 7.4v 2000mah lithium ion batt ..
PG-2W	DC cable w/fuse
PG-3J	Cig lighter cord w/filter
PG-4Y	9-pin PC programming cable
SC-51	Soft case w/swivel belt clip
SMC-32	Mini water resist rt angle spkr/mic ..
SMC-33	Speaker/mic w/remote control
SMC-34	Spkr/mic w/vol cont/function keys ..
WR-2	Water resistant bag
TH-D72A	5w 2m/440 FM HT w/GPS/TNC
BT-15	6 AAA battery case
KHS-22	Boom mic headset
KHS-26	Lapel clip mic/ear piece
KSC-32	Rapid charger
PB-45L	Extra 7.4v 1800mah lithium ion batt ..
PG-2W	DC cable w/fuse
PG-3J	Cig lighter cord w/filter
SC-55	Soft case
SMC-32	Mini water resist rt angle spkr/mic ..
SMC-33	Speaker/mic w/remote control
SMC-34	Spkr/mic w/vol cont/function keys ..
WR-2	Water resistant bag

KESTER (KES)

83-3000-0000 1.3oz 60/40 lead solder, 050 dia

KLEINHUIS (KLE)

1309 Isolated grounding bar

KOSS (KOS)

KTX/8	Collapsible stereoephone w/vol control ...
QZ/5	Passive noise reduction stereoephone
QZ/50	Active noise reduction stereoephone ..D
QZ/99	Noise reduction stereoeph w/mono sw ..
QZ/2000	Active noise reduction stereoephone ..
Race Tracker Black	Passive noise reduction stereoeph D
Y-88	Dual stereoephone Y-adapter

LDG (LDG)

AT-100Proll	160-6m 1-125w/100w 6m auto tuner
AT-200Proll	160-6m 5-250w/100w 6m auto tuner
AT-600Pro	160-6m 600w/250w 6m auto tuner
AT-897Plus	Bolt-on auto tuner for Yaesu FT-897

LDG - continued**AES Price**

AT-1000Pro	1000w PEP HF/250w 6m auto tnr D
AT-1000Proll	1000w PEP HF/250w 6m auto tuner
M-1000	4.5" rem meter; AT-1000Proll only
IT-100	Auto tuner; IC7000/706/703/718/746/756
KT-100	160-6m 125w/100w 6m auto tuner; Kenwood
YT-100	Desk-top auto tuner; FT-857/897/100
YT-450	Desk-top auto tuner for FT-450/950 ..
YT-847	Desk-top auto tuner for FT-847
Z-11Proll	160-6m 1-125w/100w 6m auto tuner
Z-100Plus	160-6m 1-125w/100w 6m auto tuner
Z-817	160-6m 20w auto tuner for Yaesu FT-817
ALK-2	2-port audio/linear/key switch
DM-7800	Dual 4.5" meters for IC-7800
FT-METER	Multi-function meter for FT-857/897
FTL-METER	Large 4.5" meter for FT-857/897.
IC-2000	FT-2000 cable; generic LDG tuners ..
IC-PAC	1com 14" cable; generic LDG tuners ..
IC-PAC-6	1com 6" cable; generic LDG tuners
M-7600	4.5" multi-function meter; IC-7600 ..
M-7700	4.5" multi-function meter; IC-7700 ..
RBA-1:1	Remote 1:1 balun; short random
RBA-4:1	Remote 4:1 balun; long/random/end fed
RCA-14	Transceiver cable breakout box
SLS-2	Microphone switch w/RJ-45 connectors D
Y-ACC	FT-857/897 cable; generic LDG tuners

LA CROSSE (LAC)

302-604B	Indoor temperature and humidity ..
306-605	Solar window thermometer
308-807	Color digital weather station w/rem
EA-3010	Handheld wind indicator
IR-101	Infra-red thermometer
WA-1240U	4-day talking internet forecaster D
WD-3209U	4-day internet forecaster/alerts D
WS-450B	Color forecast station
WS-1612CH-IT	Professional wireless WX stn
WS-2010-13	PC interface/soft; WS-2010 ...D
WS-7014CH	Wireless forecast station
WS-7394U-CH-IT	Wireless forecast station ..
WS-8117U-IT-Oak	Atomic clock/in/out temp/moon
WS-9004U-IT	Wireless rain gauge
WS-9023U-IT	Wireless temperature/humidity
WS-9049U-IT-AL	Wireless forecast station ...
WS-9080U-IT-CBP	Wireless temperature station
WS-9121U-IT-CBP	Wireless thermometer ...D
WS-9245UBK-IT	Wireless temperature
WT-3102S	10" 12-hour analog atomic clock ..
WT-3145U	14.5" atomic analog/LCD dig clock
WT-5120	Projection alarm/out temp/in humidity D
WT-5220U-IT-CBP	Projection alarm/in/out temps
WT-8005U-B	Atomic 12/24-hr wall clock/in temp

LAIRD (ANX)

AB-FT	118-896MHz 1/4 wave NMO whip
AB-SCANG	VHF/UHF/800MHz NMO mob scan ant
BB-1442N	144-174 2.4db no gnd plane NMO mob
BB-1443	144-174MHz 3db 49" NMO mobile ..
BB-4303	430-450 3db 11 1/2" NMO mobile ...
CB-144/440C	2m/440 2/5db 36" NMO mobile
CWB-1443	Self-tuning 144-156 3db NMO mob
CWB-4405C	Self-tuning 440-470 5db NMO mob
FG-4403/FM-2	440-450 44" fg 3db N base w/mt ..
GB-8PST1	NMO mag mt w/coax & teflon PL259
LBMB-9034	Mirror mt 3/4" hole L-bracket
MB-8PST	NMO hole mt w/coax & teflon PL259
TM8-PST	Chrome NMO mini trunk mt/coax/PL259
TRABT-1420	142-164 Phantom whipless NMO
TRAB-4303	430-450 3db Phantom whipless NMO
VTPM	NMO mt; up to 1" thick plate (UHF barrel)
Y-1363	136-150MHz 3el 7.1db gold N beam
Y-1365	136-150MHz 5el 9.2db gold N beam
Y-4303	430-450 3el 7.1db gold welded N beam
Y-4305	430-450 5el 9.2db gold welded N beam

AES Price**LAKEVIEW (LAK)**

9175	75m 7' Hamstick antenna
9160	60m 7' Hamstick antenna
9140	40m 7' Hamstick antenna
9130	30m 7' Hamstick antenna
9120	20m 7' Hamstick antenna
9117	17m 7' Hamstick antenna
9115	15m 7' Hamstick antenna
9112	12m 7' Hamstick antenna
9106	6m 4.5' Hamstick antenna
901	Dipole mount for 2 Hamsticks
IM-1	Inducti-match for 75-12m mobile ant D
TM-1	License plate mount, 3/4-24

LARSEN/PULSE (LAR)**27-31 MHz ANTENNA**

NMO-27B	10m black ant only (no mount)
NMO-27C	10m ant only (no mount)

47-54 MHz ANTENNA

NMO-50B	6m black ant only (no mount)
NMO-50C	6m ant only (no mount)

144-174 MHz ANTENNAS

NMO-150B	2m black ant only (no mt), 3 db ..
NMO-150C	2m ant only (no mount), 3 db
OM-150CK	2m no ground plane antenna

440-460 MHz ANTENNA

NMO-440C	440 ant only (no mount), 3.4db ..
----------	-----------------------------------

890-960 MHz ANTENNA

NMO-900B	900 black ant only (no mt), 3.4db
NMO-2/70B	2m/440 blk ant only (no mt), 1.6/3.5db
NMO-2/70-SH	2m/440 ant (no mt), 0/1.8db ..

NMOQ-Spec	136-960 MHz 1/4 wave ant (no mt)
NMOQ-Spec-B	136-960 black 1/4 vv ant (no mt)

GPS-NM002 GPS NMO mount ant (no mt) ..

NMO-150450800 3-band scanner ant (no mt)

ON GLASS ANTENNAS

KG-144-UD-PL	2m on glass antenna
KG-2/70-CX-PL	2m/440 on glass antenna ...
KG-Reinstall	Reinstall kit for KG-ants

ACCESSORIES

BSA-K/BSA-Kit	Base kit; NMO/UHF mount
HP-34	3/4" hole plugs (5)
NMO-CAP-B	Black rain cap for NMO mount ..
NMO-KHF-CX-PL	3/4" hole NMO mt/coax/PL259
NMO-MMR	Round mag mt, coax for NMO ant
NMO-TLP	Low profile tnk lid mt, coax; NMO ant
PO-MM	Magnet mt, coax for SO-239 ant
RG-SS	Extra super seal NMO gaskets (3)
SPRING	Shock spring
TMB-34	Trunk mtg bkt for NMO antenna
TMB-34B	Black trunk mtg bkt for NMO ant ..
W-2/70B	2m/440 black replacement mobile whip
W-KG2/70	2m/440 replacment on glass whip
W-490	49" replacement mobile whip
W-490B	Black 49" replacement mobile whip

LOGSAT (LOG)

Logsat Professional Satellite tracking CD ..

M² (MSQ)

6M-3SS	6m 6.06db 3el 5' 9" boom
6M-3	6m 50-50.6 or 51-54 6.4db 3el 6' 9" boom
6M-5XHP	6m 50-50.6 or 51-54 9.4db 5el 18' boom
6M-7JHV	6m 50-50.4 10.9db 7el 30' 8" boom
6M-HO-LOOP	6m 50-50.3 4.4db horiz loop ...
6" x 1/2"	3/8-24 mobile mast for loop
16" x 1/2"	3/8-24 mobile mast for loop
18" x 5/8"	3/8-24 mobile mast for loop
36" x 1/2"	3/8-24 mobile mast for loop
50" x 1/2"	3/8-24 mobile mast for loop
Mast/Top Bkt	Top bkt for mast; HO stack ..
2M-3SS	2m 6.16db 3el 3' boom beam

M² - continued

2M-4	2m 7.5db 4el 4' boom beam
2M-7	2m 10.3db 7el 8'10" boom beam
2M-9SSB/FM	2m SSB or FM 12db 9el 14' 6" bm
2M-12	2m 12.8db 12el 19'6" boom beam
2M-5WL	2m 14.8db 17el 33' boom beam
2M-CP14	2m 10.3db 7h/7v 10'6"bm circ
PS-2M	2m polarity switch; circ pol beam ...
2M-HO-LOOP	2m 144-144.5 4.86db horiz loop
6" x 1/2"	3/8-24 mobile mast for loop
16" x 1/2"	3/8-24 mobile mast for loop
18" x 5/8"	3/8-24 mobile mast for loop
36" x 1/2"	3/8-24 mobile mast for loop
50" x 1/2"	3/8-24 mobile mast for loop
Big-Foot	4x-mag mt; 2M-HO-LOOP stack Δ
MAG-KIT	Mag mt kit; single 2m-HO-LOOP
Mast/Top Bkt	Top bkt for mast; HO stack ..
STACK-KIT	Stack kit for 2 m-HO-LOOP's ..
EB-144/RK-2M	2m Eggbeater w/reflector kit
222-10EZ	220 12db 10el 9' 9" boom beam ..
440-6SS	420-450 8.86db 6el 3' boom beam
420-50-11	432 11.3db 11el 5' boom rear mt
440-18	432 14.5db 18el 11'4" boom beam ..
436-CP30	432 14.5db 15h/15v 9'9"boom circ
436-CP42UG	432 16.8db 21h/21v 18'10"bm circ
PS-70CM	432 polarity switch; circ pol beam
432-9WL	432 17.3db 28el 21' boom beam
432-HO-LOOP	430-436 5db horiz loop ant ...
6" x 1/2"	3/8-24 mobile mast for loop
16" x 1/2"	3/8-24 mobile mast for loop
18" x 5/8"	3/8-24 mobile mast for loop
36" x 1/2"	3/8-24 mobile mast for loop
50" x 1/2"	3/8-24 mobile mast for loop
Big-Foot	4x-mag mt; 432-HO-LOOP stack Δ
MAG-KIT	Mag mt kit; single 432-HO-LOOP
STACK-KIT-70CM	Stack kit; 2 432-HO-LOOP's Δ
EB-432/RK-70CM	432 Eggbeater w/reflector kit
23CM-22EZA	1.2GHz 16db 22el 5'2" bm beam
2M-2-Port-PD	2m 2-port N power divider
70CM-2-Port-PD	432 2-port N pwr divider
OR-2800PDC	35sqft azimuth rotor/ctf/8wire Drop-Ship

MFJ (MFJ)

9982	2.5kw continuous w/roller inductor
9989D	Dlx 1.5kw PEP w/roller inductor
9986	3kw PEP w/roller inductor
962D	1.5kw PEP/meter/switch/balun/roller ind
969	HF & 6m 300w roller inductor tuner
949E	300w/PEP meter/dummy/switch/balun
948	300w/meter/switch/balun
941E	300w tuner w/meter, switch, balun
945E	300w tuner w/meter plus 6m
20	Mobile bracket for 945E
901B	Versa Tuner 200w ant tuner
910	80-10m mobile antenna matcher
16010	200w random wire tuner
974B	3.5-54MHz balanced line ant tuner
974HB	1.8-54MHz balanced line ant tuner ...
976	1.5kw 1.8-30MHz balanced line ant tuner
991B	150w automatic antenna tuner
993B	300w deluxe automatic antenna tuner
994B	600w automatic antenna tuner
1316	12vdc 1.2A adapter; auto tuners
5124I	Icom interface cable; auto tuners
5124K	Kenwood interface cable; auto tuners
5124Y	Yaesu interface cable; auto tuners ..
998	1.5kw automatic antenna tuner
1316	12vdc 1.2A adapter; auto tuners
5114I	Icom interface cable
5114K	Kenwood interface cable
5114Y	Yaesu interface cable
902	80-10m 150w travel tuner
903	6m antenna tuner
904	80-10m 150w travel tuner w/meter

AES Price

MFJ - continued

906	6m antenna tuner w/wattmeter
914	Auto tuner extender
921	2m/220 300w PEP tuner/SWR/wattmeter
924	440 MHz 300w PEP tuner/SWR/wattmeter
934	300w tuner w/artificial ground
MEMORY KEYS	
451	Dedicated CW keyboard w/memory
452	CW keyboard/keyer w/disp/keyboard
452X	CW keyboard/keyer w/disp, no keyboard
490	492 keyer/Benchner paddle combo
490X	492 keyer for use w/Benchner or 564
564	Deluxe iambic chrome paddle for 490X
564B	Deluxe iambic black paddle for 490X
492	192 char menu driven memory keyer
495	Millennium memory keyer
ELECTRONIC KEYS	
401D	Econo keyer
407D	Deluxe electronic keyer
KEYER/PADDLES	
422D	Keyer/Benchner paddle combination
422DX	Keyer only
441	SlimLine econo keyer
447	SlimLine deluxe keyer
564	Deluxe iambic chrome paddle
564B	Deluxe iambic black paddle
5166	Paddle to keyer cable
COMPUTER INTERFACES	
1224	Computer Interface
1272BYH	TNC/mic switch; KAM HF
1272BYV	TNC/mic switch; KAM VHF
SSB/CW FILTERS	
751B	Super tunable CW audio filter
752D	Dual tunable SSB/CW filter
784B	Deluxe tuneable DSP filter
5184	Cable pack for 784B
PHONE PATCH	
624E	8p/mod phone patch w/audio VU meter
DUMMY LOADS	
250	2kw PEP dummy load w/oil
250X	2kw PEP dummy load, less oil
21	1 gal industrial xfmr oil for wet dummy
260C	300w 0-650 MHz dry dummy load
260CN	300w 0-650 MHz type N dry dummy ..
264	1.5kw 0-650 MHz dry dummy load
264N	1.5kw 0-650 MHz type N dry dummy ...
267	1.5kw 1.8-60 dry dummy load/SWR/wattmeter
SWR/WATTMETERS	
812B	144-220 MHz SWR/FS/wattmeter
815C	160-10m cross-needle SWR/wattmeter
816	1.8-30 MHz toroidal SWR/wattmeter
817C	2m/220/440 cross needle meter
841	2m 5w in-line HT wattmeter/SWR
842	140-525 MHz 150w mobile SWR/wattmeter
844	Compact 2m/440 SWR/wattmeter
860	1.8-60 MHz cross-needle meter
862	2m/220/440 cross-needle meter
864	1.8-60MHz/2m/440 cross needle meter ..
868	HF 6.5" diagonal PEP SWR/wattmeter ...
870	1.6-60MHz Grandmaster SWR/wattmeter
872	1.8-200MHz Grandmaster SWR/wattmeter
873	125-525MHz Grandmaster SWR/wattmeter
874	1.8-525MHz Grandmaster SWR/wattmeter
891	1.6-60MHz 2kw PEP SWR/wattmeter
893	125-525MHz 200w SWR/wattmeter
SHORTWAVE ACCESSORIES	
306	Car radio SWL converter
956	LW/MW/SW preselector/tuner
959C	SW receiver ant tuner w/preamp
1020C	.3-40 MHz indoor active receive ant ..
1022	300KHz-200MHz active rcv antenna
1024	.05-30 MHz outdoor active rcv ant
1040C	Deluxe receiver preselector

AES Price

MFJ - continued

1045C	Receiver preselector
BOOKS	
32	Packet Made Easy book
33	Mobile Handbook
36	Shortwave Listeners Guide; Apts/Condos ..
37	Ham Communications Circuit Files book ..
38	Easy-up Antennas book
3036	The Packet Radio Operators book
3101	Fox Hunt Adventure book
3301	Troubleshooting Antenna & Feedlines book
3302	73 Dipole and Long-Wire Antennas
3303	73 Vertical, Beam, and Triangle Ants ...
3305	Antennas & Transmission Lines book ...
3400	Morse Code: Breaking the Barrier
3502	Solid State QRP Projects
3506	Ferromagnetic-Core Design book
3507	Practical RF Design Manual
3509	Ladder Crystal Filters
CLOCKS	
105D	24-hour quartz wall clock
107B	24-hour digital clock
108B	24/12-hour dual disp digital clock
112B	Deluxe world map clock
113	24/12-hr 1.8" LED clock/batt back-up ...
118	Giant 24/12 hour LCD clock
121B	Giant 24/12-hr LCD dual time atomic clock
123B	Eternity solar atomic clock
ANTENNAS	
1402	2m/440 0/3db 16.5" 100w ant only
1412	2m/440 3/5.5db 40" 200w ant only
1414	2m/440 3/8-24 58" antenna only
1422	2m/440 3.2/5.7db 37.5" 150w ant only ..
1432	2m/440 5/7.6db 62.5" 150w ant only ...
1436	6m/2m/440 2.15/4.5/7.2db 59" ant only
333BM	3.5" HiFlux NMO mag mt/cbl; not 1436
333BS	3.5" HiFlux SO-239 mag mt/cbl; not 1436
335BM	5" HiFlux NMO mag mt/cbl; not 1436
335BS	5" HiFlux SO-239 mag mt/cbl; not 1436
340	Mirror/luggage pipe clamp mount
345S	Trunk/hatchback lip mt SO-239 mt ..
1516	2m 15' vertical base antenna
1621	40-10m 54" portable ant w/tuner
1622	40-2m apartment antenna
1624	40-6m mini bugcatcher antenna
1661	40-6m portable manual screwdriver ant
1664	80-6m portable manual screwdriver ant
1710	2m ¾ wave telescopic BNC antenna
1712	2m/440 telescopic BNC antenna
1712S	2m/440 telescopic SMA antenna
1713	2m/440 SuperFlex Thin Duk HT ant
1713S	2m/440 SuperFlex SMA Thin Duk ant ..
1714	2m ½ wave telescopic BNC antenna
1715	2m/440 SuperFlex gain Thin Duk HT ant
1715S	2m/440 SuperFlex gain SMA Thin Duk
1716	2m/440 duck for HT
1716S	2m/440 SMA duck for HT
1717	2m/2.15db 440 duck for HT
1717PL	2m/440 foldover flexi-duck, PL-259 ..
1717S	2m/2.15db 440 SMA duck for HT
1719	2m/440 BNC Midget Duck
1719S	2m/440 SMA Midget Duck
1720S	6m/2m/440 SMA Duck
1721	2m HT UltraLite mag mt antenna
1722	2m/440 HT UltraLite mag mt BNC ant ..
1722S	2m/440 HT UltraLite mag mt SMA ant
1724B	2m/440 magnet mt antenna
1728B	6m ¼ wv/2m ¾ wv mag ant/PL259/BNC
1729	2m/440 magnet mt antenna
1730	2m pocket roll-up vertical antenna
1734	2m/440 2.6/6.3db glass mt antenna ...
1736	6m J-Pole travel antenna
1738	2m 2.6db glass mt antenna
94	Remount kit for 1734/1738

AES Price

MFJ - continued**AES Price**

1740	2m ¼ wave ground plane ant
1750	2m ¾ wave ground plane ant
1752	220 ¾ wave ground plane ant
1754	2m/440 ground plane antenna
1762	6m 6db 3 el 6' boom beam
1763	2m 3el portable beam
1764	2 & 6m dual ¾ super gain base ant
1768	2m/440 4/7 el beam antenna
1777	160-6m all band doublet
1778	G5RV 160-10m 102' ant (needs tuner)
1796	40/20/15/10/6/2m 10' vertical ant
1798	80/40/30/20/17/15/12/10/6/2m 20' vert
1800	2.4GHz wi-fi 16 element 15db beam ...
5606SR	6' N male - rp-SMA female cbl for 1800
1899T	80-6m telescopic antenna; FT-817
1910	33' telescoping fiberglass mast
1954	3/8-24 10' telescopic whip
2990	160-6m 43' vert ant; needs ant tuner .

CABLES

5024YV	KAM VHF/KPC3 - Ico/Yae/Alf/RS HT ...
5060YV	KAM VHF/KPC3 - Ke/Ya acc 6pin mni DIN
5065YH	KAM HF - Ico IC-706 acc 13-pin DIN
5065YV	KAM VHF - Ico IC706 acc 13-pin DIN Δ
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable ..
5082	Open end - 8-pin mic cable
5084MYV	KAM VHF/KPC3 - Icom 8-pin mod ..
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod
5086YV	KAM VHF/KPC3 - Ken/Alf 8-pin cable
5213	Open end - Kenwood acc 13-pin DIN ...
5268	Open end - modular phone plug cable .
5429	Cable/adapt; RS-232 to USB w/drivers
5803/10	3' coax jumper cable

RADIOS/TRANSCIVERS

8100K	Shortwave regenerative Rcvr kit
8100W	Shortwave regenerative Rcvr wired ...
8708	4ch ham micro ATV transmitter
9015	5w 15m CW Xcvr
9020	5w 20m CW Xcvr
9030	5w 30m CW Xcvr
9040	5w 40m CW Xcvr
27	Handle for CW station
412	Plug-in Curtis keyer
726	Plug-in audio filter
971	200w portable ant tuner w/meter
1772	Portable 20m dipole
4110	Portable AC power supply
4114	Rechargeable power pack
9402X	7w PEP 2m SSB Xcvr w/mic
9406X	10w PEP 6m SSB Xcvr w/mic
9410X	20w PEP 10m SSB Xcvr w/mic
9420X	12w PEP 20m SSB Xcvr w/mic
9440X	12w PEP 40m SSB Xcvr w/mic
9475X	12w PEP 75m SSB Xcvr w/mic
415B	CW adapter for 9420X/9440X
416	CW adapter for 9402X/9406X/9410X ..
971	200w portable ant tuner w/meter
4110	Portable AC power supply
4114	Rechargeable power pack

ACCESSORIES

1312D	12vdc 500ma adapter, 2.1mm plug ..
1316	12vdc 1.2A adapter
15	HamGear belt loop radio holder
16C01	Glazed ceramic end insulator
18	HamGear chest harness/cargo pocket
92AA01	AA NiMH cell
92AA10	10-pack AA NiMH cells
201	1.5-250 MHz dip meter
202B	RF noise bridge
207	160-10m SWR analyzer
208	2m SWR analyzer
209	1.8-170 MHz SWR analyzer
212	MatchMaker tune up device
219B	SWR analyzer, 440 MHz/N/SO-239 adapt

MFJ - continued**AES Price**

224	2m FM signal analyzer
249B	1.8-170 MHz SWR analy/LCD counter ..
259B	1.8-170 MHz SWR analy/RF res meter .
266	1.5-185/300-490 MHz SWR analyzer
269	1.8-170+440 MHz SWR analy/RF res mtr
29C	Carrying case w/window; 209/249B/259B
39C	Carrying case w/window; 269
66	1.8-30/30-170 dip coils; 209/249B/259B/266
92AA10	10-pc 1300ma AA NiMH (not for 266)
98	Package of 39C/66/1312D for 269
98B	Pack of 92AA10/39C/66/1312D for 269
99	Pack of 29C/66/1312D; 209/249B/259B
99B	Pack; 92AA10/29C/66/1312D; 209/249B/259B
99C	Pack - 92AA10/1312D; 209/249B/259B/269
731	RFI filter for SWR analyzer
1312D	12vdc 500ma ps for SWR analyzers
5510C	Cig lighter cable for analyzers
270	Guardian Angel 400w PEP lightning protect
97	Gas tube plug for 270
281	ClearTone communications speaker
2881	Headset/mic; Icom/ADI/Sta/RS/older Yae
288K	Headset/mic for Kenwood
288Y	Headset/mic; Ico Q7/Yae FT10/50/VX1 .
2921	Earph/mic; Ico/older Yae/compatibles ..
292Y	Earphone/mic; Ico Q7/Yae FT10/50/VX1
2931	Rubber flex earloop earbud/mic; Icom ..
293K	Rubber flex earloop earbud/mic; Kenwood
293Y	Rubber flex earloop earbud/mic; Yaesu
2951	Mini spkr/mic; Icom & compatible HT ...
295K	Mini spkr/mic; Kenwood & compatible HT
295Y	Mini spkr/mic; Yaesu nonscrew 1-pin ..
297	Desk mic with flexible boom
5082	Open end - 8-pin mic cable for 297 .
5268	Open end - mod phone plug cbl; 297
53971	Cable/8-pin for 297; Icom HF
5397K	Cable/8-pin for 297; Kenwood HF ...
5397Y	Cable/8-pin for 297; Yaesu HF
5397MX	Cable/modular for 297; Icom/Kenwood
5397MY	Cable/modular for 297; Yaesu
310	BNC HT antenna window mount clip
310S	SMA HT antenna window mount clip
336S	5" tri-mag mt for SO239 ant/17' coax .
336T	5" tri-mag mt for 3/8-24 ant/17' coax .
341M	17' antenna cable; NMO
341S	17' antenna cable; SO-239
342S	SO-239 mirror/rack/pipe mount w/coax
342T	3/8-24 mirror/rack/pipe mount
343	1½" hole mount for 3/8-24 whip
344	Pipe/mirror horiz mount; 3/8-24
347	HF stick mini dipole mount
382	Deluxe amplified communications spkr .
388	Cyber Ear 12db ear amplifier
392B	Deluxe communication headphones
414	Professional Morse Tutor w/LCD
418	Code Tutor with LCD display
434B	Deluxe Voice Memory Keyer
73	Remote control head w/cbl; 434/434B ..
461	Pocket size Morse code reader
5161	DB-9 PC serial port cable
5162	Cable for radio external speaker
462B	RTTY/ASCII/CW/AMTOR Rcvr multi-reader
5162	Cable for radio external speaker
464	CW reader w/built-in keyer
550	Hand key
554	Deluxe CW practice oscillator
557	Code oscillator w/key
616	Speech intelligibility enhancer
1316	12vdc 1.2A adapter
281	ClearTone speaker (requires 2)
392B	Deluxe communication headphones .
633	Rapid charger; NiMH/nicad AA/AAA/9V ..
662	Simplex pocket repeater
701	Toroid RFI filters
704	1kw low-pass filter

MFJ - continued**AES Price**

762	81db 170MHz BNC attenuator
801	Super compact field strength meter
802	Bipolar field strength meter
802X	Field strength/remote meter combo
805	RFI current detector meter
850B	AC line voltage monitor
852	AC power line noise finder meter
854	HF RF current meter
886	1MHz - 3GHz pocket frequency counter ..
888	Deluxe 10Hz - 3GHz frequency counter ..
890	DX beacon monitor
912	W9INN remote balun
916B	2m/440 duplexer
931	Artificial ground unit
1025	Noise canceling antenna
1026	Deluxe noise canceling unit w/antenna
1046	1.6-33MHz receiver passive preselector
1048	1.6-33MHz Xcvr passive preselector
1112	Multiple DC outlet
1116	Dlx multiple DC outlet
1117	High current multiple DC outlet
1118	Dlx high current multiple DC outlet
1263	2mic in/2rig out switch/1 round cbl/1 modlr cbl
5397MX	Modular mic cable for 1263
1273B	Basic soundcard interface/soft; 8P-R
1273BM	Basic soundcard interface/soft; 8P-M
1275	Soundcard/rig interface/software; 8P-R
1275M	Soundcard/rig interface/software; 8P-M
1279	Super soundcard interface/soft; 8P-R ..
1279M	Super soundcard interface/soft; 8P-M
1700C	6-pos combo ant/xmtr switch/protect
1701	6-position coax switch
1702C	2-pos coax switch/lightning protect ..
1702CN	2-pos 1.1GHz N switch/lightning protect
1703	2-rig/2-antenna RF safety switch
1704	4-pos 500 MHz switch/lightning protect
1704N	4-position type N switch
1925	Controller; Yaesu ATAS-series/other rigs
192512	Controller; Yae ATAS-series/Ico IC-706
4035MV	Dlx 30A adjustable ps, 35A surge ...
4103	Switching power supply; Yaesu FT817/etc
4125	MightyLite 22A 3.5 lb switch ps, 25A surge
4125P	22A 3.5 lb switch ps, 25A surge/Powerpoles
4225MV	MightyLite 22A switch ps, 25A surge/meters
4245MV	MightyLite 40A switch ps, 45A surge/meters
4275MV	75A switch ps/variable voltage/batt cgr
4601	Coax only window ant feed through panel
4602	Multi-type window ant feedthrough panel
4603	Deluxe window ant feedthrough panel .
4616	6-hole air vent feedthrough plate
4712	160-2m 2-pos remote antenna switch .
5513M	3' acc power cbl, 2.1mm to PowerPole
7703	PL-259 to BNC female right angle adapter .
7707	NMO to 3/8/24 adapter
7725	3/8-24 antenna mount quick connect ..
7735	Fold-over 3/8-24 stub mount adapter ..
7748	UHF to 3/8-24 adapter

MAHA (MAH)

MH-R-AA4	4pack 1.2v 2700mah AA NiMH cells
MH-C801D	1-8 AA/AAA NiMH/NiCd quick charger
MH-C9000	4 AA/AAA NiMH WizardOne cgr/analyzer
MH-BP-7	13.2v 1000mah Icom nickel hydride D
MH-BP-8	8.4v 1300mah Icom nickel hydride D
MH-BP-173	9.6v 650mah Icom nickel hydride D
MH-BP-180	7.2v 1000mah Icom nickel hydride D
MH-BP-200	9.6v 680mah Icom nick hydride/clip D
MH-BP-211LI	7.4v 1800mah Icom Li-ion D
MH-FNB-12	12v 1000mah Yaesu nickel hydride D
MH-FNB-17	7.2v 1000mah Yae nickel hydride D
MH-FNB-27	12v 1000mah Yaesu nickel hydride D
MH-FNB-38	9.6v 650mah Yaesu nickel hydride D
MH-FNB-41	9.6v 1000mah Yae nick hyd/spg clip D
MH-FNB-80LI	7.4v 1500mah Yaesu Li-ion D

Maha - continued

MH-FNB-83	7.2v 2000mah Yae nickel hydride D
MH-PB-32	6v 1000mah Kenwood nickel hydride D
MH-PB-34	9.6v 1000mah Ken nickel hydride D
MH-PB-39	9.6v 1050 mah Ken nickel hyd/clip D
MH-PB-39H	6v 1800mah Ken nickel hyd/clip D
MH-PB-42LI	7.4v 1800mah Ken Li-polymer D
MH-800K	500mw spkr/mic w/clip; Kenwood
MH-800S	500mw spkr/mic/clip; Ali/Ico/Sta/Yae
MH-800Y	500mw spkr/mic; Yae FT50/VX1R

MALDOL (MAL)

AH-W100RX	70-900 40" tele BNC rcv ant
AS-20	2m/440 8.5" superflex SMA antenna
AS-25	2m/440 1" SMA antenna
AS-30	2m/440 15" 0/2.15db superflex SMA ant
AX-50	2m/440 0/5db 21" mobile antenna
EM-B80	Small trunk/hatch/van door lip mt
EM-5M	Sm tnk/hatch mt (EM-B80) w/16.5cbl
EX-104B	2m/440 black 0/2.15db 15" mob
EX-107RB	2m/440 black 2.6/4.9db 29" mob
EX-107RBNMO	2m/440 blk 2.6/4.9db 29" NMO
EX-510B	6m/2m/440 blk 0/2.15/5.5db 37" mob
EX-510BNMO	6m/2m/440 blk 0/2.15/5.5db 37" NMO
HMC-6S	20/15/10/6/2m/440 66" mobile ant
HMC-7C	40m loading coil for HMC-6S
HMC-35C	80/75m loading coil for HMC-6S
HVU-8	80/40/20/15/10/6/2/440 8.6' vert/radials
MH-209	2m/440 3" BNC duck
MH-209SMA	2m/440 3" SMA duck
MH-510	6m/2m/440 0/0/3.2db 20.75" SMA duck
MH-511	6m/2m/440 4" SMA duck
MH-610	2m/220/440 0/1.8/3.2db 14" SMA duck
MK-30H	Motorized tnk lip/hatch/van door mt
MK-RR	Roof rack bracket for MK-30H

MIDLAND (MID)

18-258	On glass mount mobile CB antenna
21-406	Deluxe mobile speaker w/3.5mm plug
74-250C	SAME handheld WX/hazard alert radio
WR-120	SAME WX/hazard alert radio w/ps
WR-300	AM/FM/SAME WX/hazard alert radio/ps

Miracle Antenna (MIA)

Ducker IL	In-line HF rcv tuner; HH/QRP xmit
Ducker TL	In-line HF rcv tuner/BNC whip; HH/QRP xmit
Miracle Whip	3.5-450 57" QRP ant/tuner

MIRAGE (MIR)

A-1015G	50-52 FM/SSB 10/150w amp/preamp
B-34	2m FM 2/35w amplifier; no mob bkt
B-34G	2m FM/SSB 2/35w amp/preamp
B-310G	2m FM/SSB 4/100w amp/preamp
B-320G	2m FM/SSB 50/200w amp/preamp
B-1018G	2m FM/SSB 10/160w amp/preamp
B-2518G	2m FM/SSB 25/160w amp/preamp
B-5018G	2m FM/SSB 50/160w amp/preamp
BD-35	2m/440 4/45/4/35w HT amp
D-1010N	440 FM/SSB 10/100w type N amp
D-3010N	440 FM/SSB 30/100w type N amp
D-1010-ATVN	430 ATV 10/52w type N amp
RC-1*	Remote control head w/18" cable
*Not for B-34/B-34G/B-310G/B-320G	
RC-2	Rem ctl head/cable; B-XX18G

The following Repeater Amplifiers are Special Order.

A-1015NR	6m FM 2/110w type N amplifier
A-1015R	6m FM 2/110w SO-239 amplifier
D-1010NR	440 FM 4/80w type N amplifier
D-1010-ATVN-R	430 ATV 4/80w type N amp
D-3010NR	440 FM 12/80w type N amplifier

PREAMPS

KP-1/6M	6m in shack N preamp
KP-1/2M	2m in shack preamp

AES Price

Mirage - continued

KP-1/440	440 in shack N preamp
KP-2/6M	6m mast mount N preamp
KP-2/2M	2m mast mount N preamp
KP-2/440	440 mast mount N preamp
NIFTY (NIF)	
DX Field Reference	
E-Z Guide to D-Star Operation	2nd edition
E-Z Guide to Echolink Operation	
E-Z Guide to PSK-31 Operation	
HF/VHF/UHF Bands Operating Guide	
HT-STAND	Stand for handheld radio
MM-BCD396XT	Mini-manual/ref card combo
MM-BCD996XT	Mini-manual
MM-IC80AD	Mini-manual/ref card combo
MM-IC91AD	Mini-manual/ref card combo
MM-IC92AD	Mini-manual/ref card combo
MM-IC2820H	Mini-manual
MM-IC706MKIIG	Mini-manual
MM-IC718	Mini-manual
MM-IC746PRO	Mini-manual
MM-IC756PRO3	Mini-manual
MM-IC7000	Mini-manual
MM-IC7200	Mini-manual
MM-IC7410	Mini-manual
MM-IC7600	Mini-manual
MM-IC7700	Mini-manual
MM-IC9100	Mini-manual
MM-ID880H	Mini-manual
MM-THD72A	Mini-manual/ref card combo
MM-THF6A	Mini-manual/ref card combo
MM-TMD710A	Mini-manual
MM-TMV71A	Mini-manual
MM-TS590S	Mini-manual
MM-TS2000/X	Mini-manual
MM-MFJ259B	Mini-manual
MM-MFJ269	Mini-manual
MM-FTDX5000	Mini-manual
MM-FTM350R	Mini-manual
MM-FT450/AT	Mini-manual
MM-FT817ND	Mini-manual
MM-FT857D	Mini-manual
MM-FT897D	Mini-manual
MM-FT950	Mini-manual
MM-FT1900R	Mini-manual
MM-FT2000/D	Mini-manual
MM-FT2900R	Mini-manual
MM-FT7800R	Mini-manual
MM-FT7900R	Mini-manual
MM-FT8800R	Mini-manual
MM-FT8900R	Mini-manual
MM-RADIOMG	Radio Monitoring Guide
MM-VX8R	Mini-manual/ref card combo
MM-VX8DR	Mini-manual/ref card combo
MM-VX8GR	Mini-manual/ref card combo
QR-IC208H	Quick reference card
QR-IC2200H	Quick reference card
QR-ICT70A	Quick reference card
QR-ICT90A	Quick reference card
QR-ICV8	Quick reference card
QR-ICV8000	Quick reference card
QR-KGUVDP1P	Quick reference card; KGUV3D
QR-THF6A	Quick reference cards (2)
QR-TM271/281	Quick reference card
QR-FT60R	Quick reference card
QR-FT250	Quick reference card
QR-FT270	Quick reference card
QR-FT1802M	Quick reference card
QR-FT2800M	Quick reference card
QR-VX3R	Quick reference cards (2)
QR-VX6R	Quick reference card
QR-VX7R	Quick reference card
QR-VX170/177	Quick reference card

AES Price

AES Price

NORCOMM (NOR)

NC-106	Prog CTCSS encoder/decoder
NC-401	Sub-miniature DTMF decoder

OUTBACKER (OUT)

OB-8HP	75-10m 500w PEP 6' 8-band mob ant
OB-8TRI	75-10m 300w PEP 3pc 6' portable ant
Joey	80-2m 20w antenna w/counterpoise
MicroMount	Tripod system for Joey
Perth	75-10m 150w PEP 7.5' mobile ant
Perth Plus	75-10m+6m/2m 150w PEP 6' mob ant
Stealth Plus	75-10m+6/2m 100w PEP 4' ant
Outreach	80-10m 300w PEP 9' antenna
Outreach 500	80-6m 600w PEP 9' antenna
Outpost	Base tripod mtg system for mobile ant
OB-SB	3/4-24 spring and 1/2" hole base
Diamond K-400-3/8C	3/4-24 trunk mt, 6' coax
Diamond C-110	10' ext cable; K-400-3/8C

PDK Technologies (PDK)

LiteFlare 3-Pk	3-pack red LiteFlare/carry bag
----------------	--------------------------------

Palomar Engineers (PAL)

RFI-4	RF interference kit
-------	---------------------

PALSTAR (PLS)

AT-2K	2000w PEP roller inductor antenna tuner
AT-2KD	2000w PEP differential antenna tuner
4:1 current balun	for AT-2K/AT-2KD
AT-4K	2.5kw T-match edgewound roller ind tuner
AT-5K	3.5kw T-match ceramic roller ind tuner
BT-1500A	1500w PEP balanced antenna tuner
DL-2K	2000w 30MHz dummy load w/fan
HF-AUTOTUNE	2kw auto tuner/base/remote
ZM-30	1-30MHz antenna analyzer

PENETROX (PEN)

Penetrox A	4 oz tube for antennas
------------	------------------------

Poles & Holders (POL)

PNH-22 Deluxe	22' fg telescoping pole
LM-22	RV ladder mount
TM-22	Tire mount

POLYPHASER (PLY)

LIGHTNING PROTECTION

CU-SPGP	Copper single point ground panel
IS-50NX-C2	125-1000 375/125/50w N flange
IS-50UX-C0	1.5-400 2kw/375/125w flange mt
IS-50UX-C1	50-700MHz 375/125w flange mt
IS-B50LN-C2	125-1000 375/125/50w N bulkhead
IS-B50LU-C0	1.5-400 2kw/375/125w bulkhead
IS-B50LU-C1	50-700 375/125w bulkhead mt
IS-RCT	8-wire rotor control protector
J-1	1/2" to 1 1/8" bronze transition clamp
1C-112S	#6-#1 wire - 1 1/2" strap clamp bond
IX-1TW	Single phone line protector
UNI-KIT 2CC	Ground kit; coax to copper

PowerFilm Solar (POF)

R-15-600	10w rollable solar panel
R-28	28w rollable solar panel
RA-13	PowerPole adapter

POWERWERX (POW)

AP0-3-PP	Voltage/time controlled power switch
BT-Junior	Battery Tender Junior charging sys
BY-T	OEM-T inline Powerpole splitter
C20-5	5' 15A cig plug to T-male connector
C2P-5	5' 15A cig plug to Powerpole
CigBuddy	Cigarette lighter plug to Powerpole
Clip-2-PP	Alligator clips w/fuse to Powerpole
CT-2	Crimp tool for 15/30/75A Powerpole
EX-14-5	5' 14ga Powerpole extension cable
HF4-PP	New stype HF 4p to Powerpole adapter
HF6-PP	6p male Molex to Powerpole adapter

Powerwerx - continued AES Price

HF650C-HF4 6p female Molex to new style HF 4p
LF-1-PP 16A DC noise filter w/30A Powerpoles
P20-5 5' Powerpole to T-male connector
PPH-10 10ga fuseholder w/45A Powerpoles ..
PPH-12 12ga fuseholder w/30A Powerpoles ..
PP30-10 10-pair 30A Powerpole connectors ..
PP30-25 25-pair 30A Powerpole connectors ..
PP45-10 10-pair 45A Powerpole connectors ..
PP45-25 25-pair 45A Powerpole connectors ..
110668-5 Retention clips for PP30/45 (5) ..
PPC-1 Powerpole weather resistant end cap
RT-1 Insertion/removal tool for contacts
TRICrimp Crimp tool for 15/30/45A Powerpoles
TRIdies Optional 6-die set for TRICrimp ..
PP75-08-2 2-pr 75A Powerpole connectors/8 ga
PSC-10-14 6' 45A Powerpole to 1/4" ring term
PSC-10-38 6' 45A Powerpole to 3/8" ring term
PS-4 4-terminal 45A Powerpole splitter
PS-4 Plus 4-terminal 45A "X" Powerpole splitter
PS-6AA 8-terminal 45A Powerpole tap splitter
PS-8 8-terminal 45A Powerpole splitter
RB-08-25 25' 8ga red/black DC pwr zip cord
RB-10-25 25' 10ga red/black DC pwr zip cord
RB-12-25 25' 12ga red/black DC pwr zip cord
RB-12-50 50' 12ga red/black DC pwr zip cord
RB-14-25 25' 14ga red/black DC pwr zip cord
RGH-10 10g fuseholder/45A Powerpole/ring ..
RGH-12 12g fuseholder/30A Powerpole/ring ..
SOC-PP 15A cig socket to Powerpole
SS-30DV 25A switch ps, 30A surge/Powerpoles
SS-30RM2 Dual rack mt 25A switch ps, 30A surge
PSC-10-14 6' 45A Powerpole to 1/4" ring term
Watt-BLU-PP Watt's Up meter w/Powerpoles
WP30-10 10-pair 30A Powerpole connectors
WP30-25 25-pair 30A Powerpole connectors
WP45-10 10-pair 45A Powerpole connectors
WP45-25 25-pair 45A Powerpole connectors
110668-5 Retention clips for PP30/45 (5) ..
PPC-1 Powerpole weather resistant end cap
RT-1 Insertion/removal tool for contacts
TRICrimp Crimp tool for 15/30/45A Powerpoles
TRIdies Optional 6-die set for TRICrimp ..

PRYME (PRE)

AL-800 2m/440 34" BNC rubber duck ant
RD-8 2m/440/900 6.5" BNC duck
RD-9 2m/440/900 7" BNC duck
RD-9SMA 2m/440/900 7" SMA duck
RD-78 2m/440/900 15" BNC whip
RD-98 2m/440 17" BNC whip
RD-98SMA 2m/440 17" SMA whip
SPM-100 Spkr/mic; ADI/Alinco/Icom/Yaesu ...
SPM-101 Spkr/mic for Kenwood
SPM-102 Spkr/mic; Yae FT50/60/VX1/3/5/150
SPM-400A Boom/mic; ADI/Alinco/Icom/Yaesu
SPM-402A Boom mic; FT50/60/VX1/3/5/150 ..
SPM-800B Open face in-helmet cycle headset Δ
SPM-800F Full face in-helmet cycle headset Δ

QSL Card Holders (ART)

QSL Card Holders, pack of 3, 20 cards/holder

RCA (RCA)

RP-7887 Super Radio AM/FM portable Rcvr Δ

RF PARTS (See Diamond)

RT SYSTEMS (RTS)

KRS-271 Prog soft/USB cable; TM-271A/281A
KRS-D72 Programming software; TH-D72A ...
KRS-D710 Prog software/USB cable; TM-D710A
KRS-F6 Prog software/USB cable; TH-F6A ...
KRS-V71 Prog software/USB cable; TM-V71A
WCS-80 Prog software/USB cable; IC-80AD ..
WCS-91 Prog software/USB cable; IC-91A/AD

RT Systems - continued AES Price

WCS-92* Prog software/USB cable; IC-92AD
*Icom OPC-1797 adapter cable also required
WCS-208 Prog software/USB cable; IC-208H
WCS-2200 Prog software/USB cable; IC-2200H
WCS-2820 Prog software/USB cable; IC-2820H
WCS-7000 Prog software/USB cable; IC-7000
WCS-7200-USB Prog soft/USB cable; IC-7200
WCS-9100-USB Prog soft/USB cable; IC-9100
WCS-D880 Prog software/USB cable; ID-880H
WCS-T70 Prog software/USB cable; IC-T70A
WCS-V80 Prog software/USB cable; IC-V80 ..
WCS-V8000 Prog software/USB cable; IC-V8000

RTS-03 USB to serial adapter
USB-RTS-05 USB D-Star data cable

RADIO OASIS (RAO)

G5RV/STD 80-10m 102' G5RV antenna
G5RV/JUNIOR 40-10m 51' G5RV antenna
G5RV/MINI 20-10m 25.5' G5RV antenna

RADIOWAVZ (RAD)

160MC/BALUN 250' 160m dipole w/1:1 balun
80MC/BALUN 130' 80m dipole w/1:1 balun ..
40MC/BALUN 66' 40m dipole w/1:1 balun
30MC/BALUN 46' 30m dipole w/1:1 balun
20MC/BALUN 32' 20m dipole w/1:1 balun
17MC/BALUN 26' 17m dipole w/1:1 balun
15MC/BALUN 22' 15m dipole w/1:1 balun
12MC/BALUN 19' 12m dipole w/1:1 balun
10MC/BALUN 17' 10m dipole w/1:1 balun
160M-DBZ 265' 160m double bazooka ant ...
75M-DBZ 127' 75m double bazooka ant
40M-DBZ 70' 40m double bazooka ant
DX-160 246' 160m OCF windom antenna
DX-160SH 147' 160m short OCF windom ant
DX-80 136' 80m OCF windom antenna
DX-80SH 70' 80m short OCF windom ant
DX-40 67' 40m OCF windom antenna
DX-40SH 37' 40m short OCF windom ant

B-11A 1:1 160-6m voltage balun
B-11ISO 1:1 160-6m isolation balun
B-14VA 4:1 160-10m voltage balun
B-19TX 9:1 160-10m isolation balun
DPH Dipole head w/eye hook

EFH-10 10m 16.75' end fed half wave antenna
EFH-20 20m 33' end fed half wave antenna ..
EFH-40 40m 66' end fed half wave antenna ..
EFH-80 80m 132' end fed half wave antenna
EFT-110 1.7-30 MHz 110' end fed inverted V
FTD-20 7-30 MHz 20' folded dipole
FTD-45 3-30 MHz 45' folded dipole
FTD-65 3-30 MHz 65' folded dipole
FTD-90 1.8-30 MHz 90' folded dipole

FT-DMK Mtg kit; folder dipole w/3 pole installation
G5RV 102' G5RV antenna, 28' tall
G5RV JR 51' G5RV antenna, 14' tall
G5RV LITE 67' G5RV antenna, 28' tall
G5RV MAX 204' G5RV antenna, 56' tall

HP-B11C 1:1 current choke high power balun
HP-B11D 1:1 current dipole high power balun
HP-B14C 4:1 current high power balun
HP-B14VT 4:1 tuner extender high power balun
HP-B19LW 9:1 long wire high power balun ...
HP-ISOX High power RF isolation transformer

J8X-U1 1.5' RG-8X coax/silver teflon PL259s
J8X-U3 3' RG-8X coax/silver teflon PL259s ...
J8X-U6 6' RG-8X coax/silver teflon PL259s ...
J8X-U12 12' RG-8X coax/silver teflon PL259s
J8X-U25 25' RG-8X coax/silver teflon PL259s
J8X-U50 50' RG-8X coax/silver teflon PL259s
J8X-U75 75' RG-8X coax/silver teflon PL259s
J8X-U15 100' RG-8X coax/silver teflon PL259s
PSTVAS-SMA 6m/2m/220/440 SMA ant sys for vest

AES Price

SGC (SGC)

51-82 Fan kit; continuous duty xmit SG500 Δ
54-14 SG-230 200w 1.8-30 MHz 12v Smartuner
54-15 SG-235 500w 1.8-30MHz 12v Smartuner
54-18 SG-237 100w PEP HF+6m mini Smartuner ...
54-22 SG-239 200w Smartuner
54-63 SmartLock; SG230/237/239 after 9/1/93
54-25 MAC-200 Smartuner/ant switch combo
70-14 ADSP2 DSP noise reduction speaker ..

SAMLEX (SAM)

FCP-1000 1A ps w/cigarette lighter socket ...D
SEC-1223 23A switching power supply w/fan
SEC-1235 30A switching ps w/fan, 35A surge
SEC-1235M 30A switch ps/fan/meters, 35A surge

SANGANE (SAN)

ATS-404 AM/FM/SW portable receiver w/case ...
ATS-505P AM/FM/SW portable receiver
ATS-606AP AM/FM/shortwave portable Rcvr...D
ATS-909 AM/FM/shortwave portable Rcvr ...D
ATS-909X AM/FM/shortwave portable Rcvr ...
RCR-2 AM/FM atomic clock radio
WFR-20 Wi-Fi internet radio & media player ..
WR-11 AM/FM wooden cabinet receiver

SEQUOIA (SEQ)

POCKET PC REF Pocket PC reference book ...
POCKET REF Pocket reference book

SHAKESPEARE (SHA)

396-1 3db 5' VHF marine ant, less mount Δ
5202 6db 8' VHF mar ant/chrome ferrule, less mt Δ
5206-C Econo 8' VHF mar ant/chrome ferrule, no mt Δ
4187 Stainless steel ratchet mountΔ
5215 3db 36" sailboat VHF marine ant w/mt Δ
420 3db 5' VHF marine ant w/fold-down mt Δ
PL-258-CPB-G Solderless splice; RG-8X/58 ..
PL-259-CPB-G Solderless PL-259; RG-8X/58

SIGNALINK (SIG)

SL-USB-5PD 5-pin DIN data/accessory port ..
SL-USB-6PM 6-pin mini DIN data/accessory port
SL-USB-8PD 8-pin DIN data/accessory port ..
SL-USB-8R 8-pin round mic connector
SL-USB-13I Icom 13-pin DIN accessory port ..
SL-USB-13K Kenwood 13-pin DIN accessory port

Smiley Antenna (SMI)

14610 2m BNC Super Stick ¾ ww telescopic ant
14620 2m BNC ¾ Slim Duck rubber ant
14626 2m SMA ¾ Slim Duck rubber ant
14650 2m BNC rubber duck antenna
14656 2m SMA rubber duck antenna
14680 2m ½ wave BNC whip/flex coil
22050 220 BNC rubber duck antenna
22200 2m/220 BNC Thin Stick ¾ wave tele whip ..
27000 2m/220/440 BNC gain telescopic whip
27006 2m/220/440 SMA gain telescopic whip
44010 440 BNC Super Stick ¾ ww tele ant
44020 440 BNC ¾ Slim Duck rubber ant
TAQ-2 2m ¾ wave stainless whipΔ

SOLARCON (SOL)

A-99 10m/CB 17' 8" fiberglass base ant
GPK-1 Ground plane radial kit

SONY (SON)

ICF-SW7600GR AM/FM/SW portable Rcvr

STICKY PAD (STI)

13810 7/8" x 4/8" sticky pad for handhelds, etc
13820 8/8" x 6/8" sticky pad for larger items

AES Price

STORM COPPER (STO)

SCGB-HAM-6SK 2x6 10 hole copper grounding kit
SCGB-HAM-8SK 2x8 16 hole copper grounding kit

Synthetic Textiles (SYN)

100' 3/8" black double braided rope
100' 3/16 3/8" black double braided rope
100' 5/16 3/8" black double braided rope
350' 3/8" black double braided rope

TARHEEL Antennas (TAR)

Little Tarheel II 80-6m 200w PEP motorized ant
(AMR) SDC-102 Prog screwdriver controller
(DIA) K-400-3/8C Tnk mt w/6.5' cable; 3/8-24
100A-HP Pack 80-10m 1.5kw PEP motorized ant
(AMR) SDC-102 Prog screwdriver controller
Other Tarheel models and colors are available on special
order. Please call for information.

TENERGY (TEN)

10321 4pk 1.2v 2000mah low self-discharge AA NiMH
40333 4-pack AA alkaline batteries
TN156 4 AA/AAA NiMH LCD battery charger ..
TN323 Dual USB car charger

Terk Technologies (TER)

Advantage Indoor passive fine-tunable AM ant
HDTV-I Indoor UHF/VHF HDTV antenna
LF-30S 2.4GHz wireless vid/aud sys/rem features
PI-B Indoor AM/amplified FM loop antenna ..
Tower Indoor AM/amplified FM tower ant

Times Microwave (TMS)

LMR-400 Standard 3/8" coax cableper ft.
LMR-400500 ft. Roll
LMR-400-DB Watertight 3/8" coax cable per ft.
LMR-400-DB500 ft. Roll
LMR-400-UF UltraFlex 3/8" coax cable ...per ft.
LMR-400-UF500 ft. Roll

TIMEWAVE (TIM)

ANC-4 RF noise canceller
AC-8 13.5vdc 1A adapter
DSP-599zx All-mode DSP noise filter
AC-8 12vdc 1A adapter
PK-96/100K 9600 baud controller/128k RAM
PK-96/100/USB 9600 controller/128k RAM/USB
AC-8 12vdc 1A adapter
PK-232/PSK Multimode controller w/sound card
PK-232/USB Multimode controller/sound card/USB D
PK-232SC Multimode controller/sound card/USB
AC-8 12vdc 1A adapter
TZ-900N .2-55MHz type N antenna analyzer .
TZ-900S .2-55MHz S0239 antenna analyzer .

TRIPP LITE (TRI)

ISOBAR-8 ULTRA 8 outlet surge suppress/LEDs
SUPER-7 7 outlet surge suppressor
SUPER-7+TEL 7 outlet/fax modem surge

TUBES (TUB)

6146B Tube
12BY7A Tube
3-500ZG-RFP High dissipation tube (3-500Z) Δ
3-500ZG High dissipation tube (3-500Z)
572B Tube
811A Tube

TURBO TUNER (TUR)

TT-857/897 Screwdriver controller; FT-857/897
TT-7000 Screwdriver controller; IC-7000 only .
TT-Icom Controller; 7067/18746/756/7000/7200/7600

TWEAKED (TWE)

TATCBKV2 Black stereo earbuds
TATCBKMIC Black earbuds/mic; Smartphones

AES Price

US TOWER (UST)**FREE STANDING CRANK-UPS (not for T-X)**

TX-438 38' crank-up towerT
TX-455 55' crank-up towerT
TX-472 72' crank-up towerT
TX-472MDP 72' crank-up w/motor driveT
TX-489MDPL 89' crank-up w/motor drive ...T

FREE STANDING HD CRANK-UP TOWERS

HDX-538 38' crank-up towerT
HDX-555 55' crank-up towerT
HDX-572MDPL 72' crank-up w/motor drive .T
HDX-589MDPL 89' crank-up w/motor drive .T
HDX-689MDPL 89' HD crank-up w/motorT
HDX-5106MDPL 106' HD crank-up w/motor T

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS 33' crank-up towerT
TMM-433HD 33' HD crank-up towerT
TMM-541SS 41' crank-up towerT

ACCESSORIES FOR CRANK-UP TOWERS

CX-2 Coax arms (2) for 2-section tower
CX-3 Coax arms (3) for 3-section tower
CX-4 Coax arms (4) for 4-section tower
CX-5 Coax arms (5) for 5-section tower
CX-6 Coax arms (6) for 6-section tower

IV-16 Inverted vee arm for MA's

M-5 2" OD 5' mast extension for MA's

M-10 2" OD 10' mastT

M-15 2" OD 15' mastT

M-15R 2" OD 15' reinforced mastT

M-20 2" OD 20' mastT

M-20R 2" OD 20' reinforced mastT

CM-20 2" OD 20' cromolly mastT

HDP Service platformT

MD-75 Heavy duty 1 HP motor driveT

MDP-750* Pull-down drive; TX-472/HDX-555 T

MDPL-1000* Pull-down drive; HDX-572T

*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately

MRF Mast raising fixture

MCL-100 Limit switch package

RMC-1000 Remote control w/limit switch

TRX-80 Raising fixture; TX-438/455; HDX-538/555 T

TRX-80HD Raising fixture; TX-472/489; HDX-572/589 T

TRX-100HD Raising fixture; HDX-689/5106 T

TB-2US Thrust bearing; 2" mast w/2 flange holes

MA-SERIES TUBULAR TOWERS

MA-40 40' crank-up tubular towerT

MA-550 55' crank-up tubular towerT

MA-550MDP* 55' crank-up tubular w/motor T

MA-770* 70' crank-up tubular towerT

MA-770MDP* 70' crank up tubular w/motor T

MA-850* 85' crank-up tubular towerT

MA-850MDP* 85' crank-up tubular w/motor T

*MA-550MDP, MA-770MDP and MA-850MDP require MCL-100 or RMC-1000. MA-770 and MA-850-series requires MAB or MARB-series base

MA-SERIES ACCESSORIES

CX-2M Coax arms (2) for MA-40

CX-3M Coax arms (3) for MA-550

CX-4M Coax arms (4) for MA-770

CX-5M Coax arms (5) for MA-850

MAB-40 Hinged base for MA-40T

MAB-550 Hinged base for MA-550T

MAB-770 Hinged base for MA-770T

MAB-850 Hinged base for MA-850T

MAF-40 Raising fixture for MA-40

MAF-550 Raising fixture for MA-550T

MAF-770 Raising fixture for MA-770T

MAF-850 Raising fixture for MA-850T

MARB-40 Rotor base accessory for MA-40 ..T

US Tower - continued

AES Price

MARB-550 Rotor base accessory for MA-550 T

MARB-770 Rotor base accessory for MA-770 T

MARB-850 Rotor base accessory for MA-850 T

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. You can obtain shipping charges from any AES salesperson by phone or email. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

UNADILLA (See W2AU)**UNIDEN** (UNI)

PC-68 Elite AM Mobile CB w/WX alert

PC-68LTW AM Mobile CB w/WX alert

PC-68XL AM Mobile CB

PC-78 Elite AM Mobile CB w/WX alert

PC-78LTW AM Mobile CB w/WX alert

PC-78XL AM Mobile CB

PRO-510XL AM Mobile CB

PRO-520XL AM Mobile CB

PRO-538W AM Mobile CB w/WX

UNIDEN BEARCAT

Home Patrol Easy to use programmed scanner

BC-340CRS 100 ch scanner w/SAME WX

BC-355C 300 ch prog/service search

BC-370CRS 300 ch scanner/800/SAME WX ...

BCD-996XT Prog scanner/trunk/SAME WX/dig

BCT-8 Preprog warning scan/800/trunk/AC ps

BCT-15X Prog scanner/800/trunk

BC-72XLT 100 ch pocket scanner

BC-95XLT 200 ch prog pocket scanner/800 ..

BC-346XT Pocket scanner w/trunking

BADG0687001 DC cord

BCD-396XT Pocket scan/trunking/SAME/digital

BADG0687001 DC cord

BP-180 Extra battery for BC-245XLTΔ

Unified Microsystems (UNM)

VK-64 CW/voice keyer

KC-4 CW cable for VK-64 to transceiver

VKC-8 8-pin audio cable for VK-64 to Xcvt

XT-4 Small size CW memory keyer

KC-4 CW cable for XT-4 to transceiver

W9XT Contest card for IBM PC & compatible Δ

Universal Towers (UNT)

4-30 4 sq ft wind load 30' alum towerT

9-30 9 sq ft wind load 30' alum towerT

12-30 12 sq ft wind load 30' alum towerT

21-30 21 sq ft wind load 30' alum towerT

23-30 23 sq ft wind load 30' alum towerT

35-30 35 sq ft wind load 30' alum towerT

4-40 4 sq ft wind load 40' alum towerT

7-40 7 sq ft wind load 40' alum towerT

9-40 9 sq ft wind load 40' alum towerT

12-40 12 sq ft wind load 40' alum towerT

15-40 15 sq ft wind load 40' alum towerT

21-40 21 sq ft wind load 40' alum towerT

23-40 23 sq ft wind load 40' alum towerT

4-50 4 sq ft wind load 50' alum towerT

5-50 5 sq ft wind load 50' alum towerT

7-50 7 sq ft wind load 50' alum towerT

9-50 9 sq ft wind load 50' alum towerT

15-50 15 sq ft wind load 50' alum towerT

16-50 16 sq ft wind load 50' alum towerT

4-60 4 sq ft wind load 60' alum towerT

6-60 6 sq ft wind load 60' alum towerT

7-60 7 sq ft wind load 60' alum towerT

9-60 9 sq ft wind load 60' alum towerT

Universal - continued

AES Price

3-70	3 sq ft wind load 70' alum tower	T
4-70	4 sq ft wind load 70' alum tower	T
6-70	6 sq ft wind load 70' alum tower	T
7-70	7 sq ft wind load 70' alum tower	T
3-80	3 sq ft wind load 80' alum tower	T
4-80	4 sq ft wind load 80' alum tower	T
2-90	2 sq ft wind load 90' alum tower	T
B-14	Base for tower	.....
B-18	Base for tower	.....
B-22	Base for tower	.....
B-26	Base for tower	.....
Extra 14"	stubs (between base & tower)	.set
Extra 18"	stubs (between base & tower)	.set
Extra 22"	stubs (between base & tower)	.set
Extra 26"	stubs (between base & tower)	.set

RFM-11	Flat roof mt for guyed tower	.....
RFM-14	Flat roof mt for guyed tower	.....
RFM-18	Flat roof mt for guyed tower	.....
RFM-22	Flat roof mt for guyed tower	.....
RFM-26	Flat roof mt for guyed tower	.....
R-11	Rotor mount	.....
R-14	Rotor mount	.....
R-18	Rotor mount	.....

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

11 Top	11" top tower section	T
14 Top	14" top tower section	T
18 Top	18" top tower section	T
14 Taper	14" taper tower section	T
18 Taper	18" taper tower section	T
22 Taper	22" taper tower section	T
26 Taper	26" taper tower section	T
11 Straight	11" straight tower section	T
14 Straight	14" straight tower section	T
18 Straight	18" straight tower section	T
22 Straight	22" straight tower section	T
26 Straight	26" straight tower section	T

HD35-40	35 sq ft wind load 40' alum tower T	
HD21-50	21 sq ft wind load 50' alum tower T	
HD9-60	9 sq ft wind load 60' alum tower ...T	
HD16-60	16 sq ft wind load 60' alum tower T	
HD21-60	21 sq ft wind load 60' alum tower T	
HD8-70	8 sq ft wind load 70' alum tower ...T	
HD12-70	12 sq ft wind load 70' alum tower T	
HD17-70	17 sq ft wind load 70' alum tower T	
HD21-70	21 sq ft wind load 70' alum tower T	
HD8-80	8 sq ft wind load 80' alum tower ...T	
HD9-80	9 sq ft wind load 80' alum tower ...T	
HD11-80	11 sq ft wind load 80' alum tower T	
HD12-80	12 sq ft wind load 80' alum tower T	
HD16-80	16 sq ft wind load 80' alum tower T	
HD4-90	4 sq ft wind load 90' alum tower ...T	
HD8-90	8 sq ft wind load 90' alum tower ...T	
HD11-90	11 sq ft wind load 90' alum tower T	
HD4-100	4 sq ft wind load 100' alum tower T	
HD8-100	8 sq ft wind load 100' alum tower T	

B-30	Base for HD tower	.....
Extra 30"	stubs (between base & tower)	.set
RFM-30	Flat roof mt for guyed tower	.....
30 Taper	30" taper tower section	T
30 Straight	30" straight tower section	T

SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

1-5/8SC	Flange bearing	.....
2-3/16SC	Flange bearing	.....
Top Plate	Flange plate welded to top section	.....
1-1/4" OD	x 5 ft aluminum mast	T
1-1/4" OD	x 10 ft aluminum mast	T
1-1/2" OD	x 10 ft aluminum mast	T

Universal - continued

AES Price

2" OD x 8 ft	aluminum mast	.....
2" OD x 16 ft	aluminum mast	T

All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. You can obtain shipping charges from any AES salesperson by phone or email. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

VANCO (VCO)

CL-3	Extra heavy duty alligator clip leads (10)	
SWR-1	SWR/field strength meter	.....
SWR-3	Mini SWR meter	.....

VECTRONICS (VEC)

DL-300M	300w 150MHz dummy load	.....
DL-650M	1.5kw 650MHz dummy load	.....
DL-2500	2.5kw 150MHz dummy load	.....
HFT-1500	1.5kw antenna tuner	.....
HPF-1	High pass filter, 75 or 300 ohms	.....
HPF-2	Deluxe high pass filter, 75 or 300 ohms	.....
LP-30	1.5kw low pass filter	.....
LP-2500	2.5kw low pass filter	.....
PM-30HF	300/3kw HF/6m wattmeter	.....
PM-30UV	30/300w 2m/220/440 wattmeter	..
VC-300DLP	300w antenna tuner	.....
VC-300M	300w mobile antenna tuner	.....
121K	Crystal radio set kit	.....
131K	Aircraft receiver kit	.....
201K	CW keyer kit	Δ
422K	FM broadcast SCA decoder kit	Δ
830K	Super SSB audio filter kit	.....
1140K	40m receiver kit	.....
1240K	40m QRP CW transmitter kit	.....
1290K	AM radio transmitter kit	.....

VELLEMAN (VEL)

AVW-089	3 channel audio/video switcher	.....
DVM-810	3½ digit digital multimeter	.....
DVM-850BL	Deluxe 3½ digit DMM w/holder	...
EL-301	30 in 1 electronic lab kit	.....
EL-1301	130 in 1 electronic lab kit	.....
EL-3001	300 in 1 electronic lab kit	.....
K/TF	75-piece cable ties	.....
MP-255FM	25w megaphone	.....
SOL-8	13w solar panels w/case	.....
SOLD-250GLF	.55 lb lead-free solder, .04 dia	.....
T-5S	PVC insulation tape	.....
TLM-2	Test lead set w/banana plugs	.....
TLM-10	Test probe set	.....
VT-BT6	33-piece screwdriver bit set	.....
VT-COAX	Coax stripper; RG-58/59/62/6	.....
VT-02	Heavy duty desoldering pump	.....
VT-HD03U	62-pc rechargeable precision drill set	.....
VT-LAMP2BNU	Hobby magnifier lamp w/table mt	.....
VT-M468L	Crimp tool for RJ-11/12/45	.....
VT-SET	5-piece pliers	.....
VT-SET3N	6-pc electronics screwdriver set	..D
VT-SET30	6-pc electronics screwdriver set	...
VT-TS	25-piece hobbyist tool set	.....

VIBROPLEX (VIB)

100	Original Presentation Super deluxe bug	
105	Original Deluxe Bug	.....
110	Original Standard Bug	.....
115	VibroKeyer Deluxe Paddle	.....
120	VibroKeyer Standard Paddle	.....
125	Iambic Presentation Paddle	.....
130	Iambic Deluxe Paddle	.....
135	Iambic Standard Paddle	.....
145	Triangular Brass Racer Iambic paddle	..

Vibroplex - continued

AES Price

150	Square Brass Racer Iambic paddle	.....
155	Standard straight key	.....
160	Deluxe straight key	.....
165	Deluxe Hand key/Iambic Paddle double	..
190	Square Racer Standard Iambic paddle	.....
195	Blue Racer 2000 Std Millennium Bug	...
200	Code Warrior Junior Paddle	.....
CP-3	Cord & plug for Iambic & Vibrokeyer	....

WA1FFL (WA1)

Ladder-Loc 450 ohm ladderline center attach

W2AU (Unadilla) (W2A)

W2AU 1:1	160-10m balun, lightning arrestor	
W2AU 4:1	160-10m balun, lightning arrestor	
W2AU Beam Balun, 1:1	HF balun	.....
W2DU-HF 1:1	1.8-30 MHz choke balun	.....
W2DU-VHF 1:1	30-250 MHz choke balun	.....
W2DU Beam Balun 40-10m 1:1	HF choke balun	

HA	AN-sulator center insulator	.....
HE	END-sulator end insulators	pair
KW-80CW	Reyco 80m CW ant traps	pair
KW-80F	Reyco 75m phone ant traps	pair
KW-60	Reyco 60m antenna traps	pair
KW-40	Reyco 40m antenna traps	pair
KW-30	Reyco 30m antenna traps	pair
KW-20	Reyco 20m antenna traps	pair
KW-17	Reyco 17m antenna traps	pair
KW-15	Reyco 15m antenna traps	pair
KW-12	Reyco 12m antenna traps	pair
KW-10	Reyco 10m antenna traps	pair

W2AU/W2VS NoWire 5band ant kit (use tuner) less wire

W4RT (W4R)

MH-31	hand mic w/OBP installed; 817/47/57/97	
Mini VNA	Software defined antenna analyzer	
Mini VNA PRO	Dlx software defined ant analyzer	
0BF-703/718-DIY	CW & SSB Collins filts;JC703/718	
0BF-817/ND-DIY	CW & SSB Collins filts;FT-817	
OBP-STD	Speech compress; 817/47/57/97 handmic	
OPF-Y-CW-300	300Hz CW filter;FT817/57/97/2000	
OPF-CW	500Hz CW filter; FT817/57/97/2000	
OPF-SSB	2.3KHz Collins SSB filter; FT817/57/97	

W5YI (W5Y)

BCOM	Basic Communications Electronics book	
BDIG	Basic Digital Electronics book	.....
BELC	Basic Electronics book	.....
ECS-12	Extra upgrade software w/manual	...
GROL-09	Commercial license elements 1/3/8 manual	
GRSP-09	Commercial study software w/GROL book	
GSTD	Getting Started in Electronics book	.....
GUS-11	General upgrade software w/manual	
GW05/CD	Gordon West 8 ea 0-5 wpm code CD's	
GWCT	Gordon West refresher code course CD's	
GWEM-12	Gordon West Extra study manual	..
GWEW-12	Gordon West 6 ea Extra theory CD's	
GWGM-11	Gordon West General study manual	
GWGW-11	Gordon West 4 ea General theory CD's	
GWTM-10	Gordon West Tech study manual	...
GWTW-10	Gordon West 4 ea Tech theory CD's	
HOS-12	Ham operator software/ (all classes)	
HOSB-12	Ham op soft/3 books (all classes)	..
METR	Using Your Meter book	.....
Mini-1	Timer, op amp & optoelectronics	.....
Mini-2	Science & communications	.....
Mini-3	Electronic sensor circuits	.....
Mini-4	Electronic formulas, symbols & circuits	.....
NCS-10	Technician software w/manual	.....
PT-97	Part 97 Rule Book	.....
WWLG	Worldwide Listening Guide	.....

WAHL ISOTIP (WAH)

7740	Quick charge cordless soldering iron kit	
7971	30 minute butane soldering iron	.....

Wahl - continued

7974 120 minute butane soldering iron

WELLER (WEL)

7200PK 75w soldering gun kit

7235 Extra standard tips (2) for 7200PK ...

SP-23LK 25w soldering iron kit

WP-25 25w professional soldering iron

ST-4 3/16" screwdriver tip for WP-25

ST-5 1/2" single flat tip for WP-25

W-60P 60w temp controlled soldering iron ...

WESD51 50w adjustable soldering station ...

WSTA3 Pyrophen portable LP soldering iron ...

WTCPT 60w temp controlled soldering stn ...

West Mtn Radio (WES)

CBA/TEMP Temperature probe for CBA-2 ...Δ

CLR/DSP ClearSpeech DSP noise reduction processor

CLR/SPKR ClearSpeech DSP noise reduction spkr

CS-1 COMspkr speaker system for ham station PC

CW/SWITCH Stand alone 2-rig CW bk-in switch

ISO/PWR Auxiliary battery isoator

PG-40S PWRgate backup power sys w/charger

PWRguard 40A over/under voltage protector D

PWRguardPlus 40A over/under voltage protector

PWRcheck DC pwr analyzer/wattmeter/monitor

RB/DU/CUSB Rigblaster Duo; 8-pin/RJ-45 ...

CW/SWITCHDUO 2-rig CW bk-in switch; RB/DU

FT100/CBL 3' cable; Yaesu RJ-45/6-wire ...

RB/PR/CUSB Rigblaster Pro; 8-pin/RJ-45 ...

CATMINI/CBL Yaesu rig control cable

CIV/CBL Icom/TenTec rig control cable

FT100/CBL 3' cable; Yaesu RJ-45/6-wire ...

RB/AD/CUSB Rigblaster Advangage; 8p/RJ45

CATMINI/CBL Yaesu rig control cable

CIV/CBL Icom/TenTec rig control cable

PP/CW/CBL CW cable kit

RB/PL/CUSB Rigblaster Plus; 8-pin/RJ-45 ...D

RB/PL2/CUSB Rigblaster Plus II plug & play

CATMINI/CBL Yaesu rig control cable

CIV/CBL Icom/TenTec rig control cable

FT100/CBL 3' cable; Yaesu RJ-45/6-wire ...

PP/CW/CBL CW cable kit

RB/NO/CUSB Rigblaster nomic universal; 8pin/RJ45

FT100/CBL 3' cable; Yaesu RJ-45/6-wire ...

RB/PP* Rigblaster plug & play USB data/aux jack

*Call before ordering for proper configuration with radio

CATMINI/CBL Yaesu rig control cable

CIV/CBL Icom/TenTec rig control cable

PP/CW/CBL CW cable kit

RPA/I8D Icom 8-pin DIN acc1 jack adapter

RPA/I13D Icom 13-pin DIN aux jack adapter

RPA/K13D Kenwood 13-pin DIN aux jack adapt

RR/4004/USBC Rigrunner USB 40A 4outlet/cbl/conn

RR/4005/C Rigrunner 40A 5outlet/cbl/connectors

RR/4005H/C Rigrunner horizontal 5outlet/cbl/conn

RR/4008/C Rigrunner 40A 8outlet/cbl/connectors

RR/4008H/C Rigrunner horizontal 8outlet/cbl/conn

RR/4010S/C Rigrunner FET 9outlet/cbl/connectors

RR/4012/C Rigrunner 40A 12outlet/cbl/connectors

RR/8012/C Rigrunner 80A 12outlet/cbl/connectors

C30/PK/12 12-pair 30A PowerPole connectors

C45/PK/12 12-pair 45A PowerPole connectors

PWR/TOOL PWRcrimp PowerPole crimp tool

RT-1 Rigtalk USB rig control interface

CATMINI/CBL Yaesu rig control cable

CIV/CBL Icom/TenTec rig control cable

WHAT/MTR Whattmeter watt/volt/amp/amp hr D

Wiley Publishing (WIE)

GPS Dummies Gps for Dummies book

HR for Dummies Ham Radio for Dummies book

WX for Dummies Weather for Dummies book

WINEGARD (WIN)

CX-0625 25' RG-6 TV coax w/F connectors ...

AES Price

Winegard - continued

CX-0650 50' RG-6 TV coax w/F connectors ...

CX-0675 75' RG-6 TV coax w/F connectors ...D

CX-6100 100' RG-6 TV coax w/F connectors ...

HD-7010 9 el VHF/13 el UHF 66.5" bm HDTV ant

HD-7084P 28 el VHF/40 el UHF 131" bm HDTV ant

HD-9075P 26 el 60" boom UHF HDTV ant ...

HD-9095P 39 el 95" boom UHF HDTV ant

TV-2900 Outdoor TV matching transformer

WOUXUN (WOU)

KG-UV3D-2/220 2m/220 5w HT/batt/cgr..... S

KG-UV3D-2/440 2m/440 5/4w HT/batt/cgr ...

KG-UVA1 VHF/UHF 5/4w 16ch comm HT spec order

KG-UVA1X V/U 5/4w 16ch narrowband comm HT .

KG-UV6D V/U 5/4w 200ch narrowband comm HT D

KG-UV6X V/U 5/4w 200ch narrowband comm HT

WXAB AA battery case

WXANT2/440 Extra 2m/440 ham antenna ...

WXBNC Reverse SMA-BNC adapt (not KGU6D)

WXBTE Cig plug battery eliminator

WXLCLN Radio to radio cloning cable

WXHCB Extra 1700mah lith ion battery

WXHST Headset microphone

WLXTR Carrying case

WXS16 Reverse SMA-SO239 adapt (not 1X or 6D)

WXS PK Speaker/microphone

WXUSB 2-pin to USB programming cable ..

YAESU (YAE)

FTDX-9000 Contest 200w HF/6m Xcvr ...DS Call/Web

FTDX-9000 Contest and installed accessories (DS) are drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

DMU-9000 Data management unitDS

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MH-31B8 Extra hand microphone

MTU-160/DS 160m MTU unitDS

MTU-30/20/DS 30/20m MTU unitDS

MTU-80/40/DS 80/40m MTU unitDS

RXU-9000 Dual receive unitDS

VRF-9000 VRF unit for RXU-9000 (required) DS

SP-9000 Ext dual spkr sys/audio filts; D/Contest

TFT-9000 TFT display unitDS

YH-77STA Open-air type stereo headphones

FTDX-9000D Deluxe 200w HF/6m Xcvr ...DS

FTDX-9000D is drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MH-31B8 Extra hand microphone

SP-9000 Ext dual spkr sys/audio filts; D/Contest

YH-77STA Open-air type stereo headphones

FTDX-9000MP Hi Power 400w HF/6m Xcvr DS

FTDX-9000MP and installed accessories (DS) are drop-shipped prepaid in 48 states from Yaesu. Specify blue or umber display on radio.

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MH-31B8 Extra hand microphone

MTU-160/DS 160m MTU unitDS

MTU-30/20/DS 30/20m MTU unitDS

MTU-80/40/DS 80/40m MTU unitDS

SP-9000 Ext dual spkr sys/audio filts; D/Contest

TFT-9000 TFT display unitDS

YH-77STA Open-air type stereo headphones

FTDX-5000 200w HF/6m Xcvr

DMU-2000 Data management unit

FH-2 Remote keyboard

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MTU-160 u-tuning kit A for 160m

MTU-80/40 u-tuning kit B for 80/40m

MTU-30/20 u-tuning kit C for 30/20m

AES Price

Yaesu - continued

AES Price

SM-5000 Station monitor

SP-2000 External speaker w/audio filters .

T-9101556 Rotor control cable

XF-126CN 300Hz CW roofing filter

YH-77STA Open-air type stereo headphones

FTDX-5000D 200w HF/6m Xcvr/stn monitor

DMU-2000 Data management unit

FH-2 Remote keyboard

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MTU-160 u-tuning kit A for 160m

MTU-80/40 u-tuning kit B for 80/40m

MTU-30/20 u-tuning kit C for 30/20m

SP-2000 External speaker w/audio filters .

T-9101556 Rotor control cable

XF-126CN 300Hz CW roofing filter

YH-77STA Open-air type stereo headphones

FTDX-5000MP 200w HF/6m/mon/filt/OCXO

DMU-2000 Data management unit

FH-2 Remote keyboard

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MTU-160 u-tuning kit A for 160m

MTU-80/40 u-tuning kit B for 80/40m

MTU-30/20 u-tuning kit C for 30/20m

SP-2000 External speaker w/audio filters .

T-9101556 Rotor control cable

YH-77STA Open-air type stereo headphones

FT-2000 100w HF/6m DSP Xcvr/ps

FT-2000D 200w HF/6m DSP Xcvr/ps

(W4R) OPF-Y-CW-300 300Hz Collins CW filter

(W4R) OPF-CW 500Hz Collins CW filter

CT-119 Firmware upgrade cable; FT2000/D

DMU-2000 Data management unit

FH-2 Remote keyboard

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MH-31B8 Extra hand microphone

MTU-160 u-tuning kit A for 160m

MTU-80/40 u-tuning kit B for 80/40m

MTU-30/20 u-tuning kit C for 30/20m

SP-2000 External speaker w/audio filters .

T-9101556 Rotor control cable

YF-122C 500Hz Collins CW filter

YF-122CN 300Hz Collins CW filter

YH-77STA Open-air type stereo headphones

FT-950 HF/6m Xcvr/IF-DSP/tuner

CT-118 Control cable; FT-950 to Quadra

DMU-2000 Data management unit

DVS-6 Voice memory unit

FC-40 Automatic wire antenna tuner

FH-2 Remote keyboard

FP-1030A 25A ps, 30A surge w/meters

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MTU-160 u-tuning kit A for 160m

MTU-80/40 u-tuning kit B for 80/40m

MTU-30/20 u-tuning kit C for 30/20m

SP-2000 External speaker w/audio filters .

T-9101556 Rotor control cable

T-9023725 Extra DC cable

T-9207451 6.5' 10p DIN cbl; FT950/other amp

YH-77STA Open-air type stereo headphones

FT-450D Compact HF/6m Xcvr/IF-DSP/tuner

CT-118 Control cable; FT-450 to Quadra

FP-1030A 25A ps, 30A surge w/meters

ATAS-120A HF/6/2/430 motorized mob ant

ATBK-100 Antenna base kit; use w/base mt

FC-40 Automatic wire antenna tuner

MD-100A8X Desk mic w/tone control

MD-200A8X Deluxe high fidelity desk mic .

MH-31A8J Extra up-down hand mic

MHG-1 Carrying handle

MMB-90 Mobile mounting bracket

Yaesu - continued

AES Price

T-9023725	Extra DC cable
T-9207451	6.5' 10p DIN cbl; FT450/other amp
YH-77STA	Open-air type stereo headphones
FT-897D	HF/6m/2m/430 portable Xcvr/TCXO (BET) Yae Tune Control for FT-897 series ...
(W4R) MH-31	hand mic w/ OBP installed
(W4R) OBP-STD	Speech compressor for hand mic
(W4R) OPF-Y-CW-300	300Hz Collins CW filter
(W4R) OPF-CW	500Hz Collins CW filter
(W4R) OPF-SSB	2.3KHz Collins SSB filter ..
FP-30	Internal power supply
ADMS-4BU	Programming software/USB cable
ATAS-120A	HF/6/2/430 motorized mob ant
ATBK-100	Antenna base kit; use w/base mt
ATAS-25	40/20/15/10/6/2/430 7.2' port ant
CT-39A	Packet cable
CT-62	CAT interface cable
EDC-20	Extra DC cable
FC-30	Antenna tuner; bolts to FT-897
FC-40	Automatic wire antenna tuner
FNB-78	4.5ah NiMH batt (will accept 2) ...
CD-24	4-hr 12vdc charge adapter; FNB-78
PA-26B	110vac charger for CD-24
MD-100A8X	Desk mic w/tone control
MD-200A8X	Deluxe high fidelity desk mic .
MH-31A8J	Extra up-down hand mic
MH-36E8J	TTP mic
MH-59A8J	Remote control TTP mic
MLS-100	Mobile speaker
MMB-80	Mobile mounting bracket
T-9023225	Extra DC cable
YA-007FG	FG whip/bpr mt; 80-10m use tuner Δ
YF-122C	500Hz Collins CW filter
YF-122CN	300Hz Collins CW filter
YF-122S	2.3KHz Collins SSB filter
YH-77STA	Open-air type stereo headphones
FT-857D	Mini HF/6m/2m/430 Xcvr/DSP
FREE YSK-857 with FT-857D!	
(BET) Yae Tune Control for FT-857 series ...	
(W4R) MH-31	hand mic w/ OBP installed
(W4R) OBP-STD	Speech compressor for hand mic
(W4R) OPF-Y-CW-300	300Hz Collins CW filter
(W4R) OPF-CW	500Hz Collins CW filter
(W4R) OPF-SSB	2.3KHz Collins SSB filter ...
FP-1030A	25A ps, 30A surge w/meters
ADMS-4BU	Programming software/USB cable
ATAS-120A	HF/6/2/430 motorized mob ant
ATBK-100	Antenna base kit; use w/base mt
ATAS-25	40/20/15/10/6/2/430 7.2' port ant
CT-39A	Packet cable
CT-58	Band data cable; Yaesu amplifier ...
CT-62	CAT interface cable
EDC-20	Extra DC cable
FC-30	Antenna tuner
FC-40	Automatic wire antenna tuner
MD-100A8X	Desk mic w/tone control
MD-200A8X	Deluxe high fidelity desk mic .
MH-31A8J	Extra up-down hand mic
MH-36E8J	TTP mic
MH-59A8J	Remote control TTP mic
MLS-100	Mobile speaker
T-9023225	Extra DC cable
TCXO-9	TCXO unit, 0.5 ppm
YA-007FG	FG whip/bpr mt; 80-10m use tuner Δ
YF-122C	500Hz Collins CW filter
YF-122CN	300Hz Collins CW filter
YF-122S	2.3KHz Collins SSB filter
YH-77STA	Open-air type stereo headphones
YSK-857	Separation kit
FT-817ND	5w HF/6/2/430 Xcvr/FNB85/NC72B
(W4R) OBP-817/ND-DIY	CW & SSB Collins filts
(W4R) MH-31	hand mic w/ OBP installed
(W4R) OBP-STD	Speech compressor for hand mic
(W4R) OPF-Y-CW-300	300Hz Collins CW filter

Yaesu - continued

AES Price

(W4R) OPF-CW	500Hz Collins CW filter
(W4R) OPF-SSB	2.3KHz Collins SSB filter ..
ADMS-4AU	Programming software/USB cable
ATAS-25	40/20/15/10/6/2/430 7.2' port ant
CSC-83	Soft case w/side pocket for FT-817
CT-39A	Packet cable
CT-62	CAT interface cable
EDC-6	Extra DC cord; plug & wire only
FNB-85	9.6v 1400mah NiMH battery
MH-31A8J	Extra up-down hand mic
MH-36E8J	TTP mic
MLS-100	Mobile speaker
NC-72B	Extra nicad wall charger
TCXO-9	TCXO unit, 0.5 ppm
YA-007FG	FG whip/bpr mt; 80-10m use tuner Δ
YF-122C	500Hz Collins CW filter
YF-122CN	300Hz Collins CW filter
YF-122S	2.3KHz Collins SSB filter
FP-1030A	25A ps, 30A surge w/meters
SP-8	External speaker w/filters; Mk V/Field ....Δ
T-9018320	DC cable; FT-840/847/Field ....Δ
YA-007FG	FG whip/bpr mt; 80-10m use tuner Δ
YA-30	1.8-30 MHz broadband dipole ant
YH-77STA	Open-air type stereo headphones .
Quadra System V/AP1000 HF+6m amp/ps/tuner	
ADMS-3	Prog software/USB cable; VR-500 Δ
CSC-72	Soft carrying case for VR-500 ....Δ
CSC-76	Soft carrying case for VR-120/D ....Δ
DVS-4	Digital voice recorder; VR-5000 ....Δ
FNB-59	Nicad battery for VR-500 ....Δ
FNB-79	Nicad battery for VR-500 ....Δ
FTM-10R	50w 2m/40w 440 FM Xcvr/int mic
FREE MH-68B6J with FTM-10R!	
Bluetooth Kit	Kit w/BH-1/BU-1/CAB-1 ....D
CD-40	3 hour charger cradle for BH-1
NC-85B	Battery charger for CD-40
CT-M10	20' separation cable
CT-M11	External after-market headset cable
FEP-4	Earphone for other ear with BH-1 ...
MEK-M10	Microphone jack
MH-68A6J	Waterproof DTMF hand mic
MH-68B6J	Waterproof 3-key hand mic
MLS-200-M10	Waterproof external speaker
MMB-M10	Multi-angle stand bracket
MMB-M11	Multi-angle handle bar bracket
YHA-M10	2m/440 Q/3db 19.7" antenna
AMK-1	License plate bracket for YHA-M10
COX-2MM	6.6' coax cable for YHA-M10 ..
FTM-350AR	50w 2m/440/1w 220 FM Xcvr .
ADMS-350	Programming software/USB cable
BTk-4	Bluetooth kit;BH1A/BU1/CD40/NC85B D
BTk-5	Bluetooth kit;BH2A/BU1/CD40/NC85B
BU-1	Bluetooth radio adapter
CAB-1	Charger sleeve
CD-40	3 hour charger cradle for BH-1
NC-85B	Battery charger for CD-40
CT-132	20' separation cable
CT-133	GPS extension cable for FGPS-2
CT-135	Clone cable
CT-136	GPS antenna adapter for FGPS-2 ..
CT-140	Packet cable; DIN8 to Din6+Dusb9
CT-141	Packet cable; DIN8 to Din6
CT-142	Packet cable; DIN8 to Dusb9
FEP-4	Earphone for other ear
FGPS-1	Internal GPS unit
FGPS-2	External GPS unit
FPR-1	Monitor unit
FVS-2	Voice guide unit
MLS-200-M10	Waterproof external speaker
MMB-60	Quick release mobile mount
MMB-98	Suction cup mtg bkt (comes w/350AR)
FT-7900R	50w 2m/45w 440 FM Xcvr
FREE YSK-7800 with FT-7900R!	

Yaesu - continued

AES Price

ADMS-7900	Programming software/USB cable
CT-39A	Packet cable
MLS-100	Mobile speaker
MMB-60	Quick release mobile mount
T-9021715	Extra DC cable
YSK-7800	Remote separation kit
FT-8800R	50w 2m/35w 440 FM Xcvr
FREE YSK-8900 with FT-8800R!	
ADMS-21	Programming software/USB cable
CT-39A	Packet cable
MLS-100	Mobile speaker
MMB-60	Quick release mobile mount
T-9021810	Extra DC cable
YSK-8900	Remote separation kit
FT-8900R	50w 10m/6m/2m/35w 440 FM Xcvr
FREE YSK-8900 with FT-8900R!	
ADMS-2H	Programming software/USB cable
CT-39A	Packet cable
MLS-100	Mobile speaker
MMB-60	Quick release mobile mount
T-9021810	Extra DC cable
YSK-8900	Remote separation kit
ADMS-2E	Prog soft/USB cable; FT-90R/2600M Δ
ADMS-2F	Prog soft/USB cable; FT-1500M . Δ
ADMS-2J	Prog soft/USB cable; FT-2800M .. Δ
ADMS-2K	Prog soft/USB cable; FT-7800R ... Δ
ADMS-1802	Prog soft/USB cable; FT-1802M ... Δ
FT-1900R	55w 2m FM Xcvr
ADMS-1900	Programming software/USB cable
MLS-100	Mobile speaker
T-9021715	Extra DC cable
FT-2900R	75w 2m FM Xcvr
ADMS-2900	Programming software/USB cable
MLS-100	Mobile speaker
S-8002051/RA-1119800	Extra mobile bracket
T-9021015	Extra DC cable; 2800M/2900R .
FP-1023	23A switching ps w/fan, 25A surge
FP-1030A	25A ps, 30A surge w/meters
HRI-100	WIRES II interface box
LF-1	Mobile 13A DC noise filter
MLS-100	Mobile speaker
VXR-7000VA	50w 2m FM AC/DC rpttr ....Δ
Repeaters require service dept set-up; \$54 minimum	
ADMS-1F	Prog software/USB cable; VX-150 Δ
ADMS-1H	Prog software/USB cable; VX-2R Δ
ADMS-VX170	Prog soft/USB cable; VX-170 .. Δ
ADMS-VX177	Prog soft/USB cable; VX-177 Δ
FBA-17	AA battery holder; FT-23/411/470 ..Δ
Q-3000166	Replacement duck ant for VX-5R Δ
FT-60R	5w 2m/440 FM HT
ADMS-11	Programming software/USB cable
CN-3	BNC to SMA adapter
CT-27A	Cloning cable
CT-44	2-pin spkr/mic adapter
EDC-5B	Cig cable w/noise filter
EDC-6	DC cord; plug & wire only
FBA-25	6 AA cell battery case
FNB-83	7.2v 1400mah NiMH battery
MH-34B4B	Speaker/mic
MH-37A4B	Earpiece/microphone
NC-88B	Extra wall charger
VAC-370	Rapid charger
VC-25	VOX headset
FT-250R	5w 2m FM HT
ADMS-250	Programming software/USB cable
CN-3	BNC to SMA adapter
CT-27A	Cloning cable
CT-44	2-pin spkr/mic adapter
CT-53	Packet cable
EDC-5B	Cig cable w/noise filter
EDC-6	DC cord; plug & wire only
FBA-25	6 AA cell battery case
FNB-83	7.2v 1400mah NiMH battery

Yaesu - continued

AES Price

LCC-150/TT	Leather case
LCC-150S/TT	Leather case w/swivel
MH-34B4B	Speaker/mic
MH-37A4B	Earpiece/microphone
NC-72B	Extra wall charger for VX-150
VAC-370	Rapid charger
VC-25	VOX headset
FT-270R	5w 2m FM HT
FT-277R	5w 440 FM HT
ADMS-270	Prog soft/USB cable; FT-270R ..
ADMS-277	Prog soft/USB cable; FT-277R ..
CD-26	Charger cradle
CN-3	BNC to SMA adapter
CT-91	Microphone adapter
EDC-5B	Cig cable w/noise filter
EDC-6	DC cord; plug & wire only
FBA-25	6 AA cell battery case
FNB-83	7.2v 1400mah NiMH battery
MH-57A4B	Speaker/mic
MH-73A4B	Submersible speaker/mic
NC-88B	Extra wall charger
VAC-370	Rapid charger
VC-24	VOX headset
VC-27	Earpiece/microphone
VX-3R	1.5w 2m/1w 440 submini HT/lith ion ..
ADMS-VX3	Programming software/USB cable ..
CN-3	BNC to SMA adapter
CSC-92	Soft carrying case
CT-27A	Cloning cable
CT-44	2-pin spkr/mic adapter
EDC-21	Cig cable
FBA-37	3 AA cell battery case
FNB-82LI	Extra 3.7v 1000mah lith ion batt ..
MH-34B4B	Speaker/mic
MH-37A4B	Earpiece/microphone
NC-85B	Extra battery charger
VC-25	VOX headset
VX-6R	5w 2m/440/1.5w 220 FM HT
ADMS-VX6	Programming software/USB cable ..
CD-15A	Charger stand (use with NC-72B) ..
CN-3	BNC to SMA adapter
CSC-91	Soft carrying case
CT-91	Microphone adapter
EDC-5B	Cig cable w/noise filter
EDC-6	DC cord; plug & wire only
FBA-23	2 AA cell battery case
FNB-80LI	Extra 7.4v 1500mah lith ion batt ..
MH-57A4B	Speaker/mic
MH-73A4B	Submersible speaker/mic
NC-72B	Extra wall charger
SU-1	Altitude/barometric pressure sensor ...
VC-24	VOX headset
VC-27	Earpiece/microphone
VX-7RB	Black 5w 6m/2m/440/300mw 220 FM HT ..
ADMS-1G	Programming software/USB cable ..
CD-15A	Charger stand (use with NC-72B) ..
CN-3	BNC to SMA adapter

Yaesu - continued

AES Price

CSC-88	Soft carrying case
CT-91	Microphone adapter
EDC-5B	Cig cable w/noise filter
EDC-6	DC cord; plug & wire only
FBA-23	2 AA cell battery case
FNB-80LI	Extra 7.4v 1500mah lith ion batt ..
MH-57A4B	Speaker/mic
MH-73A4B	Submersible speaker/mic
NC-72B	Extra wall charger
Q-3000185	Replacement duck ant
SU-1	Altitude/barometric pressure sensor ...
VC-24	VOX headset
VC-27	Earpiece/microphone
VX-8DR	6m/2m/220/440 HT/enhanced APRS ..
ADMS-VX8	Programming software/USB cable ..
BTk-4	Bluetooth kit;BH1A/BU1/CD40/NC85B D ..
BTk-5	Bluetooth kit;BH2A/BU1/CD40/NC85B ..
BU-1	Bluetooth radio adapter
CD-40	3 hour charger cradle for BH-1
NC-85B	Battery charger for CD-40
CD-41	Rapid charger cradle
CN-3	BNC to SMA adapter
CSC-93	Soft carrying case
CT-131	Microphone adapter
CT-134	Cloning cable
CT-136	GPS antenna adapter for FGPS-2 ..
EDC-5B	Cig cable w/noise filter
EDC-6	DC cord; plug & wire only
FBA-39	3 AA cell battery case
FEP-4	Earphone for other ear
FGPS-2	External GPS unit
FNB-101LI	7.4v 1100mah lith ion battery ..
FNB-102LI	7.4v 1800mah lith ion batt; GPS use ..
MH-74A7A	Waterproof speaker/mic
NC-86B	Extra wall charger
Q-3000185	Replacement duck ant
VX-8GR	5w 2/440 HT w/GPS
ADMS-VX8GR	Programming software/USB cable ..
CD-41	Rapid charger cradle
CN-3	BNC to SMA adapter
CSC-95	Soft carrying case
CT-44	2-pin spkr/mic adapter
CT-143	PC connection cable
CT-144	Cloning cable
EDC-5B	Cig cable w/noise filter
EDC-6	DC cord; plug & wire only
FBA-39	3 AA cell battery case
FNB-101LI	7.4v 1100mah lith ion battery ..
FNB-102LI	7.4v 1800mah lith ion battery ..
MH-34B4B	Speaker/mic
MH-37A4B	Earpiece/microphone
NC-86B	Extra wall charger

ANTENNA ROTORS

G-450A	10 sq ft antenna rotor/5-wire
G-550	12 sq ft elevation rotor/6-wire
G-800SA	Med/hvy duty 450 degree 17sq ft/4-wire ..
G-800DXA	Med/hvy duty 17sq ft/presets/6-wire ..

Yaesu - continued

AES Price

G-1000DXA	HD 450 degree 23sq ft/presets/5-wire ..
G-2800DXA	HD 450 degree 34sq ft/presets/6-wire ..
Note: G-2800DXA comes w/40m (131') of rot	
G-5500	11 sq ft azimuth/elevation rotor/2x6-wire ..
GC-038	Mast clamp; G-450/800/1000/5500
GC-048	Mast clamp; G-2800
GL-33	Mast adjustment plate
GS-050	50mm thrust bearing; mast 1 1/2" ...
GS-065	65mm thrust bearing; mast 1 1/2-2 1/2" ...
GS-232B	Computer interface; DXA rotors
C-1000	Interface cable; GS-232A/B - SDX/G5500 ..
GS-680U	Universal self-adjusting mast bearing ..
Sep Kit	Separation kit for G5500

See Davis RF & JSC for rotor cable

CLOSE-OUTS

ALA 185	Dlx analog/dig Xmtr/bug detector ...
ALI DJ-V47T	4.5w 440 FM HT
AMR AL-800H	1.5kw PEP out amp (2.3CX800A7) ..
AMR AL-1200	1.5kw PEP out linear (3CX-1200A7) ..
CMT GH-50	6m 2.15db 7' 10" fg base ant
CMT GRB-5M	Dlx black trunk lip mt w/coax I ..
GAP DX-IV	Voyager 160/80/40/20m 45' antenna..
GRE PSR-700	EZ Scan-SD handheld scanner ..
HEI BM-10-iC	Boom mic/headset/adapter; lcom ..
HEI HM-4	Handi-Mic hand mic w/HC-4
HEI PRO-SET-PLUS-iC	Dlx bm mic/hdset (HC4);lco ..
ICO AH-2B	Whip w/mt; 40-6m use tuner
ICO BP-180	7.2v 600mah batt; T7H Sport
ICO BP-200L	9.6v 760mah NiMH batty; T81A ..
ICO CR-293	High stability xtal unit
ICO FL-53A	250 Hz 455 KHz IF CW filter
ICO FL-103	2.8 KHz 9 MHz IF SSB filter
ICO FL-257	3.3 KHz 455 KHz IF SSB filter
ICO IC-91A	5w 2m/440 D-Star upgradeable HT ..
ICO IC-208H	55w 2m/50w 440 FM Xcvt/WX alert ..
ICO IC-2200H	65w 2m FM Xcvt w/WX alert ..
ICO IC-U82	5w 440 FM HT/battery/charger ...
ICO OPC-581	11.5' separation cable
ICO OPC-587	16' separation cable
ICO OPC-601R	23' separation cable; IC-208H ..
ICO RX-7-05	Handheld receiver/cell blkd
KEN LF-30A	1kw PEP low pass filter
LDG AT-1000Pro	1000w PEP HF/250w 6m auto tnr ..
LDG DM-7800	Dual 4.5" meters for IC-7800 ..
MFJ 306	Car radio SWL converter
MIR D-1010-ATVN	430 ATV 10/52w type N amp ..
MSQ Big-Foot	4x-mag mt;2M/432HOLLOP stack ..
OUT Perth	75-10m 150w PEP 7.5' mobile ant ..
SAN ATS-606AP	AM/FM/shortwave port Rcvr..
SGC 51-82	Fan kit; continuous xmit SG500 ..
TIM PK-232/USB	Controller/sound card/USB ..
WES PWRguard	40A over/under voltage protector ..
WES RB/PL/CUSB	Rigblaster Plus; 8-pin/RJ-45 ..
YAE Bluetooth Kit	Kit for FTM-10
YAE SP-8	External speaker w/filters; Mk V/Field ..
YAE YA-007F6	FG whip/bpr mt; 80-10m use tuner ..

Dayton Hamvention® MAY 18-20 • 2012

- Stop by AES (booth 26-29) in the HARA Arena for the Hottest Deals at the show. • Meet Representatives from all AES Stores.
- Vendedores Hispánicos • We'll ship items purchased from us at the show so you won't have to carry them around.

SEE YOU THERE!

Life is a **JOURNEY.** Enjoy the ride!

The engineering staff at COMET Antenna Company presents three new products!

CMX-2300 TWIN Cross-Needle SWR/Power Meters

Left Side Meter 1.8-200MHz: Max Power 3kW

Right Side Meter 140-525MHz: Max Power 200W

Average and PEP power selector switch

FWD, REF, SWR readings displayed simultaneously.

Separate ANT/TX connectors allow both meters

to be used at the same time - Low loss circuitry - Illuminated



CHV-5X 40/20/15/10/6M Rotatable Dipole

HOA antenna restrictions? Limited space? Want to operate with a low profile? Need a small, multi-band HF/6M antenna for portable/emergency use?... The CHV-5X is a great choice! Lightweight, compact, rotatable half-wave center fed dipole. Assembles in several configurations: "V", "horizontal", or as a "ground plane". Each band tunes independently with sliding tuning stubs

Length: Approx 13 ft (assembled horizontally)

Weight: 5 lbs 14ozs (inc mounting plate and balun)

Max Power: 40/20M: 150W SSB 15/10/6M: 220W



CAA-500 Cross Needle SWR and Impedance Analyzer

Dual cross-meter real-time analog display of SWR and total impedance with high accuracy.

Seven frequency ranges (Including 222 MHz!) extending up to 500 MHz!

Thumb-wheel frequency adjustment for effortless sweeps of antenna operating range.

Two antenna jacks, "SO-239" and "N" (above 300 MHz).

Internal battery power or external DC (8 - 16 Volts).

For a complete catalog, call or visit AES.

Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710
909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com



6M & 10M MOBILES

DR-06T

Common Features: 100 alphanumeric memory channels, VFO/Memory/Program scan with Busy/Timed settings and Tone scan. Tone squelch (Encode/Decode tone separately selectable), DCS, DTMF tones featuring 10 programmable memories (Auto-Dialer) and 4 tone-burst tones. Direct frequency input and control of major functions via the backlit microphone keypad. Time-out-timer; Auto-power-off; Busy-channel lockout; Theft alarm; Cloning cable included. Dim: 5.9" w x 1.6" h x 6.8" d; 2.2 lbs.

DR-06T 6M FM Transceiver – Covers 50 to 53.995 MHz. Power: 50W (High), 20W (Mid), 5W (Low). With the optional EJ-41U TNC board, the DR-06T can be instantly switched from voice to 1200/9600bps packet. Ignition key on/off feature (with optional cable). 13.8V DC @ 11A.

DR-03T 10M FM Transceiver – Looks like the DR-06T. Covers 28 to 29.695 MHz. Power: 10W (High), 5W (Mid), 1-4W (Low). 13.8V DC @ 3A.

Available Accessories for DR-06T Only:

EDC37 Key ON/OFF cable, EDC43 Key ON/OFF cable for cigar socket, EJ41U TNC board, EJ47U Digital Voice modem



Shown with optional EDS9 Separation kit

DR-635T Dual Band Mobile Transceiver

TX: 144-147.995 and 430-449.995 MHz; RX: 108-173.995 and 335-480 MHz includes VHF AM Air Band and FM (87.5-108 MHz), 200 alpha memories. Output: 50/20/5W on VHF and 35/20/5W on UHF. Dual band RX (V/V, U/U, V/U & U/V) with cross-band repeat. Three colors to choose from for the LCD display. CTCSS & DCS encode/decode, 4 tone bursts. Auto power off, time out timer, tone burst, scan, lock-out, dimmer, VFO auto program, theft alarm, narrow FM, voltage display and remotable head. Rear cooling fan. Advanced Digital Mode (10F3) with speech compression with the optional EJ-47U board. Includes DTMF hand mic, DC cable, mobile mounting bracket, anti-theft (ACC on/off) cable and anti-theft sticker. Dim: 5.5" w x 1.6" h x 6.8" d; 2.2 lbs.

Available Accessories:

EDS9 Separation kit, EJ47U Digital board, EJ50U TNC unit, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows programming software

ALINCO
AMATEUR RADIO'S VALUE LEADER™

VHF MOBILES

DR-135T



DR-135TMKIII 2M Mobile Transceiver – Covers 144-148 MHz transmit with 118-135.995 MHz (AM aircraft) & 136-173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with ± 2.5ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF mic; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC available; 13.8V DC @ 11A. Dim: 5.58" w x 1.57" h x 6.83" d; 2.3 lbs.

DR-135TPMKIII – Same as 135TMKIII with addition of the TNC for 1200/9600bps packet and APRS operation.

DR-235TMKIII – 222-224.995 MHz TX & 216-279.995 MHz RX; 25/10/5W out.

Available Accessories:

EDC37 Key ON/OFF cable, EDC43 Key ON/OFF cable for cigarette socket, EJ41U 1200/9600 TNC (TMKIII's only), EJ47U Digital board, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows programming software

ALINCO
ACCESSORIES



DM-330MVT Switching Power Supply (left) Small, lightweight but provides 30A cont., 32A peak with variable voltage (5-15V DC). Lighted V/A meter. Rear panel high current terminals and front panel cigar and quick disconnect terminals. Dim: 6.8" w x 2.6" h x 6.5" d, 4.4 lbs.

ERW-7 USB Computer Cable – Connect many different Alinco radios to your PC with USB ports for easy memory programming.

EJ-47U Digital Voice Board (right) – Requires two similarly equipped Alinco transceivers. Compatible with the DJ-596TMKII, DR-135TMKII & MKIII, DR-235TMKII & MKIII, DR-435TMKII & MKIII, DR-620T & DR-635T.

2M HANDHELD

DJ-175T 2M FM

Handheld – Low cost, but sets new standards in features, convenience and ease of operation. Enjoy 136 to 173.995 MHz receive coverage with 200 memories and scanning. There's a backlit keypad and alphanumeric display for simple operation and memory management. Ergonomically designed to fit the palm of your hand. The 5 Watt output battery is standard. You're ready for virtually any selective calling situation or gaining access to repeaters with 39-tone CTCSS, 104 DCS, Tone-bursts and DTMF encoding, all included at no extra cost. Wire cloning capability. Comes with: flexible SMA antenna, EBP-72 NiMH battery pack, EDC-146 wall adapter and EDC-165 NiMH drop-in trickle charge stand.



Dim: 2.28" w x 4.23" h x 1.43" d; 8.7 oz.

Available Accessories:

EBP71 Li-ion Battery Pack (7.4V 1200 mAh), EBP72 Ni-MH Battery Pack (7.2V 700 mAh), EDC164T Li-Ion Drop-In Trickle Charger, EME12 Headset with PTT/VOX/earphone, EME13 Headset with PTT/VOX/earbud, EME15 Tie pin VOX mic/earphone, EME6 Earphone, EMS47 Speaker Mic with Volume Control, ERW4 PC Serial RS232C Cable, ERW7 PC USB Cable, ESC49 Soft case

JETSTREAM

220 MHz MOBILE



JT-220M 50W 220 MHz FM Mobile – Covers 222 to 224.995 MHz transmit and 216 to 280 MHz receive with FM/FM Narrow Mode. Features three selectable RF output levels of 50/25/10W. 99 memory channels plus 1 call channel gives you all the memory you need to store your favorite repeaters' information with CTCSS/DCS encode/decode built-in. You can scan through your memory channels or the entire band. The large LCD display make the digits and alphanumerics easy to read. Comes with a backlit DTMF hand mic, mobile bracket and DC cord. Dim: 5.7" w x 1.8" h x 7.5" d; 2.7 lbs.

MFJ LOW POWER TRANSCEIVERS



SINGLE BAND CW

Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever you go. Hot superhet receiver with super-quiet FET post amp stage in the IF filter for great sensitivity. Excellent selectivity from the tight CW bandwidth crystal ladder filter that fights QRM and noise. Smooth and stable VFO with reduction drive and RTT. Full 5W power output. Semi-QSK operation with adjustable hold T/R switching or set for full QSK. Built-in 3 inch. speaker. Low power drain, only 50mA on RX and 1.2A peak on TX. Dim: 6.5" w x 2.5" h x 6" d; 2 lbs.

Four different models:

9015 – 15M, 5W
9020 – 20M, 5W
9030 – 30M, 5W
9040 – 40M, 5W

SINGLE BAND SSB

Easy operation, reduction drive analog VFO allows tuning the band for signals quickly, then zeroing in smoothly. Features Constant Current™ syllabic speech processing for an added 4-6dB advantage to cut through conditions. Low noise preamp and active double balanced mixer front end with a sharp 2.3 kHz SSB crystal ladder filter. Draws only 3 Amps from 12V supply or battery. TVI protection with a built-in lowpass filter; Real S-meter; Hand Microphone; Amplifier key jack. Dim: 6.5" w x 2.5" h x 6" d; 2 lbs.

Six different models:

9402X 2M, 7W
9406X 6M, 10W
9410X 10M, 20W
9420X 20M, 12W
9440X 40M, 12W
9475X 75M, 12W

See Page 15 in the Price Guide under MFJ for available accessories for these models

SINGLE BAND HANDHELDS



DJ-V17T 5W 2M FM Handheld – Covers 144-148 MHz TX and 130-173.995 Mhz RX with 200 memories. Ruggedly built to IPX7 standards (can be submersed in 3 ft. depth of water for up to 30 minutes). 5W output; back-lit alphanumeric display and direct keypad entry; CTCSS /DCS ; 4 Tone Bursts; 9 DTMF Autodial Memories; Scanning; Time-out Timer. Tuning steps: 5, 10, 12.5, 15, 20, 25 and 30

kHz. A 500mW audio amp provides abundant audio. Comes with AC charger, Ni-MH battery and SMA flexible antenna, belt clip and hand strap. Dim: 2.28" w x 4.33" h x 1.43" d; 9.9 oz.

DJ-V27T – Covers 222-224.995 MHz TX and 216-249.995 MHz RX. Power: 5W.

DJ-V47T – Covers 430-449.995 MHz TX and 410-470 MHz RX. Power: 4.5W. **C/O**

Available Accessories:

EBP63 7.4V 1100mAh Li-Ion battery, EBP64 7.4V 1600mAh Li-Ion battery, EBP65 7.2V 700mAh NiMH battery, EBP66 7.2V 2000mAh NiMH battery, EDC144 Rapid charger, EDC36 Cigarette lighter cable with filter, EDC37 DC cable, EDC43 Cigarette lighter cable, EDC93 Extra wall charger, EDH34 Dry cell case, EDS10 Mic/speaker cable, EDS11 Clone cable, EME12* Headset/earphone/mic with VOX, EME13* Headset/earbud/mic with VOX, EME15* Earphone/mic with VOX, EME20* Tie-pin mic/earphone, EME6* Earphone, EMS47* Speaker mic with volume control, EMS62 Speaker/mic, ERW4* PC cable, ERW7* USB PC cable, ESC41 Soft case * requires EDS10

DUALBAND HANDHELD



DJ-V57T 2M/440MHz Dual Band FM HT – Rugged polycarbonate, water-resistant design makes this full-powered pocket size pal the perfect choice for camping, backpacking, hiking, fishing or any outdoor fun. The sound quality will amaze you as its large 40mm internal speaker delivers crisp, clean audio. Covers 144-148 & 420-450 MHz TX and 136-174 & 400-512 MHz RX. Power output levels: High 5W(13.8V DC), Low 0.5W and user selectable Mid 1-3W; Quick-write memory uses a single key to copy current VFO data to the lowest number memory channel available; 200 memories plus one call channel is available on each band; 39 CTCSS tones and 104 DCS; Comes with AC charger, belt clip, SMA antenna, carry strap and Ni-MH battery. Dim: 2.28" w x 4.33" h x 1.34" d; 9.6 oz. .

Available Accessories:

EBP63 7.4V 1100mAh Li-Ion battery, EBP64 7.4V 1600mAh Li-Ion battery, EBP65 7.2V 700mAh NiMH battery, EBP66 7.2V 2000mAh NiMH battery, EDC144 Rapid charger, EDC36 Cigarette cable with filter, EDC37 DC cable, EDC43 Cigarette cable, EDC93 Extra wall charger, EDH34 Dry cell case, EDS10 Mic/speaker cable, EDS11 Clone cable, EME12* Headset/earphone/mic with VOX, EME13* Headset/earbud/mic with VOX, EME15* Earphone/mic with VOX, EME20* Tie-pin mic/earphone, EME6* Earphone, EMS47* Speaker mic with volume control, EMS62 Speaker/mic, ERW4* PC cable, ERW7* USB PC cable, ESC41 Soft case * requires EDS10

TRIBAND & DUALBAND HANDHELDS



DJ-G7T 2M/440/1.2 GHz FM Handheld – The DJ-G7T brings full duplex operation across any two of the bands covered in this radio to offer a communications experience you have only dreamed about. It tunes 0.530-1299.995 MHz continuously (cellular blocked) with 1000 alpha memories and scanning. There's a backlit keypad and alphanumeric display for simple operation and memory management. It is ergonomically

designed to fit the palm of your hand. 5W on 2M, 4.5W on 440 (SW @ 13.8V DC) and 1W on 1.2 GHz output with the standard high-capacity Li-Ion 1200mAh battery. You're ready for virtually any selective calling situation or gaining access to repeaters with 39-tone CTCSS, 104 DCS, Tone-bursts and DTMF encoding, all included at no extra cost. Wire cloning capability. Comes with: SMA antenna, EBP-73 Li-Ion battery pack, Drop-in trickle charger. Dim: 2.36" w x 4.53" h x 1.18" d; 9.5 oz.

DJ-G29T 220/900 MHz FM Handheld – Very similar to the DJ-G7T but operates on 222-225 MHz at 5/2/0.8/0.3W and 902-928 MHz at 2.5/0.8/0.3W output. Dim: 2.36" w x 4.53" h x 1.18" d; 9.5 oz.

Available Accessories:

EBP73 7.4V 1200mAh Lith-Ion battery, EDC36 Cigarette cable with filter, EDC43 Cigarette cable, EDH35 "4" AA Battery case, EDS10 Mic/speaker conversion cable, EDS11 Cloning cable, EMS47 Speaker mic w/volume control (EDS10 required), EMS62 Speaker mic, ERW4 PC Serial RS232C Cable, ERW7 PC USB Cable, ESC50 Soft case



KG-UVA1 Dual Band VHF/UHF 16 Channel Commercial Handheld – A compact, high-performance dual band commercial transceiver providing up to 5 Watts of RF power on VHF and 4 Watts on UHF, along with high audio output (500 mW). Ideal for security patrols, business communications, schools, construction crews, and other organizations that have FCC licensed frequencies. FCC Part 90 certified. Frequency Range of 136-174, 400-470 MHz RX/TX. FM: 76-108 MHz (RX). Software programmable via the optional USB programming cable. Features: Dual band monitor (VHF/UHF, VHF/VHF, UHF/UHF); IP55 waterproof rating; Female voice prompts; 16 memory channels; 105 groups DCS/50 groups CTCSS; Selectable step sizes of 5, 6.25, 10, 12.5, 25, 50 or 100 kHz. Comes with drop-in rapid charger. Dim: 2.4" w x 4.8" h x 1.6" d; 9.7 oz. **Special Order**

KG-UVA1X – Same w/FM Narrowband

Available Accessories:

WXAAB AA battery case, WXBNC Reverse-SMA to BNC adapter (KG-UVA1 only), WXBTE Cigarette plug battery eliminator, WXCLN Radio clone cable, WXHCB 1700MAH Li-Ion battery, WXHST Headset mic, WXLTR Carrying case, WXSPEK Speaker mic, WXS16 Reverse-SMA to SO-239 adapter (KG-UVA1 only), WXUSB USB program cable



AMATEUR & COMMERCIAL HANDHELDS

KG-UV3D2/440 Dual Band 2M/440 MHz FM Amateur Handheld – Covers: (TX) 144-148/420-450 MHz; (RX) 136-174, 420-520 and 76-108 MHz FM Broadcast. 128 shared memory channels. Dual band monitor (VHF/UHF, VHF/VHF, UHF/UHF). Multiple scan modes including priority scan. DTMF encoding, CTCSS encode/decode. Busy channel lockout. Radio-to-radio cloning, Stopwatch and SOS functions. FM Broadcast radio (76-108 MHz) with automatic tuning and storing, frequency display, 18 FM memories in 2 banks. Dual alpha numeric, backlit display with channel name edit. Voice prompts for the visually impaired operator. VOX function. Selectable high/low power settings (VHF: 5W high/1W low) (UHF: 4W high/1W low). Includes: Reverse-SMA dual band antenna, extended life 1700 mAh Li-ion battery pack, 3-4 hour rapid drop-in charger w/AC cord, Belt clip, Wrist strap, Downloadable programming software. Dim: 2.3" w x 4.1" h x 1.6" d; 9.2 oz.

KG-UV3D2/220 Dual Band 2M/220 MHz FM Amateur Handheld – Covers: (TX) 144-148/223-225 MHz; (RX) 136-174, 216-280 and 76-108 MHz FM Broadcast. Selectable high/low power settings 5W high/1W low on both bands.

Available Accessories:

CMT HM05JSJ Comet 18" Reverse-SMA to SO-239 cable, NIF QRKGUVD1P Nifty quick reference card, WXAAB AA battery case, WXANT2/440 Replacement 2M/440 antenna, WXBNC Reverse-SMA to BNC adapter, WXBTE Cigarette plug battery eliminator, WXCLN Radio clone cable, WXHCB 1700MAH Li-Ion battery, WXHST Headset microphone, WXLTR Carrying case, WXSPEK Speaker microphone, WXS16 Reverse-SMA to SO-239 adapter, WXUSB 2-Pin to USB program cable

KG-UV6X Dual Band VHF/UHF Commercial Handheld – A compact, high-performance dual band commercial handheld transceiver providing up to 5 Watts of RF power on VHF and 4 Watts on UHF, along with high audio output (500 mW). Ideal for Fire, Police, FEMA, CAP, security patrols, business communications, schools and other organizations that have FCC licensed frequencies. 2.5 kHz step for FCC 2013 narrowband compliance. FCC Part 90 certified. Frequency Range of 76-108, 136-174, 370-512 MHz RX and 136-174, 406-470 MHz TX. The KG-UV6X features a long operating time (about 13 hours), thanks to the standard extended life 1700 mAh high capacity Li-ion battery pack. Commercial radios are shipped with the keypad locked per FCC 47CFR90.203 and require software programming via the optional USB programming cable. Features: Dual band monitor (VHF/UHF, VHF/VHF, UHF/UHF); IP55 waterproof rating; Female voice prompts; 200 memory channels; 105 groups DCS/50 groups CTCSS; Selectable step sizes of 2.5, 5, 6.25, 10, 12.5, 25, 50 or 100 kHz. Comes with dual-slot rapid charger! Dim: 2.6" w x 4.7" h x 1.6" d; 8.9 oz.

Available Accessories:

WXAAB AA battery case, WXBTE Cigarette plug battery eliminator, WXCLN Radio clone cable, WXHCB 1700MAH Li-Ion battery, WXHST Headset microphone, WXLTR Carrying case, WXSPEK Speaker microphone, WXUSB 2-Pin to USB program cable



ICOM HF BASE STATION



IC-718 HF All Mode Transceiver – Perfect for beginners or backup rig. The IC-718 is equipped with a minimum number of switches and controls for easy operation. Covers 160-10M except 60M with 0.03-30 MHz RX in SSB, CW, RTTY and AM modes. Output power is 5-100W (2-40W AM); 101 memories (99 regular, 2 scan edges); UT-106 AF DSP module is included; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/Rf meter; High frequency stability; Flexible filter selection; Hand mic. included; 13.8V DC @ 20A. Dim: 9.4" w x 3.75" h x 9.4" d; 8.5 lb.

Available Accessories:

BET 706TUNECONT Better RF tune control, AH2B 40-6M whip with mount (use tuner), AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR338 High stability crystal, CT17 Level converter, FL222 1.9 kHz 455 kHz IF SSB filter, FL257 3.3 kHz 455 kHz IF SSB filter, FL52A 500 Hz 455 kHz IF CW filter, FL53A 250 Hz 455 kHz IF CW filter, MB23 Carrying handle, MB5 Mobile mount, OPC025D DC cable, OPC599 7+8-pin-13-pin adapter, PS125 25A switching supply, SM30 Electret desk mic, SM50 Dynamic desk mic, SP20 Speaker with audio filters, SP23 Speaker with audio filters, SP33 Small desktop speaker, SP5 Mobile speaker, UT102 Voice synthesizer, NIF MMIC718 Nifty Mini Manual, W4R OBF703718DIY CW & SSB Collins Filters

HIGH-END HF/6M BASE STATIONS



IC-7410 HF/6M All Mode Transceiver – Covers 0.03-60 MHz receive and HF plus 6M transmit. Provides 2-100W output on SSB, CW, RTTY, FM and 2-27W on AM. The IC-7410 employs high grade DSP unit and double conversion super-heterodyne system developed from the latest technology used in Icom's higher grade rigs such as the IC-7800/7700/7600 series. When used with the optional filters (3kHz and 6kHz), narrow mode signals are protected from adjacent in-band signals. The 3kHz first IF filter is especially effective in the CW and SSB modes. +30dBm 3rd order intercept point on HF bands; 32-bit floating point DSP unit; Large LCD display; ± 0.5 ppm frequency stability; Built-in simple band scope & auto antenna tuner; Optional RS-BA1 software for IP remote control; Built-in voice synthesizer announces operating frequency, mode and S-meter level; Ample CW functions. Dim: 12.4" w x 4.57" h x 13.5" d; 22.5 lbs.

Available Accessories:

BET IMATE Better RF message accessory, AH2B 40-6M whip with mount (use tuner), AH4 Auto antenna tuner, CT17 CI-V Level converter, FL430 6kHz 1st IF roofing filter, FL431 3kHz 1st IF roofing filter, OPC1457 Extra DC cable, OPC599 7+8 to 13 Pin cable adapter, PS126 Power supply, RSBA1 IP remote control software, SM30 Electret desk mic, SM50 Dynamic desk mic, SP20 Speaker with audio filters, SP21 Speaker, SP23 Speaker with audio filters, SP33 Small desktop speaker, NIF MMIC7410 Nifty mini manual

Please call/web for current prices & promotions.



IC-7600 HF/50 MHz All Mode Transceiver – The latest DSP technologies developed for the IC-7800/7700 plus over 45 years of analog circuit expertise give the IC-7600 the performance advantage. Covers 0.03 - 60 MHz receive and HF plus 6M transmit. Output power for SSB, CW, FM, RTTY and PSK31 is 2-100W and for AM it is 1-30W. 101 memory channels made up of 99 regular and 2 scan edges. Two SO-239 antenna connectors with automatic antenna selector. Separate DSP units for transmitter/receiver and spectrum scope. Three built-in 1st IF (roofing) filters: 3, 6 and 15 kHz. The double conversion superheterodyne system and the image rejection mixer improve in-band IMD. 5.8-inch WQVGA (400x240 pixel) ultra-wide viewing angle TFT display with long-life LED backlighting. High-resolution real-time scope using a dedicated DSP unit. Front and rear USB connectors allow keyboards, flash memory drives, and PCs to easily connect. Built-in PSK and RTTY operation with a USB keyboard - PC not required. Comes with DC power cable, spare fuses, CW key plug, HM-36 hand mic and carrying handle. Requires 13.8V DC @ 23A maximum power supply. Dim: 13.4" w x 4.5" h x 11" d; 22 lbs.

Available Accessories:

BET IMATE Better RF message accessory, AH2B 40-6M whip with mount (use tuner), AH4 80-6M 120W auto wire antenna tuner, CT17 Level converter, PS126 Power supply, RSBA1 IP remote control software, SM30 Electret desk mic, SM50 Dynamic desk mic, SP20 Speaker with audio filters, SP23 Speaker with audio filters, SP33 Small desktop speaker, NIF MMIC7600 Nifty Mini Manual



IC-7700 HF/50 MHz All Mode Transceiver Designed to be the Ultimate Contest Transceiver, employing the latest technology for the competitive edge. Two independent IC-7800-type DSP units: one for the transmitter and receiver and one for the spectrum display. Uses a single HF receiver with I/Q second mixer, offering a +40dBm 3rd-order intercept point, ultra-wide dynamic range and selectable 15, 6 and 3 kHz roofing filters. Automatic tracking preselector and relay-switched front end for strong-signal HF performance and out-of-band interference rejection. Push-pull MOS-FET amplifiers work at 48V DC, providing 200W output at full duty cycle. Built-in switch-mode power supply. The 7 inch wide color TFT LCD, 800 x 480 display shows a multi-function spectrum scope and a simulated analog multi-function meter. VGA socket for external video monitor. A built-in RTTY/PSK31 modem provides a complete digimode terminal, requiring only an external keyboard. Rear-panel I/O connections and CI-V allow use of a second Icom transceiver. Digital voice recorder. DSP noise blanker. USB memory drive socket. Dim: 16.7" w x 5.9" h x 17.1" d; 52.9 lbs.

Available Accessories:

BET IMATE Better RF message accessory, CT17 Level converter, HM36 Scanning hand mic, RSBA1 IP remote control software, SM30 Electret desk mic, SM50 Dynamic desk mic, SP20 Speaker w/audio filters, SP23 Speaker w/audio filters, SP33 Small desktop speaker, NIF MMIC7700 Nifty Mini Manual



IC-7800 HF/50 MHz Transceiver – The Icom flagship radio that is a fusion of 45 years of analog RF circuit development expertise, with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point in HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching & three roofing filters. The ultimate in performance, function and quality without compromise. 160-10M & 6M TX, 0.03-60 MHz general RX; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories (99 regular, 2 scan edges), 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, Dual watch; RIT and ∂ Tx variable up to 9.999kHz; Separate 50 MHz preamp and mixer; 5-200W (5-50W AM) output; Built-in power supply (85-265V AC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer (frequency, mode and signal strength); Four 32-bit floating point DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Mic. equalizer; Triple band stacking register; Multiple scan functions; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD; RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for storing your settings; Multi-function, fully adjustable, electronic memory keyer (DSP waveform shaping); Double key jack system; Full break-in; 50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; VGA connector for an external display; Four antenna connectors; Includes 64MB CF memory card, spare fuse, rack mount handles, AC power cable, key/speaker/ACC/RCA and DC plugs. Dim: 16.6" w x 5.9" h x 17.1" d; 55 lbs. **Special Order**

Available Accessories

BET IMATE Better RF message accessory, CT17 Level converter, HM36 Scanning hand mic, RSBA1 IP remote control software, SM30 Electret desk mic, SM50 Dynamic desk mic, SP20 Speaker w/audio filters, SP23 Speaker w/audio filters, SP33 Small desktop speaker

HF POWER AMPLIFIER



PW-1 HF/50 MHz Linear Amplifier – Covers 160 to 15M and 6Meters. Power output with 100W drive is 1000W SSB/CW & RTTY when powered with 180-264V AC or 500W with 90-132V AC; Full duty cycle, QSK. Features include: Automatic band change, Built-in all band automatic antenna tuner, Automatic AC voltage selector, current, voltage, temperature, high SWR and output power protection. Wide range ALC that adjusts to almost any rig. The control head is detachable and remoteable. Built-in power supply. Two exciter input connectors and 4 output connectors. Comes with controller separation cable, ACC cables, coax jumper with PL-259s. Dim: 14" w x 10.5" h x 14.5" d; 56 lbs.



ALL BAND ALL MODE BASE STATION



IC-9100 HF/6M/2M/440 MHz All Mode Transceiver with Optional 1.2 GHz and D-Star Operation – Full 100W output on HF/6M/2M bands and 75W output on the 440 MHz band. The optional 1.2 GHz unit adds 1240-1300 MHz transmit with 1-10W output. Also available is an optional D-Star board that allows DV operation on 2M and 440 MHz bands (plus 1.2 GHz if 1.2 GHz unit is installed). AM, FM, SSB, RTTY, CW modes supported. Two independent receivers that allows reception of two different bands simultaneously. The satellite mode synchronizes the uplink and downlink frequencies, and tracks the frequencies in the same tuning step. This function matches both normal and reverse mode satellites. Dual-conversion receiver with I/Q image-reject mixer; IF-DSP (32-bit operation and 24-bit AD/DA converter); Built-in Automatic Antenna Tuner for HF/6M; Rear-panel USB port. Dim: 12.4" w x 4.57" h x 13.5" d; 24.3 lbs.

Available Accessories:

AG25 2M mast mount preamp, AG35 430 MHz mast mount preamp, AH2B 40-6M whip with mount (use tuner), AH4 Auto antenna tuner, CS9100 Windows programming software, CT17 CI-V Level converter, FL430 6kHz 1st IF roofing filter, FL431 3kHz 1st IF roofing filter, OPC1457 Extra DC cable, OPC1529R Data communications cable, OPC599 7+8 to 13 Pin cable adapter, PS126 Power supply, RSBA1 IP remote control software, SM30 Electret desk mic, SM50 Dynamic desk mic, SP20 Speaker with audio filters, SP21 Speaker, SP23 Speaker with audio filters, SP33 Small desktop speaker, UT121 D-Star unit, UX9100 1.2 GHz unit, NIF MMIC9100 Nifty mini manual, RTS WCS9100USB RT Systems programming software & USB cable

Please call/web for current prices & promotions.

HF/6M PORTABLE BASE STATION



IC-7200 HF/50MHz Portable Transceiver – The rugged design and tough construction against water intrusion is similar to other Icom Marine radios for outdoor use. Covers 0.03-60 MHz receive and HF plus 6M transmit. Provides 2-100W output on SSB, CW, RTTY and 1-25W on AM. Other features include: Easy-to-use controls; IF DSP filtering (51 passband widths); Digital IF filter allows you to select the filter width and shape from soft to sharp (no need to buy optional filters); AGC loop management; Twin Passband Tuning (PBT); Noise Reduction; Noise Blanker and RF Speech Compressor. Manual notch filter; Keypad entry; Dual VFOs; Voice synthesizer; RT; VOX; ± 0.5 ppm frequency stability; LCD backlight (hi/lo/off); CI-V interface; 201 memory channels, Built-in 20dB attenuator; Preamplifier; Dial lock; Auto TS function; 1 Hz step tuning; Band stacking register; Built-in voice synthesizer; Quick split; Front facing speaker; Quick set mode; Rear bumper protects the connectors on the rear panel while transporting; USB port for PC control. Comes with hand microphone, DC power cable and spare fuses. Requires 13.8V DC @ 22A power supply. Dim: 9.5" w x 3.3" h x 11" d; 12.1 lbs.

Available Accessories:

AH2B 40-6M whip with mount (use tuner), AH4 Auto antenna tuner, AT180 HF/6M Auto antenna tuner, CT17 CI-V Level converter, MB116 Front panel handles, MB117 Carrying handle, MB118 Mobile mounting bracket, OPC1457 Extra DC cable, OPC599 7+8 to 13 Pin cable adapter, PS126 Power supply, RSBA1 IP remote control software, SM30 Electret desk mic, SM50 Dynamic desk mic, SP10 Slim-line external speaker, SP20 Speaker with audio filters, SP23 Speaker with audio filters, SP33 Small desktop speaker, NIF MMIC7200 Nifty mini manual, RTS WCS7200USB RT Systems programming software & USB cable

HF/VHF/UHF MOBILE



IC-7000 Compact HF/VHF/UHF All Mode Transceiver – Covers HF/6M/2M/440 MHz with 0.03-199.999 & 400-470 MHz RX. 503 alpha memories; Power output: 2-100W (1-40W AM) on HF/6M, 2-50W (2-20W AM) on 2M and 2-35W (2-14W AM) on 440 MHz. 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. 2.5 inch color TFT screen. Supports a two-mode band scope; An internal memory keyer provides four memories; Detachable control head; Digital RF Speech Processor; S/PWR/SWR meter; RT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; Full break-in CW with adjustable pitch. Comes with backlit remote mic, spare fuses, key plug and DC power cable. 13.8V DC @ 22A. Dim: 6.56" w x 2.59" h x 7.09" d; 5.1b.

Available Accessories:

BET 7000SCDRCONT Better RF screwdriver antenna controller, BET 7000TUNECONT Better RF tune control, AG25 2M mast mount preamp, AG35 430 MHz mast mount preamp, AH2B 40-6M whip with mount (use tuner), AH4 80-6M 120W auto wire antenna tuner, AT180 HF-6M auto coax antenna tuner, CT17 Level converter, HM154T TTP Mic., MB105 Remote head bracket, MB106 Carry handle, MB120 Mounting base, MB62 Main unit mounting bracket, OPC1443 11.5' remote cable, OPC1444 16' remote cable, OPC1457 DC cable, OPC589 8-pin mic jack adapter cable, OPC599 7+8-pin to 13-pin adapter, OPC742 13-Pin cable, PS126 Power supply, RMK7000 Remote mounting package (MB62/MB105/OPC1443), SM30 Electret desk mic (requires OPC589), SM50 Dynamic desk mic (requires OPC589), SP10 Slim-line external speaker, SP33 Small desktop speaker, NIF MMIC7000 Nifty mini manual, RTS WCS7000 Programming software & USB cable

ICOM ACCESSORIES



SP-10 Slim-Line Mobile Speaker – 4 ohms, 5 watts, mono plug. Dim: 5" w x 3" h x 3" d.

SP-20 Speaker w/Audio Filters – 5 inch speaker has 5W max. output. Two 3.5mm audio input jacks that you can switch between. One 1/4 in. front headphone jack and four separate audio filters: HPF 1 (300 Hz), HPF 2 (600 Hz), LPF 1 (2400 Hz), LPF 2 (800 Hz). Speaker on-off switch.

SP-23 Speaker w/Audio Filters – Matches Icom receivers and transceivers. Dual switchable radio input jacks and four separate audio filters: HPF 1 (500 Hz), HPF 2 (250 Hz), LPF 1 (3000 Hz), LPF 2 (1000 Hz). Speaker on-off switch; 1/4 in. headphone jack; Metal construction; Tilt-stand. Dim: 5.75" w x 4.25" h x 11.2" d; 3.6 lbs.

SP-33 Base Speaker – Simple, nice looking speaker for Icom base transceivers with DSP.



CT-17 CI-V Level Converter – Hook up your Icom CI-V compatible transceiver to your computer's RS-232C port. This gives you the ability with optional 3rd party software to manage memory channels and remotely control many different radios. Up to four transceivers can be connected at one time. Dim: 4.4" w x 3.7" h x 11.3" d; 6.6 lbs.

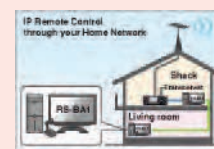
SM-50 Dynamic Desktop Microphone – Up-down tuning; PTT switch with lock feature; Gain adjustment; Low Cut switch; ICOM 8-pin plug. Compatible with many 8-pin Icom Radios. Requires OPC-589 with IC-706 & IC-7000.

PS-125 Base Station Power Supply – 25 Amps of power for Icom radios with 6-pin molex connector. Dim: 4.4" w x 3.7" h x 11.3" d; 6.6 lbs.

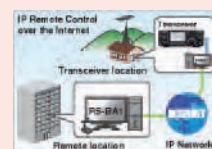
PS-126 Base Station Power Supply – 25 Amps of power for Icom radios with 4-pin molex connector. Dim: 4.4" w x 3.7" h x 11.3" d; 6.6 lbs.



RS-BA1 IP Remote Control Software – Allows you to use your Icom compatible radio located in another room on your home network or a remote location over the Internet via your computer. Low voice latency (caused by the RS-BA1) provides the same operational experience as using an actual radio. Most functions and modes of your transceiver, including interference rejection functions and IF filter settings, can be controlled. Also, S-meter and SWR can be observed. The computer on both ends of the link must be running Windows® XP, Vista® or 7. Visit icomamerica.com for more info.



Use it at home



Or over the internet!

SINGLE BAND MOBILES



IC-2300H 2M FM Transceiver – A rugged design with a large selectable Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Four power levels: 65/25/10/5W; Choice of FM/Narrow mode; 207 alpha memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCS encode/decode plus tone scan functions and “pocket beep”; 24 DTMF autodial memories; Squelch delay; NMEA GPS compatible (GPS not supplied). Includes remote control mic, DC power cable, mobile mounting bracket and mic hanger. Dim: 5.5”w x 1.6”h x 6.4”d; 2.43 lbs.

IC-2200H – Previous Version.... **C/O**

Available Accessories:

CS2200H Programming software (IC-2200H only), CS2300H Programming software (IC-2300H only), HM133V Extra mic w/TTP, HM154 Plain mic w/o TTP, MB28H Mobile bracket, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' Mic extension cable, OPC441 16.4' Speaker Ext. Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-Pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit (IC-2200H only), UT118 D-Star Digital unit (IC-2200H only), NIF QRIC2200H Nifty quick reference card (IC-2200H only), RTS WCS2200 RT Systems programming software & USB cable (IC-2200H only)



IC-V8000 2M FM Transceiver – Big 75W power output. Selectable power output is 75/25/10/5W. Covers 144-148 MHz transmit with 136-174 MHz receive. 207 alpha memory channels including one call and six scan edge channels; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Selectable Green or Amber display; Includes remote control microphone, DC power cable, mounting bracket, mic hanger and spare fuse. Dim: 5.9”w x 2”h x 5.9”d; 2.22 lbs.

Available Accessories:

CSV8000 Windows programming software, HM133V Extra mic w/TTP, HM154 Plain mic w/o TTP, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic extension cable, OPC441 16.4' speaker extension cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, V8000MMB Mobile bracket, NIF QRICV8000 Nifty quick reference card, RTS WCSV8000 Programming software & USB cable

Please call/web for current prices & promotions.

ICOM



IC-208H 2M/440 Dualband Mobile – Covers 144-148 and 440-450 TX with 118-173, 230-549, 810-999 MHz (cell blocked) wide band RX. Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alpha memory channels; Improved Dynamic Memory Scan (10 banks); 2-100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Green or amber display lighting and backlit buttons; Remote control mic included. Dim: 5.56”w x 1.56”h x 7.3”d; 2.7 lbs. **CLOSEOUT**

Available Accessories:

CS208 Windows programming software, HM154 Plain mic w/o TTP, MB120 Mounting base, MB28H Mobile bracket, MB58 Remote controller bracket, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' Mic extension cable, OPC441 16.4' Speaker extension cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC601R 23' Separation kit, SP10 Slim-line external speaker, NIF QRIC208H Nifty quick reference card, RTS WCS208 RT Systems programming software & USB cable



IC-2820H 2M/440 Analog Dual Bander with D-Star and GPS Capability – Covers 144-148 and 430-450 MHz with wideband receive (Left Band) 118-549.95 / (Right Band) 118-173.995, 375-549.995 and 810-990.990 MHz (cellular blocked). V/V and U/U simultaneous receive, 522 memory channels. Weather Alert. 50/15/5W output on both bands. Built-in CTCSS/DCS Encode/Decode. Removable front panel, selectable amber/green display. Two antenna jacks support diversity reception in the 127, 136, 146, 375, 440 and 500 MHz bands (two antennas required). Diversity compares signal strength from the two antennas, and automatically selects the strongest signal to hear. D-STARS DV (digital voice) upgradeable and GPS functions with the optional UT-123. Packet ready (9600 BPS – 6-pin DIN). Includes a backlit remote DTMF hand microphone, mounting bracket, power cord and spare fuses. Supplied with separation cables. Dim: 5.9”w x 1.65”h x 7.4”d; 3.3 lbs.

Available Accessories:

CS2820 Windows programming software, HM154 Plain mic w/o TTP, MB120 Mounting base, OPC1132 9.8' DC cable, OPC1529R Data communications cable, OPC347 23' DC cable, OPC440 16.4' Mic extension cable, OPC441 16.4' Speaker extension cable, OPC474 Radio-to-radio clone cable, OPC478 PC RS-232 cable, OPC478U PC USB cable, OPC589 8-PIN mic. jack adapter cable, SP10 Slim-line external speaker, UT123 D-Star DV & GPS receiver, V8000MMB Mobile bracket, NIF MMIC2820H Nifty mini manual, RTS WCS2820 Programming software & USB cable

ID-1 10W 1.2 GHz FM & D-Star Ready Mobile
For info please check www.icomamerica.com

DUAL BAND MOBILES

D-STAR READY DUAL BAND MOBILE



ID-880H FM & D-Star Ready 2M/440 Dual Bander – Can transmit and receive D-Star format digital voice and approximately 950 bps data communication simultaneously with analog FM mode still available. The GPS A mode assists in D-PRS mode operation to send your position information to an APRS server using a 3rd party GPS receiver (not included). Has wideband receive of 118-173.995, 230-549.995 & 810-999.995 (cell blocked) so you can listen to aviation, marine, weather channels and other utility communications. Three power settings: 50/15/5W on both bands; 1052 memory channels with 8-character channel name; 16 channels DTMF memory (24-digit); Built-in CTCSS/DTCS tone encoder and decoder (FM mode only) with tone scan and pocket beep function; Data & 9600/1200bps packet jacks on the rear main unit; Large LCD display allows you to select green, yellow and amber as the backlighting. Detachable control head with separation cable. Dim: 5.9”w x 1.56”h x 7.84”d; 2.9 lbs.

Available Accessories:

HM154 Plain mic w/o TTP, MB120 Mounting base, OPC1132 9.8' DC cable, OPC1529R Data communications cable, OPC347 23' DC cable, OPC440 16.4' mic. extension cable, OPC441 16.4' speaker extension cable, OPC474 Radio to radio clone cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, NIF MMID880H Nifty mini manual, RTS WCSD880 RT Systems programming software & USB cable

D-STAR READY 440 MHz GPS HT



ID-31A 440 MHz FM & D-Star HT with GPS Transmit Coverage: 420-450 MHz. Receive Coverage: 400-479 MHz. 1252 memory channels including 50 program scan edges and 2 call channels. Four selectable output power levels 5/2.5/0.5/0.1W. IPX7 Submersible Construction. Built-in GPS receiver shows your current position and

altitude on the display and offers a position reporting function in DV mode. The GPS-A mode assists in easy D-PRS mode operation. D-Star Digital Voice Mode built-in. The ID-31A comes pre-programmed with D-star repeater memories on a MicroSD card and uses the GPS to show nearby repeaters. Full Dot-matrix Display and Directional Keypad makes going through the menu and changing setting quick and easy. The LCD and keypad backlighting is handy for night time operation. Dim: 2.28”w x 4.74”h x 1”d; 7.9 oz.

Available Accessories:

AD92SMA SMA - BNC adapter, BC202 Desk rapid charger, BP271 7.4V 1150mAh lith-ion battery, BP272 7.4V 1880mAh lith-ion battery, BP273 Battery case for 3 AA, CP12L Right angle cig. cable w/filter, CP19R cig. cable w/filter, CT17 Level converter, HM186LS Compact speaker mic, HM75LS Remote control speaker mic, HS94 Earpiece headset (requires OPC2006LS), LC178 Carrying case, OPC2006LS Headset adapter cable for HS94, OPC2218LU Cloning/data cable, OPC254L Right angle mini DC power cable, SP13 Earphone



ICOM SINGLE BAND HTs

IC-V80 2M FM HT

A modernized classic! Rich in analog features, Icom's latest handheld offers practical 2M operation and ruggedness, updated for today's ham radio enthusiasts. Passed the MIL-STD requirements and IP54

water resistance and dust protection standards. The BTL amplification increases the audio output by doubling the voltage delivered to the speaker. Covers 144-148 MHz transmit; Selectable 5.5/2.5/0.5W RF output at 7.2V DC; Receive range is 136 - 174 MHz with weather channel alert; 207 easy to recall alphanumeric memories including 6 scan edges and 1 call; Up to 5 characters can be used for labeling each memory; 16 DTMF memory channels are also available; Wide/Narrow channel spacing; CTCSS/DTCS Encode and Decode; Multiple scanning modes to choose from; Backlight display; Big 750 mW of audio output; Comes with wall charger, BP-264 NiMH battery pack and BNC antenna.

IC-V80 SPORT – Same but no wall charger and NiMH battery. Comes with BP-263 AA battery case. Dim: 2.1" w x 5.2" h x 1.4" d; 12.3 oz.

Available Accessories:

BC191 Desk top quick charger for BP264, BC193 Desk top quick charger for BP265, BP263 Battery case, BP264 7.2V 1400mAh NiMH battery, BP265 7.4V 1900mAh Lith-ion battery, CP17L Right angle cigarette cable for charger, CSV80 Cloning software, HM158L Rectangle speaker/mic/earphone jack/clip, HS94 Earpiece headset (OPC2004 required), OPC2004 Headset cable for HS94, OPC474 Radio clone cable, OPC478U PC USB cable, OPC515L Right angle DC cable for charger, NIF QRICV80 Nifty quick reference card, RTS WCSV80 RT Systems programming software & USB cable



IC-V82 2M High Power HT with D-Star Capability

7/4/0.5W selectable RF output; 144-148 MHz TX; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice & slow data communication. Built in CTCSS/DTCS; Auto low power/power saver; 200 memories; Auto repeater function; PC cloning capability; NOAA WX channel RX (IC-V82 USA version only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included. Dim: 2.1" w x 5.5" h x 1.4" d; 13.8 oz.

IC-U82 – Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5/2/0.5W output.

Available Accessories:

AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BC144N Rapid desk charger, BP208N Battery case, BP210N 7.2V 1650mAh battery, BP222N 7.2V 600mAh battery, CSV82 cloning software, HM128L Rectangle plug earphone and mic, HM158L Rectangle speaker/mic/ear-jack/clip, HM46 Slim-line speaker, HM54 Heavy duty speaker, HM75A Remote control mic, HS85 Headset with VOX, HS94 Earhook headset with boom mic, MB103 Spring belt clip, MB86 Swivel belt clip, OPC474 Cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, SP13 Earphone, UT108 DTMF decoder unit, UT118 D-Star Digital unit, VS1L PTT/VOX unit



DUAL BAND HTs

IC-T70A 2M/440 MHz Dual-Band FM HT – Like the new IC-V80 the IC-T70A also meets MIL-STD requirements, IP54 water resistance, dust protection standards as well as BTL amplification that doubles the audio output. Covers 144-148 and 430-450 MHz transmit; 5/2.5/0.5W RF output; Receive range is 136-174 and 400-479 MHz with weather channel alert; 302 easy to recall alphanumeric memories including 50 band edges and 2 call channels; Up to 5 characters can be used for labeling each memory; 16 DTMF memory channels are also available; Wide/Narrow channel spacing; CTCSS/DTCS Encode and Decode; Multiple scanning modes to choose from; Backlight display makes reading the display easy in the dark; Big 700 mW of audio output; PC programmable with optional CS-T70; Internal VOX for hands free operation when used with a compatible optional headset; Comes with wall charger, BP-264 NiMH battery pack, belt clip, hand strap & SMA antenna. Dim: 2.3" w x 4.4" h x 1.2" d; 13.4 oz.

Available Accessories:

AD925MA SMA - BNC adapter, BC191 Desk top quick charger for BP264, BC193 Desk top quick charger for BP265, BP263 AA Battery case, BP264 7.2V 1400mAh NiMH battery, BP265 7.4V 1900mAh Lith-ion battery, CP12L Right angle cigarette cable with filter, CP17L Cigarette cable for charger, CP19R Cigarette cable with filter, CST70 Cloning software, HM131 Speaker mic, HS94 Earpiece headset (OPC2006 required), LC174 Carrying case, OPC2006 Headset adapter cable, OPC254L Right angle mini DC power cable, OPC474 Radio-to-radio clone cable, OPC478U PC USB cable, OPC515L DC cable for charger, NIF QRIC70A Nifty quick reference card, RTS WCS70 RT Systems programming software & USB cable



IC-91A 2M/440 Dual Band with D-Star Capability

The "A" band offers wide reception from 495 kHz to 999.990 MHz (cell blocked) in FM/WFM/AM modes. The "B" band receives from 118-174 MHz & 350-470 MHz in FM/FM-N/AM and optional Digital Voice mode. Simultaneous receive of the "A" and "B" bands allows V/V, V/U and U/U operation. 1304 Alpha memories. Power: 5/0.5W on either band. Optional UT-121 D-STAR Digital Voice Unit. Can play a recorded message (up to 10 sec.) in response to a call directed to the user's callsign. Audio messages can even be forwarded. With an external NMEA 0183 format GPS attached (not supplied), your own and others' position information can be sent and received. JIS-4 specification for weather resistance. Includes SMA-type antenna, Li-Ion battery, belt clip & charger. Dim: 2.4" w x 4.2" h x 1.5" d; 10.6 oz. C/O

IC-91A – Same as IC-91A, but TX: 420-450 MHz, RX: 400-479 MHz; 5/2/0.5W output.

Available Accessories:

AD925MA SMA - BNC adapter, BC139 Desk top rapid charger, BP216 AA battery case, BP217 7.4V 1300mAh Lith-ion, CP19R Cigarette cable with filter, HM128 Earphone and mic, HM131 Speaker/mic/earphone jack/clip, HM75A Remote control mic, HS85 Headset with VOX, LC163 Carrying case, OPC1529R Data comm. cable, OPC254L Mini DC power cable, OPC474 Radio-to-radio clone cable, RS91 Remote control PC software with RS-232 cable, SP13 Earphone, UT121 D-Star digital unit, NIF MMIC91AD Nifty mini manual & reference card combo, RTS WCS91 RT Systems programming software & USB cable



D-STAR READY DUAL BAND HTs

IC-80AD FM & D-Star Ready Dual Band HT Transmit Coverage: 144-148 and 420-450 MHz. Wideband Receive Coverage: 0.495 - 999.990 MHz cellular blocked. 1052 memory channels including 50 program scan and 2 call channels. Weather channel with weather alert. Four selectable output power levels 5/2.5/0.5/0.1W. When

using the optional HM-189GPS GPS Speaker microphone, the IC-80AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. The GPS-A mode assists in easy D-PRS system operation. Dim: 2.3" w x 4.0" h x 1.34" d; 10.3 oz.

Available Accessories:

AD925MA SMA - BNC adapter, BC139 Desk rapid charger, BP216 (2) AA battery case, BP217 7.4V 1300mAh lithium-ion battery, CP19R Cigarette cable with filter, HM131 Speaker/mic/earphone jack/clip, HM189GPS Speaker mic with GPS unit, HM75A Remote control mic, HS85 Headset with VOX, LC163 Carrying case, MB86 Swivel belt clip, OPC1529R Data communications cable, OPC254L Right angle mini DC power cable, OPC474 Radio-to-radio clone cable, OPC478 PC RS-232 cable, OPC478U PC USB cable, SP13 Earphone, NIF MMIC80AD Nifty mini manual & reference card combo, RTS WCS80 RT Systems programming software & USB cable



IC-92AD Submersible FM & D-Star Ready Dual Band HT

Transmit Coverage: 144-148 and 420-450 MHz. Wideband Receive Coverage: (VFO-A) 0.495-999.990 MHz (cell blocked); (VFO-B) 118-174 and 350-470 MHz. 1304 memory channels including 100 program scan and 4 call channels. Weather channel with weather alert. Dualwatch capability allows receive on two bands simultaneously (including the same band). 5/2.5/0.5/0.1W selectable

power output. When using the optional HM-175GPS GPS Speaker microphone, the IC-92AD shows the direction to a received D-STAR station or to a memory stored with a compass-like display pointer. The GPS-A mode assists in easy D-PRS system operation. Military tough, submersible to 1 meter for 30 minutes. Comes with Lith-ion battery, belt clip, SMA antenna, wrist strap and wall charger. Dim: 2.3" w x 4.4" h x 1.3" d; 11.5 oz.

Available Accessories:

AD925MA SMA - BNC adapter, BC177 Desk top rapid charger, BP256 7.4V 1620mAh lith-ion, BP257 AA battery case, CP19R Cigarette cable with filter, HM131 Speaker/mic/earphone jack/clip (OPC1797 required), HM174 Waterproof Speaker/mic, HM175GPS Waterproof speaker/mic/GPS unit, HM75A Remote control mic (OPC1797 required), HS85 Headset with VOX (OPC1797 required), LC168 Carrying case, OPC1797 Plug adapter cable for use with the HM75A, HM131, HS85 & OPC474, OPC254L Mini DC power cable, OPC474 Radio-to-radio clone cable (OPC1797 required), RS92 Remote control PC software (RS-232 cable), SP13 Earphone, NIF MMIC92AD Nifty mini manual & reference card combo, RTS WCS92 RT Systems programming software & USB cable (OPC1797 required)

Please call/web for current prices & promotions.

HF/6M RADIO



TS-480HX HF/6M All-Mode Transceiver
Covers HF/6M, including 60M and receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two 22A power supplies), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Full range of CW features; Auto tune; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/narrow deviation; 1750 Hz tone; Noise blanker; Optional IF filters available; PSK31 compatible; Packet cluster tune with TM-D700A or TM-D710A; PC-based control. Dim: 7.06" w x 2.38" h x 10.19" d; 7.05 lbs. (main unit), 7.06" w x 2.94" h x 1.44" d; 1.1 lbs. (control head).

TS-480SAT – 100W version of the HX. Includes built-in automatic antenna tuner.

Available Accessories:

HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB480 Carry bracket w/handle, MC435 8-pin hand mic, MC47 Multi function 8-pin hand mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, MJ88 Modular to 8 round pin mic adapter, PG20 22' DC cable, PG4Z 13' panel extension kit, PS60 HD 22.5A power supply, SO3 TCXO unit, SP23 Speaker, SP50B Mobile speaker, VGS1 Voice guide/storage unit, YF107C 500 Hz CW filter, YF107CN 270 Hz CW filter, YF107SN 1.8 kHz SSB filter

HF/VHF/UHF RADIO



TS-2000 HF/VHF/UHF All Mode Transceiver
Offers 3 platforms: (1) A traditional transceiver with full function front panel (TS-2000), (2) the "silver box" version with computer control software and no control panel (TS-B2000), or (3) TS-2000 with 1.2 GHz (TS-2000X). 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual RX; True IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (0.5PPM); CTCSS/DCS en/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports – 2 for HF and 6M, 1 each for 2M, 70cm and HF RX. Dim: 10.6" w x 3.7" h x 12.5" d; 17.2 lbs.

TS-B2000 HF/VHF/UHF All Mode Transceiver
TS-2000 but does not have front panel controls or LCD display. Includes ARCP-2000.

TS-2000X HF/VHF/UHF All Mode Transceiver
TS-2000 w/1.2 GHz.

Available Accessories:

ARCP2000 PC/Radio control software (included with B2000), DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC435 8-pin hand mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z 6.5' DC cable, PS60 HD 22.5A power supply, RC2000 Remote face plate kit, SP23 Speaker, VS3 Voice synthesizer, NIF MMTS2000/X Nifty mini manual

HF/6M RADIO



TS-590S HF/6M All Mode Transceiver – Covers 160-6M including 60M band. Receive Range: 0.03–60 MHz. Power: 100-5W on CW/SSB/FM/FSK & 25-5W on AM. Built-in automatic antenna tuner can operate even while receiving. Digital IF filter. Powerful 500 Hz/2.7 kHz roofing filter. Down conversion receiver, narrow first roofing filter and dedicated first mixer, which gives it the best dynamic range in its class when handling unwanted adjacent off-frequency signals. A 6kHz first roofing filter directly after the mixer enhances the noise blanker's operation. Gives receive performance that allows hearing signals that normally would be hidden on other radios. The DSP based AGC has been improved for greatly improved in-band IMD characteristics. A 32-bit DSP is employed from the IF stage forward. The transmit section uses a die-cast aluminum chassis combined with a large heat-sink and dual fans which makes it capable of withstanding long hours of operation as found on DXpeditions or during contests. Large display with 2-color LED backlight (green or amber); Adjustable TX filter and EQ; Speech processor, Adjustable TX power output; Electronic memory keyer, Full/semi break-in CW; Direct frequency entry via keypad; USB connectivity for PC and remote control; Optional TCXO, Optional Voice guide and storage; Two SO-239 antenna connections. Dim: 10.6" w x 3.8" h x 11.5" d; 16.3 lbs.

Available Accessories:

HS5 Headphones, HS6 Headphones, KPS15 23A switching power supply, MB430 Mobile bracket, MC47 Hand mic, MC60A Desk top mic, MC90 Deluxe desk top mic, PG20 22 ft. DC cable, PS60 HD 22.5A power supply, SO3 TCXO unit, SP23 External speaker, SP50B Mobile speaker, VGS1 Voice guide & storage unit, NIF MMTS590S Nifty mini manual



TM-V71A 2M/440MHz Dual Bander – Covers 144-148 and 430-450 MHz with 118-524 and 800-1300 MHz receive (cell blocked). Dual display with dimmer. Visual band scope. 1000 multi-function memory channels (10 memory scan banks) with alpha tags up to six characters. Call channel. Ten dedicated EchoLink® memory channels. Power levels are 50/10/5W on both bands. Includes: Dual receive (V+V, U+U), weather alert and cross-band repeater operation. CTCSS, DCS and tone Burst encode/decode. PL Decode/Encode Automatic repeater offset. Data jack for external TNC. Dual audio outputs on rear panel. Compatible with ARRL TravelPlus® software. Free MCP-2A programming software from www.kenwood.net. Dim: 5.5" w x 1.7" h x 7.1" d; 3.3 lbs.

Available Accessories:

DFK3D Front panel separation kit, MJ88 Modular to 8 round pin microphone plug adapter, PG2N Extra DC cable, PG5A Packet data cable, PG5F Extension cable kit, PG5G PC serial programming cable [DB9], PG5H PC interface cable kit, PG5J Interface kit for RCD710, RCD710 TNC/APRS control head, SP50B External mobile speaker, VGS1 Voice guide and storage unit, NIF MMTMV71A Nifty mini manual, RTS KRSV71 RT Systems programming software & USB cable

KENWOOD

DUAL BAND MOBILE w/TNC



TM-D710A 144/440 MHz Dual Band Data Communicator – Many more features than its predecessor, the popular TM-D700A. Covers 144-148 and 430-450 MHz transmit with 118-524 MHz (Band A), 136-524 MHz and 800-1300 MHz (Band B) less cellular receive. Dual receive, even on same amateur band; NOAA weather alert; 1000 memory channels. 50/10/5W output on both VHF and UHF. Kenwood's memory control software is compatible with the ARRL TravelPlus® CD. Allows you to route your trip in the TravelPlus software, and it figures out all the repeaters that are on the route and imports the frequency, offset and PL tone into the TM-D710A. Key features include: internal clock for APRS® (Automatic Packet/position Reporting System) time and date stamp, APRS functions: Sort; Filter, QSY; Decay algorithm; Proportional pathing; Speed and altitude beaconing, Weather beaconing with Davis® weather stations; Voice alert. EchoLink® ready with ten dedicated channels; Built-in sound card interface; NMEA 0183 GPS I/O port. Compatible with Kenwood's *Skycommand System II+* when used with the TS-2000 series. Selectable orange or green screen background. Dim: 6.24" w x 2.81" h x 2.24" d (panel), 5.60" w x 1.76" h x 6.32" d (body); 3.3 lbs.

Available Accessories:

GLL GPS710 PNP GPS unit, GLL SEP71024 24" separation kit for GPS710, MJ88 Modular to 8 round pin microphone plug adapter, PG2N Extra DC cable, PG5A Packet data cable, PG5F Extension cable kit, PG5G Programming interface kit, PG5H Computer interface kit, SP50B External mobile speaker, VGS1 Voice guide and storage unit, NIF MMTMD710A Nifty mini-manual, RTS KRSMD710 RT Systems programming software & USB cable



GREEN LIGHT LABS



GPS-710 mounted to the back of the Kenwood TM-D710A with included cables.

GPS-710 Plug-and-Play GPS for the Kenwood 710-Series – The GPS-710 is a custom built, uncluttered, plug-and-play solution for adding a stand-alone GPS to your Kenwood TM-D710 or RC-D710. It uses a top-notch 20 channel SiRF-III GPS chipset (with WAAS, ENGOS, and MSAS augmentation) that can acquire GPS lock from a cold start in well under 60 seconds. The active internal antenna has proven itself in prototyping and beta testing to maintain GPS lock, even in very unfavorable placements. The quick and easy install and setup takes typically less than 5 minutes.

SEP-710-24 – 24 inch separation cable kit to mount on vehicle glass or other spots.

Please call/web for current Prices & Promotions.

SINGLE BAND MOBILE



TM-281A 2M FM Transceiver – Covers 144-148 MHz transmit with 136-174 MHz receive. N.O.A.A. Weather band with N.O.A.A. 1050Hz alert tone check. Menu allows for easy control and selecting of various functions. Equipped with an easy-to-read large LCD with 6 character alphanumeric display capability. Up to 200 memory channels (or 100 with alphanumerics) can be used to program frequencies and other various data. FM & Narrow Band FM ready. High Power 65 Watts. Illuminated keys on both the front panel and the microphone key pad. Continuous Tone Coded Squelch System (CTCSS) or Digital Code Squelch (DCS) rejects unwanted calls from other stations. Easy to use menu system. Free PC software (Memory Control Program) is available from kenwood.net. Dim: 6.3" w x 1.7" h x 5.4" d; 2.6 lbs.

Available Accessories:

KPG46U USB programming cable, MJ88 Modular/8-pin adapter, PG2N Extra DC cable, SP50B External mobile speaker, NIF QRTM271/281 Quick reference card, RTS KRS271 RT Systems programming software & USB cable

APRS TNC UPGRADE



RC-D710 APRS TNC Upgrade – Upgrade your current Kenwood transceiver with APRS features similar to the TM-D710A. It can also replace the TM-V71A control panel to enable all TM-D710A features. Works with TM-V71A, TM-D710A, TM-D700A, TM-V708A, TM-G707A, TM-V7A, TM-733A, TM-255A & TM-455A.

BASE MICROPHONES



MC-60A Desktop Microphone – Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Operation requires two "AA" batteries.

MC-90 DSP Compatible Desk Microphone – It is supplied with two interchangeable heads. One has a flat response for good overall performance. The other offers exceptional clarity and a characteristic that peaks at around 3 kHz, perfect for DX. A three position switch on the base tailors the low-range cutoff frequency to suit the operator. Includes a 6 ft coiled cord with 8-pin plug.

MJ-88 Modular to 8-pin mic adapter.



KENWOOD SINGLE BAND HANDHELD

TH-K20A 2M FM HT

5.5/2/1W selectable RF output; TX: 144-148 MHz; RX: 136-174 MHz; 200 memories with 6-character; Narrow Band FM Ready; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Meets MIL-STD-810 standards for resistance to rain, vibration, shock & humidity; Comes with 1130 mAh Lithium Ion battery, drop in charger, belt clip and an SMA flexible antenna.

Dim: 2.3" w x 5.2" h x 1.3" d; 7.8 oz.

Available Accessories:

BT-16 Battery case (6 x AAA), KHS-22 Boom mic headset, KHS-26 Lapel clip microphone with earphone, KNB-63L 1130 mAh Lithium Ion battery, PG-4Y 9-Pin serial programming cable, SMC-32 Speaker mic., SMC-33 Speaker mic with remote buttons, SMC-34 Speaker mic with volume and function keys



DUAL BAND w/GPS

TH-D72A 144/440 MHz FM Dualband HT w/GPS

Explore new horizons with this feature rich GPS-equipped portable. Features the SiRFstar III™ high-performance GPS receiver. The TH-D72A is compatible with APRS® data communications such as position and weather information. The built-in TNC is compatible with the AX.25 protocol, providing full access to APRS functions. A wide range of APRS applications can be used when connected to a PC

with the supplied USB cable. Stand-alone digipeater; Simple node access with EchoLink® memory; Free MCP-4A Memory Control software from kenwood.net can be used with ARRL's TravelPlus software; MIL-STD & IP54 weatherproofing; Kenwood Sky Command System II compatible; Enhanced operating ease and visibility thanks to the menu and arrow keys; Keypad is backlit; USB (mini B) port; 5/0.5/0.05W selectable RF output; 1000 memory channels with 8-character names; 136-174 & 410-470 MHz RX on Band A & 118-174 & 320-524 MHz RX on Band B; 42 CTCSS frequencies; 104 DCS codes; Cross-tone; Weather Alert/RX; Dual receive on same band; And many more features! Comes with 7.4V 1800mAh Li-ion battery, AC adapter, Antenna, USB cable, Belt Hook and CD-Rom. Dim: 2.3" w x 5.5" h x 1.5" d; 13.1 oz.

Available Accessories:

BT15 Six "AAA" battery case, KHS22 Boom mic headset, KHS26 Lapel clip mic/earphone PC, KSC32 Rapid charger, PB45L 7.4V 1800mAh Lith-ion battery, PG2W DC cable, PG3J Cigarette cord with filter, SC55 Soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag, NIF MMTHD72A Nifty mini manual & quick reference card combo, RTS KRS72 RT Systems programming software (CD only)

Please call/web for current prices & promotions.



TRI BAND HANDHELD

TH-F6A FM Tri Band HT Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked), includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW receive modes; 5/0.5/0.05W output; 435 memories (8 groups of 50 channels); 16-key backlit pad plus multi-scroll key; Built-in charging circuitry; battery recharges while unit operates from a DC supply; Selectable squelch configuration; Memory shift; Key lock; Built-in CTCSS encode/decode (42 subtone frequencies) DCS (104 codes), 1750Hz tone burst; Compatible with external 1200/9600bps TNC; Large 8-character alphanumeric display; Wireless remote control function; ATT (attenuator) on/off; Internal VOX; MCP programming software via www.kenwood.net (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Comes with belt hook, SMA antenna, hand strap, PB-42L 7.4V 2000mAh lithium-ion battery and AC wall charger. Dim: 2.3" w x 3.4" h x 1.2" d; 8.8 oz.

Available Accessories:

BT13 AA battery case, KHS22 Boom mic headset, KHS26 Lapel clip mic/earphone PC, PB42L 7.4V 2000mAh lith-ion battery, PG2W DC cable, PG3J Cigarette cord w/filter, PG4Y 9 pin programming cable, SC51 Softcase with swivel belt clip, SMC32 Mini right angle speaker mic, SMC33 Speaker mic w/remote control, SMC34 Speaker mic w/volume function keys, WR2 Water resistant bag, NIF MMTHF6A Nifty manual & quick reference cards, NIF QRTHF6A Nifty quick reference cards, RTS KRSF6 RT Systems programming software & USB cable

HANDHELD MICROPHONES



SMC-34 Speaker microphone with three function keys and volume control.
SMC-33 Remote control speaker mic.
SMC-32 Speaker microphone.
KHS-26 Clip microphone w/earphone.
MC-43S Replacement 8pin round HF mic.

SPEAKERS



SP-23 Base Speaker – A 3 inch 8 ohm speaker in a metal cabinet with flip-out tilt bar. Rated at 1W with a 300-5,000 Hz response. Includes a 3 ft cable. Dim: 4.8" w x 3.75" h x 9.25" d; 2.8 lbs.
KES-5 Mobile Speaker – Heavy duty, meets Military standards. This 4 ohm speaker handles 40 Watts of power, for loud and clear audio. Includes a metal bracket and attached cable. Dim: 5.1" w x 5.1" h x 3" d; 1.8 lbs.

The Legend Continues

TS-520 - 1973



TS-570D - 1997



TS-590S



Ask any experienced Ham which HF radios have the best audio tone, the answer has always been Kenwood! The TS-590S is perhaps the best receiver you can buy for the dollar, but it not only starts there. DSP flows throughout the radio and the Noise Reduction is arguably the best in the business. Don't be fooled by big boxes, high price tags, and complex operation.

Kenwood continues to build outstanding products with unparalleled performance and value. It's not too late to own a Legend, because we are still building them today.



Heavy-Duty FM Dual Band Mobile with Exceptionally Wide Receiver Coverage*

*108 to 520 MHz/ 700 to 999.99 MHz (Cellular blocked)



• Separation Kit for Remote Mounting
(optional separation kit YSK-7800 requires)

2m/70 cm
DUAL BAND

2 m/70 cm DUAL BAND FM TRANSCEIVER
FT-7900R **new**

The King of Mobile

75 WATTS



HEAVY-DUTY 75 W 2 m FM TRANSCEIVER
new **FT-2900R**

2m
MONO BAND

Commercial Grade Field Radio Submersible Construction

Compact Field Radio with Top Mounted LCD and Loud Audio



2m
MONO BAND

new

VHF FM 5 W COMPACT
HANDHELD TRANSCEIVER
FT-270R



2m
MONO BAND

new

ULTRA-COMPACT
5 W 2 m FM HANDHELD
TRANSCEIVER
FT-250R

Best Selling, Reliable Mobile

55 WATTS



ULTRA RUGGED 55 W 2 m FM TRANSCEIVER
new **FT-1900R**

2m
MONO BAND

For the latest Yaesu news, visit us on the Internet:
<http://www.yaesu.com>

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DX'ersSM
Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

**HF/6M
RADIOS**



FT-450D HF/6M 100W Compact Transceiver
The latest and greatest version of the FT-450 Series. Covers 160-6M TX with 0.03-56 MHz RX and AM/FM/SSB/CW modes, built-in CTCSS. 500 regular memories; Power: 100W output. The automatic antenna tuner is factory installed. 10 kHz roofing filter and 400 MHz IF DSP. Built-in electronic keyer with 118 character CW beacon function. LCD display and bar-graph metering. Selectable AGC, IF width & shift, contour, digital noise reduction, manual notch filter and clarifier. Dedicated Data Jack for FSK-RTTY. Digital voice announcement of frequency, mode and S-meter. Record and playback up to 20 seconds of audio. New features added to the FT-450D are: illuminated front panel keys, foot stand, 300Hz & 500Hz CW filters, classical main dial and knobs plus a dynamic hand microphone. Dim: 9" w x 3.3" h x 8.5" d; 7.9 lbs.

Available Accessories:

NIF MMFT450/AT Nifty mini manual, ATAS120 HF/6/2/430 antenna, ATBK100 ATAS120 base kit, CT118 Control cable for Quadra System, FC40 External automatic wire antenna tuner, FP1030A 25A Power supply, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MHG1 Carrying handle, MH31A8J Extra Up/Down hand mic, MMB90 Mobile mounting bracket, T9023725 Extra DC cord, T9207451 6.5' 10-pin DIN plug & cable, YH77STA Stereo headphones



FT-950 HF/6M 100W Transceiver – Covers 160-6M (TX) and 0.03-56 MHz (RX), all modes. Power: 5-100W SSB/CW/FM (2-25W AM). DSP is utilized throughout the design providing leading-edge performance on both transmit and receive. This incorporates many features such as Variable Bandwidth, IF Shift and Passband Contour tuning. Also provided are Digital Noise Reduction, Digital Auto-Notch Filtering and manually tuned IF Notch Filter. The DMU-2000 is an option that provides extensive display capabilities via a user-supplied VGA computer monitor/LCD screen. Some of these capabilities include Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, extensive Transceiver Status Displays and Station Logging Capability. Other features include Speech Processing, built-in Electronic Keyer, Digital Noise Reduction, two SO-239 antenna jacks and an Automatic Antenna Tuner. Requires 13.8V DC power supply at 22A. Dim: 14.4" w x 4.5" h x 12.4" d; 28.7 lbs.

Available Accessories:

NIF MMFT950 Nifty mini manual, CT118 Control cable for Quadra System, DMU2000 Data management unit, DVS6 Voice memory unit, FC40 Auto tuner, FH2 Remote Keypad, FP1030A 25A Power supply with meters, MD100A8X Desk mic, with tone control, MD200A8X Deluxe hi-fidelity desk mic., MTU160 U-tuning kit 160M, MTU30/20 U-tuning kit 30/20M, MTU80/40 U-tuning kit 80/40M, SP2000 External speaker w/audio filters, T9023725 Extra DC cord, T9101556 Rotator control cable, T9207451 6.5' 10-pin DIN plug & cable, YH77STA Stereo headphones

HIGH-END HF/6M BASE STATIONS



FT-2000 HF/6M 100W Transceiver – Covers 160-6M (TX) and 0.03-60 MHz (RX), all modes. Power output: 5-100W (2-25W AM). Features: Built-in automatic antenna tuner and power supply; DSP-based variable IF Bandwidth, IF shift and Contour Tuning; First IF Roofing Filters (3 kHz/6 kHz/15 kHz included); Dual In-band Receive; Receiver Front End includes VRF (variable RF Tuning) Preselector that works in conjunction with a bank of fixed bandpass filters; External VGA display port with optional DMU-2000 unit for viewing of RF scope, Audio scope and Oscilloscope displays. Dim: 16" w x 5.3" h x 14" d; 33 lbs.

FT-2000D – Same as the FT-2000 but 200W output & ext. power supply included.

Available Accessories:

NIF MMFT2000/D Nifty mini manual, W4R OPFCW W4RT 500 Hz Collins, W4R OPFCW300 W4RT 300 Hz Collins, CT119 Firmware upgrade cable, DMU2000 Data management unit, FH2 Remote Keypad, MD100A8X Desk mic. with tone control, MD200A8X Deluxe hi-fidelity desk mic., MH31B8 Extra hand mic., MTU160 U-tuning kit 160M, MTU30/20 U-tuning kit 30/20M, MTU80/40 U-tuning kit 80/40M, SP2000 External speaker with audio filters, T9101556 Rotator control cable, YF122C 500Hz Collins CW filter, YF122CN 300Hz Collins CW filter, YH77STA Stereo headphones



FTDX-5000 HF/6M 200W Transceiver Series

The new Premium Class of Yaesu radios with 2 Independent Receivers and many features designed to meet the performance requirements of even the most demanding Amateur Radio operator. The Final Amplifier Stage incorporates two super reliable FET, VRF-150 in a push-pull configuration, offers solid 200W output (75W Class A operation). Each VFO has its own 32-bit Floating Point DSP. Uses the same metering system as the FTDX-9000 series with true analog precision and instant reaction time. The SM-5000 is an excellent bandscope monitor and stereo speaker system that is included with the FTDX-5000D & MP. Super sharp "Roofing" filters for VFO-A/Main Receiver that are selectable between 300 Hz (XF-126CN required), 600 Hz, 3/6/15 kHz. Variable CW Audio Peak Filter, and High/Low-Cut filtering. All three have built-in power supply. Covers 160-6M (TX) and 0.03-60 MHz (RX), all modes. Output is 10-200W CW, SSB, FM, RTTY, PKT (5-50W AM). Memories: 99 can be arranged into 6 groups. Dim: 18.2" w x 5.3" h x 15.3" d; 46.3 lbs.

FTDX-5000

FTDX-5000D With Station Monitor.

FTDX-5000MP With Station Monitor, 300 Hz Roofing Filter and ± 0.05 ppm OCXO.

Available Accessories:

NIF MMFTDX5000 Nifty mini manual, DMU2000 Data management unit, FH2 Remote Keypad, MD100A8X Desk mic. w/tone control, MD200A8X Deluxe hi-fidelity desk mic., MTU160 U-tuning kit 160M, MTU30/20 U-tuning kit 30/20M, MTU80/40 U-tuning kit 80/40M, SM5000 Station Monitor (comes with 5000MP & 5000D), SP2000 External speaker w/audio filters, T9101556 Rotator control cable, XF126CN 300 Hz CW filter (comes with 5000MP), YH77STA Stereo headphones



FTDX-9000 Series – Covers HF and 6 meters; available in three configurations including 200W and 400W versions. Class-A operation at 100W with 400W version and 75W with the 200W versions. The 200W versions feature a built-in power supply. There is an included external power supply for the 400W version. Large, precision analog meters and a 6.5 in. TFT display (on the FTDX-9000D) gives unprecedented information and access to dozens of features and settings. An ultra-quiet 400 MHz high resolution direct digital synthesizer combines with the state-of-the-art receiver design to yield a typical two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded FTDX-9000D includes three permeability-tuned, motor-driven "u" RF Tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing and microphone equalization and monitor for voice data and CW modes. There is also a low level transverter output port. A flash memory port and keyboard connector ensure that your station will evolve as the FTDX-9000 does. Dim: 20.4" w x 6.5" h x 17.3" d; 55-66 lbs.

FTDX-9000D 200W, TFT display.

FTDX-9000MP 400W, option TFT.

FTDX-9000 Contest 200W, no TFT.

(all FTDX-9000 radios are drop shipped from Yaesu)

Available Accessories:

MD100A8X Desk mic with tone control, MD200A8X Deluxe hi-fidelity desk mic, MH31B8 Extra hand mic, SP9000 External dual speakers with filters for FTDX-9000D & FTDX-9000Contest, YH77STA Stereo headphones

FTDX-9000Contest & MP Accessories - Drop Ship:

MTU160/DS 160M MTU, MTU30/20/DS 30/20M MTU, MTU80/40/DS 80/40M MTU, TFT9000 TFT display unit

FTDX-9000Contest Accessories From - Drop Ship:

DMU9000 Data management unit, RXU9000 Dual RX unit, VRF9000 VRF unit for RXU9000

HF POWER AMPLIFIER



QUADRA SYSTEM VL-1000/VP-1000

HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply
Covers 160 to 15 Meters, plus 6 Meters. Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6M) with 80W of drive. No tune-up, automatic bandswitching with the FT-450, FT-857, FT-897, FT-920, FT-950, FT-1000 series, FT-2000 series, DX-5000 series and DX-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The large dot-matrix LCD provides amplifier status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks for versatile equipment and antenna configurations. Dim: 16.25" w x 5.9" h x 17.7" d; 46.3 lbs. (Amp); 16" w x 5.9" h x 15" d; 32.2 lbs (PS).

Please call/web for current prices & promotions.

HF/VHF/UHF RADIOS



FT-857D Ultra-compact, HF/VHF/UHF 100W All-Mode Mobile – Blends leading-edge technologies of the FT-897 and MARK-V into the smallest full-power HF multi-mode that now includes 60M. Unique ergonomics deliver unmatched ease of use with an ultra-compact design featuring a large, main tuning dial. Covers HF, 50, 144 and 430 MHz, with 0.1-56, 76-108, 118-164 and 430-470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories (10 groups); Enhanced performance with installed DSP board; Large, 32 different backlight colors, dot matrix display; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™; Optional remote-head operation and remote control microphone. Dim: 6.1" w x 2.0" h x 9.2" d; 4.6 lbs.

YSK-857 Included with purchase.....

Available Accessories:

BET YATUNECONT Better RF tune control, NIF MMFT857D Nifty mini manual, W4R MH310BP W4RT MH31 mic with OBP installed, W4R OBPSTD W4RT Speech compressor, W4R OPFCW W4RT 500 Hz Collins, W4R OPFSSB W4RT 2.3 kHz Collins, W4R OPFYCW300 W4RT 300 Hz Collins, ADMS4BU Programming Software with USB cable, ATAS120 HF/6/2/430 antenna, ATAS25 40/20/15/10/6/2/430 antenna, ATBK100 ATAS120 base kit, CT39 Packet cable, CT58 Band data cable, CT62 Cat interface cable, EDC20 DC cord, FC30 External antenna tuner, FC40 Auto tuner, FP1030A 25A power supply with meters, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MH31A8J Extra Up/Down mic, MH36E8J TTP mic, MH59A8J Remote control TTP mic, MLS100 Mobile speaker, TCX09 TCXO unit (0.5ppm), T9023225 Extra DC cord, YA007FG FG whip with mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 kHz Collins SSB filter, YH77STA Stereo headphones, YSK857 Separation kit



FT-897D HF/VHF/UHF Multi-Mode Portable/Base – Self-contained, can operate without an external power supply. Using the optional 13.2V @ 4500mAh NiMH internal battery pack, it operates at 20W on all bands except 430 MHz. Two of these batteries may be installed simultaneously giving up to 8 hours of use. Power with external 13.8V DC @ 22A is 100W (HF/50 MHz), 50W (144 MHz) and 20W (430 MHz), all adjustable down to 5 Watts; Includes 60 meters; SSB/CW/AM/FM and digital modes; Large-diameter main tuning dial; Built-in keyer, DSP and TCXO; Selectable tuning steps (2 kHz / 4 kHz); Easy receiver offset tuning; Scrolling front panel; Multi-function keys with instant "hot key"; RS-232 port; Aluminum, die-cast chassis. Dim: 7.9" w x 3.14" h x 10.3" d; 8.6 lbs.

Available Accessories:

Uses the same accessories as the FT-857D above, except: NIF MMFT857D, CT58, FP1030A, TCX09 & YSK857

Additional accessories for FT-897D: NIF MMFT897D Nifty mini manual, CD24 4-hour charge adapter for FNB78, FNB78 4.5AH NiMH battery, FP30 Internal PS, MMB80 Mobile bracket, PA26B 110V AC charger for CD24

YAESU

HF/VHF/UHF ORP



FT-817ND HF/VHF/UHF Backpack Transceiver Self-contained and low power for portability. Transmits 160-6M, 60M, 2M, 430-450 MHz, plus 5.1675 MHz Alaska emergency channel. Receive: 0.1-56 MHz, 76-154 MHz, 420-470 MHz. Power: 5W output on SSB/CW/FM, 1.5W AM with 13.8V DC; 2.5W output on SSB/CW/FM, 0.7W AM with 9.6V NiMH pack or 8 AA's. Power programmable via menu. Dual VFOs; 200 alphanumeric memories (home channels and band-limit); SmartSearch™ memory loading. Modes: USB, LSB, CW, AM, FM, W-FM, AFSK, packet, RTTY, PSK31-U, PSK31-L. Two-color, multi-function LCD meters ALC, power output, SWR, and modulation. RF gain/squelch control; Noise blanker; Attenuator; Split capability, IF shift, and RTT; Electronic keyer; VOX; Auto repeater shift; CTCSS/DCS; Front/rear antenna jacks; PC control capability. Includes 1400mAh NiMH battery, charger, and whip antenna (50/144/430 MHz). Dim: 5.3" w x 1.5" h x 6.5" d; 2.6 lbs.

Available Accessories:

NIF MMFT817ND Nifty mini manual, W4R MH310BP W4RT MH31 mic with OBP installed, W4R OBF817/NDIY W4RT CW & SSB Collins Filter, W4R OBPSTD W4RT Speech compressor, W4R OPFCW W4RT 500 Hz Collins, W4R OPFSSB W4RT 2.3 kHz Collins, W4R OPFYCW300 W4RT 300 Hz Collins, ADMS4AU Programming software with USB cable, ATAS25 40/20/15/10/6/2M/430 MHz antenna, CSC83 Soft case, CT39 Packet cable, CT62 CAT interface cable, EDC6 DC cord, FNB85 9.6V 1400mAh NiMH, MH31A8J Extra Up/Down mic, MH36E8J TTP mic, MLS100 Mobile speaker, NC72B Wall charger, TCX09 TCXO unit, YA007FG FG whip with mount, YF122C 500 Hz Collins CW, YF122CN 300 Hz Collins CW, YF122S 2.3 kHz Collins SSB

SINGLE BAND MOBILES



FT-1900R 55W 2M FM Mobile – Most of the same features as the older FT-1802M except higher 55W maximum output and added "Memory Only" mode. Extended receive 136-174 MHz (includes a 10 channel NOAA weather bank); Power: 55/25/10/5W; 221 Alphanumeric memories with eight banks; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS), Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry. "Memory Only" mode disables VFO operation making this radio perfect for first time use operators like during public service events. Just program the memory channels and use the Dial Knob to flip through the memories. Dim: 5.8" w x 1.6" h x 5.8" d; 2.6 lbs.

Available Accessories:

NIF MMFT1900R Nifty mini manual, ADMS1900 Programming software with USB cable, MLS100 Mobile speaker, T9021715 Extra DC cable



FT-2900R 75W 2M FM Mobile – Improves from the older FT-2800M in many ways: Increased the maximum output to 75W, has a larger LCD display, "Memory Only" mode and EPCS (Enhanced Paging & Code Squelch) which allows you to place a call to a specific station and to receive calls of your choice directed only to you. The radio utilizes a ultra-high dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137-174 MHz receive. Includes Weather with Alert and 221 memories. Power: 75/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Mic gain control; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready. Dim: 6.3" w x 2" h x 7.3" d; 4.2 lbs.

Available Accessories:

NIF MMFT2900R Nifty mini manual, ADMS2900 Programming software w/USB cable, MLS100 Mobile speaker, S8002051 Extra mobile bracket, T9021015 Extra DC cable

DUAL BAND MOBILE



FT-7900R 50/45W 2M/440 MHz FM Mobile New replacement for the FT-7800R. Most of the same features except the increased 45W maximum output on 440 MHz and added "Memory Only" mode. Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater or satellite operation on both bands (Note: the FT-7900R does not cross band repeat). Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) receive. Power output: 50/20/10/5W on 2M and 45/20/10/5W on 430 MHz; N.O.A.A. WX alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; "Memory Only" mode; Built-in CTCSS and DCS encoder/decoder. Illuminated keypad & mic keys; WIRES™ capability and many other common Yaesu features like Time-Out Timer (TOT), Automatic Power Off (APO), Automatic Repeater Shift (ARS) and Auto-Range Transponder System (ARTS). Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs.

YSK-7800 Included with purchase

Available Accessories:

NIF MMFT7900R Nifty mini manual, ADMS7900 Programming software with USB cable, CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, T9021715 Extra DC cable, YSK7800 Remote separation kit

Please call/web for current prices & promotions.

DUAL & QUAD BAND MOBILES

FTM-10 series doesn't include a hand mic. Mic and PTT is built in the control head.



FTM-10R 50/40W 2M/440 MHz FM Mobile Compact, perfect for outdoor motor sports communications. TX: 144-148 and 430-450 MHz; RX: 0.5-1.8, 76-222, 300-999 MHz (cell blocked). Has 500 memory channels with 8-digit alphanumeric tags. Listen to AM or FM broadcast and monitor an amateur band at the same time. AM/FM/NFM/WFM (Stereo) modes. Power Output: 50/20/5W on 144 MHz and 40/20/5W on 440 MHz. The mic and PTT button are built into the front panel. Optional conventional hand mic MH-68A6J is available. Dual receive; Smart Search; CTCSS & DCS; DTMF. 1200/9600 bps Packet jack; WIRES-II™ and Bluetooth capable. PA function; Comes with mounting brackets and 10 ft. separation cable. Dim: 4.4" w x 1.5" h x 7" d; 2.9 lbs.

Available Accessories:

AMK1 License plate bracket for YHAM-10, BLUETOOTHKIT Bluetooth Kit, CD40 3 hour bluetooth charge cradle, COX2MM 6.6' coax cable for YHAM-10, CTM10 20' separation cable, CTM11 Headset connection cable, FEP4 Other earphone for bluetooth, MEKM10 Mic adapter jack, MH68A6J Waterproof DTMF hand mic, MH68B6J Waterproof 3-key hand mic, MLS200M10 High power waterproof external speaker, MMBM10 Multi-angle stand bracket, MMBM11 Multi-angle handlebar bracket, NC85B Battery charger for CD40, YHAM10 2M/440 19.7" antenna



FT-8800R 50/35W 2M/440 MHz FM Mobile Easy operation, outstanding receiver performance, and crossband repeat capability. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) wide coverage receive; Power: 50/20/10/5W on 144 MHz, 35/20/10/5W on 440 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band and six "Hyper Memories"; Independent 2-channel operation - dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; One-touch band pattern; CTCSS/DCS (50/104 tone); Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs. **YSK-8900 Included with purchase**

FT-8900R Quad Band FM Mobile - Same as the FT-8800R but covers 28-29.7, 50-54, 144-148, 430-450 MHz TX with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) RX. Power: 50/20/10/5W (10/6/2M), 35/20/10/5W (430 MHz). **YSK-8900 Included with purchase**

Available Accessories for FT-8800R & FT-8900R:

NIF MMFT8800R Nifty mini manual (FT-8800 only), NIF MMFT8900R Nifty mini manual (FT-8900 only), ADMS2H Programming software with USB cable (FT-8900 only), ADMS2I Programming software with USB cable (FT-8800 only); CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release bracket, T9021810 Extra DC cable, YSK8900 Remote separation kit



DUAL BAND WITH OPTIONAL APRS & BLUETOOTH



Comes with a standard DTMF hand mic.

FTM-350AR 50W 2M/440 MHz FM Mobile with Optional GPS / APRS® / Bluetooth® Features Same as the older FTM-350R but comes with new firmware and a suction cup mounting bracket. The large 5.2" x 1.6" dot matrix LCD display has the choice of 8 different vibrant background colors. Dual speakers are mounted on the rear of the control head. For GPS and APRS® operation the optional internal GPS Receiver (FGPS-1) or the external GPS (FGPS-2) with (CT-136) Adapter and (CT-133) Extension cable is required. With GPS you are able to display your friends APRS® Stations (FTM-350R/AR and VX-8R/DR/GR) directions, distances and other information in relation to your location. The optional Bluetooth® Kit (BTK-5) comes with everything you need for hands-free radio operation using the Bluetooth® headset. Covers 0.5-1.8, 76-250 and 300-1000 MHz receive (cell blocked) with AM & FM Stereo Broadcast on the "L-Band". 108-250 and 300-1000 MHz receive (cell blocked) on the "R-Band". Transmits 144-148 and 430-450 MHz at selectable 50/20/5W, 222-225 MHz at 1W. 500 memory channels for each L & R Band makes a total of 1000 with alpha-tags. Nine programmable Band Limit Memory Scan channels. The front panel has a built-in mic and can activate the PTT button or use the DTMF hand mic that is included. 1200/9600 bps 8-pin mini DIN packet port. Simultaneous Dual Band Receive and Full-Duplex Operation. Built-in Barometric pressure sensor. Also has optional Voice Guide Unit (FVS-2). Some of the new firmware enhancements are: GPS Standard format NMEA ready, Way point data out. APRS® will operate in the background on single band. Additional voice alert function. Reallocated often used keys to more convenient positions. Dim: 6.3" w x 2.6" h x 1.3" d (head), 5.6" w x 1.8" h x 6" d (body); 4.6 lbs.

Available Accessories:

NIF MMFTM350R Nifty mini manual (for both FTM-350R/AR), ADMS350 Programming software with USB cable, BTK5 Bluetooth kit (BH2A, BU1, CD40, NC85B), BU1 Bluetooth adapter, CAB1 Charger sleeve for Bluetooth headset, CD40 3-hour Bluetooth charge cradle, CT132 20' separation cable, CT133 GPS extension cable for FGPS2, CT135 Clone cable, CT136 GPS antenna adapter, CT140 Packet cable (DIN8-DIN6+DUSB9), CT141 Packet cable (DIN8-DIN6), CT142 Packet cable (DIN8-DUSB9), FEP4 Other earphone for bluetooth, FGPS1 Internal GPS, FGPS2 External GPS, FPR1 Monitor unit, FVS2 Voice guide unit, MLS200M10 Waterproof external speaker, MMB60 Quick release bracket, MMB98 Suction cup mounting bracket for control head (comes with FT350AR), NC85B Battery charger for CD40

YAESU ACCESSORIES



FP-1030A - 25A PS w/meters.



MLS-200M10 - Waterproof Speaker.



MLS-100 - Mobile Speaker.

SINGLE BAND HTs

FT-250R 5W 2M FM HT

Most of the same features as the old VX-150 except increased audio output; added "Memory Only" mode and replaced the NiCad battery with NiMH. Coverage: 144-148 MHz TX, 136-174 MHz RX. Three power output levels 5/2/0.5W; Wide/Narrow deviation selection; Direct keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™; 209 Alpha memory channels; 9 DTMF auto dial memo memory bank and preferential memory scanning; CTCSS & DCS encode/decode; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ function; Die-cast aluminum case; Selectable 400mW or 700mW audio power output; MIL-STD 810D/E. Comes with NiMH battery pack, SMA antenna, wall charger and belt clip. Dim: 2.3" w x 4.3" h x 1" d; 12.4 oz.



Available Accessories:
NIF QRFT250 Nifty quick reference card, ADMS250 Programming software w/USB cable, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC plug/wire only, FBA25 6 "AA" cell battery case, FNB83 7.2V 1400mAh NiMH battery, LCC150/TT Leather case, LCC150S/TT Leather case/swivel, MH34B4B Speaker mic, MH37A4B Earpiece and mic, VAC370 Rapid charger, VC25 VOX headset

FT-270R 5W 2M FM HT

New replacement for the VX-170. Most of the same features as the previous model except increased audio output and added "Memory Only" mode. A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. 5/2/0.5W selectable output. Receive coverage is from 136-174 MHz and has 200 alpha memory channels that may be partitioned into as many as 10 memory groups. A 16 key backlit keypad for direct frequency entry and 4 column DTMF Paging. CTCSS/DCS encode/decode and a Code Squelch (EPCS) that allows paging a particular station and only receive calls from that station if desired. Loud, 800mW audio for noisy field operations. One-touch access to the Yaesu WIRES-II™ VOIP Internet Linking System. Comes with Ni-MH battery, flexible SMA antenna, wall charger and belt clip. Dim: 2.4" w x 4.7" h x 1.3" d; 13.8 oz.



FT-277R 5W 440 MHz FM HT - Same but 430-450 MHz TX and 420-470 MHz RX.

Available Accessories:

NIF QRFT270 Nifty quick reference card (FT-270R only), ADMS270 Programming software with USB cable (FT-270R only), ADMS277 Programming software with USB cable (FT-277R only), CD26 Charger cradle, CN3 BNC-SMA adapter, CT91 Mic adapter, EDC5B DC adapter/filter, EDC6 DC plug/wire only, FBA25 6 "AA" cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH57A4B Speaker mic, MH73A4B Submersible speaker mic, NC88B Extra wall charger, VAC370 Rapid charger, VC24 VOX headset, VC27 Earpiece/mic

Please call/web for current prices & promotions.

YAESU

DUAL BAND HT



FT-60R 144/440 MHz FM Dualband FM HT – Covers 108-520 and 700-999 MHz (cell blocked) receive. Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W on 144-148 and 430-450 MHz; 1000+ memories with alpha-tags; Emergency Automatic ID (EAI) feature, for search-and-rescue operations. Split CTCSS/DCS and DCS encode-only capability; Enhanced Paging and Code

Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; 9 DTMF auto-dialer memories; WIRES™ access key; Auto repeater shift; Auto-Range Transponder System (ARTS™); Rugged die-cast case, water-resistant; Comes with FNB-83 7.2V 1400mAh NiMH battery pack, NC-88B overnight charger, flexible SMA antenna, and belt clip. Dim: 2.3" w x 4.3" h x 1.2" d; 13 oz.

Available Accessories:

NIF QRF760R Nifty quick reference card, ADMS1J Windows software w/USB cable, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker/mic adapter, EDC5B Cigarette lighter adapter, EDC6 DC plug/wire only, FBA25 6 AA cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH34B4B Speaker mic, MH37A4B Earpiece & mic, NC88B Extra wall charger, VAC370 Rapid charger, VC25 VOX headset

MICRO DUAL BAND HT



VX-3R Compact 144/440MHz Dual Band FM HT Covers 144-148 MHz and 430-450 MHz with wideband receive from 500 kHz to 999 MHz (cell blocked). Includes AM/FM/NFM/WFM modes so you can hear the AM, short-wave and FM broadcast bands, aircraft and public service channels. 1000 alpha memory system with special memory banks for Weather, Broadcast, VHF Marine and Shortwave Broadcast. The sub-RX feature allows listening to AM or FM broadcast stations while monitoring a HAM frequency which you can talk on instantly by hitting the PTT button. Power output with the supplied 1000 mA hour Lithium-Ion battery is 1.5W (VHF) and 1W (UHF). Using the optional EDC-21 DC adapter output increases to 3W (VHF) and 2W (UHF). Rugged aluminum die-cast chassis. CTCSS/DCS Encode/Decode with split tone capability; DTMF; Messaging; AM Band Bar Antenna; WIRES™-II Internet Key; Automatic In-Range Transponder System (ARTS); FM Stereo Earphone jack; CW Learning and Training; Mechanical Dial Lock; Internal temperature sensor. Comes with the lithium-ion battery, charger and SMA flexible antenna. Dim: 1.9" w x 3.2" h x 0.9" d; 4.6 oz.

Available Accessories:

AES MT4 Vehicle air vent mount, NIF QRVX3R Nifty quick reference cards, ADMSVX3 Programming software with USB cable, CN3 BNC-SMA adapter, CSC92 Soft case, CT27 Cloning cable, CT44 Two pin mic adapter (for older Yaesu mics), EDC21 Cigarette lighter adapter, FBA37 Cell Holder (3 x AA), FNB82LI 3.7V 1000 mAh Lithium Ion battery, MH34B4B Speaker mic, MH37A4B Compact lapel mic with earphone, NC85B Extra battery charger, VC25 VOX/PTT headset

TRI BAND HT



VX-6R 144/220/440 MHz FM Triple band Submersible HT – 5W power on 144/440 MHz and 1.5W on 220 MHz; Wide receive coverage: 500 kHz to 998.990 MHz (cell blocked); 900 alpha memory channels with 24 memory banks and two "Special Memory" groups; New "Wake-Up" feature checks for activity when the radio is turned off!

Emergency Automatic ID (EAI) system; Four output power settings: 5/2.5/1/0.3W on 144/440 MHz, 1.5/1/0.5/0.2W on 220 MHz; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temperature sensor; WIRES™ internet-linking; The optional SU-1 barometric pressure sensor unit permits monitoring of sudden weather changes by monitoring atmospheric pressure. Comes with FNB-80LI 7.4V 1500mAh Li-Ion battery, NC-72B battery charger, flexible SMA antenna, belt clip and hand strap. Dim: 2.3" w x 3.5" h x 1.1" d; 9.5 oz.

Available Accessories:

NIF QRVX6R Nifty quick reference card, ADMSVX6 Programming software with USB cable, CD15A Charger stand for NC72B, CN3 BNC-SMA adapter, CSC91 Soft case, CT91 Mic adapter, EDC5B Cigarette lighter adapter, EDC6 DC adapter/plug/wire only, FBA23 2 AA cell battery case, FNB80LI 7.4V 1500mAh lithium-ion, MH57A4B Speaker/mic, MH73A4B Submersible speaker mic, NC72B Extra wall charger, SU1 Altitude/barometric pressure sensor, VC24 VOX headset, VC27 Earpiece/mic

QUAD BAND HTs



VX-7RB Ultra-Rugged, Submersible Magnesium FM HT – Quad-band HT With a full 5W FM output on 50, 144 and 440 MHz, 300mW FM output on 220 MHz band. The unit is submersible at 3 ft. for 30 minutes and meets JIS-7 specification. 500 kHz to 999 MHz receive (cell blocked); Over 900 memories including 40 memory scan band limit and 10 weather channels; Built-in CTCSS/DCS encode/decode; "Split

Tone" capability; Auto-Range Transponding System (ARTS) uses DCS signaling to provide a "hand-shake" between two ARTS equipped radios to verify communication range; Full-color strobe LED; Spectrum scope display; On/Off timers; WIRES™ internet-linking; Optional barometric pressure sensor (SU-1) helps monitor sudden weather changes. Comes with FNB-80LI 7.4V 1500mAh lith-ion battery, battery charger and dual section belt clip. Dim: 2.4" w x 3.5" h x 1.1" d; 9.2 oz.

Available Accessories:

NIF QRVX7R Nifty quick reference card, ADMS1G Programming software with USB cable, CD15A Rapid charger for NC72B, CN3 BNC-SMA adapter, CSC88 Soft case, CT91 Mic adapter, EDC5B Cigarette lighter adapter, EDC6 DC plug/wire only, FBA23 2 "AA" battery case, FNB80LI 7.4V 1500mAh lith-ion, MH57A4B Speaker/mic, MH73A4B Submersible speaker mic, NC72B Extra wall charger, Q3000185 Replacement duck, SU1 Altitude/barometric sensor, VC24 VOX headset, VC27 Earpiece/mic

Please call/web for current prices & promotions.



VX-8DR Ultra-Rugged, Submersible APRS® FM HT – Full 5 watts FM on 50/144/430 MHz plus 1.5 watts FM on 220 MHz. Wideband receive 500 kHz to 999.990 MHz (cell blocked). Over 1200 memory channels! It supports Bluetooth hands-free operation with the optional Bluetooth kit. There is also an optional GPS unit and antenna with loads of features. This radio supports APRS® 1200/9600 bps data

communication (B band only). The VX-8DR is submersible and meets IPX7 specifications (3 feet for minimum of 30 minutes). A powerful 7.4V 1100 mAh Li-Ion battery is included. Dual Ham band Operation (V+V/U+U/V+U) while listening to AM/FM Broadcasts. WX receive with Weather Alert. A barometric & temperature sensor is included. High-resolution Spectrum Analyzer with ±60 channels indication with wave monitoring of received/modulated signal! DCS/CTCSS encode & decode is standard. More APRS® features than the original VX-8R including: Smart Beaconing™ that plots a smoother trace to match your position and movement on a map; Station List memories increased from 40 to 50; APRS® Message memories increased from 20 to 30; DIGI-PATH route indication function: The APRS® Packet data includes Digipeater info; Heads up compass display to the GPS Screen; Message Received LED flashing rate is selectable; DIGI-PATH route settings increased from 1 to 7. Dim: 2.36" w x 3.74" h x 0.92" d; 8.5 oz.

Available Accessories:

NIF MMVX8DR Nifty mini manual & reference card combo, ADMSVX8 Programming software with USB cable, BTK5 Bluetooth kit (BH2A, BU1, CD40, NC85B), BU1 Bluetooth radio adapter, CD40 3 hour bluetooth charge cradle, CD41 Rapid charge cradle, CN3 BNC-SMA adapter, CSC93 Soft carrying case, CT131 Mic plug adapter, CT134 Cloning cable, CT136 GPS antenna adapter, EDC5B Cigarette lighter adapter, EDC6 DC plug/wire only, FBA39 3 "AA" battery case, FEP4 Other earphone for bluetooth, FGPS2 GPS antenna unit, FNB101LI 7.4V 1100mAh lith-ion, FNB102LI 7.4V 1800mAh lith-ion, MH74A7A Waterproof speaker/mic, NC85B Battery charger for CD40, NC86B Extra battery charger, Q3000185 Replacement duck

DUAL BAND w/GPS



VX-8GR 144/440 MHz FM Dualband HT w/GPS 144/440 MHz Dual Band Transceiver with the GPS unit and antenna built-in; Full 5W FM output on the 2M and 440 MHz bands. APRS Ready with Smart Beaconing; Wide Band Receive for 108-999 MHz (cellular blocked). Has the same APRS features as the VX-8DR listed above. The

VX-8GR is not compatible with Bluetooth.

Dim: 2.4" w x 3.7" h x 1.1" d; 8.8 oz.

Available Accessories:

NIF MMVX8GR Nifty mini manual & reference card combo, ADMSVX8GR Programming software with USB cable, CD41 Rapid charge cradle, CN3 BNC-SMA adapter, CSC95 Soft carrying case, CT143 RS-232 PC cable, CT144 Cloning cable, CT44 2 Pin speaker/mic adapter (for older Yaesu mics), EDC5B Cigarette lighter adapter, EDC6 DC plug/wire only, FBA39 3 "AA" battery case, FNB101LI 7.4V 1100mAh lith-ion, FNB102LI 7.4V 1800mAh lith-ion, MH34B4B Speaker/mic, MH37A4B Earpiece/mic, NC86B Extra battery charger

(1) Manufacturer only guarantees specs within the ham bands
(2) There are gaps in non-voice or data portions in certain bands

(3) FT-8900R includes 10W/6M as well
(4) Control head can not be attached to the body
All radios are cellular blocked

SINGLE BAND MOBILES

MANUFACTURER MODEL	ALINCO DR-03T	ALINCO DR-06T	ALINCO DR-135T/MKIII, DR-135T/P/MKIII	ALINCO DR-235T/MKIII	ICOM IC-2200H, IC-2300H	ICOM IC-V8000	ICOM ID-1 ⁽⁴⁾	JETSTREAM JT-220M	KENWOOD TM-281A	MFJ 9402X	MFJ 9406X	YAESU FT-1900R	YAESU FT-2900R
TX RANGE (MHz)	28-29.695	50-53.995	144-148	222-224.995	144-148	144-148	1240-1300	222-224.995	144-148	144-144.3	50-50.3	144-148	144-148
RX RANGE (MHz)	28-29.695	50-53.995	118-174	216-279.995	118-174	136-174	1240-1300	216-280	136-174	144-144.3	50-50.3	136-174	136-174
AIRCRAFT RX	NO	NO	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	10/5/1W	50/20/5W	50/10/5W	25/10/5W	65/25/10W	75/25/10/5W	10/1W	50/25/10W	65/25W	7W SSB	10W SSB	55/25/10/5W	75/30/10/5W
TTP MICROPHONE	YES	YES	YES	YES	YES	YES	NO	YES	YES	NO	NO	YES	YES
TO NE ENCODE	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	NO	NO	CTCSS/DCS	CTCSS/DCS
TO NE DECODE	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	NO	NO	CTCSS/DCS	CTCSS/DCS
MEMORIES	100	100	100	100	207	207	100	100	200	0	0	221	221
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES
PC PROGRAMMABLE	NO	NO	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES
13.8V DC@	3A	11A	11A	8A	15A	15A	7A	9A	13A	2A	2A	11A	15A
ANTENNA CONNECTOR	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	TYPE-N	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239
HEIGHT (IN) (HEAD)	1.57	1.57	1.6	1.6	1.6	2	1.6 (2)	1.85	1.7	2.5	2.5	1.6	2
WIDTH (IN)	5.85	5.85	5.6	5.6	5.5	5.9	5.6 (5.9)	5.7	6.3	6.5	6.5	5.8	6.3
DEPTH (IN)	6.83	6.83	6.9	6.9	7.1 (6.4)	5.9	6.5 (1.9)	7.5	5.4	6	6	5.8	7.3
WEIGHT (LBS)	2.21	2.21	2.3	2.3	2.75 (2.43)	2.22	2.6 (0.5)	2.7	2.6	2	2	2.6	4.2

Links to Manufacturer's
Websites at aesham.com

MULTI BAND MOBILES

MANUFACTURER MODEL	ALINCO DR-635T	ALINCO IC-208H	ICOM ID-880H	ICOM IC-2820H	KENWOOD TM-V71A	KENWOOD TM-D710A ⁽⁴⁾	YAESU FTM-10R	YAESU FT-7900R	YAESU FT-8800R	YAESU FT-8800R	YAESU FT-8800R	YAESU FTM-350AR ⁽⁴⁾
TX RANGE (MHz) ⁽¹⁾	144-148 430-450	144-148 440-450	144-148 430-450	144-148 430-450	144-148 430-450	144-148 438-450	144-148 430-450	144-148 430-450	144-148 430-450	28-29.7, 50-54 144-148 430-450	28-29.7, 50-54 144-148 430-450	144-148 222-225 430-450
RX RANGE (MHz) ⁽¹⁾	87.5-108 108-174 335-480	118-174 230-550 810-999	118-174 230-550 810-999	118-549.99 (LEFT) 118-173.99, 375-549.99 810-990.99 (RIGHT)	118-154 (A BAND) 136-524 800-1300 (B BAND)	118-470 (A BAND) ⁽²⁾ 136-175, 300-524 800-1300 (B BAND) ⁽²⁾	0.5-1.8 76-222 300-999	0.5-1.8 76-222 300-999	108-520 700-999	108-520 700-999	28-29.7, 50-54 108-180 320-480, 700-985	0.5-1.8, 76-250 300-1000 (L-BAND) 108-250, 300-1000 (R-BAND)
SINGLE OR DUAL RX	DUAL	SINGLE	SINGLE	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL
POWER (2M)	50/25/5W	55/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	50/20/5W	50/20/5W	50/20/5W	50/20/10/5W	50/20/10/5W	50/20/5W, (1W on 220)
POWER (440 MHz)	35/20/5W	50/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	40/20/5W	45/20/10/5W	35/20/10/5W	35/20/10/5W	35/20/10/5W	50/20/5W
MEMORIES	200	500	1052	522	1000	1000	500	1000	1000	800	1000	1000
TO NE ENCODE	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS
TO NE DECODE	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS
DUPLEXER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CROSS-BAND REPEAT	YES	NO	NO	YES	YES	YES	NO	NO	YES	YES	YES	YES
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
GPS	NO	NO	NO	OPTIONAL	NO	OPTIONAL	NO	YES	YES	NO	NO	OPTIONAL
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9600B COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SEPARABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
HEIGHT (IN) (HEAD)	1.6	1.6	1.6	1.65 (1.25)	1.7	1.7 (2.8)	1.5	1.6	1.6	1.6	1.6	1.8 (2.6)
WIDTH (IN)	5.5	5.6	5.9	5.9 (5.9)	5.5	5.6 (6.2)	4.4	5.5	5.5	5.5	5.5	5.6 (6.3)
DEPTH (IN)	7.3	7.3	7.8	7.4 (2.6)	7.1	6.3 (2.2)	7	6.6	6.6	6.6	6.6	6 (1.3)
WEIGHT (LBS)	2.2	2.7	2.9	3.3 (0.46)	3.3	2.6 (0.6)	2.9	2.2	2.2	2.2	2.2	4.6

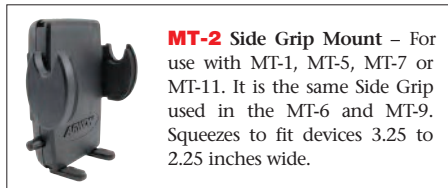


Inexpensive/Convenient Mobile Mounting Solutions for Small Radios and Accessories

Express Mount: Accepts the button on the back of a hand-held or rotate it 180° to use the radio's belt clip. Also comes with 2 adhesive buttons for other devices.
AMPS: An "industry standard" rectangular hole pattern measuring 1.496 x 1.181 inches on-center with 0.218 in. dia. holes. The plates have 6 mounting holes total.



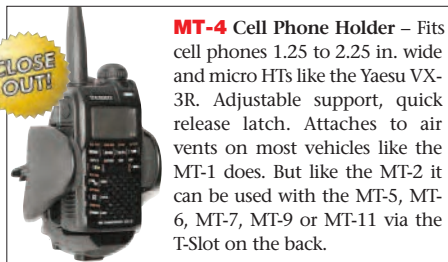
MT-1 Vent Mount for Remote Heads – Has a 4-hole AMPS pattern that attaches to ALINCO, ICOM, KENWOOD and YAESU remote heads. Swivels 360° for optimal viewing and tightens easily with a tightening ring. Installs and removes in seconds. Fits most horizontal vent louvers.



MT-2 Side Grip Mount – For use with MT-1, MT-5, MT-7 or MT-11. It is the same Side Grip used in the MT-6 and MT-9. Squeezes to fit devices 3.25 to 2.25 inches wide.



MT-3 Motorcycle/Bike Handlebar Mount with Express Mount – For use with bicycles, motorcycles, golf carts, ATVs, snowmobiles, hang gliders, or any other apparatus having cylinder-shaped frames or posts.



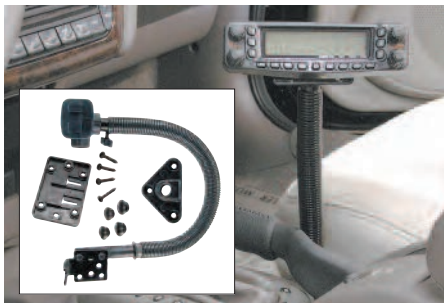
MT-4 Cell Phone Holder – Fits cell phones 1.25 to 2.25 in. wide and micro HTs like the Yaesu VX-3R. Adjustable support, quick release latch. Attaches to air vents on most vehicles like the MT-1 does. But like the MT-2 it can be used with the MT-5, MT-6, MT-7, MT-9 or MT-11 via the T-Slot on the back.



MT-5 Visor Mount with Express Mount
 Easy to install, no tools required. Slides on to the visor with ease.



MT-6 Bean Bag with Side Grip Mount – Secure a radio or other device when you can't use a windshield mount. The 7.25" w x 6.25" d, 1.3 lb. "bag" with non-slip bottom and smooth mounting surface for the suction cup mount holds securely wherever you put it. A rear safety anchor can secure the bag to your dash, etc. for additional stability.



MT-7 Floor/Seat Bolt Mount – Easy to install, without drilling. Simply loosen a passenger-side seat track bolt and slide the mounting bracket under it. It has a gooseneck swivel mounting pedestal that allows positioning for optimal viewing. Comes with a 4-hole AMPS plate that lines up with YAESU and most ALINCO remote heads. ICOM or KENWOOD heads require drilling two additional holes. The plastic tubing can hide the wires.



MT-8 Suction Cup Window with Express Mount
 The Express Mount is attached to an integrated swivel and can be rotated 360 degrees. Mount any electronic device using a button, leather case or OEM clip. Turning the mount upside down reveals a slot for a belt clip. Use the MT-13 adhesive disc to mount on any flat surface like the dash.



MT-13 – New disc & prep kit for MT-8/MT-9.
MT-14 – Same kit but for MT-10/MT-12.
MT-15 – Surface Prep Kit Only.



MT-9 Low-Vibration Windshield/Dash Mount with Side Grip Mount – Same as the MT-6 without the bean bag. Includes an adhesive disc to mount on a dash or other flat surface.



MT-10 Low Profile Dash Mount – Accommodates a variety of devices including hands-free phone cradles, iPod holders, XM satellite radios, GPS units and Ham Radio remote heads. Swivels 30° in any direction, securely holding its position without tightening or locking. Attaches using a strong adhesive mounting pad. Has the AMPS hole pattern and includes an "L" bracket.



MT-11 Cup Holder Mount with Express Mount
 Your vehicle's cupholder is a convenient place to mount your HT or remote radio head. An adjustment wheel on the top of the base allows fitting to cup holders from 2.5 to 3.25 inches. The express mount can accommodate button type mounts a belt clip. To mount a remote control head (like an FT-8900), simply remove the express mount to reveal a plate with a 4-hole AMPS pattern.



MT-12 The "BUG" Console/Dash Mount – Secures radio control heads for HAM, XM and Sirius radios. Two arms rotate back and forth and pivot in and out which allows mounting to different control heads and hole patterns. Adjusts with a twist of a thumb-screw. Mounts in a variety of locations, even in a hanging position near the rear view mirror. Installs with an adhesive backed mounting pad.

MFJ Power Supplies & Accessories

Economically Power your Station Equipment and Accessories with one of these MFJ MightyLite™ or Compact Switching Power Supplies!

Small • Super Lightweight • Rugged • No RF Hash or Noise!

4125



4125P



4225MV



4245MV

Lightweight – The 25 Amp *MightyLites*™ weigh in at under 4 lbs. which is 4 to 5 times lighter than an equivalent conventional design power supply. The 45 Amp model is just 5.5 pounds! No more hauling around heavy, bulky power supplies.

No RF Hash – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But these babies are clean!

Low Ripple and Highly Regulated – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

Fully Protected – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.

Worldwide Versatility – Switchable AC input voltage handles 85-135 or 170-260VAC.

Mighty Features – Model 4225MV and 4245MV feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way heavy-duty binding posts and cigarette lighter socket for mobile accessories. The 4245MV has two sets of quick-connects on the rear for accessories. Dual 3 in. illuminated meters monitor load voltage and current. Internal fan cooling.

4125 (left) – Basic, no metering. 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5" w x 2.5" h x 5.75" d; 3.5 lbs.

4125P – Same, but adds 2 pairs of PowerPole® connectors on the front panel.

4225MV (center) – 25 Amps max. or 22 Amps continuous. Dim: 5.75" w x 4.5" h x 6" d; 3.7 lbs.

4245MV (right) – 45 Amps max. or 40 amps continuous. Dim: 7.5" w x 4.75" h x 9" d; 5.5 lbs.

Compacts for QRP



4103

4110

4103 Compact Switching Power Supply – For Yaesu FT-817 or other QRP rigs and MFJ accessories. Input: 100-240VAC, Output: 13.8 VDC @ 2.89 Amps. Over-voltage, over-current, and over-temperature protected. Includes output cable with a 2.1 mm plug and adapter cable for FT-817. Dim: 2.63" w x 1.38" h x 4.13" d; 10 oz.

4110 Compact AC Power supply – Includes a 2.9 Amp AC wall adapter and 13.8VDC Power Module. Perfect for QRP transceivers.

75 Amp Switching Power Supply

4275MV 75 Amp Switching Power Supply – Features MFJ's exclusive HashSQUELCH™ RF Filtering System that eliminates RF Hash that plagues other manufacturer's switching power supplies. 4 to 16 VDC adjustable and 70 amps of continuous power makes it perfect for powering multiple transceivers or solid state mobile amplifiers like the Ameritron ALS-500M. Highly regulated with load regulation better than 1% and ripple voltage is less than 12 mV peak-to-peak at rated load. Short-Circuit, Overload and Over-Temperature protection systems. One pair of 5-way binding posts, one pair of high current 5-way binding posts, cigarette lighter socket, two pairs of quick connects and two pairs of PowerPole® connectors. Battery charging feature can be used to charge your car battery. Dim: 9.75" w x 5.5" h x 9.5" d; 10.5 lbs.



Conventional 30 Amp Power Supply

- Conventional, non-switching
- Massive 19.2 lb. transformer
- Adjustable 1 to 14 VDC
- Dual front panel meters

4035MV Super Heavy Duty! Excellent for powering all types of amateur transceivers and accessories. Easily delivers 30 Amps continuous (35 Amps maximum) with regulation better than 1% and ripple voltage less than 30mV. Over-voltage, fold back and short circuit protected and variable-speed fan cooled. Plenty of connections – 3 sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, 2 pairs of quick-connects for accessories and a cigarette lighter socket for mobile accessories. Dim: 9.5" w x 6" h x 9.75" d; 20.6 lbs.



AMERITRON

In-Rush Current Protector
Limits initial Power On in-rush current and absorbs momentary voltage spikes.
ICP-120 (110-120V) or
ICP-240 (220-240V)

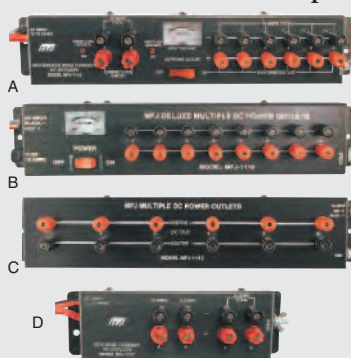


MFJ AC LINE VOLTAGE MONITOR



850B AC Line Voltage Monitor
Plug into a wall outlet to monitor AC line voltage. The color coded scale lets you read from 95 to 135V AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75" w x 4" h x 1.1" d.

MFJ High Current DC Multi-Outlet Strips



Distributes high current 12V DC power for radios and accessories from your station's main DC power source. Keeps everything neat, organized and safe by keeping wires from tangling and shorting out. All outlets fused, switched and RF bypassed.

1118 (A) Deluxe Multiple DC Power Strip – Distribute 12V DC to (2) radios and (6) or more accessories. Provides (2) pairs of heavy-duty 30 Amp, 5-way binding posts, all fused and RF bypassed, and (6) pairs of 15 Amp 5-way binding posts for accessories. Master fuse, on-off switch with power LED, built-in 25V voltmeter, 6 ft. 8 ga. cable. Dim: 12.5" w x 2.75" h x 2.5" d.

1116 (B) – Like the 1118 but without 30 Amp posts.

1112 (C) – Similar to the 1116 but without on-off switch, power LED, voltmeter or fuse. Dim: 12.5" w x 2.75" h x 2.5" d.

1117 (D) – Like the 1118 but without meter, power LED or on-off switch. Powers up to (4) radios with (2) 35 Amp single posts and (1) 35 Amp dual post. Dim: 8" w x 2" h x 3" d.

The Low Cost alternative to those "matching" Power Supplies



Input: 105-125V AC, Output: 13.8V DC, Internally adjustable from 11-15V DC.

Solid-state electronically regulated with fold-back current limiting and crowbar overvoltage protection. Heavy-duty heat sink. Three-wire AC power cord and chassis mounted fuse. One-year warranty - made in USA.

RS-20M, RS-35M, RS-50M and RS-70M have separate Volt and Amp meters. VS-20ML, VS-35M and VS-50M have separate V/A meters, plus 2-15V DC voltage adjustment. RM-35M, RM-50M and RM-60M are Rack Mount with separate V/A meters.

MODEL	Cont. Amps	ICS Amps	Dim: h w d (in.)	Shipping weight	PRICE
RS-7A	5	7	3.75 x 6.5 x 9	9#	
RS-10A	7.5	10	4 x 7.5 x 10.75	11#	
RS-12A	9	12	4.5 x 8 x 9	13#	
RS-20A	16	20	5 x 9 x 10.5	18#	
RS-35A	25	35	5 x 11 x 11	27#	
RS-50A	37	50	6 x 13.75 x 12	46#	
RS-70A	57	70	6 x 13.75 x 12	48#	
Separate Volt & Amp meters					
RS-20M	16	20	5 x 9 x 10.5	18#	
RS-35M	25	35	5 x 11 x 11	27#	
RS-50M	37	50	6 x 13.75 x 11	46#	
RS-70M	57	70	6 x 13.75 x 12	48#	
Adjustable output 2-15V DC; separate Volt & Amp meters					
VS-20ML	16	20	5 x 9 x 10.5	20#	
VS-35M	25	35	5 x 11 x 11	29#	
VS-50M	37	50	6 x 13.75 x 11	46#	
Rack mount; separate Volt & Amp meters					
RM-35M	25	35	5.25 x 19 x 12	38#	
RM-50M	37	50	5.25 x 19 x 12	50#	
RM-60M	50	55	7 x 19 x 12	60#	

SWITCHING POWER SUPPLIES

- Heavy Duty Design
- Low Profile
- Lightweight



SS-25 - 12V DC, 25 Amps ICS, 20 Amps continuous. Dim: 7"w x 3"h x 9.5"d; 4.2 lbs.

SS-25M - Same as above but with Volt and Amp meters (pictured above).

SS-30 - 12V DC, 30 Amps ICS, 25 Amps continuous. Dim: 7"w x 3.75"h x 9.5"d; 4.5 lbs.

SS-30M Same with Volt/Amp meters.



POWER INVERTERS

N2412-12 28V Aircraft Converts 22-32V DC input to 13.8V DC output @ 10 amps. Eliminates

tapping into 28V battery for 12V devices.

N2412-24 - Same as above, rated at 20A.



SWITCHING POWER SUPPLIES



SS-330W Regulated, Variable Switching Power Supply - Provides 5 to 15V DC at 30 Amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2"w x 4"h x 10.5"d; 4.3 lbs.

SS-505 Regulated, Variable Switching Power Supply - Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15V DC at 50 Amps continuous (55A max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Carrying handle; Built-in automatic fan. Dim: 9"w x 5"h x 12.5"d; 8.4 lbs.



GZV-4000 Switching Mode DC Power Supply with Built-in Speaker - 120V AC input with variable output 5 to 15V DC (knob has center detent at 13.5V DC), rated at 40 Amps continuous @ 100% duty cycle. Over temperature, overload and short-circuit protection with current foldback at approximately 42 Amps. Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line. Dim: 13"w x 4.5"h x 8.25"d; 8 lbs.

GZV-6000 Switching Mode DC Power Supply with Built-in Speaker - Similar to GZV-4000 above but heavier rating. 100-240V AC input; Voltage variable 1-15V DC; 60 Amps; 12.8 lbs.



SS-30DV 25A Continuous Switching Power Supply - This small regulated switching power supply features (2) Powerpole® outputs in front and 1/4" binding posts in rear. Machined metal front bezel with illuminated power switch. Input: 100-120 or 200-240V AC, fused at 6A; Output: 13.8V DC at 25A continuous, 30A surge. Fan cooled, thermal and over-current protected. Dim: 5"w x 2.5"h x 6.1"d; 3 lbs.

SS-30RM2 Dual Rack Mount Version - Dual 30A power supplies. Machined metal panel for 19" racks, 2U high. Powerpole outputs in front and 1/4" binding posts in rear. DC output voltage 13.85V at 25A continuous, 30A surge for each one. Dim: 19"w x 3.5"h x 6.1"d; 6.4 lbs.

Three-year Powerwerx limited warranty!



samlexamerica

SWITCHING POWER SUPPLIES

The "Power Supply choice of radio manufacturers worldwide"



SEC-1223 23A Switching Power Supply (left) The perfect lightweight companion for 100 Watt Class transceivers. Input: 100-130V AC, Output: 13.8V DC @ 23 Amps. Also works on 200 to 260V AC input with a simple jumper change. UL + cUL Safety approved, FCC compliant. Safety features include current limiting, short circuit and overvoltage protection. Quiet, thermal activated fan. No hash. 3-year warranty - "no questions asked". Dim: 7"w x 2.2"h x 8.25"d; 4 lbs.

SEC-1235M 30A Switching Power Supply (right) - This unit is the same as the SEC-1223 above except it has a higher 13.8V DC output of 30 Amps continuous, 35 Amps intermittent which makes it perfect for all 100-200 Watt Class transceivers. It also has analog Volt and Amp meters. Dim: 7.3"w x 2.4"h x 8.4"d; 4 lbs.

SEC-1235 - Same as the 1235M above, but without Volt and Amp meters.

SOLAR PANELS



Truly rollable, extremely durable, lightweight, and easily integrated to provide power for a number of charging applications. Performs even in low light, able to charge for more hours per day. Fully waterproof and constructed with marine grade connectors to provide a portable solar solution for marine environments. Includes 12V female cigarette lighter adapter and 15 foot O-ring terminal extension cord. Plug in your 12V compatible devices directly or hook the solar charger to a 12V battery for trickle charging. Optional PowerPole® adapter.

R-28 Produces 28 Watts of power at 15.4 volts, 1.8 Amps. Dim: 79.5" x 14.5" (15.5" x 4" rolled up). Weight: 1.8 lb.

R-15-600 Produces 10 Watts of power at 15.4 volts, 0.6 Amps. Dim: 38" x 11.5" (11.5 x 4.25" rolled up). Weight: 1 lb.

RA-13 Powerpole Adapter



Solar Panels fold into a briefcase for easy transport

SOL-8 Compact 13W Solar Charger (Briefcase Design) - The portable charging power for 12V batteries and the waterproof design makes it perfect for camping or boating. Features detachable connectors (male and female cigarette outlets & battery clamps) for different applications. Also has charging indicator and adjustable back support. Power: 13W max at 17.5V, 750mA; Dim: 20.1"w x 26"h x 1.6"d (unfolded); 9.7 lbs.

POWER LINE SURGE SUPPRESSORS



ISOBAR-8 ULTRA Premium Surge, Spike and Noise Suppressor – 8 widely spaced outlets in 4 isolated filter banks provide a massive 1,200 joule, 96,000 Amp spike suppression and isolation between connected equipment. Rugged all metal housing won't break or burn. Diagnostic LEDs confirm power availability, line fault and protection status. Lighted On/Off switch and 15 Amp circuit breaker. Includes 12 ft. AC line cord with space-saving angled input plug, keyhole mounting tabs and child safety covers. Dim: 7.25" w x 2.25" h x 3.5" d.



SUPER-7 Protect it™ Surge Protector – 7 outlets including 3 transformer outlets. 2350 joule rating, handles strongest surges. On/Off switch, circuit breaker, "Connected" & "Grounded" LEDs, 7 ft. cord with right angle plug.

SUPER-7+TEL – Same, but with additional surge protection for modem, fax or telephone.

TENERGY



10321 Low Self-Discharge Ni-MH Rechargeable AA Batteries – 1.2V, 2000 mAh. Combines the ready-to-use feature of alkalines with the benefit of being rechargeable. Compared to usual rechargeables these are extremely low self-discharge. Once charged, they will retain 85% of capacity when stored for 12 months and 70% after 24 months. Can be recharged hundreds of times. The TN-156 fast charger, is recommended. (4 Pack)

TN-156 4-Bay Battery LCD Fast Charger – For use with Low Self-discharge or other AA and AAA rechargeable batteries. Works on 100-240V AC and 12V DC. Features four independent charging channels for individual battery charging and detection. Continues a trickle current when fully charged. Micro-processor controlled with an eight hour cut-off to ensure safety. Easy-to-read LED status indicator. Includes AC adapter and 12V DC car charging cord with lighter plug.



40333 Dependable Hi-Tech 1.5V Alkaline Batteries Outstanding performance and reliability. Long lasting power, work in temperatures of -4 to 129° F. (4 Pack).



TN-323 Cigarette to Dual USB Car Charger – Provides (2) USB ports, each delivering 500mA or 1000mA when only one is used. Perfect to charge your mobile phone, GPS and other electronic devices via USB port. Operates on 11.5 to 16 V DC. Blue power LED. Dim: 2.5 x 1.375 in; 1.5 oz.

MAHA BATTERY CHARGERS



MH-C801D Eight Cell One-Hour Charger Independent circuits charge (1) to (8) AA or AAA batteries in any combination. LCD screen displays the charging status of each battery. Soft charge and fast charge modes. Soft charge for the highest battery life and 100% compatibility with older, lower capacity batteries. Fast charge allows all eight batteries to fully charge to maximum capacity in around one hour. Conditioner will charge, deep-discharge and recharge batteries automatically. Includes a 110-240V AC wall adapter.

MH-C9000 Charger & Analyzer Analyzes, forms, conditions, charges and cycles (1) to (4) AA or AAA NiMH or NiCd batteries. LCD displays capacity and voltage. "Break-In" mode performs a "forming" charge on new batteries. "Cycle" mode charges and discharges batteries consecutively for up to 12 cycles. Temperature and timer protection eliminates over and undercharging. Comes with 100-240V AC wall adapter. Also works with 12V DC when used with a cigarette lighter adapter.

MAHA AA NiMH Rechargeables

MH-R-AA4 – 4 pack of 1.2V 2700mAh rechargeable AA NiMH batteries in plastic case.

MFJ AA NiMH Rechargeables

92AA01 **92AA10** – 10-pack.

MFJ Intelligent Charger

633 Charges (2) or (4) NiCad and NiMH AAA, AA, C, D size batteries and (1) or (2) 9V cells. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. A Discharge Mode deep conditions to correct memory, and can rescue weak or dead batteries. Process ends with a final trickle charge. Operates on 120V AC or 12V DC.

5513M – Acc power cable, 2.1mm DC plug to PowerPoles, 3ft long. Use it to supply power to many different MFJ items and other ham equipment.



CLOSEOUTS!

MAHA REPLACEMENT BATTERY PACKS

For ICOM Handhelds

MHBP-173 9.6V 650mAh NiMH.
MHBP-180 7.2V 1000mAh NiMH.
MHBP-200 9.6V 680mAh NiMH/clip.
MHBP-7 13.2V 1000mAh NiMH.
MHBP-8 8.4V 1300mAh NiMH.

For YAESU Handhelds

MHFNB-12 12V 1000mAh NiMH.
MHFNB-17 7.2V 1000mAh NiMH.
MHFNB-38 9.6V 650mAh NiMH.
MHFNB-41 9.6V 1000mAh NiMH w/clip.
MHFNB-80LI 7.4V 1500mAh Li-ION.
MHFNB-83 7.2V 2000mAh NiMH.

For KENWOOD Handhelds

MHBP-32 6V 1000mAh NiMH.
MHBP-34 9.6V 1000mAh NiMH.
MHBP-39 9.6V 1050mAh NiMH/clip.
MHBP-39H 6V 1800mAh NiMH/clip.
MHBP-42LI 7.4V 1800mAh Li-POLYMER.



West Mountain Radio

RIGrunner

A convenient and safe way to connect to a 12V DC source and distribute it to all your equipment, base or mobile. No binding posts, frayed wire connections, black tape or short circuits. Eliminates 12V wall warts.

- Uses Anderson PowerPole® crimp or solder connectors to provide a safe, secure, hot connect, polarized, color keyed and genderless connector system
- 8 models, conservatively rated at up to 40 amps
- Each outlet is individually fused with an automotive ATC/ATO fuse. Open fuse LED shows status



RR/8012/C Intelligent DC Power Panel, 12 Outlets, 80 Amps maximum – Voltage monitor and alert, detachable 6 ft. 8 ga. supply cable and 12 pairs of Anderson Powerpole® crimp or solder connectors. Dim: 11.75" w x 1.4" h x 3" d.

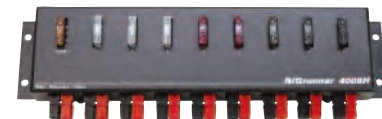


RR/4010S/C DC Power Panel, 10 Outlets, 40 Amps maximum – One "always on" outlet and nine automatic or manually-controlled switched outlets. An On/Off system can control your entire station with the power button on your rig. Status LED and audio alert voltage monitor. Includes 6 ft. supply cable and 12 pairs of Anderson Powerpole® connectors. Dim: 11.75" w x 1.4" h x 3" d.



RR/4012/C Intelligent DC Power Panel, 12 Outlets, 40 Amps maximum – LED voltage monitor indicates normal voltage; LEDs and audio alert for over/undervoltage. Includes 6 ft. power supply cable with 12 pairs of Anderson Powerpole® connectors. Dim: 11.75" w x 1.4" h x 3" d.

RR/4008/C 8 Outlets, 40 Amps maximum – Has LED and audio alert voltage monitor. For small or mobile installations or as an expansion unit. 12 pairs of Anderson Powerpole® crimp or solder connectors. Dim: 9" w x 1.4" h x 3" d.



RR/4008H/C Basic DC power panel – 8 outlets on the side for horizontal mounting.



RR/4005/C 5 Outlets, 40 Amps maximum – A DC power panel for small mobile installs or as an expansion for existing panel. Includes 6 ft. supply cable and 6 pairs of Anderson Powerpole® connectors. Dim: 6" w x 1.4" h x 3" d.

RR/4005H/C – Like the 4005/C but has the outlets on the side rather than the top. For tight installations like under seat or behind dashboard.

RR/4004/USBC – Four Powerpole® outlets & two USB sockets to power or charge 5-Volt devices such as cell phones, tablets, MP3 players, PDAs and digital cameras with USB type-A charging cable. Dim: 6" w x 1.4" h x 3" d.

West Mountain Radio

C30/PK/12
C45/PK/12



Anderson PowerPoles®

C30/PK/12 – 30A PowerPoles®.. 12 pair
C45/PK/12 – 45A PowerPoles®.. 12 pair

PWR/TOOL Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps.



PG-40S Super PWRgate Backup Power System

During an AC power failure it will instantly switch the connected equipment to a back-up source. Can supply up to 40 Amperes continuously from either a power supply or a battery, which is kept charged by the built-in charger. Optimized for use with Gelled and AGM type batteries, but will keep flooded lead acid and marine type batteries charged as well. The Super PWRgate and the power supply may also be used to charge a battery that is powering the radio. Uses Anderson Powerpole® connections.
Dim: 5.25" w x 1.65" h x 3.9" d; 0.9 lbs.

PWRGUARDPLUS

Automatic Safety Power Switch – Turns off if voltage exceeds 15 volts or drops below 11.5 volts, turns back on when voltage in safe operating range; momentary voltage dips are ignored. Rated for 40 Amps maximum, 30 Amps continuous duty. *Soft turn-on/turn-off* solid state switch protects radio and reduces in-rush current. Indicator LEDs and selectable audible alarm notify user when safety switch turns power off. External sense input can be wired to a switch or low voltage (3-5 volt) DC input to manually turn power off. Ideal for use with keylock switch to prevent rig from being powered during antenna repairs. Uses Anderson Powerpole® connectors.
Dim: 4.5" w x 2.75" h x 0.93" d; 1.3 lbs.



ISO/PWR Auxiliary Battery Isolator – Isolates and charges a 12 Volt auxiliary battery to run mobile radio and other 12 Volt portable equipment. Turns ON when the car is running and the alternator is maintaining the car battery over 13.5 volts. Turns OFF when the alternator is off and the car's battery has fallen below 12.7 volts. Ideal for mobile radio command stations for ARES, RACES, FEMA, and for a VHF/UHF Contest Rovers. Handles up to 40 Amps. Uses Anderson Powerpole® connections. Includes fused battery lead. Dim: 5" w x 4" h x 1.5" d; 1 lb.

PWRCHECK Integrated DC Power Analyzer, Wattmeter and Monitor

Measure, monitor and track numerous parameters in DC power systems using 13 display modes including voltage (0-60V), current, wattage, amp-hours and more. Programmable alarms for overcurrent, over/under voltage and amp-hours. Full 40 Ampere current handling capability with high side current-sense monitoring capability. Internal memory logs data for up to 6 weeks. USB cable and PC software displays in real-time and/or chart logged data with an export to Excel®. Backlit LCD. Anderson Powerpole® connections. Dim: 4.6" w x 2.75" h x 1" d; 1.2 lbs.



powerwerx

DC Power Connections



HF4-PP (A) – New style HF 4-pin (IC-7000, FT-950, TS-590, etc.) to Powerpole® adapter.

HF6-PP (B) – Adapts OEM Molex type 6-pin connector to Powerpole® adapter, 5 in. long.

HF6SOC-HF4 (C) – Adapts Molex-type 6-pin female socket to new HF 4-pin connector.

BY-T (D) – Tap into your mobile radio's OEM-T plug and get Powerpole output. Insert a Red-Dee-2™ (see below) to power more equipment.

C20-5 (E) – 5 ft. fused (15 Amp AGC) Cigarette Lighter Plug to OEM-T Male plug.

C2P-5 (F) – 5 ft. fused (15 Amp AGC) Cigarette Lighter Plug to Powerpole®.

P20-5 (G) – 5 ft. Powerpole® to OEM-T Male connector, 15 Amps.

SOC-PP (H) – 1 ft. Cigarette Lighter Socket, internal ATC 15 Amp fuse, Powerpole® end.

PPC-1 (I) – Weather resistant PP end cap.

PSC-1038 (J) – 6 ft., 10 gauge Power Supply Cable with 45 Amp PowerPoles® and 3/8 inch gold plated Ring terminals.

PSC-1014 (J) – Same as PSC-1038 but 1/4 inch gold plated Ring terminals.

RGH-10 (K) – ATC-style 10 gauge fuse holder with 45 amp PowerPoles® mounted on one end and gold-plated 1/4" ring terminals on the other. Includes (2) 40 Amp ATC fuses.

RGH-12 (K) – ATC-style 12 gauge fuse holder with 30 Amp PowerPoles® mounted on one end and gold-plated 1/4" ring terminals on the other. Includes (2) 15 Amp ATC fuses.

CLIP-2-PP (L) – Use the alligator clips to clamp on any DC power source. 7.5A ATC fuse.

PPH-10 (M) – ATC-style 10 gauge fuse holder with 45 amp PowerPoles® mounted on each end. Includes (2) 40 Amp ATC fuses.

PPH-12 (M) – ATC-style 12 gauge fuse holder with 30 amp PowerPoles® mounted on each end. Includes (2) 15 Amp ATC fuses.

EX-145 (N) – 5 ft. 14 ga. extension cable with PowerPoles® on each end.

110G685 (O) – Use these Retention Clips to lock 15/30/45A PowerPoles..... (Bag of 5)



Red-Dee-2™ Power Splitters

Power distribution when using PowerPole® equipped cables. Convenience, minimum power loss. All are rated at 45A @ 58 V DC. Not fused.

PS-4 (B)
PS-4 Plus (A)

PS-6AA (C)
PS-8 (D)

Red/Black Bonded Zip cord

Made for use in 12-volt DC power applications with extra flexible soft bare copper stranding. The automotive grade PVC insulation is oil, gas resistant and usable over a -40°F to 176°F range.



RB-14-25 25 ft. 14 gauge.
RB-12-25 25 ft. 12 gauge.
RB-12-50 50 ft. 12 gauge.
RB-10-25 25 ft. 10 gauge.
RB-08-25 25 ft. 8 gauge.

PowerPole® Connectors

PP30-10 10 pair 30A.
PP30-25 25 pair 30A.
PP45-10 10 pair 45A.
PP45-25 25 pair 45A.
PP75-08-2 2 pair 75A, 8ga.
WP30-10 10 pair 30A.
WP30-25 25 pair 30A.
WP45-10 10 pair 45A.
WP45-25 25 pair 45A.



PowerPole® Crimpers

CT-2 Crimping Tool for 15, 30 & 75 Amp PowerPoles®.

TRICRIMP Ratchet PowerPole Crimp Tool Crimps 15, 30 & 45 Amp contacts. Ratchets for high strength, low resistance crimps.



TRIDIES – Expand the functionality of your TRICrimp tool with these additional die sets. Crimp types include: OEM-T; 6, 8 & 10 gauge contacts; Coax connectors; Non-insulated terminals 7-17 AWG; Insulated terminals 10-20 AWG; Insulated terminals and end sleeves 10-22 AWG.

Miscellaneous Accessories



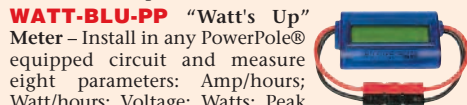
APO-3-PP
APO-3-PP Automatic Power Off Switch – Prevents vehicle battery discharge by switching your radio off 5, 10 or 20 minutes after the vehicle is shut off. Dim: 4.75" w x 3.3" h x 1.35" d; 5.5 oz.

BT-JUNIOR
BT-JUNIOR Battery Tender Junior Jr. – A 110V AC to 12V DC @ 0.75 Amp trickle charger that will keep your lead-acid, flooded or sealed maintenance-free batteries fully charged. Four-step charging program: Initialization, Bulk Charge, Absorption and Float modes. Dim: 3.3" w x 2.3" h x 1.8" d.

CIG-BUDDY Cigarette Lighter Plug to PP Adapter Convert any cigarette lighter socket into a Powerpole outlet. Rated at 14V DC @ 20A (also depends on the vehicle), includes a user replaceable 20A fuse. A great item for your emergency bag.

RT-1 PowerPole Insertion/Removal Tool – For the 15, 30 & 45 amp PowerPole® contacts.

WATT-BLU-PP "Watt's Up" Meter – Install in any PowerPole® equipped circuit and measure eight parameters: Amp/hours; Watt/hours; Voltage; Watts; Peak Current; Peak Power and Voltage Sag. PowerPoles® are installed on both ends.



LF-1-PP DC Noise Filter Reduces alternator whine in mobile radios. Rated 20 Amp max & 16 Amp cont.



AMERITRON HF Power Amplifiers

Coverage: 160, 80, 40, 30, 20, 17 and 15 meters (including MARS & WARC), plus 10 and 12 meters with user modification - *Amateur License Required*



AL-811 600W PEP Linear

The first 600 Watts make the difference! GAIN nearly TWO full S-units over your barefoot rig; enough to help compete with the "Big Guns".

Tubes: (3) 811-A's (5-second warm-up)

Plate Voltage & Current: 1500V DC, 550 mA.

Drive: 60W (typical for full output)

Power Output: 600W PEP/SSB, 400W CW, 300W RTTY/SSTV/FM (1/2-hour, continuous)

AC Input: 120V AC @ 8 Amps

Power Supply: 17 lb. high silicone steel core transformer and computer grade capacitors. User selectable for 100/110/120/220/230/240V AC operation.

Dual Illuminated Meters: HV, Grid & Plate Current
Dim: 13.75" w x 8.25" h x 15.5" d; 32 lbs

AL-811H 800W PEP Linear

Uses four 811A in a fully neutralized output circuit to kick performance up a notch.

Same as the AL-811 except:

Tubes: (4) 811A

Plate Voltage & Current: 1500V DC, 650 mA.

Drive: 75W (typical for full output)

Power Output: 800W PEP/SSB, 600W CW, 400W RTTY/SSTV/FM (1/2-hour, continuous)

AC Input: 120V AC @ 10 Amps



AL-80B 1000W PEP Linear

Doubles your average SSB power output with high-level RF processing using Ameritron's Dynamic ALC™. Instantaneous RF Bias™ feature reduces idle current between words; runs cooler, saves energy. Lexan over aluminum front panel.

Tube: Graphite Plate 3-500Z (5-second warm-up)

Plate Voltage & Current: 2700V DC, 450 mA

Max. Drive: 100W (85W typical for full output)

Power Output: 1000W PEP SSB, 800W CW, 500W input RTTY/SSTV/FM (1/2-hour, continuous)

Dual Illuminated Cross-Needle Meters: HV, Grid/Plate Current, Forward/Reflected Power, SWR, ALC

AC Input: 120V AC @ 12 Amps

Power Supply: 26 lb high silicone steel core transformer and computer grade capacitors. Select from 14 different primary line voltages.

Step/Start: In-Rush Protection™ start-up sequence protects against AC line in-rush current.

Dim: 14.5" w x 8.5" h x 15.5" d; 48 lbs



AL-572 1300W PEP Linear

Near Legal Limit™ Desktop SSB Power for about 65% of the cost of a full legal limit amplifier.

Tubes: (4) 572B (3-second warm-up)

Plate Voltage/Current: 2500V DC, 700 mA

Max. Drive: 100W (85W typical for full output)

Power Output: 1300W PEP SSB, 900W CW

Dual Illuminated Cross-Needle Meters: HV, Grid/Plate Current, Forward/Reflected Power, SWR, ALC

AC Input: 120V AC @ 16A / 240V AC @ 8A

Multi-Voltage Power Transformer: 26 lbs, High silicone steel. 14 different primary line voltages.

Step/Start: In-Rush Protection™

Dim: 14.5" w x 8.5" h x 15.5" d; 40 lbs

Solid State HF Linears

Instant Bandswitching / No Tune-Up



ALS-500M



ALS-500RC
Optional Remote
Control Head



ALS-600 & PS

ALS-500M 500W PEP Mobile Linear

Output Devices: (4) 2SC2879

Output: 500W PEP SSB, 400W CW

Max. Drive: 100W (60W typical for rated output)

Power Requirement: 14-16V DC @ 80 Amps Peak
Size/Weight: 3.5" h x 9" w x 15" d, 7 lbs, includes 8 ft. pre-wired power supply cable

ALS-500RC - Remote Head controls all functions remotely for ALS-500M & ALS-1300

ALS-600 600W PEP Base Linear

Output Devices: (4) MRF-150

Output: 600W PEP SSB/400W CW

Drive: 100W typical for rated output

Power Requirement: 50V DC @ 25 Amps Peak provided by the included power supply.

Dim: 9.5" w x 6" h x 12" d; 30 lbs total

ALS-600S - Same but with ALS-600SPS light weight switching supply, 22.5 lbs



ALS-1300 1200W PEP Base Linear

Devices: (8) MRF-150 Output: 1200W SSB/400W CW

Drive: 100W Dim: 6.5" h x 10" w x 18" d, 22 lbs

Included Switching Power Supply: Amp is wired for 220V AC (can be changed to 110V AC but not recommended). Dim: 10" w x 6.5" h x 9.5" d; 12 lbs



AL-800H
INSIDE

AL-800 1250W PEP Linear

Uses a single Eimac® 3CX-800A7 to provide Near Legal Limit performance on your Desktop.

Tube: (1) Eimac® 3CX-800A7 (180-sec. warm-up)

Plate Voltage & Current: 2300V DC, 1000 mA

Max. Drive: 100W (70W typical for full output), 50Ω tuned input, resistor attenuated

Power Output: 1300W PEP SSB, 1000W CW, 750W input RTTY/SSTV/FM (1/2-hour, continuous)

Dual Illuminated Cross-Needle Meters: HV, Grid/Plate Current, Forward/Reflected Power, SWR, ALC

AC Input: 120V AC @ 12 Amps

Power Supply: 32 lb, HD grain-orientated high silicone steel core transformer. Select from 14 different primary line voltages.

Step/Start: In-Rush Protection™ start-up sequence

Dim: 14.5" w x 8.5" h x 15.5" d; 51 lbs

AL-800H 1500W PEP Linear C/O

Adds a second Eimac® 3CX-800A7 for Full Legal Limit performance on your Desktop.

Same as the AL-800 except:

Tubes: (2) Eimac® 3CX-800A7's

Max. Drive: 100W (60-70W typical)

Power Output: 1500W+ PEP SSB, 1500W CW, 1000W input RTTY/SSTV/FM (1/2-hour)

Super Legal Limit Amplifiers

Three RUGGED models with the same look and features, but with a choice of RF Decks.



AL-82

(2) 3-500Z's

AL-1200

3CX-1200A7

AL-1500

3CX-1500/8877

Output: Legal limit - all modes

Drive: 65-100W for full output (varies with model)

Plate Voltage & Current: 3300V DC, 800-1000 mA

AC Input: 240V AC @ 13 Amps (4 voltage ranges)

Power Supply: Super HD with 32 lb. Hypersil® transformer, (20) 1000V @ 3 Amp rectifiers, computer grade capacitors, and HD bleeders, 2,500W rating

Dim: 17" w x 10" h x 18.5" d; 77 lbs

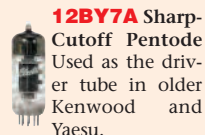
Models:

AL-82 w/(2) Graphite Plate 3-500Z

AL-1200 w/Eimac® 3CX-1200A7 C/O

AL-1500 w/Eimac® 3CX-1500/8877

REPLACEMENT TRANSMITTING TUBES



12BY7A Sharp-Cutoff Pentode

Used as the driver tube in older Kenwood and Yaesu.



6146B Beam-power Pentode

Replacement final for older ham gear: B&W, Collins, Globe, Hallicrafters, Heathkit, Johnson, etc. Rig may require minor alignment.



811A Power Triode

- For Ameritron, Heath, Collins and other power amplifiers.



572B High-mu Power Triode

- A direct replacement for the 811-A or T-160. Uses a graphite anode with 160W average plate dissipation, improves reliability.



3-500ZG Power Triode

An exact mechanical/electrical copy of the Eimac 3-500ZG. High-dissipation graphite anode.

AMERITRON Amplifier Accessories



QSK-5 Electronic PIN diode T/R Switch – Gives you lightning fast QSK operation from nearly any HF linear amplifier. Silently switches six times faster than a typical mechanical vacuum relay. Perfect for high power QSK CW, Packet, AMTOR and any mode requiring extremely fast T/R switching. Simple installation by plugging in a few cables. Handles 2500W PEP and 2000W CW in normal amateur service when SWR is below 1.5:1. Handles 750W on continuous carrier modes such as RTTY, SSTV and FM. An optional CF-5 cooling fan allows sustained operation at 1500W in any mode. Dim: 9.75" w x 3.75" h x 6.5" d.

CF-5 Cooling Fan for 1500W

QSK-5PC – The PCB board version of the QSK-5 which installs inside of an Ameritron amplifier. Fast, silent T/R switching with an added "AmpSaver" feature that completely cuts off the power amplifier plate current between dots, dashes and words for cooler and more efficient operation.



ATP-102 ATP-100

ATP-100 Tuning Pulser – Pulses your transceiver allowing safe tuning of your linear amplifier for full power output and best linearity. Less heating, tube damage and power supply stress. Internal trim pots set Duty Cycle and Pulse Rate. Plugs into transceiver CW keying jack. Uses 9V battery.

ATP-102 Deluxe Tuning Pulser – Has front panel Duty Cycle and Pulse Rate controls.



ARB-704 Interface Buffer – A must have for Icom radios and a good idea for all others. Prevents burning and sticking of the radio's internal T/R relay contacts due to switching excessive current required to key some RF power amplifiers. Compatible with transceivers that provide a ground on transmit. If your transceiver does not have ALC and TX Ground RCA jacks, then select the right cable for your radio below.

Cables for ARB-704:

PNP-13D – For IC-706, 718 & IC-7000.

PNP-35 – For FT-100 series.

PNP-5M – For FT-847.

PNP-7D – For TS-570S/590S/2000, etc.

PNP-8D – For FT-920/FT-1000/2000, etc.

PNP-8DI – For Icom's ACC JACK.

PNP-8M – For FT-450/817/857/897/950.

PNP-8MK – For TS-480 Series.

ARB-70412 – Same as the ARB-704 but works out of the box with an IC-706 or IC-7000.



In-Rush Current Protector

Protects your amplifier tubes and power supply components from heavy in-rush current during turn-on, limiting it to 12 amps, then allowing up to 20 amps during continuous operation. Order model **ICP-120** for 120 Volts or **ICP-240** for 240 Volts.

MIRAGE VHF & UHF POWER AMPLIFIERS



B-2518G



B-34



B-34G

Mobile or Base Operation • Wide range of input and output levels • FM, SSB & CW modes (FM only, some models) • Built-in high-gain low-noise GaAsFET receive preamplifier on several models • Rugged construction, heavy duty heat sink • Protection for high SWR, overdrive and overheating • Remote control capability with optional remote head

Model	Frequency Range	Modes	Power Input	Maximum Output	Volts DC	DC Amps	Pre Amp	AES PRICE
6-Meters								
A-1015G	50-52	SSB/CW/FM	1-15W	150W	13.8	20	Yes	
2-Meters								
B-34*	144-148	FM	1-8W	35W	13.8	4	No	
B-34G*	144-148	SSB/CW/FM	1-8W	35W	13.8	4	Yes	
B-1018G	144-148	SSB/CW/FM	0.25-15W	160W	13.8	30	Yes	
B-2518G	144-148	SSB/CW/FM	10-30W	160W	13.8	30	Yes	
B-5018G	144-148	SSB/CW/FM	20-60W	160W	13.8	30	Yes	
B-310G*	144-148	SSB/CW/FM	0.25-8W	100W	13.8	15	Yes	
B-320G*	144-148	SSB/CW/FM	0.25-50W	200W	13.8	25	Yes	
430-450 MHz								
D-1010N	430-450	SSB/CW/FM	0.3-15W	100W	13.8	15	No	
D-3010N	430-450	SSB/CW/FM	5-45W	100W	13.8	20	No	
D-1010ATVN	420-450	ATV	1-15W	52W	13.8	20	No	C/O

*Not compatible with either Mirage RC-1 and RC-2 Remote Head



REMOTE CONTROL HEADS

RC-1 – Allows easy remote operation with most Mirage Amplifier models. Preamp On/Off switch; Switch for SSB/FM operation; 18 ft. interface cable; Modification required for some models. Dim: 3.5" w x 1.5" h x 2.75" d.

RC-2 – Remotely control your B-2518-G / B-5018-G / B-1018-G and place it out of the way. The RC-2 Remote Control lets you turn power on/off, preamp on/off and select SSB/FM operation.

REPEATER AMPLIFIERS

CONTINUOUS DUTY • COOLING RUNNING • RELIABLE • OVERHEAT PROTECTED
Class AB linear operation is rated for FM, SSB, CW and ATV operation.

All Models are Special Order

Model	Frequency Range	Power Input	Max Output	Volts DC	DC Amps	AES PRICE
6-Meters						
A-1015R	50-54	3-4W	110W	13.8	16-18	
A-1015NR	Same as A-1015R but with Type-N connector					
440 MHz						
D-1010NR	440-450	2-4W	80W	13.8	14-15	
D-3010NR	440-450	10-12W	80W	13.8	11-1	
430 MHz (AMATEUR TELEVISION)						
D-1010ATVNR	420-450	2-4W	80W	13.8	14-15	



LOW NOISE RECEIVE PREAMPS



KP-1 High gain ultra low noise GaAsFET preamps boost weak signals on VHF and UHF for improved reception and compensation for feedline loss. Provides 15-22 dB Gain with < 0.8 dB NF. Selectable gain prevents receiver intermodulation. In-line installation, automatic T/R switching up to 160 Watts. In-shack or outside mast mount, type-N connectors. Requires 12-15V DC. Dim: 4.25" w x 2.3" h x 0.9" d



In-Shack Models

KP-1/6M (50-54)

KP-1/2M* (144-148)

KP-1/440 (430-450 MHz)

Mast Mount Models

KP-2/6M (50-54)

KP-2/2M (144-148)

KP-2/440 (430-450 MHz)

* SO-239 connectors (not Type-N)



Microphones and Accessories



HM-12
GENESIS



GM
ELITE



ICM



PR-20
UT



PR-781



PR-40



HM-12 GENESIS Full Range Microphone – A beautiful, Low Cost, great sounding microphone that works with all current radios by selecting the proper Heil CC-1 adapter cable. The single, dynamic element produces a wide 80 Hz to 14 kHz response with a +4 dB peak centered at 2 kHz for excellent voice articulation balanced with a clean, clear low-end. A great match for fine tuning your sound using the DSP EQ available in most new radios. Unique internal windscreen, also includes an external foam windscreen and 5/8" x 27" microphone clip for Heil booms and desk stands. Dim: 8" long x 2" diameter; 8.8 oz.

GM-ELITE GOLD ELITE Dual Element, Wide Response Microphone Replaces the original Heil Goldline. Two switchable dynamic elements are perfect for the new DSP transceivers. The WIDE position produces a full range broadcast response of 50 Hz to 16 kHz with the traditional Heil +4 dB peak centered at 2 kHz for excellent voice articulation along with a "big bottom" low end. The NARROW position selects the new Heil HC-5.1 dynamic element with a 200 Hz to 8 kHz response with both great voice articulation and a smooth response. With DSP EQ you can change your audio to be anything from a casual "rag chew" sound to a "pile up busting" DX and contesting advantage. Use the Heil CC-1 adapter cable for your particular radio. Includes a foam windscreen and 5/8" x 27" microphone clip for Heil booms and desk stand. Dim: 7-3/4" long x 1-3/4" dia., 14 oz.

PR-781 Proline Dynamic Microphone – Features full-bodied tone quality, with crisp high-frequency articulation. Originally designed for the Icom IC-7800 but it is also outstanding on other high-end rigs. When using it with Yaesu's FT-950/2000 and FTDX-5000/9000, use the Heil CC-1 XLR-BAL balanced mic. cable. Not recommended with the Yaesu FT-817ND, FT-857J7, etc., as its huge bass response tends to overwhelm the microphone inputs. Dim: 5.5" long x 2" dia., 14 oz.

ICM High Performance Desk Microphone – Designed with higher output for earlier (pre-PRO) Icom transceivers that had a lower gain microphone amplifier stage. But also works well with IC-718/735/745/746/751/756/761/765/775, and also the newest models the IC-7600, 7700 and 7800. The ICM is fitted with a 8-foot length of Heil Wire cable terminated in an 8-pin Foster connector wired for the Icom mic connector. A "light touch" PTT switch is conveniently mounted on the platinum finish body. Also a 1/4" in-line phone jack accepts PTT control from a footswitch such as the Heil FS-2 or FS-3, or HS-2 hand switch. For use with the IC-7000, IC-706 and IC-703 you will need a HSTA-iM adapter cable.

PR-20UT Proline Broadcast Microphone – Dynamic cardioid, the answer for a wide range of professional applications providing superbly natural voice articulation. Features a wide 40 Hz to 18 kHz frequency range, the ability to handle +140 dB SPL and -35 dB of rear rejection. Output Level: 52.9 dB. Comes with a stainless mesh grill, a foam windscreen, and a mic clip in a vinyl zipper bag. Matte Black lacquer finish. Impedance: 600 ohms balanced. Designed for studio and broadcast use but it may also be used for amateur radio applications using the appropriate CC-1 XLR adapter cable. Dim: 7.2" long x 1.65" diameter; weighs 9 oz.

PR-40 Wide Range/Large Diameter Studio Microphone – Designed for a wide range of professional applications; recording, live sound, and commercial broadcast. The dynamic element provides a response down to 28 Hz and is flat up thru 18 kHz with a beautiful midrange rise for nice vocal articulation. Endfire, Cardioid pattern rejects unwanted off-axis rear sounds. Large low mass diaphragm and the strongest magnet structure available. Two different diameter mesh screens and an internal breath blast filter allow close talking without pops or excessive hiss. Includes: Padded leatherette bag with molded insert and adjustable cast metal mic holder. Impedance: 600 ohms, use a CC-1XLR balanced adapter cable. Dim: 6.25" long x 2.10" diameter; weighs 13.5 oz.



Watch **HAM Nation**, the new TWIT show about Ham Radio. Bob Heil, with various co-hosts and guests will cover the excitement and importance of ham radio – from tossing an antenna wire in a tree allowing you to talk to the world, to the importance of ham radio operators in time of disasters. HAM Nation airs live each Tuesday at 6:00 PT / 9:00 ET on live.twit.tv

HANDI-MICS

Only 4 in. tall, and the required CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes a dash mount holder, boom clip and windscreen.

HM-IC with Electret element and PTT button, for most ICOM rigs

HM-PRO with wide range Broadcast element and PTT button.

HM's include: Dash Mount Holder, Boom Clip & Windscreen



HM-PRO / HM-IC



BASES, BOOMS & MOUNTS

CB-1-PTT Classic Base – With soft PTT switch. 5/8" x 27 thread

TM-1 Tri-Mount – Holds up to three microphones on 5/8" x 27 thread mounts for convenient multi-rig operation. (Mics not included).

SM-1 Shock Mount – For ELITE, HM, "iCM" or other 1 in. diameter microphones. An 8-point flexible suspension supports and isolates microphones from mechanical vibrations, gives your station a "studio" look. The 5/8" x 27 threads mount to the PL-2T or other microphone stands and booms.

SM-2B Shock Mount – For PR-781, PR-30 and PR-40.

BOOMS AND ACCESSORIES



PL-2T "Topless" Pro Studio Boom – Features a perfectly balanced arm with silent internal springs and removable tops that hide the microphone cord inside channels. Provides a 41 in. reach. Balanced for microphones up to 2 lbs. Comes with a "C" clamp table mount. Accepts 5/8" x 27 threaded microphones. For real class, attach a Heil SM-1 Ultimate Shock Mount.

HB-1 Economy Microphone Boom – Uses outboard springs whereas the PL-2T (above) has quieter internal springs. Does not have removable tops to hide cables. Supports microphones up to 2.5 lbs.

DT-1 Desk Top Flush Mount – Allows Heil booms to slip into into a 1-1/2" hole drilled into your desk top.

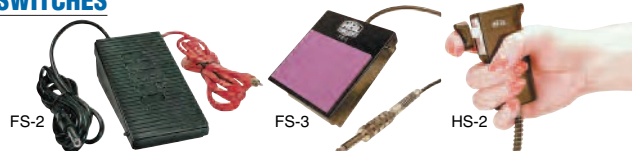
FL-2 Flange Mount – Mounts PL-2T directly to desk top.

WM-1 Wall Mount – Mount Heil booms on a vertical surface.

SB-2 Small Microphone Boom – Extends from 10 to 24 in., with angle adjustments for positioning. Has a standard 5/8" x 27 thread microphone mount and secures to an edge with a "C" clamp, or into a 1-3/8" hole.

RS-1 12 inch Riser – Mounts the PL-2T elevated behind the radio and allows it to be brought down into position over the radio.

SWITCHES



FS-2 Dual Switch Foot Switch – Key two devices, sequence linear.

FS-3 Single Switch Foot Switch – Key one device.

HS-2 Handswitch – Hand control one device.



ADAPTER CABLES

See Heil in the Price Guide for Selection



Boomsets



PROSET ELITE



PROSET

PROSET ELITE The ultimate boomset that will be Heil's *flagship* headset for years to come. Uses the new Heil HC-6 **Wide Response** microphone element designed for full range bright, articulate audio to cut through noise while retaining an impressive full bodied sound. Versatile, usable for full range commercial broadcasting to serious contest and DXing. The "iC" model uses an electret element that works well with ICOM radios. The Dual Side phones use highly efficient speakers mounted in acoustically tuned chambers that provide incredible clear wide-range sound with high outside noise rejection. The exclusive Heil Phase Reversal switch allows the user to acoustically change from a "centered-in-the-head" sound to "spatially wide" field that aids in hearing signals inside pileups and reduces listening fatigue during prolonged use. The headphone's speakers fold up for easy transportation and storage. The field-replaceable cushioned ear pads also come with removable cotton covers that can be easily removed for washing. A 6 ft. coiled cable terminates in a 1/8 in. mono plug for the microphone, and there's a stereo 1/8 in. plug for the headphone speaker connection. A 1/8 in. to 1/4 in. adapter is also supplied. The ELITE works with all available Heil AD-1 adapter cables, which mate with just about every type of amateur radio transceiver.

PSE-6 – with HC-6 "Full Range" Element (requires AD-1 adapter cable).

PSE-iC – with 'iC' Element for non-PRO Icom (Icom AD-1 adapter cable included).

PROSET Boom Microphone/Headset – A long time choice of *Contest and DX'ers*. Adjustable headband and full-sized earpieces with heavily-stuffed cushions provide ultimate operator comfort while sealing out noise. A phase reversal switch changes the sound from being "centered" in your head, to a spatial widening effect that can significantly improve copy under various conditions. The two versions offer a choice of Heil's HC-6 full-range element, or "iC" condenser element for Icoms.

PRO-SET-6 – with HC-6 "Full Range" element (Requires AD-1 adapter cable).

PRO-SET-iC – with 'iC' Electret element for Icom (AD-1-iC 8-pin adapter cable included).



PMS-6

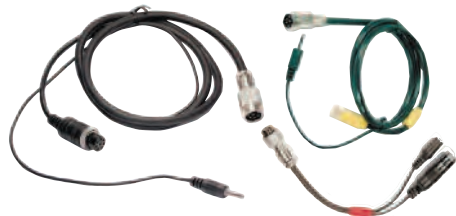


PMD-6

PRO MICRO Two models: Single Side and Dual Side, both terminating in a 1/8 in. mono plug for the mic and a 1/8 in. stereo for the speaker(s) and comes with a 1/4 in. adapter. Both use the new Heil HC-6 dynamic element which opens up a lot of new applications. Many of the Kenwood and Yaesu VHF FM radios require a dynamic element and the PRO MICRO will be the answer by adding the correct mating AD-1 adapter and either the HS-2 hand or FS-2 or FS-3 footswitch that connects to the PTT 'pigtail' of the AD-1. Single Side is perfect for many mobile applications. The left side mic boom can be switched to the right.

PMS-6 – Single-side

PMD-6 – Dual-side



Heil Adapter Cables – All Heil products except the iC Icom series (8-pin round) requires an adapter cable specific to your make of radio and connector type. See the **Price Guide** under Heil for the proper cable.



HW-20 Heil Wire – A specially-designed cable for connecting microphones, foot switches, keyer paddles, and/or other data or control devices. Consists of two 18-ga. wires inside a 100% silver-plated braid shield, plus two extra 18-gauge wires for PTT, etc. Flexible PVC jacket (20 ft. length)

OTHER POPULAR HEADPHONES & BOOMSETS



MFJ

288
(I, K, Y)



292
(I, Y)

Deluxe Headset/Microphone – Lightweight, comfortable. Superb transmit audio and earphone tonal quality. A foam covered microphone element is attached to the headset with a flexible boom for proper positioning in front of mouth. PTT switch on the 6 ft. cord; hold or attach to clothing. **Order: 288I** for Icom, **288K** for Kenwood, **288Y** for older Yaesu.

Featherweight™ Earphone/Mic – Earbud earphone and a thumb-sized mic/PTT switch that's built into the 4 ft. cord. **Order: 292I** for Icom, older Yaesu & Alinco; **292Y** for Yaesu FT-10R/40R/50R and VX-1R/5R series.



293 Rubber-flex Earloop Earbud/Microphone – Small and inconspicuous, secure and comfortable. Flexible rubber earloop design and 5 in. flex boom microphone that adjusts to your mouth. Thumb sized PTT switch built right into the 6 ft. cord. **Order: 293I** for Icom, **293K** for Kenwood; **293Y** for older Yaesu.

392B Headphones – Perfect for both Ham or SWL listening. Padded headband and ear cushions, and weighs only 8 oz. for comfort. Quality drivers with full 20-20,000 Hz response provide enhanced sound and speech fidelity. Individual volume controls. Includes a 9 ft. cord with gold-plated plug and 1/4 in. adapter.



KENWOOD

HS-5 Deluxe Headphones Specifically designed for communications use. Natural sound and low pressure permits long hours of fatigue free listening. Replace the sponge-type earpads with soft vinyl leather pads to increase sound by about 10dB while sealing out noise. Includes both types of earpads and 6 ft. coiled cord with 1/4 in. phone plug. Response: 150-4000Hz, 8 ohms. Weight: 13 oz.



HS-6

Lightweight Headphones
Response: 100-10,000 Hz
Impedance: 12.5 ohms;
6 ft. straight cord with 1/4 in. phone plug. Weighs just 4 oz.

YAESU YH-77STA

Stereo Headphones
Impedance: 35Ω. Straight 4 ft. cord with 3.5mm plug and 1/4 in. phone plug adapter, wt 4.4 oz.



ORDER ON-LINE!
USE YOUR CREDIT CARD



KOSS HEADPHONES



QZ/5 Noise Canceling Stereophones – Rugged design specifically for auto racing scanners and metal detectors. Also works great with your iPod® while mowing the lawn! Features 40 to 20,000 Hz response and a passive noise reduction system for effective noise isolation. Adjustable velcro headband; Volume control & Stereo/Mono switch on the 8 ft. cord with 3.5mm plug; 15 oz.

RACETRACKERB Red & black ver. C/O

QZ/99 Passive Noise Reduction Stereophone with Mono/Stereo Switch – Frequency response: 40 to 20,000 Hz; Coiled, 8 ft. cord with 3.5mm and 6.4mm plugs; 15 oz.



KTX/8 Portable Stereophone – Dynamic elements extend frequency response from 40 to 20,000 Hz. Foam ear cushions for comfort and hear-thru sound. Volume control on the cord. Collapsible headband for storage and portability. 4 ft. cord with 3.5mm “L” plug.

Y-88 3.5mm Y-Cord – Delivers dual stereophone connection from a single source.

SPEAKERS & DSP



MLS-100 – Mobile speaker that mounts on a swivel base and has a 6.5 ft. long audio cable with a mono 3.5mm plug. 4Ω, 12W capacity. Dim: 5.5”w x 4.2”h x 2.5”d.



KENWOOD

SP-50B Communications Speaker – Compact, designed for mobile operation. The metal enclosure houses a high quality 2.5 in. speaker rated for 1.5W with a 300-4000Hz frequency response. 3.5mm plug. Dim: 4.8”w x 3.2”h x 1.4”d; 10 oz.



MIDLAND

21-406 High Performance Mobile speaker – Clear, crisp sound. Z: 4Ω, 15W capacity. Dim: 5.5”w x 5.5”h. Swivel base, audio cord with 3.5mm mono plug.



70-14 ADSP² DSP Speaker Adaptive DSP Noise reduction for ANY transceiver. Two pushbutton switches toggle between 0, 13dB or 26dB of noise reduction and 1 of 3 bandpass filters 100, 500 & 1500 Hz. Provides -45dB out of band reduction. Headphone jack. Requires 12V DC @ 500mA. Dim: 5”w x 3”h x 2.5”d; 11 oz.

West Mountain Radio



CLR/SPKR DSP Noise Reduction Speaker

A 10W amplified 4 in. speaker with ClearSpeech™ Adaptive DSP Noise Reduction. Passes Voice and CW while hum, hiss, ignition and power line noise, static and heterodynes are removed or attenuated. Continuously variable reduction, 0dB to -17dB. Front 1/8 in. mono output jack for external 8Ω to 4Ω speaker or 16Ω (or higher) headphones. On-Off switch. LED power and level indicators. Tilt mounting bracket, 6 ft. 12V power cable with Powerpole® connectors and 6 ft. audio cable with 1/8 in. plug. Dim: 5.25”w x 4.25”h x 2.5”d.

CLR/DSP ClearSpeech® DSP Noise Reduction Same without speaker; 4W output.

CS-1 Computer Speaker System (right) – An RF Proof amplified stereo speaker system for your hamshack computer. Interference-free operation in close range of 1-1000 MHz transmitters. Complete with audio cables and wall power supply. Input: stereo line level 1/8 in. mini-jack; Output: nominal 3 Watts per channel. Dim: 4.125”w x 8.375”h x 5.25”d (each speaker), 72 oz. (complete).



Adaptive DSP Technology



HEAR IT 2.5W DSP Speaker (left) – Eight user-selectable noise cancelling levels attenuates noise up to -20dB. If your radio already has DSP, it will provide additional improvement. Plug headphones or another speaker into the audio bypass jack and retain the DSP noise reduction. Requires 2-28V DC @ 500mA. Dim: 4.5”w x 2.75”h x 2.25”d.

IN LINE MODULE 5W DSP Module (right) Provides the same DSP features as the ‘Hear it’ speaker above, but without the speaker. Has 3.5mm mono and RCA phono audio input and output jacks and headphone jack. Requires 12 to 24V DC @ 500mA. Includes a 3.5mm audio cable and fused power leads. Dim: 6.75”w x 3.35”h x 1.4”d; 1 lb.

ANEM DSP Module – Similar to the In Line, in a smaller package. Remove cover to access pots for level adjust. See GAP’s page 57 for more info.



HEAR IT DSPKR 10W Noise Cancelling DSP Speaker (left) – Provides 9dB to 24dB adaptive noise cancelling. Pushbutton control with 7 selectable levels. Audio level indicator and volume control. Filter level store function. Auxiliary output for headphones or other speaker. 10 to 16V DC, supplied with fused power lead and mounting bracket. Dim: 5.25”w x 5.25”h x 3”d; 1.5 lbs.

NOISE AWAY 2.5W Noise Cancelling DSP Speaker (right) – Provides 9dB to 35dB adaptive noise reduction and 4dB to 65dB tone reduction. Select 4 or 8 filter levels from the front panel with visual and audio indication of filter level. Excellent audio quality from the 4” bass driver and 1” tweeter. 12 to 18V DC. Includes a removable mounting bracket. Dim: 6.5”w x 8.5”h x 6”d; 3.5 lbs.

MFJ Miscellaneous DSP & AUDIO



784B Tunable DSP Audio Filter – Improves reception by simultaneously eliminating heterodynes and reducing noise and interference. Has 5 tunable DSP filters, plus 10 programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction automatically handles varying noise levels. Highpass, lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Requires 12V DC or 110V AC with the MFJ-1312D. Dim: 9.5”w x 2.5”h x 6”d.



616 Speech Intelligibility Enhancer™ – Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand QSOs by adjusting response levels to match your own hearing response. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable inputs; bypass switch. Dim: 10”w x 2.5”h x 6”d; requires 12V DC.



281 Communications Speaker (left) – A rugged 3 inch mylar cone speaker mounted in an effective baffle. Improves speech intelligibility in the 600 to 4000 Hz range while reducing undesirable noise, static and hum. Includes adjustable mounting bracket. Dim: 3”w x 3.75”h x 2.25”d.

382 Deluxe Amplified Speaker (center) – Excellent for QRP’ers, base station HTs or rigs that can benefit from a higher volume level. A quality 3 inch speaker is housed in an all metal cabinet with rubber feet and vinyl clad cover. Uses a 9V battery or 110V AC with optional MFJ-1312D. Audio cable included. Dim: 1.75”w x 3.5”h x 4.5”d.

388 CyberEar™ 12dB Amplifier (right) – Tiny and powerful. Plugs in and loops over right or left ear. Captures and amplifies sounds by 12dB to extend your hearing range. Flesh color makes it hardly noticeable. Volume control, on/off switch. Three interchangeable ear plugs. Lightweight, only .35 oz. Includes batteries. Not a hearing aid. C/O



1263 Microphone Control Center – Eliminates swapping mic connectors. Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig’s volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Includes one modular to modular cable and one 8-pin round to modular cable. Dim: 6”w x 1.5”h x 5”d.

DSP NOISE REDUCTION



DSP-599ZX DSP Noise Filter – Digital Signal Processing provides superior reduction of QRM and QRN. Analyzes signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10-600 Hz; Center frequencies 200-2150 Hz, wider filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOR™, HF Packet, SSTV, WeFAX, SITOR and CLOVER. Test instrument mode provides an audio sine wave generator, audio millivoltmeter and two-tone audio generator. Dim: 7.6" w x 1.9" h x 8.5" d; 2 lbs.

AC-8 Power Supply for Timeswave products.



ANC-4 Antenna Noise Canceller and Diversity Combiner – Effective with any HF/6M transceiver (up to 250W) or receiver from 500 kHz – 80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver's AGC. Connects between your antenna and radio with a second antenna acting as a noise pickup antenna. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. The ANC-4 operates as an active antenna by using the noise antenna and the NOISE GAIN control to amplify the antenna output. And it can also be used as a diversity combiner enhance weak signals or null interfering signals. 11-16V DC @ 300 mA. Dim: 6" w x 1.7" h x 4.3" d; 2 lbs.



TONE SIGNALLING

NC-106 CTCSS Encoder/Decoder – A sub-miniature crystal controlled digital En/Decoder. Field select any one of 47 tones. **CLOSEOUT**

NC-401 Touch-Tone Decoder – Two addressable decoders control remote or local applications. Decodes 16 DTMF characters with an address length of 1-14 characters and features EPROM memory for storage of primary and secondary codes, input/output functions, deadbeat disable and user outputs. 6 to 24V DC. **CLOSEOUT**

DV Dongle - D-Star on your PC!

DV DONGLE – Connects via USB port to a PC or Mac. Using DVTool software, a Ham operator can connect to the D-Star Gateway Network and receive and transmit just like operating a D-Star radio. The DVTool software runs on Microsoft Windows XP/Vista/Windows 7, Mac OS X Leopard (10.5+) and many versions of Linux. Includes USB cable and getting started information. System requirements: 2+ GHz CPU, 512MB RAM, USB 2.0 port, microphone, speaker (or headset) and high speed internet.



DV Dongle

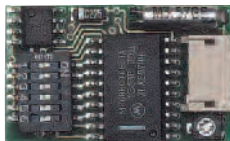
DV AP

COMMUNICATIONS SPECIALISTS, INC. TONE ENCODERS & DECODERS



Actual Size

SS-64 Programmable CTCSS Encoder – Super small for easy installation in most handhelds. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 1.08" x 0.66" x 0.21"; 6-28V DC.



Smaller than Actual Size

TS-64DS Field programmable CTCSS Encoder/Decoder – DIP switches select 64 tones 33 - 254.1 Hz. Dim: 2" x 1.25" x 0.3"; 6-28V DC.



TE-32 Multi-tone Encoder – Provides 32 tones via direct access from the rotary dial switch to all EIA CTCSS tones from 67 to 203.5 Hz, allowing access to multiple repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7"; 6-30V DC.



ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20 VDC. Dim: 1.85" x 1.12" x 0.35".

ICOM D-STAR REPEATERS & CONTROLLER



D-STAR is a new ham radio system which offers digital voice and data communication. It connects repeater sites over the Internet to form a global ham radio network. It provides a new capability and functionality to ham radio and emergency communications systems. Some of these features include: D-PRS®, Text Messages, Internet Access, Auto I.D., Digital Voice and Location, Rescue Tracking, and Crossbanding.

ID-RP2C Repeater Controller – Controls up to 4 RF modules. Every D-Star repeater system needs a repeater controller.

ID-RP2000V 2M Voice Module – RX & TX: 144-148 MHz; Output Power: 23-30W (high) and 2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps).

ID-RP4000V 440 MHz Voice Module – RX & TX: 440-450 MHz; Output Power: 23-30W (high) and 2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps).

Special Order Units:

ID-RP2D 1.2 GHz Data Module – RX & TX: 1240-1300 MHz; Output Power: 9-12W (high) and 0.5-1.2W (low); Communication speed: 128 kbps.

ID-RP2V 1.2 GHz Voice Module – RX & TX: 1240-1300 MHz; Output Power: 6-12W (high) and 0.5-1.2W (low); Communication speed: 4.8 kbps.



VXR-7000VA 50W 2M FM Desktop Repeater 136-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display*; CW transmitter I.D.*; Time-out, hang and guard timers*; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, auto. DC back-up. Dim: 12.8" w x 4.5" h x 15.4" d; 22 lbs. **CLOSEOUT**

* Dealer programmed feature

WIRES™ INTERNET LINKING

WIRES™ (Wide-Coverage Internet Repeater Enhancement System) is an easy-to-use system for linking repeaters and/or home stations together, using Internet voice technology. You can talk world-wide using your HT or mobile radio via a WIRES-equipped node.



HRI-100 Amateur Radio Internet Linking Kit Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD, manual, power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card cables and WIRES™ II user/server agreement.

DV AP - Turn your PC into a Hot Spot!

DV AP – The DV Access Point allows users to connect to the D-Star Network using a 2M D-Star radio without being in range of a D-Star repeater that is on the gateway. The DVAPTool software connects the DV AP to the D-Star Network by using a 1.6+ GHz CPU PC running Windows XP/Vista/7 or Linux, or an Intel CPU based Mac running OS X with a USB port and high speed internet. The DV AP has a 10mW 2M transceiver that gives you about 100 yard range with the supplied SMA antenna. You can extend the range using a higher gain outside antenna.



MFJ CODE PRACTICE READERS KEYERS

557 Code Oscillator with Key – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110V AC with MFJ-1312D (\$15.99). Dim: 3.75" w x 2.25" h x 8.5" d.



554 Code Practice Oscillator – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Dim: 4.25" w x 1.5" h x 5" d.

550 Simple Hand Key



414 Professional Classroom Tutor – Features include LCD readout, printer port and audio tape recording output. Create and save 3 custom messages for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and patch cable. Uses 12V DC or 110V AC with MFJ-1312D (\$15.99). Dim: 8.5" w x 2.25" h x 6" d.



452 with Keyboard (not shown)

462B

452 Super CW Keyboard – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5-100WPM; Weight: 5-95%; Sidetone: 300-3000 Hz sidetone; Serial Numbers (0-9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12V DC.

452X – Same as 452 without keyboard.

462B MultiReader™ – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the auto decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. The internal speaker is used to monitor incoming CW audio signal. Requires 12V DC. Dim: 6.25" w x 2.5" h x 6.25" d.

5162 Receiver Cable – Connects the 461 or the 462B to a radio's external 3.5mm jack.

418 Pocket-Size Morse Code Tutor with LCD Display – Learn Morse Code anywhere! A large LCD display reads out letters, numbers and punctuation in plain English. See code as it is being sent. MFJ's proven Beginners Course takes you from zero code speed to solid copy fast! Realistic plain English QSO practice helps you pass your FCC Code exam. High-Speed practice takes you to Extra Class and beyond. Practice copying entire words - not individual characters. Easy to use just choose from menus on the LCD - no manual needed. Uses 9V battery (not included). Dim: 3.75" w x 2.25" h x 1" d; 5.5 oz.



461 Pocket-Size Morse Code Reader – Looks like the 418 but turns Morse Code signals into text on the LCD screen. Full description on page 113.



464 CW Reader With Built-In Keyer – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; two-line LCD shows "send and receive" text; Front panel speed and volume controls; four message memories; 190 character type-ahead and read-again buffers; Adjustable weight (25% to 75%) and sidetone; Built-in speaker; Dim: 6.25" w x 2.5" h x 6.25" d.



407D Deluxe Electronic Keyer – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. uses 9V battery. Dim: 7" w x 2" h x 6" d.

401D Econo Keyer – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4" w x 1.75" h x 3.75" d.



434B Contest Voice Keyer™ – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like "CQ Contest this is K9KHW"... "You're 59"... "Grid is EN63" and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3-500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu and Alinco rigs using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head (\$34.99) allows out of the way operation. Use 9 Volt battery, 9-15V DC or 110V AC with MFJ-1312D, (\$15.99). Dim: 6.5" w x 2.5" h x 6.5" d.



422D



490

422D Keyer-Paddle Combo – Consists of a unique MFJ/Curtis Keyer™ in a compact package installed on a Bencher iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memories, speaker, sidetone and semi-auto/tune modes. Keys grid block, cathode or solid state. Uses 9 volt battery or 110V AC with MFJ-1312D (\$15.99). Dim: 4" w x 2.25" h x 4.25" d.

422DX Keyer Only – Install on your Bencher or MFJ 564 Iambic paddle.

490 Menu Driven Memory Keyer and Bencher Paddle Combo – A compact feature-rich keyer mounted on a Bencher iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic, semi-automatic, bug or handkey modes. Select iambic A/B, Morse trainer or contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110V AC with MFJ-1312D (\$15.99). Dim: 5" w x 3" h x 5.5" d.

490X Menu/Memory Keyer Only – Same as MFJ-490 but without Bencher paddle.



492 Menu Driven Memory Keyer – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110V AC with MFJ-1312D (\$15.99). Dim: 6.5" x 2.5" x 6.25".



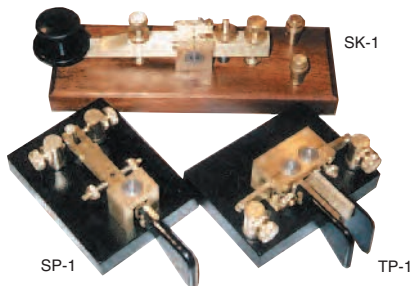
495 Millennium CW Keyer – A powerful keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; iambic keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110V AC with MFJ-1312D (\$15.99). Dim: 6.25" w x 2.5" h x 6.25" d.



447 SlimLine Deluxe Keyer – Front panel speed, weight, tone, volume controls and message, semi-auto, tune and power buttons. Jack for speaker or headphones. Dim: 6.25" w x 1.75" h x 5" d.

KENT Keys

Produced by R.A. Kent Engineers. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.



SK-1 – Straight Morse Key.
SP-1 – Single Paddle Morse Key.
TP-1 – Dual Paddle Iambic Key.

UM Unified
Microsystems



XT-4 CW Memory Keyer – Designed for QRP, field day, mobile or any portable operation. Great in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode engages after 30 min. of inactivity. Uses 9V battery.

KC-4 – CW Cable set for XT-4 & VK-64.

VK-64 Combination CW/Voice Keyer – Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses a 12V wall power supply.

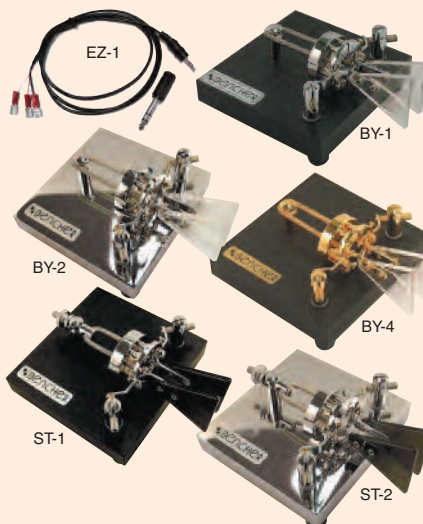
VKC-8 Shielded Audio Cable – A semi-kit wired and tested except for microphone and transmitter connectors (8-pin).



**The
Better RF
Company**

I-MATE Message Accessory for ICOM HF Radios Provides external selection of pre-recorded voice and keyed messages for the IC-7600, IC-7700, IC-7800, IC-756PROII & III and keyed CW messages for the IC-746PRO & IC-7410. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Alternate audio input for second mic. Plugs into transceiver mic. jack and powers from the available voltage.

BENCHER, INC. IAMBIC & SINGLE LEVER PADDLES



Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contact points and heavy non-skid base.

EZ-1 – Universal key hook-up cable.

IAMBIC

BY-1 – Black base/Chrome components.

BY-2 – Chrome base & components.

BY-4 – Black base/Gold components.

SINGLE LEVER

ST-1 – Black base/Chrome components.

ST-2 – Chrome base & components.



RJ-SERIES KEYS

Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.

RJ-1 – Black base/Chrome components.

RJ-2 – Chrome base & components.



Code practice oscillator
and Morse code monitor



Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.

OCM-2W Wired

• **OCM-2K** Kit



K-1 Low-cost General Purpose Key – Phenolic base, adjustable tension, contact spacing.

K-4R Deluxe High Quality Key – Polished brass plated zinc base, shorting bar.

VIBROPLEX®



CP3 1/4" Plug and Cord for CW Keyers.

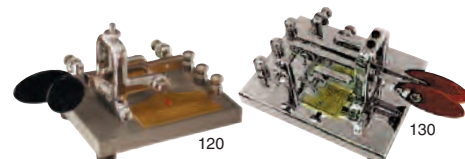
The Original Bug from 1904 for 20-50+ WPM.

110 Standard – Painted base/chrome top.

195 Blue Racer 2000 Standard – Blue base with chrome top and red finger pieces.

105 Deluxe – Polished chrome base and top parts with fine jewel movements.

100 Presentation – Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements.



Vibrokeyer (left) – Single lever paddle initiates automatic dots and dashes of an electronic keyer.

120 Standard – Black base, chrome parts.

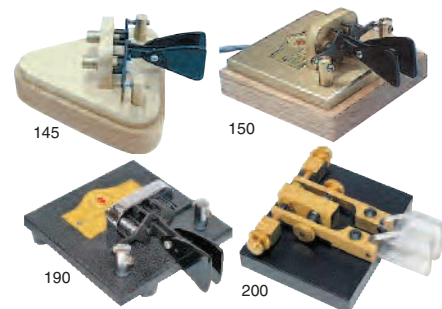
115 Deluxe – Chrome base and top parts with jeweled movements.

Iambic (right) – Allows automatic dot/dash insertion.

135 Standard – Black base, chrome parts.

130 Deluxe – Chrome base and top parts with jeweled movements.

125 Presentation – 24K gold-plated top plate, chrome base with jeweled movements.

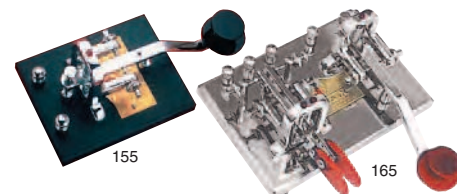


145 Triangle Brass Racer Iambic – Solid brass paddle & polished hardwood base.

150 Square Brass Racer – Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs.

190 Square Racer Standard Iambic – Black base with chrome top parts, cord included.

200 Code Warrior Jr – Magnetic Paddle.



Straight Keys (left) – Unique mechanical action, unlike any straight key ever manufactured.

155 Standard – Black base, chrome parts.

160 Deluxe – Chrome base and parts.

Deluxe Double Keys (right) – Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.

165 Deluxe Straight Key/Iambic

West Mountain Radio

RIGblasters & CW/switch



The easiest way to connect a radio to a PC to operate old or new analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, a PC, and appropriate software take the place of old expensive adapters, TNCs, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of an old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, come with an up-to-date CD collection of ham radio operating software, all the cables and power supply – all you need to get on the air. Six models to choose from for your operating needs. Use with any USB or RS-232 computer and over 2000 different radios.

RB/PR/CUSB RIGblaster Pro USB – The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with a computer and a radio. For 8-pin and RJ-45 radios as supplied.

RB/PL2/CUSB RIGblaster Plus II USB – Run all sound card modes with fully automatic operation between the mic and computer. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. Uses a plug and play USB interface, built in CAT/CI-V rig control interface, a front panel transmit level knob and it is USB powered. For 8-pin and RJ-45 radios as supplied.

RB/NO/CUSB RIGblaster Nomic USB – Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an Internet remote link. Unplug your microphone whenever you wish to use sound card software. For 8-pin and RJ-45 radios as supplied.

RB/PP RIGblaster Plug & Play – Compatible with over 25 modes and all ham radio sound card programs. Connects through radio's DATA jack and computer's USB port and sound input. A built-in USB to serial converter provides T/R switching, CW keying and CAT/CI-V rig control. Complete with USB cable, computer audio cable & a CD-ROM. The plug & play has fully isolated audio and keying, runs from USB power. A special feature for Echolink provides carrier detect on CTS, DSR and DCD. Some radios will require an additional Data Jack Adapter cable; does not work with FT-847 or FT-1000D.

CIV/CBL Rig Control Cable for CI-V Radios.

CATMINI/CBL Rig Ctrl Cable for CAT Radios.

PP/CW/CBL CW Cable Kit for RIGblaster Plus II, Plug & Play and the Advantage.

Auxiliary Jack Adapters:

RPA/I13D 13-pin DIN, for Icom.

RPA/I8D 8-pin DIN, for Icom.

RPA/K13D 13-pin DIN, for Kenwood.

For Rig Compatibility information see the chart at:
www.aesham.com/rig.shtml

Note: Vista & Windows 7 Users ...

Get the right 32 or 64 bit drivers & install guides at:
westmountainradio.com > Support > Downloads

RB/DU/CUSB RIGblaster Duo Station Integration Console – Now make your station neater, better and more efficient. The Duo has the same capabilities as other RIGblasters, but additionally, you can operate with two radios using just one microphone, one set of headphones, one pair of amplified or unamplified speakers and one sound card interface in your USB equipped PC. Comes with two 8-pin round mic cables, one RJ-45 mic cable, DC cord, jumper pack, USB cable, four mini-audio cables and adapters.

RB/AD/CUSB RIGblaster Advantage – The first RIGblaster with an internal soundcard that works independently from the PC soundcard. Supplied with Plug and Play USB cable interface and built-in USB to serial converter to connect to your PC for both digital modes and rig control. Built-in CAT/CI-V rig control interface. RS-232 radio control interface through DB9 port. Mic input with PTT override and interrupt. Front panel transmit and receive audio and VOX delay controls. Isolated CW/FSK output for keyboard CW/RTTY. For 8-pin and RJ-45 radios, all cables are included. Also included: mic configuration instant set up connectors, USB cable, audio cable and CIV/CBL rig control cable for CI-V radios.



CW/SWITCH Two-radio CW selector Switch

Enables a rig's CW paddle and keyers to be swapped between two radios with the flip of a single toggle switch so you don't have to wire the keys in parallel or switch around cables. The CWswitch selects which radio is keyed for use with break-in or semi-break-in transmit activation using: CW paddles keying the radio's internal keyer, straight keys, external keyers or computer keyers. Includes 12 volt power cord with Powerpole® plugs, (2) 3.5mm audio cables and (2) 3.5mm to 1/4" adapters. Dim: 5.25" w x 1.25" h x 2.3" d; 4 oz.

CW/SWITCHDUO – Same, but for use with RIGblaster Duo. Has Duo interface cord.

RT-1 RigTalk USB to serial converter with TTL output

Allows USB serial control or programming of any radio with a TTL level interface, CAT or CI-V system.

CATMINI/CBL Yaesu Cable for RT-1.

CIV/CBL ICOM/TEN-TEC Cable for RT-1.



Signalink™ USB with built-in Sound Card

Supports virtually ALL sound card digital and voice modes. Includes traditional modes such as RTTY, SSTV and CW as well as today's new modes like PSK31, WSPR, WINMOR, MT-63 and EchoLink®. Optimized performance on all modes. Ease of operation is provided by front panel controls that let you adjust your Transmit Audio, Receive Audio and Transmit delay "on the fly". **Some features:** FCC Class B Certified; Built-in Low-noise Sound Card; Simple Installation and Setup; Complete Radio Isolation; USB Port Powered; Works with virtually all Radios; Uses Mic, Data, or Accessory Port.

Signalink USB with Radio Cable:

SL-USB-13I 13-pin DIN for Icom.

SL-USB-13K 13-pin DIN for Kenwood.

SL-USB-5PD 5-pin DIN.

SL-USB-6PM 6-pin mini DIN.

SL-USB-8PD 8-pin DIN.

SL-USB-8R 8-pin round mic connector.

Not sure which one you need? Call us or visit:
www.tigertronics.com/sl_wirebm.htm

MFJ SOUND CARD INTERFACES



Sound Card Interface – A simple connection between a transceiver and computer sound card to operate Digital Modes: WSJT, PSK-31, Packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Uses internal jumpers to set up for any radio. Includes AC power supply, all cables and a collection of popular Digital Mode software on CD.

1275 Accepts 8-pin round mic plug.

1275M Accepts RJ-45 modular plug.

Super Sound Card Interface – Has all of the features of the MFJ-1275 above, plus: an Auxiliary input jack to switch the sound card to another device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Includes CD with digital modes software, RS-232 and audio cables, and AC supply.

1279 Accepts 8-pin round mic plug.

1279M Accepts RJ-45 modular plug.

Basic Sound Card Interface

A basic plug-and-play interface for the digital modes. No external power needed. Jacks for sound card, radio, speaker and RS-232 (no mic jack or mic switch). RS-232, audio and mic cables and digital modes software CD is included.

1273B Accepts 8-pin round mic plug.

1273BM For RJ-45 modular plug.



RTS-03 USB to Serial Port Adapter

Connect computers without serial ports to older serial controllers, sound cards, cables, etc. Includes drivers on CD-ROM for Windows 2000, XP, Vista & Windows 7 (32 or 64bit).

MULTI-MODE DATA CONTROLLERS

Kantronics

NEW



KPC-3 Plus – 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAX modes, use with EMWIN; Personal Mailbox (PBS) supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, comes with 512k RAM that used to be an option.

9612 Plus/128 – 1200 bps port and second port of 4800 – 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCSAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability.



KAM XL Multi-Mode DSP Controller - Third generation multimode TNC, state-of-the-art for operations on HF/VHF/UHF, while supporting DSP modems and popular new modes: Packet (300, 1200, 9600 bps), G-TOR, PACTOR I, AMTOR (ARQ, FEC, SELFEC, CCIR 476 and 625), PSK31, RTTY, NAV-TX/AMTEX, ASCII, WEFAX, EMWIN, Dual-port Mailbox, CW, GPS NMEA-0183 compatible, Telemetry, Remote Control: Remote SYSOP Access, Kantronics Host Mode and KISS. Features include: **Location Tracking/Announcement** with a GPS connected you can automatically announce your position to others via HF, VHF or UHF; **HF and/or VHF/UHF Operations** with dual radio ports a local packet can be received on VHF or UHF, then transmitted over HF; **Large Capacity Internal Mailbox** with 480K storage standard.

12VDCADAPTOR 120VAC Adapter – Supplies 12V DC @ 300 mA for Kantronics units.

TIMEWAVE TECHNOLOGY INC.



PK-232SC Front / Back

PK-232/PSK Multimode Data Controller – The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters, 100 Hz CW filter and adaptive PACTOR filters. Works with all sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set. 11-16V DC @ 800 ma. Dim: 11" w x 2.5" h x 8.25" d; 3 lbs.

PK-232/USB – Same as above except the RS-232 port is replaced by a USB port. **C/O**

PK-232SC – The latest of the PK-232 series. New features: USB sound card audio, Rig control for Icom CIV, Kenwood TX/RX/RTS/CTS & Yaesu CAT transceivers, and Galvanic computer isolation



PACKET TNC

PK-96/100K 9600/1200 Packet TNC – 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; 128K RAM. Requires 12V DC. Dim: 6.25" w x 1.375" h x 7.5" d; 1.25 lbs.

PK-96/100/USB – Same as above except the RS-232 port is replaced by a USB port.

AC-8 120V AC Adapter – Supplies 13.5V DC @ 1A for PK-232/PSK/USB & PK-96/100K.

W4RT Electronics

RADIO ACCESSORIES

One-Plug Filters

Direct plug-in W4RT-built Collins mechanical filters for Yaesu and Icom radios. Improve your CW/PSK experience with a 300 Hz (8-pole) or 500 Hz (7-pole) filter. The 300-Hz is often preferred by CW and PSK contesters. The 2.3 kHz SSB filter contains a 10-pole Collins Mechanical Filter. "Hearing" is improved and tests have demonstrated that a 2dB improvement in talk power can be realized by using this filter rather than the stock *MuRata* ceramic filter. All filters are properly terminated and easy to install except for the IC-703 filter that we recommend AES installs.

OPF-YCW300 300 Hz CW filter for Yaesu FT-817/857/897 and FT-2000 series.

OPF-CW 500 Hz CW filter for Yaesu FT-817/857/897 and FT-2000 series.

OPF-SSB 2.3 kHz SSB filter for Yaesu FT-817/857 and FT-897 series.

OBF817/NDIY 500 Hz CW & 2.3 kHz SSB filter for Yaesu FT-817 series.

OBF703718DIY 500 Hz CW & 2.3 kHz SSB filter for Icom IC-703 & IC-718 series.

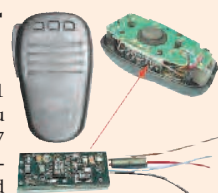
Speech Compressor

OBP-STD

One BIG Punch

Installs inside the MH-31 mic used with the Yaesu FT-817, FT-847, FT-857 and FT-897 series transceivers. An AF-based compressor configured to provide a 5dB increase in talk power with good audio quality. Requires no additional power. Turns On/Off with the MH-31's Tone switch.

MH-31OBP – A Yaesu MH-31A8J hand mic with a W4RT OBP-STD already installed.



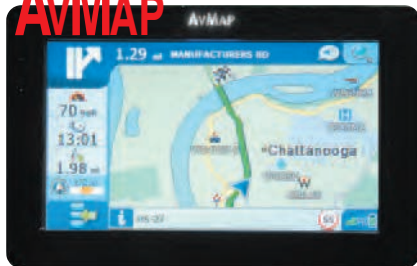
MFJ DX BEACON MONITOR

890 – Checks worldwide band conditions in just three minutes. It's a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the worldwide DX beacon activation sequence. LED indicators positioned across a world map show which of the 18 world beacons is active at any given time. Storing the beacon frequencies (14.100, 18.110, 21.150, 24.930 and 28.200 MHz) in your receiver memory allows quick band switching as one listens for beacon transmissions. When a beacon is heard (on your station receiver) on any of the beacon frequencies, that band is open to the location as indicated by the corresponding LED. No receiver connection required. 12V DC or 110V AC with the MFJ-1312D. Dim: 6.7" w x 5.2" h x 3" d.



Gift Certificates...
available from all
AES locations

AvMAP



G-6 APRS® SATELLITE NAVIGATOR

Incorporates a renewed interface with a 50 channel –160 dbm tracking sensitivity u-blox GPS engine for fast and highly accurate fixes. Like the previous Avmap G4 and G5, the new Avmap Geosat 6 (G-6 APRS), supports APRS and the direct two-way communication passing of NEMA data to your choice of NEMA capable transceivers. Comes with a Kenwood-ready cable and exclusive APRS bi-directional RS-232 APRS interface compatible with ALL current APRS ready Kenwood Radios, including the TH-D72A. Provides GPS location information for your transmitted APRS beacons, and it shows received APRS information on its map display. It stores up

to 1000 APRS contacts and can display them on the map. Includes a host of features that guarantee the safest navigation experience – a 4.8" full color 16:9 widescreen TFT Touch screen display and turn-by-turn vocal instructions announcing street names with Text-to-Speech technology.

The "Trip Computer" feature helps the driver with an overview of the journey, showing information such as speed graphs, average speed, highest speed reached, stop time etc.

The "Stop Planner" feature can organize the perfect journey. Simply set your destination and time of departure then specify the amount of time or distance when you desire to stop. The software will indicate the closest Hotel, Restaurant or Gas Station for your travel breaks.

Shows the "Ideal Route" according to parameters input by the user, allowing a full personalization of the journey.

Slim and stylish design. Incorporates a smart magnetic mount that makes it very easy to place the navigator anywhere in the vehicle. Choose the best view by simply adjusting the location or rotating it on the mount. The screen will automatically switch from landscape to portrait mode. Built-in Li-ion rechargeable battery, speaker and audio earphone output.

Dim: 5.3" w x 3.3" h x 0.8" d; 9.52 oz.

rt SYSTEMS

RADIO PROGRAMMING MADE EASY



Features:

- Insert or delete channel information without re-entering the entire list
- "Direct-Link" to ARRL TravelPlus™
- Open several files at once to copy between them; even files for different radios
- Multi-row copy/paste (all data or single column)
- Print a hard copy of your channels
- Find and Go-To commands
- Sort on any field then un-sort to original order

Kits include software on CD and USB cable

- KRD-D72** – Kenwood TH-D72A (CD only).
KRS-D710 – For Kenwood TMD-710A.
KRS-F6 – For Kenwood TH-F6A.
KRS-V71 – For Kenwood TM-V71A.
KRS-271 – For Kenwood TM-271A/281A.
WCS-D880 – ID-880H w/D-Star settings.
WCS-T70 – For IC-T70A.
WCS-V80 – For IC-V80.
WCS-V8000 – For IC-V8000.
WCS-208 – For IC-208H.
WCS-2200 – IC-2200H w/D-Star settings.
WCS-2820 – IC-2820H w/D-Star settings.
WCS-7000 – For IC-7000.
WCS-7200USB – For IC-7200.
WCS-80 – IC-80AD w/D-Star settings.
WCS-91 – IC-91A/AD w/D-Star settings.
WCS-9100USB – For IC-9100.
WCS-92 – IC-92AD w/D-Star settings.



USB-RTS-05 USB D-Star Data Cable – This cable works for data transfer as well as programming with the RT Systems' current software on the IC-80, IC-2820, and ID-880. It works for data transfer only on the IC-91AD and IC-2200 with appropriate software (from a 3rd party).

PORTABLE PACKS

MFJ 18 HamGear™ Tactical Chest Harness

For portable use; field day, DXpeditions, hiking, etc. Durable heavy duty twill burlap, water resistant, cushions blows. Adjustable shoulder straps. The harness is held in place by stretchable elastic belt with snap hook and adjustable sliders supported by nylon straps. An extra cargo pocket holds another radio, accessories, maps, etc.



MFJ 15 HamGear™ Belt Loop Radio Holder – A durable twill burlap pocket with elastic cord and velcro closure that easily stretches over any HT with antenna. Secures with attached 2" x 3" loop.



Nifty! Ham Accessories



Reference Card

Mini-Manuals – Water resistant spiral bound booklets, 4-1/4 x 8 inches, providing simplified step-by-step instructions for most of the radio's features.

Tri-Folded Reference Cards – High quality three-page foldout cheat sheets the size of a credit card.

Mobile Quick Reference Cards – The size of a common highway map, 4 x 8 in., double sided.

Guides for ICOM Models:

- QR-ICT70A** – Tri-folded Reference Card.
QR-ICT90A – Tri-folded Reference Card.
QR-ICV8 – Tri-folded Reference Card. **C/O**
QR-ICV80 – Tri-folded Reference Card.
QR-ICV8000 – Quick Reference Card.
QR-IC208H – Quick Reference Card.
QR-IC2200H – Quick Reference Card.
MM-IC2820H – 20 page Mini-Manual.
MM-IC7000 – 20 page Mini-Manual.
MM-IC706MKIIG – 12 page Mini-Manual.
MM-IC718 – 12 page Mini-Manual.
MM-IC7200 – 12 page Mini-Manual.
MM-IC7410 – 20 page Mini-Manual.
MM-IC746PRO – 20 page Mini-Manual.
MM-IC756PRO3 – 20 page Mini-Manual.
MM-IC7600 – 26 page Mini-Manual.
MM-IC7700 – 26 page Mini-Manual.
MM-IC80AD – 24 page Mini-Manual and Tri-folded Quick Reference Card Combo.
MM-IC9100 – 24 page Mini-Manual
MM-IC91AD – 20 page Mini-Manual and Tri-folded Quick Reference Card Combo.
MM-IC92AD – 24 page Mini-Manual and Tri-folded Quick Reference Card Combo.
MM-ID880H – 24 page Mini-Manual.

Guides for KENWOOD Models:

- QR-THF6A** – Set of 2 Tri-folded Ref. Cards.
MM-THF6A – 16 page Mini-Manual and 2 Tri-folded Quick Reference Card Combo.
QR-TM271/281 – Quick Reference Card.
MM-THD72A – 24 page Mini-Manual and Tri-folded Quick Reference Card Combo.
MM-TMD710A – 24 page Mini-Manual.
MM-TMV71A – 16 page Mini-Manual.
MM-TS2000/X – 18 page Mini-Manual.
MM-TS590S – 20 page Mini-Manual.

Guides for WOUXUN Models:

- QR-KGUVDP1P** – Quick Reference Card for KG-UV3D 2M/220 & 2M/440 radios.

Guides for YAESU Models:

- QR-FT1802M** – Quick Ref. Card..... **C/O**
QR-FT250 – Tri-folded Reference Card.
QR-FT270 – Tri-folded Reference Card.
QR-FT2800M – Quick Reference Card.
QR-FT60R – Tri-folded Reference Card.
QR-VX170/177 – Tri-folded Reference Card.
QR-VX3R – Set of 2 Tri-folded Ref. Cards.
QR-VX6R – Tri-folded Reference Card.
QR-VX7R – Tri-folded Reference Card.
MM-VX8R – 22 page Mini-Manual and Tri-folded Quick Reference Card Combo.
MM-VX8DR – Same but for VX-8DR.
MM-VX8GR – 20 page Mini-Manual and Tri-folded Quick Reference Card Combo.
MM-FTM350R – 22 page Mini-Manual.
MM-FT1900R – 12 page Mini-Manual.
MM-FT2000/D – 20 page Mini-Manual.

- MM-FT2900R** – 12 page Mini-Manual.
MM-FT450/AT – 18 page Mini-Manual.
MM-FT7800R – 12 page Mini-Manual.
MM-FT7900R – 12 page Mini-Manual.
MM-FT817ND – 12 page Mini-Manual.
MM-FT857D – 12 page Mini-Manual.
MM-FT8800R – 12 page Mini-Manual.
MM-FT8900R – 12 page Mini-Manual.
MM-FT897D – 12 page Mini-Manual.
MM-FT950 – 20 page Mini-Manual.
MM-FTDX5000 – 24 page Mini-Manual.

Guides for MFJ Analyzers:

- MM-MFJ259B** – 8 page Mini-Manual.
MM-MFJ269 – 8 page Mini-Manual.

Guides for UNIDEN Scanners:

- MM-BCD396XT** – 24 page Mini-Manual and Tri-folded Quick Reference Card Combo.
MM-BCD996XT – 26 page Mini-Manual.



EZGUIDEDSTAR E-Z Guide to D-STAR Describes the D-STAR operating modes, enhanced features, popular programs, repeater configurations and programming. Set up your radio to take advantage of call routing and linking within your local repeater system and internet gateways.

MMRADIO MG Radio Monitoring Guide – Ideal reference to Short Wave, Police, Fire, Aviation, Marine and more. Combines Shortwave Listening and VHF/UHF Scanning into one guide.

EZGUIDEECHO E-Z Guide to EchoLink™ – Ideal reference for those getting into EchoLink. Straight forward and simple explanations written for both beginning and experienced EchoLink users. Clear and easy to read with numerous illustrations.

EZGUIDEPSK31 E-Z Guide to PSK31 – Using DigiPan software as a basis, a step-by-step approach is used for configuring your software and computer system. Separate chapters for installation and setup of 3 different PC-to-Radio interfaces.

HF/VUOPGUIDE Operating Guide for the HF/UHF/VHF/Bands – Navigating the ham bands, identifying modes of operation and location. Integrates FCC regulations with operator practices and a variety of other useful information.

DXFIELDREF DX Field Reference – A complete list of Country Prefixes cross referenced to ITU and CQ zones. CQ and ITU world maps, NCDXF/IARU Beacon, DX Cluster, Propagation info.



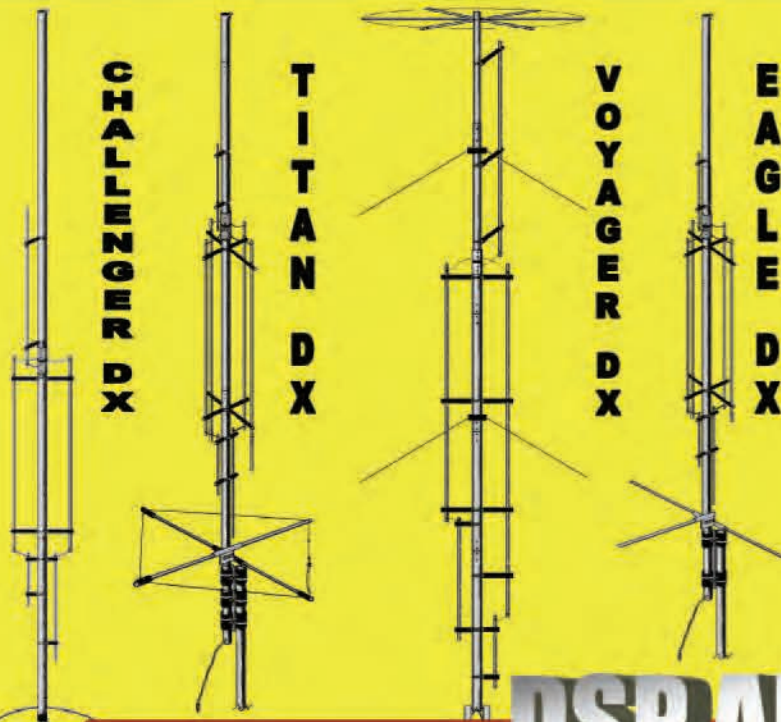
HT STAND HT Radio Desk Stand – Holds your radio upright and steady at a comfortable viewing angle. Adjustable shelf fits just about any HT with a belt clip. Includes a cable clamp for restraining antenna, power supply and mic cables. Can also be used as a cell phone or iPod® holder.

Building Blocks for the Perfect Station

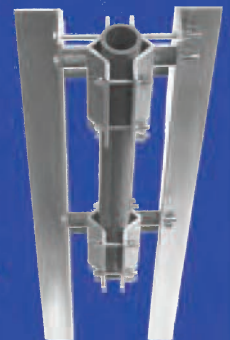
ANTENNAS



ACCESSORIES



QUICK TILT
LADDER MOUNT



QUICK TILT
GROUND MOUNT



GUY KITS



DSP AUDIO



HEAR IT IN LINE MODULE



HEAR IT ANEM



HEAR IT SPEAKER

A GAP ANTENNA HAS NO TRAPS, COILS, OR ELECTROMECHANICAL DEVICES, WHICH CAN INCREASE LOSS AND DECREASE RELIABILITY. SIMPLICITY IN DESIGN AND OVER 20 YEARS OF EXPERIENCE IN THE AMATEUR COMMUNITY RESULTS IN USER FRIENDLY ASSEMBLY, INSTALLATION AND OPERATION. SIMPLY LINE UP THE BIG PREDRILLED HOLES IN 6063 ALUMINUM OVER THE LITTLE HOLES AND INSERT A SCREW. A GAP IS PRETUNED AND DESIGNED TO HANDLE 1.5 KW PEP WITH A VSWR UNDER 2:1 ACROSS THE ENTIRE BAND*.

See GAP in the Price Guide

BANDS OF OPERATION	2m	6m	10m	12m	15m	17m	20m	30m	40m	80m	160m
GAP CHALLENGER DX	X	X	X	X	X		X		X	X	
31.5' TALL WEIGHS 21LBS SUPPLIED W/ DROP IN GROUND MOUNT REQUIRES 3 WIRE COUNTERPOISE @ 25'											
GAP TITAN DX			X	X	X	X	X	X	X	X	
25' TALL WEIGHS 25LBS MOUNTS ON 1 1/4" MAST NO RADIALS REQUIRED											
GAP VOYAGER DX							X		X	X	X
45' TALL WEIGHS 39 LBS SUPPLIED W/ HINGED BASE REQUIRES 3 WIRE COUNTERPOISE @ 57'											
GAP EAGLE DX			X	X	X	X	X		X		
21' TALL WEIGHS 19LBS MOUNTS ON 1 1/4" MAST NO RADIALS REQUIRED											

MONO GAP

Simple, easy to assemble, mono band antenna. Ideal for very limited space. Perfect for those who operate on a particular band and great for school demos and field days.

CONTINUOUS COVERAGE UNDER 2:1 ACROSS THE SPECIFIED BAND.

EACH SUPPLIED WITH:
3. WIRE COUNTERPOISE
PVC GROUND MOUNT
1/2 WAVE FEEDLINE

20m **MONO GAP**
16' Tall
7 lbs

40m **MONO GAP**
31' Tall
12.5 lbs

DSP NOISE CANCELLING PRODUCTS

THE PERFECT GO-BETWEEN YOUR EARS & YOUR RADIO. DESIGNED TO ELIMINATE NOISE & INCREASE YOUR LISTENING PLEASURE. PLUGS INTO THE EXTERNAL SPEAKER OUTPUT ON YOUR RADIO. ALL UNITS REQUIRE A 12-24 VDC POWER SUPPLY.

IN LINE MODULE - IDEAL FOR THE TRUE AUDIOPHILE. BOOK UP YOUR FAVORITE SPEAKER TO THIS DSP UNIT AND YOU CAN EASILY CONTROL PROCESSING LEVELS AS WELL AS INPUT AND OUTPUT LEVELS.

SPEAKER - WELL SUITED FOR MOBILE APPLICATION. THE SPEAKER AND DSP PROCESSOR ARE ALL IN ONE UNIT. REAR MOUNTED DIP SWITCHES CONTROL THE LEVEL OF PROCESSING. SET IT AND FORGET IT.

ANEM - SIMILAR TO THE IN LINE, IN A SMALLER PACKAGE. REMOVE THE COVER TO ACCESS SURFACE MOUNT POTS TO ALLOW FOR LEVEL ADJUSTMENTS. PROCESSING LEVEL CAN BE SELECTED VIA EXTERNAL MICRO SWITCH.

**MINI COOPER SHOWN WITH
CP-5M UNIVERSAL LIP MOUNT
ON THE DOOR EDGE.**

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.



For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

Maldol EM-5M SO-239 / PL-259
Footprint: 1.1" x .75"
Max Antenna: 40"

For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

COMET CP-5M SO-239 / PL-259
COMET CP-5NMO NMO / PL-259
Footprint: 3.4" x 1.25"
Max Antenna: 60"

For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

COMET HD-5M SO-239 / PL-259
COMET HD-5 3/8-24 3/8-24 / PL-259
Footprint: 3.75" x 1.1"
Max antenna: 80"

Life is a JOURNEY. Enjoy the ride!

COMET BNC-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC Super flexible featherweight whip

COMET SMA-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA Super flexible featherweight whip

COMET SMA-503 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz
• Length: 8.75" • Conn: SMA

Maldol MH-209 (BNC Conn) **MH-209SMA** (SMA Conn) **2M/70CM DUAL-BAND HT ANTENNAS**
3" length, soft rubber cover. Good performance in a small package!

COMET CSB750A DUAL-BAND 2M/440MHZ WIFOLD-OVER
Gain & Wave: 146MHz 3.6dBi 1/2 wave, 446MHz 6.1dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 42"
• Conn: PL-259 • Max Pwr: 150W

COMET CSB770A DUAL-BAND 2M/440MHZ WIFOLD-OVER
Gain & Wave: 146MHz 4.4dBi 5/8 wave center load, 446MHz 6.9dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less • Length: 51" • Conn: PL-259 • Max Pwr: 150W

COMET CSB790A DUAL-BAND 2M/440MHZ WIFOLD-OVER
Gain & Wave: 146MHz 5.1dBi 7/8 wave center load, 446MHz 7.7dBi 5/8 wave x 3 center load • VSWR: 1.5:1 or less • Length: 62" • Conn: PL-259 • Max Pwr: 150W

COMET B-10 / B-10NMO DUAL-BAND 2M/440MHZ
Gain & Wave: 146MHz 0dBi 1/4 wave • 446MHz 2.15dBi 1/2 wave • Length: 12"
• Conn: B-10 PL-259, B-10NMO - NMO style • Max Pwr: 50W

COMET SBB-2 / SBB-2NMO DUAL-BAND 2M/440MHZ
Gain & Wave: 146MHz 2.15dBi 1/4 wave • 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18"
• Conn: SBB-2 PL-259 • SBB-2NMO NMO style • Max Pwr: 60W

Maldol EX-107RB / EX-107RBNMO DUAL-BAND 2M/440MHZ
Gain & Wave: 146MHz 2.6dBi 1/2 wave • 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 29"
• Conn: EX-107RB PL-259 • EX-107RBNMO NMO style • Max Pwr: 100W

COMET SBB-5 / SBB-5NMO DUAL-BAND 2M/440MHZ W/FOLD-OVER
Gain and wave: 146MHz 3dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39"
• Conn: SBB-5 PL-259, SBB-5NMO - NMO style • Max Pwr: 120W

COMET SBB-7 / SBB-7NMO DUAL-BAND 2M/440MHZ W/FOLD-OVER
Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58"
• Conn: SBB-7 PL-259, SBB-7NMO - NMO style • Max Pwr: 70W

COMET
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.

Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710

909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!



Maldol MH-511 TRI-BAND 6M/2M/70CM HT ANTENNA • Length: 4" • Conn: Male SMA



Maldol MH-510 TRI-BAND 6M/2M/70CM HT ANTENNA • Gain: 0/0/3.2dBi • Length: 20.75" • Conn: Male SMA



COMET HT-224 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 1.3/1.4/1.8dBi • Length: 11.5" • Conn: Male SMA



Maldol MH-610 TRI-BAND 2M/220/70CM HT ANTENNA • Gain: 0/1.8/3.2dBi • Length: 14" • Conn: Male SMA

COMET SBB-224 / SBB-224NMO TRI-BAND 2M/220/440MHZ WITH FOLD-OVER • Gain & Wave: 146MHz 2.15dBi 1/4 wave • 220MHz 3.5dBi 5/8 wave • 446MHz 6dBi 5/8 wave x 2 • Length: 36" • Conn: PL-259 or NMO style • Max Pwr: 100W

Maldol EX-510B / EX-510BNMO TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 1/4 wave • 146MHz 2.15dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 VSWR: 37" • Conn: PL-259 or NMO style • Max Pwr: 50W FM

COMET SBB-15 TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 52MHz 2.15dBi 1/4 wave • 146MHz 4.5 dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 61" • Conn: PL-259 • Max Pwr: 120W

COMET UHV-4 QUAD-BAND 10M/6M/2M/440MHZ WITH FOLD-OVER • Gain & Wave: 10M & 6M 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • Length: 55" • Max Power: 10W 120W SSB 6M/2M/70cm 100W FM • Conn: PL-259

• 10M and 6M bands have individual tuning stubs

COMET UHV-6 HF/6M/2M/440MHZ MOBILE ANTENNA *80/*20/*17/40/15/10/6/2M/70cm Mobile antenna with fold-over hinge. Gain & Wave: 2M 2.15dBi 1/2 wave • 70cm 5.5dBi 5/8 wave x 2 • VSWR: HF 1.6:1 or less, 6M-70cm 1.5:1 or less • Length: 44" (min), 78" (max) • Max Pwr: HF 120W SSB, 6M 200W SSB/100W FM, 2M/70cm 100W FM • **L-14 optional 20M coil • L-18 optional 17M coil

*L-3.5 optional 80/75M coil • Features: • 6M/2M/70cm operation is constant. You CHOOSE the HF coils you want to add, up to four stock or optional. One vertical, the rest horizontal. • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in. Select the duplexer or triplexer for your specific radio(s). CF-706A, CF-530, CFX-514N.

UHV-6 in fold-over position.

Fold-over hinge included for easy entry to garage, parking structure, drive-thru etc... SB-15 / UHV-4 / UHV-6 / HMC-6S fold-over hinge has a threaded collar to lock the hinge vertically in place. It can't fold-over by itself at highway speed!

Maldol HMC-6S *40/20/15/10/6/2M/440MHZ MOBILE ANTENNA WITH FOLD-OVER
Gain & Wave: HF 1/4 wave • 2M 2.15dBi 1/2 wave • 70cm 5.3dBi 5/8 wave x 2 • VSWR: HF-6M 1.6:1 or less 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/2/70cm 150W FM • HMC-7C optional 40M coil

MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.



For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

Maldol EM-5M SO-239 / PL-259

Footprint: 1.1" x .75"

Max Antenna: 40"

For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

COMET CP-5M SO-239 / PL-259

COMET CP-5NMO NMO / PL-259

Footprint: 3.4" x 1.25"

Max Antenna: 60"

For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

COMET HD-5M SO-239 / PL-259

COMET HD-5 3/8-24 3/8-24 / PL-259

Footprint: 3.75" x 1.1"

Max antenna: 80"

COMET
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.

Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710

909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

UNIVERSAL LIP MOUNTS WITH COAX CABLE COMBINATIONS

Several mounts with coax combos are available to choose from depending on your vehicles available mounting space and antenna size.

No holes to drill, held securely in place with set screws and adjust in multiple planes. Attach to virtually any lip edge that is 1/4" thick or less: trunk lids, van doors, SUV doors, truck doors, hoods, etc...

Deluxe low loss cable assy included for easy entry thru the weather seal without causing water leaks, wind noise, and/or cable damage.

Max power: HF 200W
VHF 75W
UHF 50W

For small antennas & limited space

MODEL / ANT CONN / COAX CONN

Maldol EM-5M SO-239 / PL-259

Footprint: 1.1" x .75"
(Less than 1 sq inch!)
Max Antenna: 40"



For medium size antennas

MODEL / ANT CONN / COAX CONN

COMET CP-5M SO-239 / PL-259

COMET CP-5NMO NMO / PL-259

Footprint: 3.4" x 1.25"
Max Antenna: 60"



For tall or multi-band HF antennas

MODEL / ANT CONN / COAX CONN

COMET HD-5M SO-239 / PL-259

COMET HD-5 3/8-24 3/8-24 / PL-259

Footprint: 3.75" x 1.1"
Max antenna: 80"



COMET

CP-5M

Universal lip mount with coax,
SO-239 and PL-259 connectors.

Life is a JOURNEY. Enjoy the ride!

Combine the coax style and length you need with a bracket from below.
(assemblies also available with N-connectors)



COMET
3D5M / 3D4M

Standard low loss cable assy.

Gold plated SO-239 / PL-259 connectors.
3D5M length 16' 6"
3D4M length 13'



COMET
CK-3M5 / CK-3M

Deluxe low loss cable assy.

Includes 18" of mini RG-188AU type coax for easy entry from a lip mount without causing water leaks, wind noise or coax damage.
CK-3M5 length: 16' 6"
CK-3M length: 9' 9"

Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments and fit virtually any lip 1/4" thick or less. Soft rubber protects vehicle finish.



COMET
RS-840

Heavy-duty, 2 adjustment planes. For HF and heavier antennas up to 80".



COMET
RS-730

Heavy-duty, 4 adjustment planes, up to 60" antenna.



COMET
RS-720 / RS-720NMO

Med-duty, 3 adj planes, 60" ant.
RS-720: Accepts SO-239 conn
RS-720NMO: Accepts NMO conn



COMET
RS-520

Light-duty, 3 adjustment planes, up to 45" antenna.



Maldol
MK-30H

12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.



Maldol
EM-B80

Light-duty, 2 adjustment planes, up to 40" antenna.

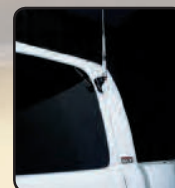


COMET
GRB-5M

Trunk lip mount, low-profile, black anodized stainless steel. Offset washers provide up to 17 deg. vertical adjustment

of antenna. 16' 9" of deluxe cable included, 18" of mini RG-188AU style coax for easy entry thru the weatherseal. Gold-plated SO-239/ PL-259 connectors.

The rear doors on newer trucks are the perfect place to mount antennas • No holes to drill • Above roof line • Easy access • When mounting to a van, SUV, truck, etc., use the CP-5M or build your own system with components shown above. There are several mount sizes, coax diameters and coax lengths from which to choose.

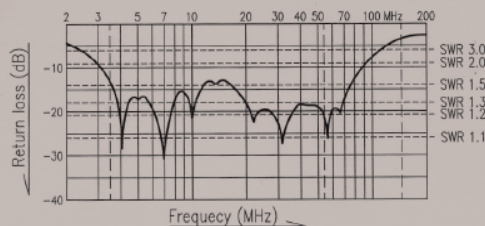


COMET
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.
Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710
909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

Life is a JOURNEY. Enjoy the ride!

COMET
and **Maldol**
Base Antennas



CHA-250B VSWR graph

"One person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-DXpedition to a campground or a nice tropical island! In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 6 meters thru 80 meters without the requirement of an antenna tuner and ground radials. You'll even be able to work some DX while you're at it!" – Dan Dankert N6PEQ

COMET CHA-250B BROADBAND HF/6M GROUND-PLANE ANTENNA

A newly designed broadband vertical with NO GROUND RADIALS. EXTREMELY easy to assemble, requires no tuning or adjustments and VSWR is under 1.5:1 from 3.5-57MHz! • TX: 3.5MHz – 57MHz • RX: 2.0 – 90MHz • VSWR is 1.5:1 or less, continuous • Max Power: 250W SSB/125W FM • Impedance: 50 Ohm • Length: 23' 5" • Weight: 7 lbs. 1 oz. • Conn: SO-239 • Mast Req'd: 1" – 2" dia. • Max wind speed: 67MPH

COMET GP-15 TRI-BAND 52/146/446MHZ BASE REPEATER ANTENNA

& Wave: 52MHz 3.0dBi 5/8 wave • 146MHz 6.2dBi 5/8 wave x 2 • 446MHz 8.6dBi 5/8 wave x 4 • Max Pwr: 150W • Length: 7' 11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • 2MHz band-width after tuning (6M) • Construction: Single-piece fiberglass

COMET CX-333 TRI-BAND 146/220/446MHZ BASE REPEATER ANTENNA

& Wave: 146MHz 6.5dBi 5/8 wave x 2 • 220MHz 7.8dBi 5/8 wave x 3 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 120W • Length: 10' 2" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

& Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Max Pwr: 200W • Length: 5' 11" • Weight: 2lbs. 9ozs. • Conn: Gold-plated SO-239 • Construction: Single-piece fiberglass

COMET GP-6 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

& Wave: 146MHz 6.5dBi 5/8 wave x 2 • 446MHz 9.0dBi 5/8 wave x 5 • Max Pwr: 200W • Length: 10' 2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

Maldol HVU-8 ULTRA-COMPACT 8 BAND HF/VHF/UHF VERTICAL ANTENNA

80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for balcony installations, the radials can all be rotated to one side, • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dBi • Gain 70cm: Two 5/8waves in phase, 5.5dBi • Impedance: 50 Ohm • Max Power: HF 200W SSB • 6M-70cm: 150W FM • Conn: SO-239 • Height: Only 8' 6" • Weight: 5lbs. 7ozs.

COMET GP-9 / GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

BEST SELLER! • Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W • Length: 16' 9" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

COMET H-422 QUAD-BAND HF DIPOLE Compact 40/20/15/10M "V" or Horizontal Dipole • Max power: 1kW SSB • Length "V" Dipole: 24' 3" • Horizontal Dipole: 33' 10" • Shipping length: 79" • Weight: 11 lbs 14 ozs • Wind Load: 3.02 sq feet • Required mast size: 1.5" - 2.5" diameter • CBL-2000 2kW Balun included • Simple installation, band tuning and profile change

COMET
and **Maldol** Antennas

For a complete catalog, call or visit your local dealer.

Or contact NCG Company. 15036 Sierra Bonita Lane, Chino, CA 91710

909-393-6133 • 800-962-2611 • FAX 909-393-6136 • www.natcommgroup.com

ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

Ruggedized Base/Repeater Antennas**X50NA**

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X50 is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

Specifications:

Frequency: 2m: 144-148 MHz,
70cm: 440-450 MHz

Gain: 2m: 4.5 dB,
70cm: 7.2 dB

Power: 200 watts#

Wind Rating: 135 MPH (no ice)

Height: 5.6 feet

X30A

The X30A works well in areas where height and/or antenna restrictions are an issue.

Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

Specifications:

Frequency: 2m: 144-148 MHz
70cm: 440-450 MHz

Gain: 2m: 3.0 dB
70cm: 5.5 dB

Power: 150 watts#

Wind Rating: 135 MPH (no ice)

Height: 4.5 feet



COAX CONNECTION
AT BASE END



HEAVY DUTY BASE/
RADIAL ASSEMBLY



STRONG JOINT
COUPLINGS

Mono-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
CP22E ¹	144	6.5	200	UHF	9.0	70
CP62 ^{1,9}	6m	5.5	200	UHF	22	80
F22A	144	6.7	200	UHF	10.5	112
F23H ⁸	144-174	7.8	350	UHF	15.0	90
F718A	440	11.5	250	N	15.0	90
F1230A II	1.2 GHz	13.8	100	N	12.0	112
SP G200	2.4 GHz	11.0 dBi	—	N	4.8	135

Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
CP610 ^{1,9}	6m/10m	5.5/3.4	200	UHF	22	80
X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X300NA	144/440	6.5/9.0	200	N	10.5	112
X510HDN	144/440	8.3/11.7	330/250	N	17.2	90
X510HDM	144/440	8.3/11.7	330/250	UHF	17.2	90

Tri-Band Base/Repeater Antennas

Max requirement: 1.4" 2.4"

MODEL	BAND (MHz)	GAIN (dB)	WATTS#	CONN.	HT. FT.	RATED WIND MPH (No Ice)
V2000A ^{3,5}	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A ⁴	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

NOTES:

¹ Heavy duty aluminum construction.

² X510NJ: 144-147/430-440 MHz.

³ 1/4λ, rated in dBi.

⁴ 2m: 146-148; 100 watts

⁵ 52-54 MHz only. Tunable.

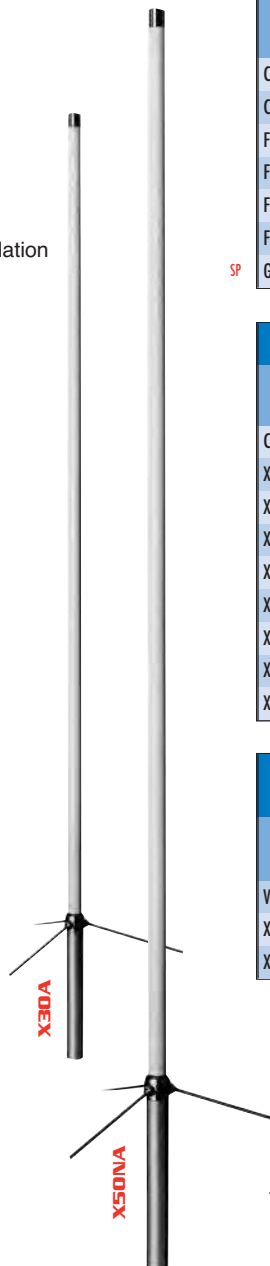
⁶ Tunable for 10 MHz BW.

⁷ 1.25 Bandwidth.

⁸ Tunable 144-174 with cutting chart.

Power rating should be reduced in repeater service.

BAND: 144-144-148 MHz, 222-222-225 MHz.
420-420-430 MHz, 430-430-440 MHz.
440-440-450 MHz, 1240-1240-1300 MHz.



DISCONE, MULTIBAND VERTICAL & YAGI ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

Discone Antennas

Mobile Discone Antenna

The **D220** mobile discone antenna offers outstanding broadband reception performance from 100 MHz to 1.6 GHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2 GHz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond 400/K600 series of mounts, and will withstand wind speeds in excess of 100MPH.



Super Discone Antennas

The **D3000N**, **D130J** and **D130NJ** Super Discone Antennas are ultra-wideband, covering amateur radio, commercial 2-way, cellular, air traffic control and various utility frequency bands. Rust-free stainless steel is employed in major component parts making the antennas rust resistant and durable.

- Ideal for 2m, 1-1/4m, 70cm, 33cm and 23cm amateur commercial bands
- Excellent "shop" antenna for testing various transmitters on a single coax
- Can be made further compact and lightweight by removing the top loading coil if 25-50 MHz reception is not required

Discone Antennas

MODEL	FREQ (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	HT. IN.	ELEMENT PHASING
D220	100-1600 Rec. 144, 440, 902, 1200 Trans.	2.15	50	UHF	35.5	1/4λ @ 144 MHz 2.5/8λ @ 440 MHz
D3000N	25-3000 Rec./50-1200 Trans.	2.0	50/20 FM	N	67	Wideband Discone
D130J	25-1300 Rec./50-1200 Trans.	2.0	50	UHF	60	Wideband Discone
D130NJ	25-1300 Rec./50-1200 Trans.	2.0	50	N	60	Wideband Discone

Vertical Antennas

CP6AR Multiband HF

Diamond's **CP6AR** is a multi-band trap-vertical antenna for HF bands, covering the 75*, 40*, 20, 15, 10 and 6m amateur bands. Made from heavy duty aluminum, the CP6AR assembles easily and yields excellent performance and reliability from a compact base station antenna. Its compact size allows for many mounting options. Minimum 15' diameter required for mounting radials. No additional ground radials required. Use an antenna tuner for increased bandwidth.

Band / MHz	Approx. Bandwidth*
75m / 3.8 MHz	20KHz
40m / 7 MHz	40KHz
20m / 14 MHz	100KHz
15m / 21 MHz	200KHz
10m / 28-29 MHz	500KHz
6m / 50 MHz	1.5MHz

*1.8:1 SWR or better, 2.1:1 SWR or better on 75m.

Vertical Antennas

Most requirement: 1.4" 2.4"

MODEL	FREQ (MHz)	IMPED	WATTS (PEP)	CONN	BOOM LNTH.	WEIGHT
BB7V	2-30 (W/ TUNER)	50Ω	250	UHF	60"/22'	4.5 lbs.
CP725H	6m/10m/15m/40m	50Ω	500/500/400/200	UHF	11.8'	6.6 lbs.
CP5H	6m/10m/15m/20m/40m	50Ω	500/500/400/400/200	UHF	11.8'	6.6 lbs.
CP6AR	75/40/20/15/10/6m	50Ω	200	UHF	15.1'	9.9 lbs.
CP62	6m	50Ω	500W SSB/200W FM	UHF	22'	4.5 lbs.
CP610	6m/10m	50Ω	200	UHF	22'	4.5 lbs.

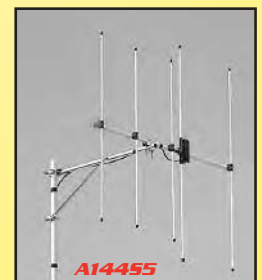
Yagi & Wire Antennas

- High gain
- Quality construction
- Easy assembly
- Great for base or portable use
- Factory adjusted - no tuning required

Yagi Antennas

Most requirement: 1.4" 2.4"

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	BOOM LENGTH	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A144S5	144	9	100	UHF	37.5"	5 element
A430S10	432	13	100	UHF	43"	10 element
A430S15	432	14.8	100	UHF	89"	15 element
S770R	Phasing Harness: 144MHz/2m, 440MHz/70cm. Input S0239/UHF (F), Output x2 PL259/UHF (M)					



Wire Antennas

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	LENGTH	ELEMENT PHASING
W735	80m/40m	-	1.2 kW	UHF	85.3'	-
W8010	80m/40m/20m/15m/10m	-	1.2 kW	UHF	63'	-

DIAMOND'S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

Maximum Performance Without Compromise



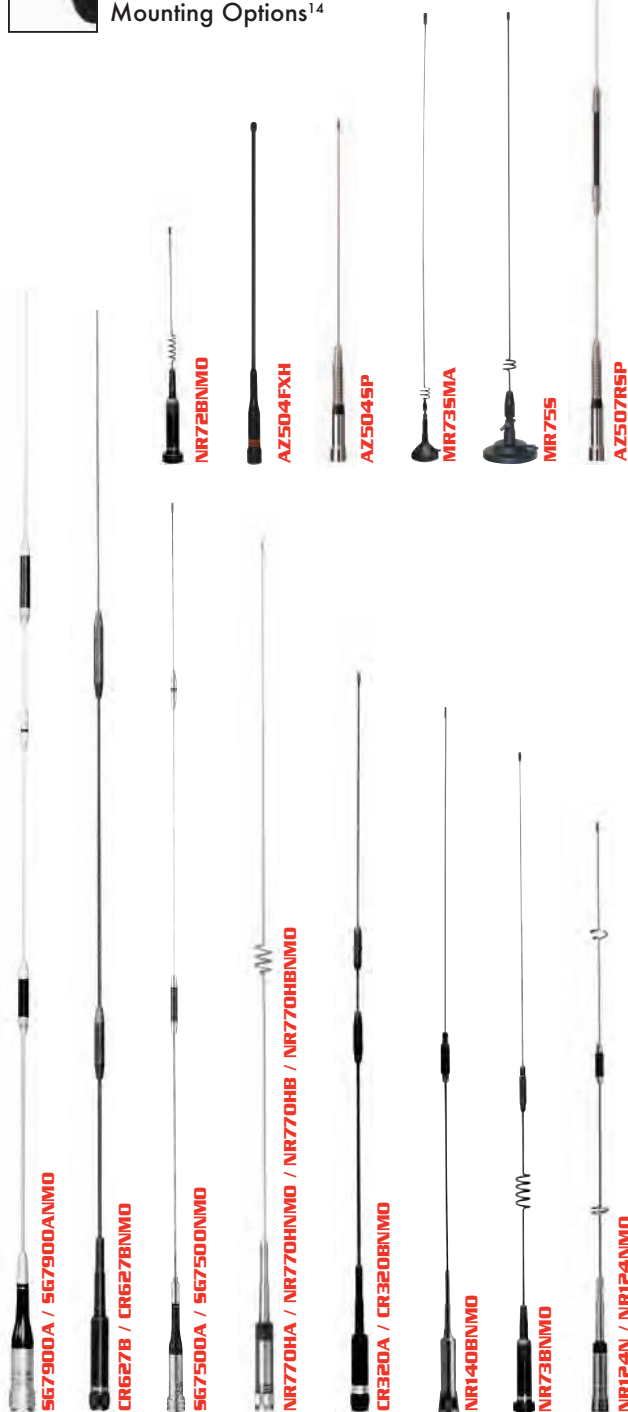
Fold-Over

One-Touch
Fold-Over Feature.**

Spring

Spring
Above Base¹²

Adjustable Hinge

for Multiple
Mounting Options¹⁴

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	HT. IN.	ELEMENT PHASING 1/4λ, rated in dBi.
M285S*10	2m	3.4	200	UHF	52.4	5/8λ
M285SNMO*10	2m	3.4	200	NMO	52.4	5/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
HF6FX*6	6m	2.15	250	UHF	40	1/4λ
HF6CL	50 MHz	250 SSB, 80 FM		UHF	86.6	1/2λ, radialless
HF40CL	7.0 MHz	200 SSB, 70 FM		UHF	86.6	1/4λ
HF80CL	3.5 MHz	120 SSB, 40 FM		UHF	87.5	1/4λ
M685S*6	6m	2.15	200	UHF	52.4	1/4λ
M685SNMO*6	6m	2.15	200	NMO	52.4	1/4λ
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2λ+1/4λ
NR124N	23cm	8.4	100	N	25	4-5/8λ
NR124NMO	23cm	8.4	100	NMO	25	4-5/8λ
MG200 ¹²	2.4GHz	7	-	N	23.6	3-1/2λ
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4λ, 5/8λ,
MR73SMA ^{13,14}	2m/70cm	2.15/3.4	10	SMA	19.5	1/4λ, 1/2λ MiniMAG
MR75S ^{13,14}	2m/70cm	2.15/3.4	35	SMA	20	1/4λ, 1/2λ MAG
MR77 ¹³	2m/70cm	2.15/3.4	70	UHF	20	1/4λ, 1/2λ MAG
MR77SMA ¹³	2m/70cm	2.15/3.4	70	SMA	20	1/4λ, 1/2λ MAG
AZ504FXH*6	2m/70cm	2.15/3.4	50	UHF	15.5	1/4λ, 1/2λ
AZ504SP*6,12	2m/70cm	2.15/3.4	50	UHF	15.5	1/4λ, 1/2λ
AZ507RSP ¹²	2m/70cm	2.15/4.9	50	UHF	27.5	1/2λ, radialless
NR72BNMO*6	2m/70cm	2.15	100	NMO	13.8	1/4λ, 1/2λ
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ, 1-5/8λ
NR770HA ⁷	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ, 2-5/8λ
NR770HNMO ⁸	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ, 2-5/8λ
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4λ+1/2λ, 3-5/8λ
SG7000A*6	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ, 6/8λ
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2λ, 2-5/8λ
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2λ, 2-5/8λ
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8λ, 3-5/8λ
SG7900ANMO*	2m/70cm	5.0/7.6	150	NMO	62	7/8λ, 3-5/8λ
CR320A*6	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF	37.4	1/4λ, 1/2λ,
CR320BNMO*6	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	NMO	38	2-5/8λ
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2λ, 2-5/8λ, 5-5/8λ
CR627B*6,9	6m/2m/70cm	2.1/4.5/7.2	120	UHF	60	1/4λ, 1/2λ+1/4λ
CR627BNMO*6,9	6m/2m/70cm	2.1/4.5/7.2	120	NMO	60	2-5/8λ
CR8900A*6,11	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4λ, 1/4λ 1/2λ, 2-5/8λ

6 Grounding required

7 NR770HB same specs but in black finish.

8 NR770HBNMO same specs but in black finish.

9 52-54MHz only

10 Tunable from 140-174MHz

11 FM only

12 Spring above base

13 Magnetic Base

14 Adjustable hinge

* Not recommended for Magnet Mount

** Fold-Over not available on CR-270A, M285, M285SNMO, M685, M685SNMO, MG200, MR77, MR77SMA, NR72BNMO, and NR73BNMO

HT/SCANNER & HF MOBILE ANTENNAS

HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SR Series antenna.

SRH320A SMA

2m/1-1/4m/70cm tri-band HT antenna. Flexible. 13 3/4". 10 watts, +3dBR.

SRH805 SMA

2m/70cm/23cm tri-band HT antenna. 1.75". 10 watts.

SRH815 SMA

2m/70cm/23cm tri-band HT antenna. Flexible. 6", 6 watts, +3dBR.

SRH940 SMA

6m/2m/70cm flexible tri-band HT antenna. 18", 10 watts, +2.15dBi. 1/4λ 50-144MHz, 1/2λ 440MHz.

SRH789 SMA

RH789 BNC
Adjustable 1/4λ 93-300MHz; 5/8λ 300-1100MHz, 7 3/4"-32" +9dBR.

RH951S BNC

High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. 14" (Wide band receive), +6dBR.

RH3 BNC

2m/70cm dual band "Black Bullet" HT antenna. 1.75". 120-900 receive.

RH77CA BNC

High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

RH707 BNC

2m/70cm dual-band tiltable whip - HT antenna. 8 1/4", +3dBR.

SRHF40 SMA

RHF40 BNC
Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

SRJ77CA SMA Female WOUXUN

Same specifications as the SRH77CA, with a Female connector. Will work with Wouxun® radios and other radios using SMA male connector on the radio.

SRH77CA SMA

High gain 2m/70cm dual band flexible HT antenna. 15", 10 watts, +6dBR.

RH205 BNC

2m HT antenna, telescopic, 5/8λ fully extended, 47.5"; 1/4λ retracted, 9", +9dBR.

SRH999 SMA

6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5", 10 watts, +6dBR.

SRH519 SMA

RH519 BNC
2m/70cm slim dual-band HT antenna. Flexible. 8", 10 watts, +3dBR.

SRHF10 SMA

RHF10 BNC
2m/70cm dual-band HT antenna. Air Band 150/300/450/800/900MHz (Rec.), 2.75", 6 watts.

NOTES: dBR refers to Relative Gain increase over typical factory supplied antenna.

CR8900A

Antenna Designed Specifically for the Yaesu FT8900

The CR8900A is pretuned to give best bandwidth and VSWR over the FM portions of 10m, 6m, 2m, and 70cm ham bands when mounted on the side of vehicle (i.e. trunk lid. Not recommended for through the roof mounts.) Use K400 or K600 series mounts.

Band: 10m/6m/2m/70cm
Gain (dBi): 2.15 (10m/6m/2m); 5.5 (70cm)
Watts: 60
Connector: UHF (PL-259)
Height: 50"
Element: 1/4λ-10/6; 1/2λ-2m; 2-5/8λ-70cm

SD330 / *SD330-3/8 Screwdriver Antenna

The SD330 can be used from 3.5-30 MHz. If using element OPE750 (included) instead of original element, it can be used from 7-50 MHz. OPE750 element is 17" shorter than original. To change the element, you only need to loosen one set screw.

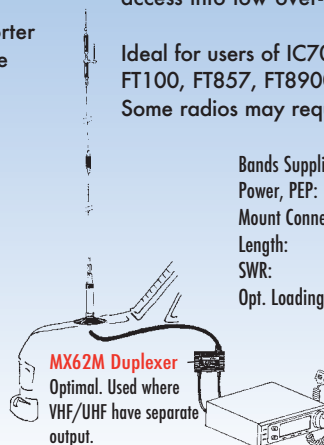
Band: 3-30 MHz
7-50 MHz with OPE750
Watts: 200
Connector: SD330: UHF (PL-259)
SD330-3/8: 3/8-24
Height: 66" @ 28 MHz
73" @ 3 MHz
30.3" @ 7-50 MHz
Element: 1/4λ Center Loading
VSWR: Less than 2.0

HV7A Mobile Antenna System For New HF/VHF transceivers (Such as: IC706 & IC7000 series, FT100, FT857 & FT8900R)

The HV7A has 5 band capability: 70cm, 2m, 6m, plus 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings.

Ideal for users of IC706 & IC7000 series, FT100, FT857, FT8900R and similar radios. Some radios may require a duplexer.

Bands Supplied: 10m/6m/2m/70cm
Power, PEP: HF 120w/VHF 200w
Mount Connection: UHF
Length: 54"
SWR: 1.5:1 nominal
Opt. Loading Coils: HVC7 40m
HVC14 20m
HVC18 17m
HVC21 15m



Recommended Antenna Mounts: K400C, K400S, K600S or K600M

PREMIUM ANTENNA MOUNTS

**K400 Series Heavy Duty
Hatchback/Door/Trunk Lid Mount**

Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

K400C* SO-239 base, 6.5' RG-316/B, PL-259
K400CNMO* NMO base, 6.5' RG-316/B, PL-259
K400-3/8C* 3/8X24 base, 6.5' RG-316/B, PL-259
K400S¹ SO-239 base, 13.5' RG-316/B, SMA/PL-259
K400SNMO¹ NMO base, 13.5' RG-316/B, SMA/PL-259

**K412 Series Deluxe
Hatchback/Door/Trunk Lid Mount**

Three-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45". Position adjusting knob.

K412C* SO-239 base, 6.5', PL-259
K412CNMO* NMO base, 6.5', PL-259
K412S¹ SO-239 base, 13.5', SMA/PL-259
K412SNMO¹ NMO base, 13.5', SMA/PL-259

* Use C110 Cable Assembly for front radio installations.

**K702M Deluxe
Low Profile Magnet Mount**

Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4" h. For VHF/UHF antennas up to 50" h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13' RG58A/U cable with PL-259 connector.

Heavy Duty Magnet Mount

2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' RG58A/U coax and PL-259. Recommended for antennas under 45".



SPM35 SO-239 mount, with PL-259 connector.
SPMNMO NMO mount, with PL-259 connector.
DPK4NM-N Type-N mount, with Type-N connector.

**K515 Series
Universal Luggage Rack Mount**

Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for medium-weight VHF/UHF antennas under 45", not requiring RF ground. Position adjusting knob allows antenna to foldover, and lock into horizontal position.



K515S¹ SO-239 base, 13.5' RG316, SMA/PL-259
K515SNMO¹ NMO base, 13.5' RG316, SMA/PL-259

**K550
Luggage Rack Mount**

Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.

K550KM SO-239 base, 13' RG58/U, PL-259
K550 Mount Only
K550L ♦ Mount Only, Oversize.

**K600
Variable Angle Trunk Mount**

Deluxe aerodynamic trunk mount. Vertical adjustment 0-9°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.



K600M SO-239 base, 16.5' two-step RG-188 Teflon® + 10' 5D, PL-259
K600S¹ SO-239 base, 1T3.5' RG-316 Teflon®, SMA/PL-259

**HRKS
Adhesive Backed Mount**

Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5' RG-316/B Teflon® coax with SMA connector. PL-259 adapter included.

Recommended antennas: NR770HA and NR770HB.

**K540 Mirror/Luggage Rack Mount**

Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45". Position adjusting knob allows antenna to fold over and lock into horizontal position.

K540KM SO-239 base, 13' RG58/U, PL-259
K540 Mount Only

**CRM
Mirror/Luggage
Rack Mount**

Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Balcony railings and Lumber racks.

**K9000 Motorized Mount**

Raise and lower your antenna with a touch of a button. Accepts "ground independent" antennas up to 45". 0-90° range. Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series.

Recommended cable group: C213 / C213NMO

K9000TM Trunk/Hatchback Mount
K9000LRM Luggage Rack Mount
K9000LRMO Luggage Rack Mount - Oversize/K515 style clamp.

* Add C110 Cable Assembly for front radio installations. ¹ Includes SMA to PL259 adapter.

CABLE ASSEMBLIES - COAX SWITCHES LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

Duplexers & Triplexers



MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY BAND (MHz)	LPF		HPF	LPF	BPF	HPF	LPF	HPF
PWR CW (ICAS)	400	150	100					
WATTS P.E.P.	1000	400	250	800	800	500	600	
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL	60dB			60dB			50dB	
VSWR	1.2:1			1.2:1			1.2:1	
CONNECTOR COMPLEMENT	MIX 144 430	MIX 144 430	MIX 144 430	MIX 50 144 430			MIX HF VHF	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

More duplexers/triplexers available on website.

Dummy Loads, Lightning Protection & Coaxial Switches



MODEL	DESCRIPTION
SP1000	Lightning surge protector, DC-1000 MHz, 400w, SO-239/SO-239
SP1000PW	Lightning surge protector, DC-1000 MHz, 400w, UHF (F)-(M), Waterproof.
SP3000	Lightning surge protector, DC-3000 MHz, 200w, Type-N (F)
SP3000W	Lightning surge protector, DC-3000 MHz, 200w, Type-N (F), Waterproof.
SP3000P	Lightning surge protector, DC-3000 MHz, 400w, Type-N (F)-(M).
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW max*, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW max*, Type-N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239*
DL30N	Dummy load, DC-1500 MHz. 15w average/100w peak, Type-N
DL30A	Dummy load, DC-500 MHz. 15w average/100w peak, PL-259

* See our website for full specifications

Cable Assemblies



C101

SO-239 base, 6.5' RG316 Teflon® coax & PL-259. Ideal cable assembly for trunk mount radios.

C101NMO Same as C101 with NMO base. For Diamond's K-Series mounts.
C213SMA Same as C101, 13.5' RG-316 Teflon® cable, SMA (M)
C213SNMO Same as C101NMO, 13.5' RG-316 Teflon® cable
C101-3/8C Same as C101, 6.5' RG-316 Teflon® cable
C101-3/8CKIT Upgrades any K400 mount to a K400-3/8C. Includes 3/8-24 hardware and C101-3/8C cable assembly

C1045MA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

C110BNC 10' assembly similar to above, uses RG316 Teflon® Coax terminating in BNC-male.
C110SMA Similar to C110BNC, terminates in SMA-male.
C211 SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110.

C1055MA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.

LARSEN - The Amateur's Professional

2M/70CM Dual Band Series Antennas

Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.



NMO2/70SH

Freq: 144-148/440-450 MHz
Gain: Unity/1.8 dBd
Power: 200 Watts
Type: VHF: Center Loaded 1/4 Wave
UHF: Center Loaded 3/4 Wave
Base: NMOUHFBASEB
Height: 19"
Whip: WNM02/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

NMO2/70B

Freq: 144-148/440-450 MHz
Gain: 1.6/3.5 dBd
Power: 100 Watts
Type: VHF: Center Loaded 1/2 Wave
UHF: Collinear
Base: NMO2/70BCO
Height: 36.75"
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts.



Tri-Band Scanner Antenna NMO150450800

Freq: 150-165/450-470/806-940 MHz
Gain: -7/0/1 dBd
Type: Tri-Band Scanner Only
Mount: NMO
Height: 16.5"



A Pulse Brand
3611 NE 112th Avenue
Vancouver, WA 98682
360-944-7551 / 800-426-4656
360-944-7556 / 800-426-1656
Email: info@larsen.pulseeng.com
Web: www.larsen-antennas.com

Kulglass Series High Performance Glass Mount Antennas

Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Larsen's unique bonding enhancer ensure the best possible grip to the glass.



KG2/70CXPL

Freq: 144-148/442-448 MHz
Gain: 0/2 dBd • 2.4/4.5 dBd*
Power: 100 Watts
Type: VHF: 1/2 Wave
UHF: Collinear
Base: KG2/700/S
Conn: PL-259
Height: 32.75"

* Ground plane required for gain.



Glass mount dual band antenna for 2m/70cm amateur radio frequencies with coax and connector.

KG144UDPL

Freq: 144-160 MHz
Gain: Unity
Power: 100 Watts
Type: 1/2 Wave
Base: KG1440/S
Conn: PL-259
Height: 48"
Whip: WKG144

Complete KG glass mount antenna with coax and connector



Base Station Antennas

Larsen manufactures a variety of small base station antennas for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.



BSAK

Freq: 144-512 MHz
VSWR: 1.5:1 or less
Power: 200 Watts
Conn: UHF Female
Whip: 51.75"

Complete base station kit for designing a base station unit from 144-152 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Mounting Pipe Not Included

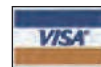
WE WANT TRADE-IN RADIOS!

Tell us what you have to trade...

1-800-558-0411

Sorry, no Handhelds

ORDER ON-LINE!



We accept I.M.P.A.C.® Government Credit Cards

USE YOUR CREDIT CARD



OM150CK

Complete self-mounting, no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.

Freq: 144-174 MHz
Gain: 2.5 dBd*
Power: 200 Watts
Type: 1/2 Wave
Height: 51.75"
Whip: W490
Coax: 17' of RG-58A/U
Conn: PL-259

* Ground plane required for gain.

Mobile GPS Antenna

GPSNMO02

Freq: 1575.4 MHz
Gain: 5 dBic/28 ± 2 dB (LNA)
Voltage: 5 VDC
Type: GPS NMO
Height: 1.3"
Diameter: 3"



Hear The Difference!

Industry's Best NMO Mobile Antennas

Larsen's version of the standard 3/4" Motorola TAD/TAE type mount (NMO) uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

NMO27C (Chrome) NMO27B (Black)

Freq: 27-31 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Base: NMO27BCO
Height: 53"
Whip: W490



NMO50C (Chrome) NMO50B (Black)

Freq: 47-54 MHz
Gain: Unity
Power: 150 Watts
Type: Loaded 1/4 Wave
Height: 52.5"
Whip: W490



NMOQSPEC (Chrome) NMOQSPECB (Black)

Freq: 136-960 MHz
Gain: Unity
Power: 200 Watts
Type: 1/4 Wave
Height: 22"
Whip: W200



NMO150C (Chrome) NMO150B (Black)

Freq: 144-174 MHz
Gain: 3 dBd
Power: 200 Watts
Type: 5/8 Wave
Height: 51.5"
Whip: W490



NMO440C (Chrome)

Freq: 440-460 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 33"
Whip: W154



NMO900B (Black)

Freq: 890-960 MHz
Gain: 3.4 dBd
Power: 200 Watts
Type: 5/8 over 1/2 Wave
Height: 12.75"
Whip: W195B.100, enclosed coil

Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

NMOKHFCXPL

Motorola-style Roof Mount
Size: 3/4"
Coax: 17' RG-58A/U
Conn: PL-259



NMOTLP

Motorola-style Low Profile
Trunk Lip Bracket, Black
Size: 1.75" x 1.75"
Coax: 17' RG-58A/U
Conn: PL-259



NMOMMR

Motorola-style Round Magnetic
Mount
Size: 3.5" Round
Coax: 12' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs.



FOLLOW US ON TWITTER!

twitter.com/K9AES

SEE THE LATEST DEALS AND NEW PRODUCTS

POMM

SO-239 female type magnetic
mount
Size: 3.5" x 3" rectangle
Coax: 12' RG-58A/U
Conn: PL-259
Pull Strength: 90 lbs



Same Day Shipment on Most Items

TMB34 (Chrome) TMB34B (Black)

Trunk gutter bracket, 3/4" hole.
Screws included
Size: 2" x 2"



Parts and Accessories

W490

Chrome .100 tapered replacement whip
for 144 MHz (49")

W490B

Black .100 tapered replacement whip
for 144 MHz (49")

WKG2/70

Black .100 tapered replacement whip with open coil
for KG2/70 (approx. 33")

W2/70B

Black .100 tapered replacement whip
for NMO2/70B (approx. 31")

RGSS

3 SuperSeal NMO Gaskets

SPRING

Shock Spring

HP34

(5) 3/4" Rubber hole plugs

KGREINSTALL

Reinstall Kit for KGs

NMOCAPB

Black NMO Rain Cap



A Pulse Brand

3611 NE 112th Avenue

Vancouver, WA 98682

360-944-7551 / 800-426-4656

360-944-7556 / 800-426-1656

Email: info@larsen.pulseeng.com

Web: www.larsen-antennas.com



Unity Gain

THF

VHF/UHF Trunk Lip Mount Antennas.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector



UGM

VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector



Collinear

Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB

- Power rating: 100 watts
- 3/8 x 24 thread
- 5/8 wave



RX-2 144 MHz 3.4 dB

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector



Collinear High Gain

Mobile Antenna

CG-144 5.2 dB 6 MHz BW

CG-220 5.2 dB 4 MHz BW

- Power rating: 200 watts
- 3/8

x24 thread

- 5/8 over ¼ wave
- Collinear design

CGT-144 5.2 dB 6 MHz BW

CGT-220 5.2 dB 4 MHz BW

- Coil same as above
- Swivel ball for vertical positioning
- Trunk mount base



MKR-2 Radial Kit

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded



VHF and UHF Mobile Antennas

MX Series NMO Magnetic Mount

Antenna

MX-2 144 MHz 3.4 dB

MX-220 220 MHz 3.4 dB

- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector

MX-2B 144 MHz 3.4 dB

- Same as above but all black coil



BBG Series NMO Swivel Ball

& Spring Antenna

BBG-144 3.4 dB

BBG-440-5 5.0 dB

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector



Dual Band 2 meter/ 70cm

Mobile Antennas

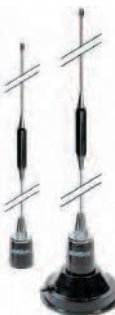
Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

MX-270

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector



LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain

- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin

LMC-144 3.4 dB gain

- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top

LMB-144 3.4 dB gain

- Power rating: 200 watts
- NMO style coil
- Black coil

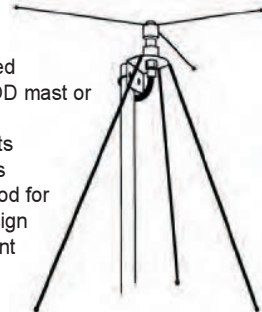


Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX

- 40 – 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCLB

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC on the other end

Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRMB

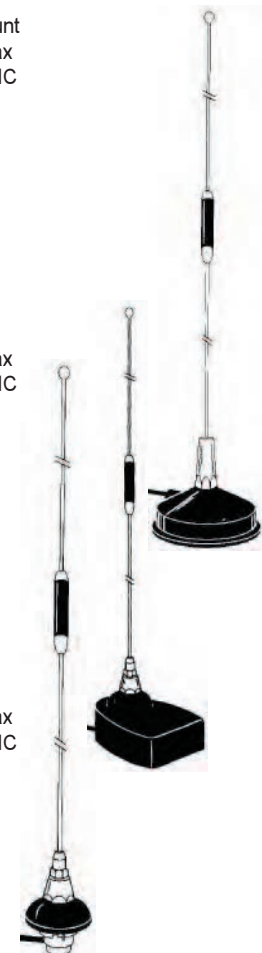
- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC connector

MOTB

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC connector

MORB

- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC connector



New-Tronics Antenna Corporation

225 Van Story Road
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.325.5077

Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs
RM-10	Standard	10 m	400 W	150-250 KHz	0.41
RM-11	Standard	11 m	400 W	150-250 KHz	0.41
RM-12	Standard	12 m	400 W	90-120 KHz	0.41
RM-15	Standard	15 m	400 W	100-150 KHz	0.42
RM-17	Standard	17 m	400 W	120-150 KHz	0.44
RM-20	Standard	20 m	400 W	80-100 KHz	0.46
RM-30	Standard	30 m	400 W	50-60 KHz	0.84
RM-40	Standard	40 m	400 W	40-50 KHz	0.84
RM-60	Standard	60 m	400 W	40-50 KHz	0.84
RM-75	Standard	75 m	400 W	25-30 KHz	1.05
RM-80	Standard	80 m	400 W	25-30 KHz	1.05
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10



Mobile HF Antennas Hustler Masts

MO-1
Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

MO-2
Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

MO-3
Mobile mast, 54" length, for bumper, fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

MO-4
Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

Professional Chrome Series

C-32

Chrome plated 1 1/2" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.



C-30

Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



C-29

Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



Resonator Spring

RSS-2

Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.



Magnet Mount .

MBM "Super" Magnet

- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".



Quick Disconnect

QD-2

100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.



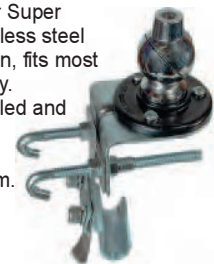
VP-1

Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



Bumper Mount BM-1

Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



Professional Stainless Steel Series

SSM-1

Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

SSM-2

Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

SSM-3

Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.



HLM

Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



TLM

Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



HOT

Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.



RVM

Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.





Model G3-144

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 7' 5

- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.²
- Mounting: 1 to 1 ¾

- Construction: High strength



Model G3-144

VHF and UHF Omni Directional Fixed Station Vertical Antennas

Model G7-144

Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

ELECTRICAL

- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 15' 4

- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 ¾

- Construction: High strength fiberglass & aluminum.



G7-144

Model G6-270R

Dual band 2 Meter & 440 MHz

ELECTRICAL

- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz - 2 Meters 10 MHz - 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: N female
- Length: 7' 6

- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾

- Construction: one piece radome



G6-270R

Model G6-144B

Two Meter

ELECTRICAL

- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: SO-239
- Length: 9' 9

- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾



G6-144B

Model G6-440

ELECTRICAL

- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 7' 3

- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.²
- Mounting: Up to 1 ¾



G6-440

Model G7-220

ELECTRICAL

- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

MECHANICAL

- Termination: Type N female
- Length: 10' 2

- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.²
- Mounting: Up to 1 ¾



G7-220

Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and permanent resonance. Our highly accurate traps provide top signal reports and consistent contacts. Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded - low VSWR at band edges
- Power capability - full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

Model 6-BTV

Bands 10-15-20-30-40 & 75 or 80 meters Length/weight 24 ft. / 16.5 lbs.

Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph. Power capability Full legal limit SSB/CW VSWR at resonance 1.15 to 1 or better Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 5-BTV

Bands 10-15-20-40 & 75 or 80 meters Length/weight 25 ft. 1 in. / 16.5 lbs.

Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph. Power capability Full legal limit SSB/CW VSWR at resonance 1.15 to 1 or better Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

Model 4-BTV

Bands 10-15-20-40 meters Length/weight 21 ft. 5 in. / 15 lbs.

Mounting Vertical support up to 1.75 O.D.

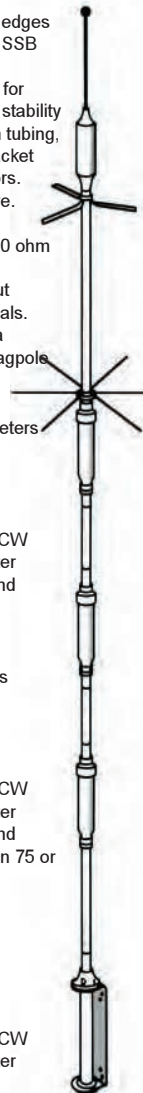
Wind Load 28 lbs. @ 70 mph. Power capability Full legal limit SSB/CW VSWR at resonance 1.15 to 1 or better

Model 30-MTK

30 meter add on kit for the 4 and 5 BTV

Spirit Series - Repeater Antenna

Hustler's omnidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions. Great for your club or tower use. We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3,6,9, or 12 dB depending on the frequency. Custom frequencies available, call for a quote.



New-Tronics Antenna Corporation
225 Van Story Road
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386
Toll Free: 877.994.9499
Fax: 940.325.5077

www.new-tronics.com

CUSHCRAFT AMATEUR RADIO ANTENNAS

HF or VHF/UHF... the right antennas for every Ham since 1950



DIPOLE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	LENGTH (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)
SINGLE BAND							
D-40	40M	UNITY	42.25	1500	1.5-2	1.3	12
MULTIBAND							
D-4	40/20/15/10M	UNITY	35.8	1500	1.5-2	1.3	13
D-3	20/15/10M	UNITY	25.8	1500	1.5-2	0.9	9
D-3W	30/17/12M	UNITY	34	1500	1.5-2	0.9	11

For more information you can download the Instruction Manuals from: www.CushcraftAmateur.com

VERTICAL ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	GAIN (dBi)	HEIGHT (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)
SINGLE BAND							
MA-160V	160M	0	30-36	1500	1.5	>1	12
AR-10	10M	3	17.6	1000	1-1.25	1.68	4
AR-6	6M	3	10.1	1000	1-1.25	0.37	2.5
ARX-2B	135-160	7	14	1000	1-1.25	0.5	6
ARX-2	135-160	5	9.3	1000	1-1.25	0.4	4
AR-2	135-160	3	3.9	1000	1-1.25	0.21	1.5
ARX-220B	222-225	7	9.3	500	1-1.25	0.3	5
ARX-450B	435-450	7	4.9	500	0.75-0.88	0.2	1
AR-450	440-460	3	1.4	500	0.75-0.88	0.1	1
MULTIBAND							
MA-8040V	80/40M	0/2	23-27	1500	1.5	>1	9
R-8	40/30/20/17/15/12/10/6M	3	28.5	1500	2	2.5	23
R-6000	20/17/15/12/10/6M	3	19	1500	1.5-1.75	1.5	12.5
MA-6VA	20/17/15/12/10/6M	1-2	14.7	250	1.25-2	0.82	6.9
MA-5VA	20/17/15/12/10M	1-2	14.7	250	1.25-2	0.82	6.5
AR-270B	2M/430-450	5.5/7.5	7.7	250	1.25-2	0.47	2.4
AR-270	2M/430-450	3/5.5	3.75	250	1.25-2	0.27	2

High Performance in all applications / Made in the U.S.A.

BEAM ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ)	ELEMENTS	GAIN (dBi)	F/B RATIO (dB)	BOOM (FT)	LONGEST ELE (FT)	WATTS (PEP)	MAST (IN.)	WIND AREA (SQ FT)	WEIGHT (LBS)
SINGLE BAND										
XM-240	40M	2	6	20-25	22	43	1500	2.5	5.5	55
TEN-3	10M	3	8	25	8	18	2000	1.5-2	2	10
A50-6S	6M	6	11.6	26	20	9.9	1000	1.5-2	4.46	18
A50-5S	6M	5	10.5	24	12	10.25	1000	1.5-2	2.9	11
A50-3S	6M	3	8	20	6	9.75	1000	1.5-2	1.8	7
26B2	2M	26	18.8	26	15	3.3	1500	1.5-2	4.84	21.5
17B2	144-145	17	18	26	31	3.4	1500	1.5-2	3.9	15.75
13B2	2M	13	15.8	26	15	3.3	1500	1.5-2	1.8	6.7
A148-20T	2M	10H/10V	13	24	11	3.4	1000	1.25-2	0.39	7
A148-10S	2M	10	13.2	24	12	3.4	1000	1.25-2	1.21	6
124WB	2M	4	10.2	19	4	3.3	1500	1.25-2	0.34	3
A148-3S	2M	3	7.8	18	2.8	3.4	1000	1.25-2	0.27	1.5
224WB	222-225	4	10.2	20	3	2.2	1500	1.25-2	0.23	1.7
719B	430-450	19	15.5	25	13.5	13.75	2000	1.25-2	1.2	5.6
A430-11S	430-440	11	13.2	20	4.6	1.16	350	1.25-1.5	0.42	4
A449-11S	440-450	11	13.2	20	4.4	1.08	350	1.25-1.5	0.39	4
A449-6S	440-450	6	10.5	18	2.9	1.08	350	1.25-2	0.3	3
MULTIBAND										
ASL-2010	20/17/15/12/10M	8	6.4	15-20	18	38	1500	1.5-2	10.1	55
MA-5B	20/17/15/12/10M	2/1/2/1/2	3.6/1/4.8/1/5.5	22/0/12/0/10	7.3	17.1	1200	1.5	3.2	27
X-7	20/15/10M	7	12.5	30	18	37	2000	2.5	7.9	60
A-4S	20/15/10M	4	8.9	25	18	32	2000	1.25-2	5.5	37
A-3S	20/15/10M	3	8	25	14	27.75	2000	1.25-2	4.4	27
A3-WS	17/12M	3	8	25	14	25	2000	1.25-2	4.1	23
A6270-13S	6M/2M/430-450	3/5/5	8/10/10	20/20/18	7.3	9.75	1000/350/350	1.25-2	2.52	9.5
A270-10S	2M/440-450	5/5	10/10	20/18	6.2	3.4	350	1.25-2	0.73	1.8
A270-6S	2M/430-450	3/3	7.8/7.8	20/8	2.8	3.4	350	1.25-2	0.3	1.7

HF MOBILE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ OR METERS)	BANDWIDTH @ 2:1 SWR	HEIGHT (INCHES)	WATTS (PEP SSB)	MOUNT	WEIGHT (OZS)
COMET - SEE PAGE 59 FOR MORE INFO						
UHV-6	80 ⁽¹⁾ /20 ⁽¹⁾ /17 ⁽¹⁾ & 40/15/10/6/2M/70CM	-	44 (min) / 78 (max)	120(HF)/100	PL-259	14-19
DIAMOND - SEE PAGE 65 FOR MORE INFO						
SD-330	80-10M, 6M (with different element)	-	73 (80M) – 50 (6M)	200	PL-259	38
SD-330-3/8	80-10M, 6M (with different element)	-	73 (80M) – 50 (6M)	200	3/8" X 24	38
HUSTLER - RESONATORS ONLY - SEE PAGE 71 FOR MORE INFO						
RM-80 ⁽²⁾	80M	25-30 KHz	60 + MAST ⁽²⁾	400	3/8" X 24	16.8
RM-80S ⁽²⁾	80M	50-60 KHz	62 + MAST ⁽²⁾	1000	3/8" X 24	33.6
RM-75 ⁽²⁾	75M	25-30 KHz	52 + MAST ⁽²⁾	400	3/8" X 24	16.8
RM-75S ⁽²⁾	75M	50-60 KHz	54 + MAST ⁽²⁾	1000	3/8" X 24	33.6
RM-60 ⁽²⁾	60M	40-50 KHz	58 + MAST ⁽²⁾	400	3/8" X 24	13.44
RM-40 ⁽²⁾	40M	40-50 KHz	49 + MAST ⁽²⁾	400	3/8" X 24	13.44
RM-40S ⁽²⁾	40M	50-80 KHz	49 + MAST ⁽²⁾	1000	3/8" X 24	28.8
RM-30 ⁽²⁾	30M	50-60 KHz	31 + MAST ⁽²⁾	400	3/8" X 24	13.44
RM-20 ⁽²⁾	20M	80-100 KHz	31 + MAST ⁽²⁾	400	3/8" X 24	7.36
RM-20S ⁽²⁾	20M	100-150 KHz	31 + MAST ⁽²⁾	1000	3/8" X 24	20
RM-17 ⁽²⁾	17M	120-150 KHz	34 + MAST ⁽²⁾	400	3/8" X 24	7.04
RM-15 ⁽²⁾	15M	100-150 KHz	33 + MAST ⁽²⁾	400	3/8" X 24	6.72
RM-15S ⁽²⁾	15M	150-200 KHz	29 + MAST ⁽²⁾	1000	3/8" X 24	19.2
RM-12 ⁽²⁾	12M	90-120 KHz	30 + MAST ⁽²⁾	400	3/8" X 24	6.56
RM-11 ⁽²⁾	11M (CB)	150-250 KHz	24 + MAST ⁽²⁾	400	3/8" X 24	6.56
RM-11S ⁽²⁾	11M (CB)	250-400 KHz	30 + MAST ⁽²⁾	1000	3/8" X 24	16
RM-10 ⁽²⁾	10M	150-250 KHz	23 + MAST ⁽²⁾	400	3/8" X 24	6.56
RM-10S ⁽²⁾	10M	250-400 KHz	25 + MAST ⁽²⁾	1000	3/8" X 24	16
ICOM - SEE PAGE 88 FOR MORE INFO						
AH-2B ⁽³⁾	40-6M (REQUIRES ICOM AH-4) ⁽³⁾	-	98.4	120	INCLUDED	~160
JETSTREAM - SEE PAGE 80 FOR MORE INFO						
JTM-HF160	160M	12 KHz	96	300	3/8" X 24	36
JTM-HF75	75M	35 KHz	96	300	3/8" X 24	12
JTM-HF40	40M	60 KHz	96	300	3/8" X 24	11
JTM-HF20	20M	150 KHz	96	300	3/8" X 24	11
JTM-HF17	17M	175 KHz	96	300	3/8" X 24	11
JTM-HF15	15M	200 KHz	96	300	3/8" X 24	11
JTM-HF12	12M	300 KHz	96	300	3/8" X 24	11
JTM-HF10	10M	500 KHz	96	300	3/8" X 24	11
LARSEN - SEE PAGE 69 FOR MORE INFO						
NMO-27C	10/11M (CB)	-	53	150	NMO	8
NMO-27B	10/11M (CB)	-	53	150	NMO	8
MALDOL - SEE PAGE 59 FOR MORE INFO						
HMC-6S	⁽⁴⁾ 40/20/15/10/6/2M/70CM	-	66	120	PL-259	28
MFJ - SEE PAGE 80 FOR MORE INFO						
1664	80-6M	-	2' + 4.5' or 10' WHIP	200	3/8" X 24	44.8
1661	40-6M	-	1' + 4.5' or 10' WHIP	200	3/8" X 24	32.8
1624	40-6M	-	66	300	3/8" X 24	31.2
1899T ⁽⁵⁾	80-6M	-	12-65 (telescopic)	25	BNC	7.2
OUTBACKER - SEE PAGE 81 FOR MORE INFO						
STEALTHPLUS	75/40/30/20/17/15/12/10/6/2M	-	36	100	3/8" X 24	23.2
PERTHPLUS	75/40/30/20/17/15/12/10/6/2M	-	72	150	3/8" X 24	24
OB8TRI	75/40/30/20/17/15/12/10M	-	67 (3 X 22.3")	300	3/8" X 24	31.2
OB8HP	75/40/30/20/17/15/12/10M	-	67	500	3/8" X 24	34.4
JOEY ⁽⁵⁾	80/75/40/30/20/17/15/12/10/6/2M	-	30-50 (telescopic)	20	PL-259	16
TARHEEL - SEE PAGE 80 FOR MORE INFO						
LIL TARHEEL II	80-6M	-	16 Base, 32 Whip	200	3/8" X 24	30.4
100AHP PACK	80-10M	-	36 Base, 72 Whip	1500	INCLUDED	128
YAESU - SEE PAGE 80 FOR MORE INFO						
YA-007FG ⁽³⁾	80-10M (REQUIRES YAESU FC-40) ⁽³⁾	-	80	100	INCLUDED	~90
ATAS-120	40/20/15/10/6/2M/70CM	-	63	120	PL-259	31.68
ATAS-25 ⁽⁶⁾	40/20/15/10/6/2M/70CM	-	84.6 MAX	100(HF) / 50	SO-239 ⁽⁶⁾	32.8

(1) Requires optional coils to operate on those bands: L-3.5 for 80/75M, L-14 for 20M, L-18 for 17M

(2) Requires a mast sold separately to complete an antenna: MO-1 is 54" length folds over at 15" above base / MO-2 is 54" and folds over at 27"

MO-3 is 54" but does not fold over / MO-4 is 22" and has three retuning tip rods included / All masts use 3/8" X 24 thread

(3) Optional tuner or equivalent is required

(4) Requires optional HMC-7C coil to operate on the 40M band

(5) Designed specifically for the Yaesu FT-817 and other QRP portable radios – antenna is meant for portable/field use

(6) Recommended mount for portable use is a camera-type tripod that is not supplied – antenna is meant for portable/field use

Effective Atmospheric Surge Voltage Protection

High voltage static charges can be induced on your feedline from local thunderstorms, high winds, rain and snow. Protect your connected equipment from serious damage by using ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which all incorporate special **Arc-Plugs®** that "bleed off" rising static electricity charges from the feed line, routing them harmlessly to ground. Effective as these devices are, it is important to use accepted station grounding techniques as outlined in the ARRL Handbook and other publications.

Lightning Surge/EMI Protectors

The Defense Logistics Agency (DLA) has assigned a National Stock Number (NSN) to the TT3G50 Coax Surge Protector and 3G50 ARC-PLUG™ Cartridge for use in all Military and NATO applications Worldwide.



Outstanding protection for your equipment from the effects of lightning and static charges. Much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ – two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you need to run control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weatherproof by the use of O-ring seals and all hardware is stainless steel.

Wide Frequency Range: DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

Low Insertion Loss: 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

ATT-3G50

0-3GHz; 200W; N Female.

ATT-3G50-HP

0-3GHz; 2000W; N Female.

ATT-3G50B

0-3GHz; 200W; N-F; bulkhd w/mtg. hdwr.

ATT-3G50U

0-500 MHz; 200W; UHF (SO-239).

ATT-3G50U-HP

0-500 MHz; 2000W; UHF (SO-239).

Replacement Arc-Plug Cartridges

ATT/3G50 for ATT3G50 or ATT3G50U.

ATT-HP/3G50HP for

ATT3G50-HP and ATT3G50U-HP.



UCGC Universal Copper Ground Rod Clamp – Mounts directly on a standard 5/8" copper ground rod and provides mounting of up to (4) ATT-3G50 surge protectors. Fabricated from solid copper, includes stainless steel mounting hardware with 6 bolts, washers and nuts. Adjustable copper ground wire clamp accepts your station's single point ground wire up to 4 gauge.

Surge Protected Coaxial Switches



DELTA-2B



DELTA-4B/N (INTERNAL)

- High quality custom design featuring a rugged cast aluminum housing and durable powder coat finish.
- Constant impedance micro-strip cavities provide very low-loss and high isolation through UHF.
- Precision machined switch mechanism with solid detent that snaps positively into each position.
- An easily replaceable Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection.
- Unused antennas are grounded for protection reduced interaction.
- Rated for Full Legal power.

DELTA-2B – 2-position, with SO-239 connectors and rated for operation up to 500 MHz.

DELTA-2B/N – 2-position, with N-type connectors, rated for operation up to 1.3 GHz.

DELTA-4B – 4-position, with SO-239 connectors, rated for operation up to 500 MHz.

DELTA-4B/N – 4-position, with N-type connectors, rated for operation up to 1.3 GHz.



Desktop Antenna Switch

Same as the DELTA-4B (above), in a non-skid desktop design that will sit on your desk and function without having to be secured or bolted down. The console features a powder coated steel housing and a solid brass ground bus, with #10 wire attachment hardware across the rear of the housing providing a common ground point for all station equipment and accessories. Four positions, includes Arc-Plug™ module surge protection.

ASC-4B – SO-239, up to 500 MHz.

ASC-4B/N – N-Type, up to 1.3 GHz.

D4 – Replacement Arc-Plug for switches.

Surge Protected Antenna Insulator Kit



DELTA-C – A center insulator and two end insulators for dipoles and wire antennas using coaxial or balanced feed line. Virtually unbreakable UV/RF resistant material with stainless steel hardware, all connections are hard soldered. Handles full legal power. Built-in Arc-Plug® protection

SEP – Replacement Arc-Plug®.

DELTA-CIN – End insulator only.

Limited Space Sloper Antennas



- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. Go to Alpha Delta's website for sloper installation.

DX-A – A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an inverted V. Legs are 67 ft. and 55 ft. long.

DX-B – A single wire high performance 1/4-wave DX Sloper for 160, 80, 40 and 30 meters. Installs like 1/2 of an inverted V. The limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above the ground.

Shortened Multi-band Antennas



- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated for Full Power.
- Direct 50 ohm feed, no antenna tuner is required except for extended frequency coverage.
- Fully assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Includes the DELTA-C static protected center insulator and DELTA-CIN end insulators.
- Installs horizontally OR as an inverted V.

DX-CC – 80-40-20-15-10M, 82 ft. long.

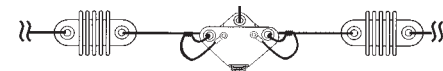
DX-DD – 80-40M, 82 ft. long.

DX-EE – 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long.

DX-LB – 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Capable of full band coverage when using an antenna tuner, 100 ft.

DX-LB PLUS – Same as DX-LB above, but adds 20-10M with parallel wires, 100 ft.

Full-Size Monoband Antennas



- 50 ohm coax feed, no traps, handles full power.
- Installs horizontally or as an Inverted V.
- Rugged, full-size performance.
- Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

DX-80 – 75/80 meters, 134 ft. long.

DX-40 – 40 meters, 67 ft. long.

DX-20 – 20 meters, 34 ft. long.

Verticals

AV-18HT Hy-Tower 10/15/20/40/80M Vertical – The premier, best performing vertical in the world. Constructed with rugged hot-dipped galvanized steel tower sections. Features automatic band selection using a unique stub decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple) exists on all bands. Includes all stainless steel hardware & tilt-over base. Use a good ground or 1/4-wavelength radials for best performance. **Drop Ship - Truck Collect for Freight**

Specifications

- **Bands:** 10, 15, 20, 40 and 80 Meters
- **Gain:** Unity 20/40/80M; 2 dB on 10/15M
- **80M Bandwidth:** 250 kHz @ 2:1 VSWR
- **Power:** 1500W PEP
- **Height:** 53 feet
- **Weight:** 114 pounds
- **Wind Survival:** 75 MPH

AV-18HT-JR Hy-Tower Jr. – Automatic band selection with a unique stub decoupling system which isolates various sections so that a full-size electrical 1/4 wavelength exists on 40, 20, 15 and 10 meters with cage loading on 80 meters. Requires a good ground system or 1/4-wavelength radials for best performance. It has almost no losses - your ground system determines efficiency. It is automatic bandswitching, fed with 50 ohm coax and has low SWR over an exceptional wide bandwidth with a VSWR <1.2:1 at resonance. High-strength, heavy walled 2 in. aluminum main radiator swaged at the top. Mounts on 1-1/4 in. pipe.

Specifications:

- **Bands:** 10, 15, 20, 40 and 80 Meters
- **Power:** 1500W PEP
- **Height:** 39 ft.
- **Weight:** 25 pounds
- **Survival:** Self-supporting up to 40 mph
- **Mast Size:** 1-1/4 in.

AV-14AVQ 10/15/20/40M Vertical – A self supporting automatic bandswitching vertical that delivers outstanding performance and a very low angle radiation pattern. All stainless steel hardware.

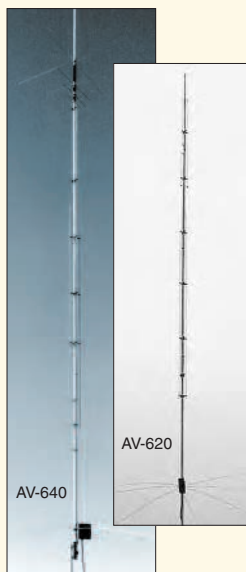
Specifications:

- **Bands:** 10, 15, 20 and 40 Meters
- **Power:** 1500W PEP
- **Height:** 18 ft.
- **Weight:** 9 pounds
- **Wind Survival:** 80 MPH
- **Mount:** 1.5 in - 1.625 in. pipe

AV-18AVQ II 10/15/20/40/80M Vertical Similar to AV-14AVQ except includes 80M operation. Height: 18 ft., 12 lbs.

DX-88 10/12/15/17/20/30/40/80M Vertical All bands easily tuned with adjustable capacitors. Height: 25 ft., 18 lbs.

hy-gain



Multi-Band PATRIOT Vertical Antennas

- No Radials
- No Traps
- No Ground
- No Tuning
- Handles 1500W

AV-640 6 to 40 Meter Vertical – Automatic bandswitching with a single coax feed. Uses 1/4-wave stubs on 6, 10, 12 and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30 and 40 meters. Instead of typical lossy can traps, the AV-640 resonators are placed in parallel not in series and end loading of the lower HF bands allows efficient operation with a manageable antenna height. An effective counter poise system replaces conventional ground radials. Mounts easily on decks and roofs.

Specifications:

- **Bands:** 6, 10, 15, 17, 20, 30 and 40 Meters
- **VSWR at resonance (typical):** 1.5:1
- **Power:** 1500W, 2 minutes key down
- **Vertical Radiation Angle:** 17 degrees
- **Horizontal Radiation Angle:** 360 degrees
- **Height:** 25.5 ft.
- **Weight:** 10.5 pounds
- **Wind surface area:** 2.5 square feet
- **Wind Survival:** 80 mph

AV-620 6 to 20 Meter Vertical - No traps, no coils, and uses an effective counterpoise that replaces traditional radials. End fed design using a broadband matching unit with automatic bandswitching and single coax cable feed. Wide VSWR bandwidth, bands are individually tunable.

Specifications:

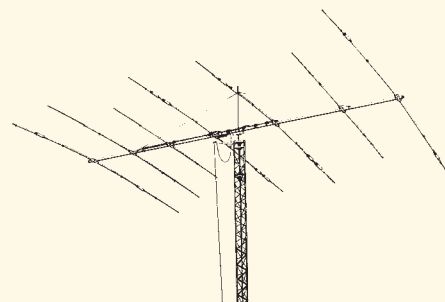
- **Bands:** 6, 10, 15, 17 and 20 Meters
- **VSWR at resonance (typical):** 1.5:1
- **Power:** 1500W, 2 minutes key down
- **Vertical Radiation Angle:** 17 degrees
- **Height:** 22.5 ft.
- **Weight:** 10.5 pounds
- **Wind surface area:** 2.4 sq. ft.
- **Wind Survival:** 80 MPH

Single Band HF Beams

- Stronger, lighter, less surface area & years of High Performance
- Exclusive 50 ohm *BetaMatch™* for Direct Coax feed with great match and DC grounding • The BN-86 50Ω Ferrite core 1:1 Balun is recommended for improved front-to-back ratio.

- LJ-103BA** 10 Meters, 3 Elements, 8 ft. Boom, 7.9dBi Gain.
- LJ-105CA** 10 Meters, 5 Elements, 24 ft. Boom, 10.8dBi Gain.
- LJ-153BA** 15 or 12 Meters, 3 Elements, 12 ft. Boom, 7.9dBi Gain.
- LJ-204BA** 20 or 17 Meters, 4 Elements, 26 ft. Boom, 8.2dBi Gain.

Triband Beams



TH-7DX 7-Element Tri-Band Beam, 10/15/20 Meters – A dual driven 7-element system maintains a VSWR of <2:1 across all bands, including 10 Meters. No compromise on gain performance. A unique combination of trapped and mono band parasitic elements produces a huge front-to-back ratio. Includes a rugged diecast aluminum boom-to-mast clamp, heavy gauge element-to-boom brackets and a BN-86 ferrite balun.

Specifications:

- **Gain:** 8.77dBi • **F/B:** 21dB • **Power:** 1500W PEP
- **Boom Length:** 24 ft. • **Longest Element:** 31 ft.
- **Turning Radius:** 20 ft. • **Mast Diameter:** 1.5-2.5 in.
- **Surface Area:** 9.4 sq. ft. • **Wind Survival:** 100 mph
- **Wind Load @ 80 mph:** 240 lbs • **Weight:** 75 lbs

TH-5MK2 5-Element Tri-band Beam, 10/15/20 Meters – Broadbanded with outstanding gain. It features five elements on a 19 ft. boom with four active elements on 10, 15 and 20 meters. Separate dielectric H-Q traps on each band provides a maximum front-back ratio. Beta Match tuning, DC grounded. Stainless steel hardware. Includes BN-86 balun.

Specifications:

- **Gain:** 8.3dBi • **F/B Ratio:** 20dB • **Power:** 1500W PEP
- **Boom Length:** 19 ft. • **Longest Element:** 31.5 ft.
- **Turning Radius:** 18.42 ft. • **Mast Dia.:** 1.5 - 2.5 in.
- **Surface Area:** 7.4 sq. ft. • **Wind Survival:** 100 mph
- **Wind Load @ 80 mph:** 190 lbs • **Weight:** 57 lbs

TH-3MK4 3-Element Tri-band Beam, 10/15/20 Meters – The most gain for the money in a full-power, full-size durable tri-bander. Impressive gain and front-to-back ratio. Fits on an average lot and the 4-piece boom makes it ideal for DXpeditions. DC grounded, full power Hy-Q traps and rugged boom to mast bracket. Mounts on a standard 2 in. mast. BN-86 balun recommended.

Specifications:

- **Gain:** 8.0dBi • **F/B Ratio:** 25dB • **Power:** 1500W PEP
- **Boom:** 14 ft. • **Longest Element:** 27.42 ft.
- **Turning Radius:** 15.33 ft. • **Mast Diameter:** 1.9-2.5 in.
- **Wind Area:** 4.6 sq. ft. • **Wind Survival:** 95 mph
- **Wind Load @ 80 mph:** 118 lbs • **Weight:** 35 lbs

TH-3JRS 3 Element Tri-Band Beam, 10/15/20 Meters – The most popular, fits on most lots. Same top performance as the full power TH-3MK4 in a compact 600W PEP design.

Specifications:

- **Gain:** 8.0dBi • **F/B Ratio:** 25dB • **Power:** 600W PEP
- **Boom Length:** 14.75 ft. • **Longest Element:** 27.25 ft.
- **Turning Radius:** 14.3 ft. • **Mast Dia:** 1.25-2.0 in.
- **Wind Area:** 3.35 sq. ft. • **Wind Survival:** 80 mph
- **Wind Load @ 80 mph:** 83 lbs • **Weight:** 21 lbs

BN-86 Broadband 50Ω Ferrite Balun – Usable from 3 to 30 MHz. Recommended for all HF yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom. Protected SO-239 connector.



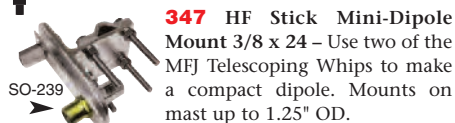
MFJ



APARTMENT ANTENNAS WHIPS

1622 Apartment Antenna – Operate 40M thru 10M, 6M and 2M, up to 300W PEP. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft. counterpoise wire and safety rope.

1954 Telescoping Whips – 10 ft. (29 inches collapsed). Made of 1/2 in. diameter plated brass with a 3/8 x 24 threaded stud. Use as an antenna by itself for 10/12/15M or use it on top of a screwdriver or other base/mid-loaded antenna to greatly improve the efficiency. Use two whips with an MFJ 347 adapter to make a portable dipole.



347 HF Stick Mini-Dipole Mount 3/8 x 24 – Use two of the MFJ Telescoping Whips to make a compact dipole. Mounts on mast up to 1.25" OD.

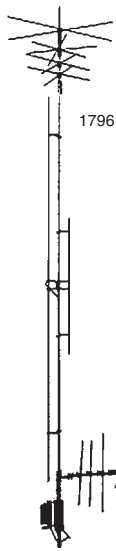
ROLL-UP ANTENNAS



1730 2-Meter Pocket Roll-up Antenna – Just hang up this 1/2-wave J-antenna in the clear, and plug BNC connector into your handheld. Its omni-directional and has significant gain over a duck or 1/4 wave. Dim: 75" long.

1736 6 Meter Roll-Up J-Pole Antenna – Similar to the 1730 above. 1/2-wave long, resonant around 52.5 MHz, VSWR < 2:1. PL-259 connector.

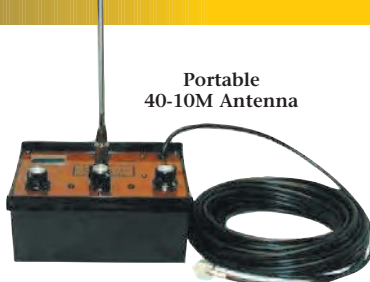
VERTICAL ANTENNAS



1796 1/2-wave 6-Band No-radials 12 ft. tall Vertical, Covers 40, 20, 15, 10, 6 and 2M – Only 12 feet high with a tiny, 24 inch foot print. Mount it anywhere: ground level to tower top, apartments, small lots, trailers. Perfect for vacations, field day, DXpeditions and camping. Uses efficient end loading with no lossy traps. And the entire length is always radiating. Automatic bandswitching, low angle radiation, omni-directional pattern, handles 1500W PEP.

1798 10-Band No-radials 20 ft. tall Vertical, Covers 75/80, 40, 30, 20, 17, 15, 12, 10, 6 and 2M – The bigger brother of the MFJ 1796. Full size performance is achieved using separate full size radiators for 2-20M and high efficient end loading for 30, 40 and 75/80M. You don't need a ground or radials because an effective counterpoise that is 12 feet across gives you excellent ground isolation.

Portable 40-10M Antenna



1621 – A complete portable 40, 30, 20, 15, 12 and 10M antenna for use in practically any location: an unobstructed apartment, campsite, hotel, even at the beach. Consists of a 54 inch telescoping whip antenna mounted on a sturdy cabinet which houses an antenna tuner and field strength meter. Just place the unit in an unobstructed location, set the bandswitch, apply power, and tune for maximum field strength. Handles 200W PEP SSB and includes 50 ft. of RG-58 coax. The whip is easily removable and collapses to 22 inches for convenient transport. Dim: 6" w x 3" h x 6" d; 3 lbs.



Poly-STEALTH

ANTENNA WIRE

Davis RF CopperWeld™ wire is the real thing, not a poorly plated imitation. Select **CW** for Copperweld then 14 or 16 AWG and 100 or 250ft.

Poly-STEALTH™ High Strength Aerial Wires are manufactured with high strength, high conductivity Bare Copper-Clad Steel (BCCS) and insulated with a high quality UV Resistant Polyethylene to provide you with one of the strongest and longest lasting antenna wires on the market today. Select **PS** for Poly-Stealth then 13, 18 or 26 AWG and 100 or 250ft.

CW-14-100 100ft
CW-14-250 250ft
CW-16-100 100ft
CW-16-250 250ft
PS-13-100 100ft

PS-13-250 250ft
PS-18-100 100ft
PS-18-250 250ft
PS-26-100 100ft
PS-26-250 250ft

ISOTRON BILAL COMPANY

www.isotronantennas.com



80/40
COMBO

ISOTRON
40

ISOTRON
80

Simple & Effective... ANTENNAS FOR VERY LIMITED SPACE

- Quick, easy and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels and Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very discreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.



ISOTRON 160C

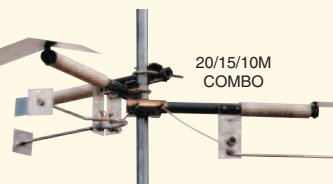
Common Specifications: 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50-75Ω coax feed

- Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Polypropylene and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

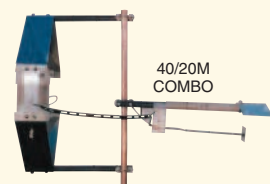
Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
HxWxD (in.)	114x16x15	32x16x15	22x16x15	21x8x4	21x1.5x4	16x1.5x4	16.5x2x4
Bandwidth	100 kHz	110 kHz	250 kHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs.	2 lbs.	2.0 lbs.	1.5 lbs.	1.5 lbs.



ISOTRON 20



20/15/10
COMBO



40/20M
COMBO

80/40 COMBO – (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32" h x 16" w x 30" d; 10 lbs.

20/15/10 COMBO – Same as individual model specifications. Operate 20/15/10M using one feed line. Dim: 32" w x 4" h x 30" d; 10 lbs.

8040201510CO – The 80/40 Combo & 20/15/10 Combo, needs separate feedlines.

40/20 COMBO – Offered because the 40 and 20 meter bands were found to be extremely useful for the amateur radio support during various weather disasters. Improved with a new enhanced coil design that makes tuning easier and more tolerant to higher power. Dim: 16" w x 22" h x 32" d; 6 lbs.

SPECIAL ORDER! – You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.



G5RV



TUNED DIPOLE & OFC WINDOM



BAZOOKA



END FED



B-11A,
14VA,
19TX



DPH



HIGH POWER



G5RV

Originally developed in 1946 by Louis Varney, G5RV. The basic G5RV measures only 102 ft. across the top dipole section for 80 thru 10 meter operation. Its center-fed through a 28 ft. low-loss 300Ω twinlead stub which terminates into an SO-239 connector for attaching any convenient length of 50Ω coaxial cable. An easy match on all bands using the antenna tuner built-in most of the current model radios, or a low-cost external tuner. Outstanding 20 meter performance.

G5RV Variations:

G5RV 80-10 meters, 102 ft., 28 ft. stub.

G5RV JR 40-6 meters, 51 ft., 14 ft. stub.

G5RV LITE 80-10 meters, 67 ft., 28 ft. stub, 200W limit on CW

G5RV MAX 160-10 meters, 204 ft., 56 ft.

TUNED DIPOLES

Simple, efficient 1/2 wavelength single-band performers. The radiating section is constructed with strong #14 AWG UV-resistant insulated stranded copper wire. Includes a RadioWavz 1:1 balun which improves the pattern and reduces feedline radiation. Terminates in an SO-239 to connect any convenient length of 50Ω coaxial cable. Install as a flat-top or inverted-V. Assembled, ready to install.

10MC/BALUN 10 meters, 17 ft. long.

12MC/BALUN 12 meters, 19 ft. long.

15MC/BALUN 15 meters, 22 ft. long.

17MC/BALUN 17 meters, 26 ft. long.

20MC/BALUN 20 meters, 32 ft. long.

30MC/BALUN 30 meters, 46 ft. long.

40MC/BALUN 40 meters, 66 ft. long.

80MC/BALUN 80 meters, 130 ft. long

160MC/BALUN 160 meters, 250 ft. lg.

DOUBLE BAZOOKA

A broadband 1/2-wavelength antenna that functions at 98% efficiency with a nominal VSWR of less than 2:1 over the entire band. The radiating section is constructed from 1/4" diameter coaxial cable that has the outer shield opened at the center to create the feed point. The copper center conductor is not cut and does not radiate, but acts as 1/4-wave shorted stub presenting a high impedance to the feed cancelling reactance as frequency changes resulting in increased usable bandwidth. The bazooka design does not radiate harmonics and produces very little feedline radiation. Its inherently balanced design also eliminates the need for a balun and feeds directly with any convenient length of 50Ω coaxial cable. The coax outer jacket is intact and sealed so there is no exposed wire. During rain or windy conditions, static charges which can produce annoying receiver noises and the potential for receiver front-end damage cannot build up. Handles 1500W/SSB & 200/CW. Install horizontally or as an inverted V. Assembled, ready to install.

40M-DBZ 40 meters, 70 ft. length.

75M-DBZ 75 meters, 127 ft. length.

160M-DBZ 160 meters, 265 ft. len.

END FED 1/2-WAVE

Single band, a full 1/2-wavelength long with a matching network at the end for 50Ω coaxial cable. The pattern is the same as a dipole and it can be installed horizontally, vertically or as a sloper. Does not require a ground plane or counterpoise. Works great for portable and stealth operations.

EFH10 10 meters, 17 ft. length.

EFH20 20 meters, 33 ft. length.

EFH40 40 meters, 66 ft. length.

EFH80 80 meters, 132 ft. length.

DX OFF-CENTER-FED WINDOM

A favorite of DX'ers world-wide due to its terrific multi-band performance when used with an antenna tuner. Basically a dipole fed off-center with a RadioWavz 4:1 balun positioned at an optimum off-center point to provide the best multi-band match. An SO-239 connector provides for attaching convenient length 50Ω coaxial cable. The radiation from the vertical feeder portion combines with horizontal radiation produced by the top section to form a low-angle, omni-directional pattern. The antenna should be installed as high as possible and the feedline should drop vertically from the horizontal as far as is practical. Made with durable, #14 black, UV resistant insulated stranded wire. Rated 1500W/SSB, 200W/CW. Install horizontally, as a sloper, or inverted-V.

DX160 160, 80, 40 meters; 246 ft. length.

DX80 80, 40, 20, 10 meters; 136 ft. len.

DX40 40, 20, 10 meters; 67 ft. length.

SHORT DX OCFD WINDOM

Same functionality as the full sized versions but takes up almost half the space.

DX160SH 160, 80, 40M; 147 ft. length.

DX80SH 80, 40, 20, 10M; 70 ft. length.

DX40SH 40, 20, 10M; 37 ft. length.

FOLDED TERMINATED DIPOLE

An excellent broadband antenna for Amateur, MARS, ARES, RACES & CAP operation. Low VSWR within its range with omni-directional characteristics and performance equivalent to a dipole but with better noise immunity. Rated at 500W/SSB, 200W/CW. Feeds directly with any length of 50Ω coaxial cable. Mounts horizontally between two supports, or as an inverted-V using a single central support mast. Assembled, ready to install.

FTD-20 7-30 MHz, 20 ft. length.

FTD-45 3-30 MHz, 45 ft. length.

FTD-65 3-30 MHz, 65 ft. length.

FTD-90 1.8-30 MHz, 90 ft. length.

FTD-MK Three pole mounting kit.

END FED TERMINATED WIRE

EFT-110 – An excellent series end-fed broadband antenna often used by the Military for 1.7 to 30 MHz continuous coverage. It has excellent EMI rejection and is extra quiet to capture weak signals. Feeds directly with any length of 50Ω coaxial cable. Length is 110 ft. and installs horizontally between two supports as a terminated sloper, or as an inverted-V using a single central support mast. Rated at 500W/SSB, 200W/CW.

BALUNS & ISOLATORS

B-11A 1:1 Balun – Voltage-type for 50Ω unbalanced to 50Ω balanced applications, 1.8-54 MHz. Open air-core, trifilar wound, will not saturate. 1500W/SSB, 200W/CW. SO-239 connector and eyehook support. Dim: 6.5" x 1.75" dia.

B-14VA 4:1 Balun – Ruthroff voltage-type for 200Ω balanced to 50Ω unbalanced or 300Ω balanced to 75Ω unbalanced, 1.8 to 30 MHz. Single-layer wound open air core will not saturate. 1500W/SSB, 200W/CW. SO-239 connector and eyehook support. Dim 6.5" x 1.75" diameter.

B-19TX 9:1 Isolation Balun – Current-type for matching a 450Ω load to a 50Ω load, or 675Ω load to a 75Ω load, 1.8-30 MHz. Also acts as RF isolator reduce or eliminate stray RF from coax while providing galvanic isolation. Typical uses are for Rhombic, Delta loop, V's, FTD dipole. 1500W/SSB. 250W CW. Dim: 6.5" x 1.75" diameter.

DPH Dipole Head – For support only, no balun. SO-239 connector, 6 in. leads and hole for support rope. Rated 1500W PEP. Dim: 2.5" w x 4.5" l.

B-11ISO 1:1 In-line RF Isolation Choke (UNUN) Also known as a common-mode choke. Installs in-line between antenna and rig. Reduces or eliminates RF from the coax shield resulting in improved station performance and less potential for RF induced problems in the shack and surrounding area. Effective 1.8 to 50 MHz, 1500W/SSB, 200W/CW. SO-239 connectors. Dim: 6.75" l x 1.75" dia.

High Power Models – For applications where a higher power rating and a more rugged balun or choke is required. Uses large cores wound with heavy wire. Installed in a rugged case and potted in an epoxy compound. Rated 3.5 KW. Dim: 2.3" h x 4.3" square.

HP-B11C 1:1 HF choke balun.

HP-B11D 1:1 HF dipole balun.

HP-B14C 4:1 HF current balun.

HP-B14VT 4:1 Tuner extender balun.

HP-B19LW 9:1 Long wire balun.

HP-ISOX RF isolation transformer.



Ready-Made COAXIAL ASSEMBLIES

High-quality RG-8X-type 50Ω coaxial cable with Silver/Teflon® PL-259 connectors installed and reinforced with a weatherproof strain-relief sleeve.

- Solid copper center conductor (0.150")
- 100% foil shield + 90% braid • 84% Velocity Factor
- Non-contaminating, UV stabilized jacket (0.240")
- Handles 500W/SSB & CW
- Performance sweep tested to 3GHz.
- Loss per 100 ft: 1.7dB @ 50 MHz, 2.45dB @ 100 MHz, 4.98 dB @ 400MHz.

J8X-U1 1.5 ft.

J8X-U3 3 ft.

J8X-U6 6 ft.

J8X-U12 12 ft.

J8X-U25 25 ft.

J8X-U50 50 ft.

J8X-U75 75 ft.

J8X-U1X 100 ft.



UNADILLA

for Over 50 Years ...
legendary antennas built to last!

W2AU/W2VS™ 5-BAND ANTENNA KIT

This antenna is based on the 80/40M trap dipole design found in the *ARRL Handbook*. A W2AU balun is used with a pair of 40M traps to create a multiband dipole that is resonant on 40/80M while having a low VSWR on 10, 15 & 20M. Requires 120 ft. of wire, not included.....**W2AUW2VSNOWI**

W2VS ANTENNA TRAPS

Convert your single band dipole into a tuned multibander. Traps for different bands can be combined to create a single antenna for your favorite bands, from 160 to 10M. Stainless steel and aluminum hardware, over 600 lbs pull strength, epoxied capacitors – waterproof. Rated at 2KW/SSB.

Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.

KW-10 10M pair	KW-30 30M pair
KW-12 12M pair	KW-40 40M pair
KW-15 15M pair	KW-60 60M pair
KW-17 17M pair	KW-80CW 80 CW pr
KW-20 20M pair	KW-80F 80 PH pr

W2AU FERRITE BALUNS

Voltage-type used with a balanced antenna (dipole or driven element) to connect to an unbalanced coaxial transmission line (RG-8, 8X, etc). Prevents pattern distortion caused by unequal currents and assures that the antenna and not the feed line is doing the radiating. Effective from 1.8-40 MHz, rated 2KW/SSB. DC grounded for lightning protection. SO-239 connector and support hook.

W2AU 1:1 – 1:1 impedance ratio.
W2AU 4:1 – 4:1 impedance ratio.
W2AU BEAM – 1:1, boom/mast mount.

W2DU 1:1 CHOKE BALUNS

Current-type, transformerless consisting of a stack of ferrite beads placed on a short length of RG-303/U. Isolates (chokes) the transmission line at the feedpoint which prevents RF currents from flowing on the outside of the transmission line without affecting the internal signal. Reduces RF feedback, BCI/TVI. Extended frequency range 160-10 meters. Handles legal power and VSWR up to 5:1 allowing use with an antenna tuner.

W2DU-HF – 1:1, 1.8-30 MHz range.
W2DU-VHF – 1:1, 30-250 MHz range.
W2DU BEAM – 1:1, 40-10M, for beams.

W2AU ANTENNA INSULATORS

HA AN-Insulator™ – Center dipole insulator with support hook. Built-in lightning protection. UHF connector. Dim: 3.5" long x 1.75" dia.
HE END-Insulator™ – Shatter-proof antenna end insulator features long voltage path for low leakage and a wire track. Dim: 5.5" x 1" dia.

MULTI BAND WIRE ANTENNAS



G5RV/STD – Covers 80-10 meters with an antenna tuner. 102 ft. of #14 stranded copper wire and 31.5 ft. of 450Ω #18 ladderline. Use as a flat top or an inverted vee, use any length of 52Ω coax.

G5RV/JUNIOR – Same but covers 40-10 meters; 51 ft. long and 16 ft. #18 ladder line.

G5RV/MINI – Same but covers 20-10 meters; 25.5 ft. long and 8 ft. #18 ladder line.



OCF – Covers 75/80, 40, 20, 17, 12, 10 & 6M, all without the use of an antenna tuner. The rugged broadband design uses flexible, 65 strand 12 ga. PVC coated wire fed off-center with an integral 6:1 balun. The two sections are 45 and 90 ft. long requiring an overall install space of 135 ft. Alternately, it can be erected in only 68 ft., but coverage then is limited to 40, 20 & 10 meters. The special balun is permanently sealed from the weather, and is internally crimped and soldered to a silver/Teflon® SO-239. A stainless eyebolt provides for attaching a support rope. Rated 300W CW/SSB. Assembled, ready to install. Wt. 7 lbs.

OCF-HP – Same but rated at 3KW.



1778 MFJ G5RV-type All-Band Antenna – A center fed, 102 ft. long dipole-type antenna with a special 31.5 ft. twin-lead feeder terminated with a SO-239 connector for connecting a 52Ω coax run from the rig. Covers 80-10 meters with a nominal VSWR. Use an antenna tuner for broadest coverage and lowest VSWR. Using a tuner and a good ground will also allow 160 meter operation as a top-loaded wire. Install as a flat top, inverted-V or sloper. Handles 1500W PEP. Assembled, ready to install. A very popular wide-coverage antenna.

1777 All Band Doublet Antenna – A 102 ft. long flat top (or inverted-V) supplied with 100 ft. of 450Ω ladder line. Covers 160 to 6 meters when used with an antenna tuner. No SO-239.



Ladder Line

Provides extremely low loss, even at high SWR. Great for an all-band dipole or wire antennas using a balun, an in-shack or remote antenna tuner.

1313 1 inch wide, 450Ω, #14 (19/27) stranded conductors, 91% velocity factor.

1313100 100 ft. roll.

13131000 1000 ft. roll.

1318 1 inch wide, 450Ω, #18 (solid) bare copper covered steel conductors.

1318100 100 ft. roll.

13181000 1000 ft. roll.

AES ANTENNA WIRE

14-ANT-WIRE 14 gauge, 7-strand copper-coated steel antenna wire.

14-ANT-WIRE-100 Same, 100 ft.

14-ANT-WIRE-3K Same, 3000 ft.

**synthetic
textiles, inc.**

**Black Dacron®
Polyester Rope**



Double braided Dacron® polyester fiber colored black for UV protection and resistance to weather, mildew and abrasion. After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers and for overhead/side boom support on long beams; eliminates conductors in the RF field.

100' – 100 ft., 260+ lbs. strength, 3/32".

100' 3/16 – 100 ft., 770+ lbs., 3/16".

100' 5/16 – 100 ft., 1790+ lbs., 5/16".

350' – 350 ft., 770+ lbs., 3/16".

ANTENNA INSULATORS

AES DOG-BONE – White plastic.

Dim: 3" x 1" dia.

MFJ 16C01 – Glazed ceramic.

Dim: 2.3" x 1" dia.

ALPHA DELTA-CIN (page 75).



WA1FFL Ladder-Loc®



**Ladder Line Center
Insulator/Support**

LADDER-LOC – Attach 450Ω ladder line to wire antennas. Minimizes feedline flexing at the antenna feedpoint. A top attachment point is provided for a support rope. UV resistant.



W9INN REMOTE BALUN

FRONT

BACK

912 – Use balanced feed line with your antenna while using 50/75Ω coaxial cable from your rig, etc. At the remote location, feeders attach to the heavy duty ceramic feed-thru's without detuning. Uses a two-core 4:1 balun with Teflon® wire, rated 1500W/SSB. Dim: 3.25"w x 2.25"h x 7"d.

ANTENNA FEEDTHROUGH PANELS



Place in a window sill up to 48 in. wide and close the window down on it. Made of 3/4 in. pressure-treated wood sandwiched between two stainless steel plates.

4601 (6) UHF coax feeds and a ground.

4602 (3) UHF coax feeds, balanced line, random wire and a ground.

4603 (1) F, (1) N, (4) UHF coax feeds, balanced line, random wire, a ground, DC current and almost any cable (Amp cable shown).



4616 Turn an air vent into a feedthrough point using a stainless steel plate with 6 adjustable holes.

Tarheel Antennas



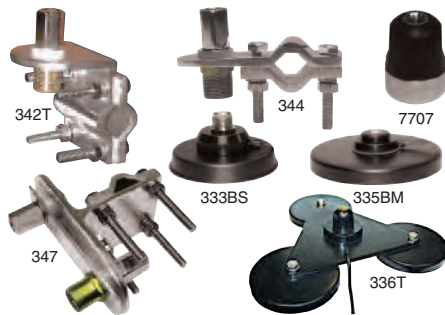
LIL TARHEEL II Motorized Mobile Antenna

The Little Tarheel II antenna covers 3.5-54 MHz continuous with the supplied 32 in. stainless whip and is only 54 in. tall at 3.5 MHz. Tunes via a remote up/down switch. Power Rating: 200W PEP; VSWR: 1.5:1 or less; Lower Mast: 1.5 in. diameter by 16 in. long; Weight: 1.9 lbs. Includes: Remote Control Box with 20 ft. of cable, Ferrite Decoupling Core and 3/8-24 Stud. Mount is not included but a Diamond K-400-3/8C works well.

100AHP PACK Motorized Mobile Antenna

The 100A-HP antenna covers 3.5-29 MHz continuous with the supplied 6 ft. stainless whip and is 10.3 ft. tall at 3.5 MHz. Tunes via remote up/down switch. Power Rating: 1,500W PEP; VSWR typically 1.5:1 or less; Lower Mast length: 3 ft.; Weight: 8 lbs. Package Includes: 100A-HP Antenna, MT-1 Antenna Bracket, Whip Quick Twist Disconnect, 21 ft. RG-8X Coax Assembly, Coax Seal, 20 ft. Control Cable, Manual Switch, Ferrite Decoupling Core, Matching Coil, Fuseholder/Fuse, 3/8-24 Stud and Silicone Dielectric Compound. Complete Package, all you need is an HF radio!

MFJ Mirror/Rack/Pipe Antenna Mounts Large/Small Magnet Mounts



342T Mirror/Rack/Pipe Mount – Holds 3/8-24 in. style whips on your automobile's mirror, luggage rack or other pipe. Hard aluminum clamps can mount to a 1/4 or 1/2 in. pipe. Has a SO-239 coax connector (coax not included).

342S Mirror/Rack/Pipe Mount – Similar to MFJ-342T, but has SO-239 antenna connector and includes 17 ft. of coax with a PL-259.

344 Pipe/Mirror Horizontal Mount – Accepts 3/8-24 in. thread and PL-259 coax conn.

347 Mini Dipole Mount – Use two 3/8-24 mobile whips (not included) to build a compact dipole for a favorite band. Mounts on masts up to 1.25" diameter. Solid aluminum with SO-239 connector.

7707 NMO to 3/8-24 Adapter – Mount a 3/8-24 HF whip to a NMO mount.

333BM Magnet Mount – 3-in. dia. NMO-style. 17 ft of coax with PL-259 connector.

333BS – SO-239-style mount.

335BM HD Magnet Mount – 5-in. dia. base, NMO-style. 17 ft. of coax with PL-259 connector.

335BS – SO-239-style mount.

336S Goliath Tri-Magnet Mount – Has (3) Super Strong 5-inch magnets bolted to a 1/4 in. thick triangular mount. SO-239 style antenna mount. Comes with 17 ft. of coaxial cable and PL-259 connector.

336T – 3/8" x 24 style ant. mount.



JETSTREAM

Mobile HF Sticks

Two-Piece Monoband Mobile Antennas

Jetstream mobile HF sticks are made of a black fiberglass lower section with integral coil, adjustable and removable stainless steel whip (except for JTM-HF160). Standard 3/8 x 24" thread type mounting. Total length on all models is 96" (except JTM-HF6, it is 58"). Power rating on all models is 300 watts PEP.

Model Number (band - band width)
JTM-HF6 (6M - 1000 KHz)
JTM-HF10 (10M- 500 KHz)
JTM-HF12 (12M - 300 KHz)
JTM-HF15 (15M - 200 KHz)
JTM-HF17 (17M - 175 KHz)
JTM-HF20 (20M - 150 KHz)
JTM-HF40 (40M - 60 KHz)

JTM-HF75 (75M - 35 KHz)
JTM-HF160 (160M - 12 KHz)

Microphone Extension Cables

Jetstream 16.5ft microphone extension cables are handy to have in your vehicle or the shack. Now you can move freely around the room instead of being tied down to your desk!



JTM-EX 8pin Modular Cable
JTM-EXR 8pin Round Cable

JTM-EX JTM-EXR

JTM-EX 8pin Modular Cable
JTM-EXR 8pin Round Cable

YAESU

ATAS-25 HF/6/2M/430 MHz
 Portable Field Antenna for the
 FT-100, FT-817, FT-857 & FT-897

Covers 7, 14, 21, 28, 50, 144 and 430 MHz. You switch bands by changing and adjusting the supplied elements. Handles 100W SSB/CW @ 50% duty cycle on HF/6M (50W AM/FM) and 50W all modes on 144 and 430 MHz. Mounts on a 1/4" camera tripod (not supplied). SO-239 coaxial connector. Dim: 7.2 ft. tall, 2 lbs.

ATAS-120 HF/6/2M/430 MHz Motorized Tuning Antenna

Remotely tunes for the lowest SWR using control voltages routed thru the coaxial cable from an ATAS compatible Yaesu transceiver. It is recommended to use a duplexer, otherwise the coaxial cable must be switched to the correct jack when changing between HF/6M and 2M/440 MHz. Mounts directly on a standard Diamond or Comet mobile mount. Handles 120W at less than a 2:1 VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs.

ATBK-100 VHF/UHF Antenna Base Kit – Not required unless operating the VHF or UHF bands with the ATAS-120 off the vehicle. It restores the low-angle response for enhanced performance. Use with suggested base mount.



ATAS-120
ATAS-25

MFJ Manually Tuned Screwdriver Antenna

Compact and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for stationary operation with better efficiency. Tunes quickly and easily by simply sliding the aluminum cover up or down over the loading coil. Copper-beryllium finger stock completely surrounds the coil maintaining a solid connection as tuning is accomplished. Unused turns on the coil are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place. The 4.5 ft. whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 stud in the base makes it easy to attach to a number of existing mounts. Handles 200W(SSB).

1661 – 40-6M, 12 in. (1 lb).

1664 – 80-6M, 15 in. (1.25 lbs).

1624 HF Mini Bugcatcher – Operate 40 thru 6 meters simply by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise wire for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Handles up to 300W (SSB). Versatile mounting using a trunk lip, mirror, luggage or tri-mag mount (shown but not included).



192512

1925 Screwdriver Antenna Controller – Use the Yaesu ATAS screwdriver antenna with Alinco, Kenwood, Icom and other radios. Installs in-line between the antenna and rig and provides the necessary control voltage to operate the antenna.

192512 Screwdriver Antenna Controller Designed for the Icom IC-706 with a special control cable and 4-pin connector that mates with the 706 controller port. The Up/Down switch puts the 706 in low power and tunes antenna. When the lowest SWR is found, simply release the switch and you're ready to operate. Simple to install. No modification to the radio or antenna is necessary.



Turbo Tuner™

Fully automatic screwdriver antenna controller for Icom and Yaesu radios. Plug and play with Tarheel, Scorpion, High Sierra and Hi-Q Antennas. To initiate tuning of the antenna, select a proper frequency and press the "Tune" Key on the radio. This will place the radio in Tune mode and you will see the screwdriver antenna start moving. Once the antenna is tuned and a proper match is found, the Turbo Tuner will sound a Morse code "K" and return the transceiver to receive mode. Firmware is upgradeable via a PC. Has Park function that will automatically lower the antenna to its shortest position!

TT-ICOM For Icom HF Radios.

TT-7000 For Icom IC-7000 only.

TT-857/897 For Yaesu FT-857/897.

The Outbacker – Provides efficient, multiband mobile performance in a rugged, lightweight, single whip-only design. A sleek, low profile design without bulky traps or coils allows use with standard 3/8" x 24 bases and trunk-lip mounts except for the Joey which has a PL-259 connector.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators or retuning.

MOBILE:

JOEY 80-2M 20W for QRP 50".

MICRO-MOUNT Tripod for Joey.

OB8-HP 75-10M 500W PEP 6'.

OB8-TRI 75-10M 300W PEP three 2' sections making it 6' total.

PERTH-PLUS 75-2M 150W PEP 6'.

STEALTH-PLUS 75-2M 100W PEP 3'.

OB-SB the "Ultimate Spring Mount" for your OUTbacker mobile antenna.

BASE:

OUT-REACH 80-10M 300W PEP 9'.

OUT-REACH 500 80-6M 600W PEP 9'.



Outpost Base Tripod Mount

OUTPOST The Outpost Base Tripod Mount – An efficient way to use mobile antennas in Base or Portable applications. The 36 in. long by 3 in. wide fold-out feet form a large capacitor coupling with the earth which results in greatly improved radiation efficiency. Makes an ideal condo, limited space antenna system that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds with no holes, no concrete required. Mount is a 3/8 x 24 thread stud.



ELK ANTENNAS

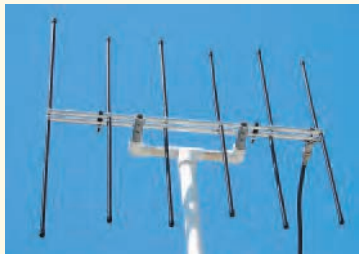
Log Periodics – Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!



2M/440-L5 2M/440 MHz Log Periodic – Dual band operation without a duplexer and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly from vertical to horizontal. Quick assembly and disassembly for portability. Color-coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy 24 in. boom, five black anodized aluminum elements and stainless hardware. **144-148 MHz:** 6.6dBd gain; **430-450 MHz:** 7dBd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); "Soft Touch" grip handle; 1.5 lbs.



440-L8 440 MHz Log Periodic – The latest model with increased gain and wide bandwidth. Great antenna for fox hunting, use the 3rd harmonic of 2M, no problem with RF bypassing the HT connector. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware that provides strength and long life. **420-450 MHz;** 8 elements; 8.2dBd gain; 1:1 - 1.4:1 SWR; Rated 150W; 24 in. boom; 21 oz.



220-L6 220 MHz Log periodic – All of the great Elk Antenna log-periodic features in a popular 220 MHz version. **222-225 MHz;** 6 elements; 7.3dBd gain; 1:1 SWR; 28+ dB F/B ratio; Rated 150W; 24 in. boom; 1.3 lbs.

ELK BAG Canvas Carrying Bag – For convenient transporting of all ELK antennas.

Silver-teflon® connectors on all models

Arrow Antenna

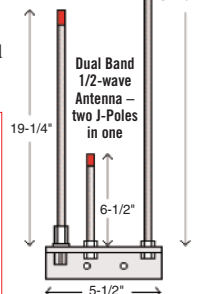
146/440 MHz Dual Band J-Pole Antenna

This is a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

OSJ-146/440

Mounts just about anywhere: In the attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks & boats.



LEO Satellite Antenna



146/437-10 – KKSYY working thru a satellite using his handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. The boom is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip handle on the rear. The (3) VHF and (7) UHF elements are strong and lightweight aluminum arrow shafts, plastic tipped for safety. Gamma matched system with BNC connectors for each band.

146/437-10BP – Split boom model.

10W DUPLEXER – Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables with BNC connector.

DUPLEXER SMA – w/ SMA connector.

30" ANT BAG Antenna Carrying Bag For 146/437-10BP. Dim: 30" long x 3" dia.

hy-gain VHF BEAMS

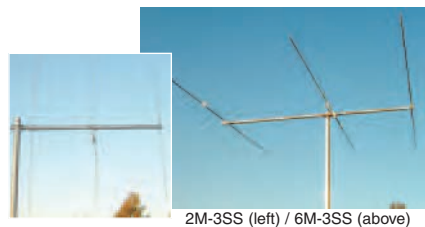


VB-25FM 2M 5 Element Beam 75 Inch Boom The rear boom-mast bracket fits 1.625 - 2.0625" mast. Gain: 11.2 dBi; Power: 500W PEP; Wind Survival: 80 MPH; 2.9 lbs.

VB-64DX 6M 4 Element Beam 12 Foot Boom The center located boom-mast bracket fits 1.625 - 2.0625" mast. Gain: 10.35 dBi; Power: 1kW PEP; Wind Survival: 100 MPH; 10 lbs.



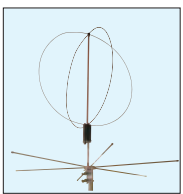
High Performance Yagis – The standard, combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. Big gain and clean patterns for long-haul, tropo and EME. The rugged, waterproof driven element module uses an efficient T-match with 4:1 balun and SNS connectors that are O-ring sealed to a CNC machined block with internal connections encapsulated in silicone gel and a type "N" connector with a beryllium copper, gold-plated center pin. Models for 6M, 2M, 222, 432/440 MHz and 1.2 GHz.



Starter Series (SS) Yagis – Low cost, medium performance antennas for your first venture into the VHF and UHF bands. Tailored for compact size and portability. Each antenna breaks down to no more than 40 in. long, making it a natural for field day, vacations, mountain topping, fox hunts and DXpeditions. It's also perfect for deed restricted areas where windload and overall appearance must be kept to a minimum. Uses 3/16" dia. rod aluminum insulated elements, a driven element Gamma Match feed with no balun and a single heavy duty mounting cradle with stainless steel hardware. Models for 6M, 2M and 440 MHz are available.

HO Loops – At times when using highly directional VHF or UHF antennas there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omni-directional **HO-Loop** to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna, with contacts up to 200 miles are not uncommon. Rugged tuning and 50Ω matching system; stacking kit/harness available. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW when stacked. Models for 6M, 2M, 222 (**Special Order**) and 432 MHz.

Eggbeaters – Produces smooth omnidirectional Horizontal/RHC polarity at the horizon. Perfect for satellite or SSB modes. Models for 2M & 432 MHz. See Pages 13 & 14 in the Price Guide and for more information go to: www.m2inc.com



Laird TECHNOLOGIES



The Phantom® – The low profile, whipless design doesn't look like a regular antenna so it attracts less attention. Requires NMO-style mount.

TRABT-1420 VHF – Tunable 142-164 MHz, unity gain. Black, 3.3" tall x 3.5" dia. radome.

TRAB-4303 UHF – Covers 430-450 MHz, 3 dB gain. Black, 3.3" tall x 1.5" dia. radome.



BB-1443 VHF Wideband Antenna Base loaded 5/8-wave. Covers 144-174 MHz, 3dB gain, 49 in. tapered whip. Requires NMO mount. (Black).

CWB-1443 VHF 5/8-Wave Broadband Self tuning 144-156 MHz, 3dB gain, 47" tapered whip. NMO mt. (Black).

CWB-4405C UHF Wideband Collinear – Self Tuning 440-470 MHz, 5dB gain, 32" tapered whip. Requires NMO mount. (Black).

BB-1442N Broadband, 5/8-Wave No Ground Plane – Base loaded, 144-174 MHz, 2.4dB, 49" tapered whip.

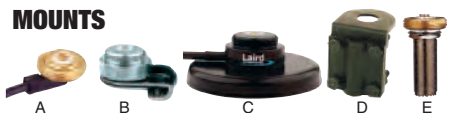
BB-4303 UHF 5/8-Wave – Covers 430-450 MHz, 3dB gain, 11.8" straight whip. Requires NMO mount. (Black).

AB-FT Broadband 1/4-Wave – Tunable 118-896 MHz, unity gain, requires NMO mount.

AB-SCANC Collinear Scanner Antenna – For 150/450/800 MHz receive only. Requires NMO mount. (Black).

CB-144/440C Collinear Dualband VHF/UHF Covers 144-148 & 440-450 MHz, 2/5dB, 36" whip. Rated 200W. Requires NMO mount. (Black).

MOUNTS



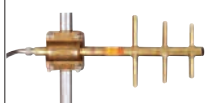
MB-8PST NMO Permanent Brass Hole Mount (A) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Includes 17' of RG-58A/U coax with PL-259 connector.

TM-8PST NMO Mini-Trunk Lid Mount (B) Chrome, includes 17' of coax with PL-259.

GB-8PSTI NMO Magnetic Mount (C) – Strong, 90 lbs. pull. Mylar sole prevents scratches. Includes 12' RG-58A/U with Teflon® PL-259 connector.

LBMB-9034 Mirror Mount L-Bracket (D) – Strong aluminum, black. For 3/4" hole mounts.

VTPM Plate Mount (E) – Up to 1" thick plate NMO mount with UHF barrel coax connection.



Gold-Anodized Yagis
Internally matched, wide band. End-of-boom N-type connector, internal transmission line feeds the driven element.

Y-1363 3-Element VHF – Covers 136-150 MHz, 7.1 dBd, 17 dB F/B. Rated for 500W. Boom: 41.5 in. Mounts on mast up to 2.5 in. diameter.

Y-1365 5-Element VHF – Same but 9.2 dBd gain, 20 dB F/B. Rated for 300W. Boom: 72 in.

Y-4303 3-Element UHF – Covers 430-450 MHz, 7.1 dBd gain, 17 dB F/B. Rated for 300W. Boom: 20 3/16 in. Mounts on mast up to 2.5 in. dia.

Y-4305 5-Element UHF – Same but 9.2 dBd gain, 20 dB F/B. Boom: 37 in.

SOLARCON ANTENNAS

A99

A-99 10/11M Base Antenna with Twin Ring Adjust-A-Match Tuning – Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. The SOLARCON sealed base unit is tuned with external inductance rings. Raising the tuning rings raises the frequency and lowering the rings lowers it.

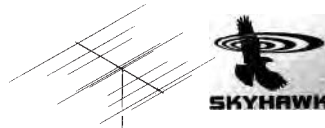
Rugged three-piece white fiberglass construction with triple-plated brass fittings. It's easy to install.

Full 10/11 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in.



GPK-1 Groundplane Kit – Use with the A-99 for 30% gain and lower angle of radiation. Collar and 4 fiberglass radials.

butternut ANTENNAS



YAGI

SKYHAWK 3X10 Tri-band Yagi – Covers 20/15/10M (17/12M with reduced performance). Optimized using 10 elements configured as 3 full-sized elements 20/15M, and 4 full-sized elements for 10M. Includes 2.5 KW balun. Boom Length: 24 ft.; Wind Load: 8.5 sq. ft.; Turning Radius: 22 ft.; 75 lbs.

Drop Ship - Call/Email for Freight Quote

VERTICALS

High efficiency - without losses through traps. Both the HF-6VX and HF-9VX are only 26 ft. high and can be mounted directly on the ground or elevated on a roof top.

HF-6VX 80/40/30/20/15/10M Vertical.

A-17-12 17/12M Kit – For HF-6VX.

HF-9VX 80-6M (except 60M) Vertical.

CPK Counterpoise Kit – For HF-6VX & HF-9V where radials are not possible.

MPS Mounting Post Sleeve – For HF-6VX & HF-9VX. Slips over the mounting tube.

STR-II Stub Tuned Radial Kit – For roof mounted or elevated HF6VX/9VX.

RMK-II Roof Mounting Kit – Includes 2 ft. tripod, SRT-II radials & MPS sleeve.

HF-2V 80/40M Vertical – Optimal output on 80 and 40M because the full length of 32 ft. is used on both bands.

TBR-160S 160M Resonator Kit – For HF-2V, HF-6VX/9VX. Will not work w/CPK.

MFJ 43 Foot Tall Self-Supporting 160-6M Vertical Antenna



2990 – Full band coverage when used with an antenna tuner. Strong and built-to-last using 6063 corrosion resistant aluminum and stainless steel hardware. It all weighs just 20 lbs. and projects only a 2 sq. ft. wind load. It assembles quickly which is great for temporary operations like field day, DXpeditions, etc. For stealth operation, put it up at night and take it down in the morning. Put a flag on top, hide it behind trees, fences, buildings, bushes, or tilt-over. Feeds at the base into a full legal limit 1:1 balun. Includes a ground mount base kit.

Miracle Antenna



Miracle Whip

All Band, Rig Mounted Tunable Whip

Miracle Whip – For QRP (5W) or SWL rigs. A completely self-contained, all-band 57 inch telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and 3.5 to 450 MHz TX. The variable auto transformer design operates effectively without a counterpoise as the continuously variable nature permits finding a good match using whatever ground paths are available. **C/O**

Miracle Ducker

Wideband for your Wideband Handheld

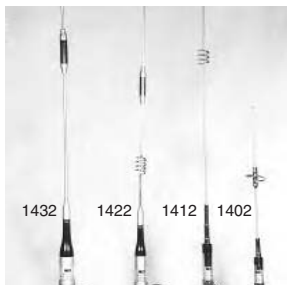
Ducker IL – Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of RX gain on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio's BNC connector.

Ducker TL – Same but with a removable BNC 57" telescoping whip antenna.

MFJ

**RUFFRIDER™
Mobile Antennas**

**More MFJ Mobile
Antennas in the
Price Guide**



Quality construction using precision machined components. Rugged, designed to battle the elements.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate power at the horizon.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω imp. Each comes w/SO-239 base, but also includes a FREE NMO adapter (except MFJ 1414).

1402 Junior – 16.5 in. long. Unity gain on 2M, 3dB on 440 MHz; 100W. No fold-over.

1412 High Power – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz.

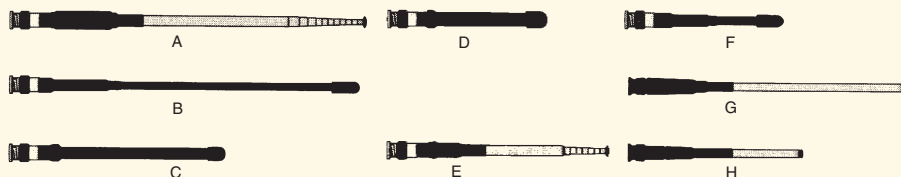
1414 3/8" x 24 Mount – 58.5 in. long w/no coils; 2.15dB on 2M & 3.5dB on 440 MHz; 200W

1422 High Gain – 41.5 in. long giving you extra gain with little increase in height. 3.2dB on 2M, 5.7dB on 440 MHz. Handles 150W.

1432 Hyper Gain – 62.5 in. long. 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W.

1436 Triple Threat – 59 inches long, stacked elements with high-Q phasing coils give a whopping 7.3dB gain on 440 MHz, 4.5 dB on 2M and 2.15dB on 6 Meters. Handles 150W.

THE SMILEY ANTENNA CO.



HAND TUNED ANTENNAS for HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at the band center (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a PVC heat-shrink coating applied for strength and endurance.

All are rated for 50 Watts and have BNC connectors unless stated different.

14610 Super Stick II (A) – 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended at 54". Usable fully collapsed at 10", or one section 1/4 wave.

14620 5/8 Slim Duck (B) – 2M, 5/8-wave, 7db gain, flexible base loaded ant. 12" long.

14626 – Same as above with SMA con.

14650 Regular Duck (C) – For 2M. Tuned ducks show a 3db gain over other rubber ducks because they are impedance matched for HTs.

14656 – Same as above with SMA con.

14680 Flex-Coil (G) – 2M, 1/2-wave, 7-9db gain, flexible base, 35" fully extended.

22050 Reg. Duck (D) – 220 MHz, tuned.

22200 Thin Stick – 1/4-wave telescoping dual band antenna for 144 & 220 MHz bands.

44010 Super Stick IV (E) – 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; 18" extended, 5 3/4" collapsed.

44020 5/8 Slim Duck (F) – 440 MHz, 7db gain, flexible base loaded 5" antenna.

27000 (H) – Telescoping 2M/220/440 MHz antenna. 1/4-wave (2M); 5/8-wave (220 MHz); 5/8 & 1/4-wave (440 MHz).

27006 – Same as above with SMA con.

***BNC Connector**

MFJ HT RANGE EXTENDERS

**More MFJ HT Antennas
in the Price Guide**

1710 Pocket Linear™ 3/8 Wave, 2M BNC – Clips in your pocket like a pen. When using your rubber duck in fringe or noisy areas, put on the Pocket Linear, extend out from 5.25 in. to 23.5 in. and carry on your QSO.

1712 Dual Bander 2M/440 MHz BNC – 1/4W for 2M and 5/8W with gain for 440 MHz. Dim: 4 in. long collapsed, 15.5 in. long extended.

1712S – Same as 1712 w/SMA connector.

1713 Super Flex ThinDuck™ BNC – 6.25 in. long; Efficient loaded 1/4W on 2M; 1/4W on 440.

1713S – Same as 1713 w/SMA connector.

1714 Long Ranger™ 2M Halfwave BNC – This ended 1/2-wave is hard to beat. At 40 inches extended it outperforms a 5/8 wave because it does not need a ground plane. When collapsed to 10.5 inches, it performs equal to a regular rubber duck and places less stress on the antenna connector.

1715 Super Flex ThinDuck™ BNC – 12.5 in. long; Efficient loaded 1/4W on 2M; 1/4W on 440.

1715S – Same as 1715 w/SMA connector.

1716 Flex Duck BNC – 8 in. long; Efficient loaded 1/4W on 2M and 1/4W on 440 MHz.

1716S – Same as 1716 w/SMA connector.



SmallWonder™ for 2M/440 MHz

An amazing antenna for its size. Less than 1 inch tall, it's great for travelling and monitoring and doesn't get in the way. Also works well for signals at 1200 MHz. Order **1719** with BNC connector or **1719S** with SMA.



Clip Window Mount for Handheld Antennas

When mobile you can get out better by detaching the antenna from your HT and installing it on this handy window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable.

Order **310** with BNC connector or **310S** with SMA.



UltraLite™ Mag Mount Antenna

1722 – This Dual Band UltraLite™ 2M/440 mag mount antenna has 12 ft. of RG-174U coax with a BNC connector. Weights less than 2 oz. but holds on with an 1/8" rare earth magnet. The whip is thin, flexible and 20 inches long. Handles 50W on 2M and 25W on 440 MHz. Quick and easy performance boost for your handheld while operating in the car.

1722S – Same but SMA connector.



More HT Antennas on Comet/Maldold pages 58 & 59 and Diamond page 65



PSTVAS-SMA HT Antenna for Tactical/Safety Vest – A body-worn antenna for use with handheld radios. The antenna runs from a handheld radio and conceals in clothing, jacket or vest. Covers 6M, 2M, 220 & 440 MHz and works better than a standard rubber duck or flat blade antenna. SMA connector. Tactical/Safety Vest not included. Dim: 40 inches long; 4.1 oz.

EXPLORE ALL THE FEATURES OF YOUR RADIO

ITS ALL HERE IN THE PROGRAM ...
JUST A FEW CLICKS AWAY

PROGRAMMING SOFTWARE KITS WITH USB CABLES

IN STOCK FOR MANY ICOM AND KENWOOD RADIOS SPECIAL ORDER FOR YAESU, ALINCO, WOUXUN AND JETSTREAM RADIOS*

Get that new radio on the air faster! Enter details for Memory Channels in an easy to use spread sheet that completes many details automatically. Customize other Set Menu options in the Program too. Get it done and on the air with minimal button pushing and turning!

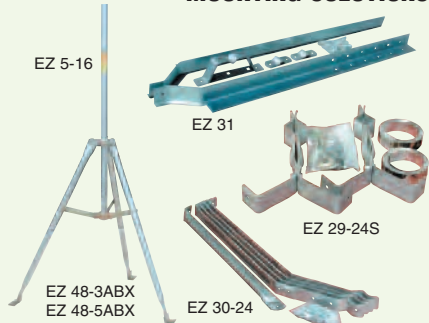
Bring radio programming out of the "black box" and onto the computer screen! Easy to use spread sheet, list selections and edit boxes address ALL the features of the radio - not just memory programming.

D-Star Repeater information right in the Program. Easy access to data from other sources: directly with just a few mouse clicks or with copy and paste from another file or from some websites.

Videos Demos Available OnLine - www.rtsystemsinc.com - 800-921-4834

* EACH RADIO REQUIRES SPECIFIC SOFTWARE.

EASYUP SMALLER ANTENNA MOUNTING SOLUTIONS



Easy-Up Tri-Pods are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Legs extend to any rafter spacing. Completely assembled and includes a pitch pad kit and lag screws.

EZ 48-3ABX - 3 ft. high, 8.5 lbs.

EZ 48-5ABX - 5 ft. high, 12 lbs.

EZ 29-24S HD Double-strap Chimney Mount Includes two "Y" type mounting brackets and 24 ft. of stainless steel strap.

EZ 30-24 - Deluxe wall mount with third support leg.

EZ 31 - H.D. adjustable eaves mount.

EZ 70 - 2.5-3.75 in. steel (or equivalent) vent pipe mount (PVC not recommended).

EZ 5-16 - 5 ft. x 1.25 in. OD steel mast for any of the mounts above. (store pickup only)

POLES & HOLDERS™ MASTS & MOUNTS



PNH-22-DELUXE 22 Foot Fiberglass Telescoping Mast This deluxe mast/flagpole comes equipped with locking pins on the bottom 3 sections to eliminate the possibility of collapsing. Designed to handle the most demanding winds found in the desert and sea side locations. The top section is approximately 1" in diameter and the bottom section is just less than 2" in diameter. This metallic grey pole collapses down from 22 feet to 48 inches for easy storage. Not only is it easy to store, it only weighs 4 pounds! It has a shiny 4 inch chrome ball for the top, 3 revolving collars with easy open clips to attach your flags/antennas.

LM-22 Ladder Mount - A Poles and Holders exclusive. This sleek newly designed mount has a flared top for easy installation and a rounded bottom, which eliminates the need for a cotter pin. This mount attaches to all RV ladders with a 1" vertical frame and is designed to hold the Deluxe 22' heavy-duty fiberglass flagpole (see above). Made in America.



TM-22 Tire Mount - This mount can be used on virtually any vehicle tire. Simply place the mount on the ground and drive up on it. That's all it takes! No tools required. Can also be used under trailer stabilizing or tongue jacks.

COMET RV Ladder Brackets



106105 RV Ladder Brackets - Designed to easily attach to any standard RV ladder, a flat surface of a house or fence to hold an antenna mast or flag pole. The mast slips easily into the upper bracket, then drops down into the lower bracket from ground level. No need to climb the ladder to set up or take down the mast. Accepts the CP-45 or 1.5 in. diameter masts up to 16 ft. long.

CP-45 Aluminum Mast - Extends from 54 in. to 14 ft. 8 in. tall in (4) sections. 45 ft. of guy line included. SO-239 on top for antenna & coax.

YS-45 Ground Mount Aluminum Tripod The YS-45 aluminum tripod is a perfect match with the CP-45 telescopic mast (shown and sold separately). The minimum length is 34 inches and the maximum mast length is 55 inches. The support leg radius is 24 inches. The maximum weight load is 22 lbs. This tripod weighs only 3 lbs, 4 ounces. It features friction lock with nylon bushing.

GuyTie®

Multiple attach point guy line connector. Accepts up to 1/4" diameter guy lines to stabilize Radio/TV antenna masts.

2104211 - For 1" outside diameter mast.

2104213 - For 1.25" outside diameter mast.

2104215 - For 1.5" outside diameter mast.





MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas 10 sq. ft. in 50mph winds, depending on the model.

FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotator). Visual impact is reduced and antenna servicing is made easier. The TMM Series are lightweight, freestanding, and allow up to 18 sq. ft. of antennas in 50mph winds (433HD will handle 24 sq. ft.).

FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotator plate and base hardware and require no guying. Will handle 18 sq. ft. of antennas in 50mph winds. All bases will accept the TRX Series raising fixtures.

FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 30 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

- See **US TOWER** in the Price Guide for Models & Prices
 - Download a **US TOWER** Catalog at ustower.com
- U.S. Towers are drop shipped direct from the factory. Shipment is FOB origin from Woodlake, CA or Lincoln, KS via truck. Give us a call with the items requested and we will get a Freight Quote. Freight charges will be collected at the time you place your order.

WARNING!

The US Towers shown here are not designed for snow or ice loading. These towers must be fully retracted prior to any snow or ice environmental event. Contact US Tower for information on Ham Towers designed for snow and ice.

For the Proper Grounding of ANY Tower follow your Local Electrical Code.

UNIVERSAL TOWERS

**ALUMINUM, FREESTANDING,
SELF-SUPPORTING AT RATED LOAD**

LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE
RUGGED STRENGTH for AMATEUR RADIO • TV • FM
INDUSTRIAL • FIRE • POLICE • MARINE

Consider the advantages of – ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

UNIVERSAL Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available with 11, 14, 18, 22, 26 or 30 in. wide base sections and a choice of windload rating and accessories.

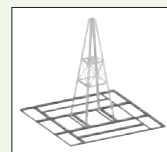
UNIVERSAL 50 ft. Self-Supporting
Aluminum Tower installed at K9KHW
Milwaukee, WI



No Guy Wires!

- Write or Call for a **FREE UNIVERSAL TOWERS** Catalog
- See **UNIVERSAL** in the Price Guide for Configurations
- More **UNIVERSAL** information at universaltowers.com

UNIVERSAL towers are drop shipped direct from the factory. Shipment is FOB origin from Mt. Clemens, MI via truck. Give us a call with the items requested and we will get a Freight Quote. Freight charges will be collected at the time you place your order.



GLEN MARTIN

Roof-Top Towers • Lag Bolts • Side Arms
Roof-Top Bases • Mast Clamp • Thrust Bearing

- See **GLEN MARTIN** in the Price Guide

Glen Martin products are drop shipped direct from the factory. Shipment is FOB origin from Boonville, MO via truck. Give us a call with the items requested and we will get a Freight Quote. Freight charges will be collected at the time you place your order.

MFJ



1910 Telescoping Fiberglass Mast – It extends to 33 ft. tall, collapses to 3.8 ft. and weighs only 3.3 pounds. Pull out each section and twist to lock. It's great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DXpeditions. Use it to make other antennas like loops and quads. The mast is made of super strong fiberglass and flexes to resist breaking, the bottom section is 1-3/4 in. diameter. Black coating resists UV.

hy-gain® ROTATORS

... the first choice of hams around the world!



The HAM-IV

is the most popular rotator in the world! It is designed for medium sized communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30°F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability.

The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotator plus an 8-pin plug at the control box. Dual 98 ball bearings race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in.

Ham-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (inch lbs.)	800
Brake Power (inch lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/98 ball bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (JSC or Davis RF)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 ft/lbs.



The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration, Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility, Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25 to 3".

HDR-300A Specifications

Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	N/A
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	7500
Brake Construction	Solenoid operated locking
Bearing Assembly	Bronze sleeve w/rollers
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	7 (JSC or Davis RF)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	5000 ft/lbs.

The TAILTWISTER SERIES II



is designed for medium sized communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control.

T-2XD with DCU-1 control.

TAILTWISTER Specifications

Wind Load cap. (inside tower)	20 square feet
Wind Load (w/mast adapter)	10 square feet
Turning Power (inch lbs.)	1000
Brake Power (inch lbs.)	9000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Triple race/138 ball bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (JSC or Davis RF)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	3400 ft/lbs.



The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearings race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support.

AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	1.5 square feet
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	450
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/12 ball bearings
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	5 (JSC or Davis RF)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	300 ft/lbs.



THE HAM-V

is designed for medium sized communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i. alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotator and an 8-pin plug at the control box. Ferrite beads reduce RFI. Max. mast size: 2.063 in.

HAM-V Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (inch lbs.)	800
Brake Power (inch lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 ball bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (JSC or Davis RF)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 foot/lbs.



The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 48 ball bearings race gives proven support. Diecast ring gear, stamped steel gear drive, heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, takes masts up to 2.063". Includes light duty lower mast support.

CD-45-II Specifications

Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	5.0 square feet
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	800
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/48 ball bearings
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	8 (JSC or Davis RF)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	1200 ft/lbs.

Rotator Accessories

- MSHD** Heavy duty lower mast support for Ham-IV/V, T-2X/XD.
- MSLD** Lower mast support for CD-45-II, AR-40.
- TSP-1** Tower mounting plate kit.

JSC & Davis RF Rotator Cable

- JSC 5971** Standard, 8-wire; 2-18 ga. & 6-22 ga.
- JSC 5972** Heavy, 8-wire; 2-16 ga. & 6-18 gauge. See JSC on Page 12 in the Price Guide
- DRF RCH** Heavy, 8-wire; 2-16 ga. & 6-18 gauge. See Davis RF on Page 7 in the Price Guide

The DCU-1 PATHFINDER

Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotator with digital readout out of your beam heading, accurate to 1-degree, and 360-degree choice for center of rotation. Automatic 8-second brake delay reduces stopping torque stress. Six presets store favorite headings. RS-232 PC control, compatible with many logging and contest programs.





G-2800DXA

G-1000DXA



G-450A

G-5500



G-800DXA

G-800SA

ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation. 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220V AC; Fits most USA-made tower shelves.

G-2800DXA – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.; ±1/2° backlash; 1.875-2.5 in. mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8"dia. x 13.375"h; 13.2 lbs.

G-1000DXA – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.; ±2° backlash; 1.5-2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Use JSC or Davis RF cable. Dim: 7.5"dia. x 12.5"h; 7.7 lbs.

G-450A – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft. lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Use JSC or Davis RF rotator cable. Dim: 7.5"dia. x 12.5"h; 7 lbs.

G-5500 – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft. lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load; ±4% backlash; 1.5-2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25–1.625 in. boom dia.; Use JSC or Davis RF cable. Dim: 12.5"dia. x 7.5"h; 20 lbs.

G-550 – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft. lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.; ±3% backlash; 1.5-2.5 in. mast size; 67 second 180° elevation; 1.25-1.625 in. boom diameter; Use JSC or Davis RF cable. Dim: 10.5"dia. x 7.5"h; 7.3 lbs.



G-800DXA – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Use JSC or Davis RF rotator cable. 7.5"dia. x 12.5"h; 7.5 lbs.

G-800SA – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.; ±2° backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Use JSC or Davis RF cable. 7.5"dia. x 12.5"h; 7.5 lbs.

ACCESSORIES

- GC-038** – Mast clamp.
- GC-048** – Mast clamp for G-2800DXA.
- GL-33** – Mast adjustment plate (shims).
- GS-050** – 50mm thrust bearing (1.25-2").
- GS-065** – 65mm thrust bearing (1.5-2.5").
- GS-232B** – Interface for DXA rotators.
- C-1000** – GS-232B cable for SDX's/5500.
- GS-680U** – Universal, self adjust. bearing.
- SEP KIT** – Separation kit for G-5500.

K-factor: Multiply antenna turning radius x weight; add K-factors for each antenna

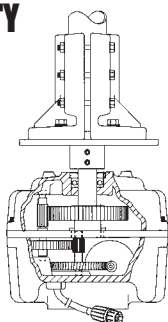
M² SUPER DUTY Rotator

OR-2800PDC Rotator

The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. **Features:** RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates. Motor-mounted digital pulse switch for accurate, closed loop control and heading display.

Specifications: 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75-3.125 in. mast size; 55-270 second rotation speed; 28 to 42V DC motor 0.1/0.5 degree travel resolution; 110/220V AC, 50/60Hz input; Requires two 4-wire runs of rotator cable. Dim: 15.75"h total, 9.75"h rotator; 42 lbs.

Drop Ship - Call/Email for Freight Quote



Channel Master®

9521A Light Duty Rotator



Drive Unit: Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

Control Unit: Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy.

ECG®

U-105 Light-duty Rotator

Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque – easily handles the largest TV/FM and medium amateur VHF/UHF antennas. Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the automatic control accurately shows direction.

Control Unit: 120V AC input and 18V AC output voltage via 3-wire cable to rotator. Dim: 7"w x 5.875"d x 2.375"h

Rotator Unit: 360° rotation in 70 seconds. Torque of 8 ft. lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

U-106 Light-duty Rotator – Similar to U-105 but with Presets and Infrared remote.

TB-105 Thrust Bearing – For U-105/106 providing extra support and strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing.





AH-4 Automatic Antenna Tuner – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers; just push the [TUNER] button and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8V DC. Dim: 6.7" w x 2.7" h x 9" d.

AH-2B Antenna Whip – Covers 7–54 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long. Does not work with the AT-180, use AH-4. **CLOSEOUT**

AT-180 Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. Dim: 6.5" w x 2.3" h x 8.9" d; 5.3 lbs.

VECTRONICS ANTENNA TUNERS



VC-300M Mobile Tuner (top) – Tunes mobile whips, verticals, dipoles, inverted Vs, beams – anything fed by coaxial cable. Covers 1.8–30 MHz at 300W continuous power. The dual-movement Cross-Needle monitors RF power output and SWR. Dim: 7.25" w x 3.5" h x 8.75" d; 2.5 lbs.

VC-300DLP (middle) – Matches any antenna. Full 1.8–30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load. Dim: 10.25" w x 3.5" h x 9.5" d; 3.4 lbs.

HFT-1500 (bottom) – Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital bar-graph; Built-in 6-position antenna switch and 4:1 balun. Dim: 12.5" w x 5.5" h x 12" d; 10 lbs.

SGC Smartuners™ Automatic Antenna Couplers

Stop tuning, start talking.



Smartuners™ are the most versatile and reliable automatic tuning antenna couplers available. Using power levels from 1.5 to 500 Watts and with frequency ranges spanning the HF bands from a single antenna, they provide all-purpose automatic tuning ideal for base, mobile or portable operation. Just provide 12V, connect to transceiver, antenna and ground, and get on the air with minimum SWR. Visit www.sgcworld.com for a detailed review of the Smartuner family, and find the right one for your needs. **Stop tuning, start talking.**

54-14 SG-230 Original Smartuner™
Covers 1.8 to 30 MHz and rated at 200 Watts.
Dim: 12.2" w x 3.2" h x 16.2" d; 8 lbs.

54-15 SG-235 High Power
Covers 1.8 to 30 MHz and rated at 500 Watts.
Dim: 12.2" w x 3.2" h x 16.2" d; 8 lbs.

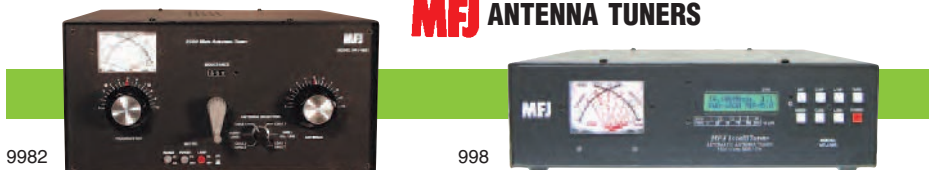
54-18 SG-237 General Purpose Smartuner™
Covers 1.8 to 60 MHz and rated at 100 Watts.
Dim: 7" w x 1.5" h x 9" d; 2 lbs.

54-22 SG-239 Budget Smartuner™
Covers 1.8 to 30 MHz and rated at 200 Watts.
Dim: 6" w x 1.9" h x 7.5" d; 2 lbs.

54-63 Smartlock™ – For the SG-230/237/239 Smartuner. Ideal for mobile use, or any installation where antenna conditions may change. The locking function prevents retuning despite changing antenna loads. The reset function forces the coupler into a retune cycle the next time a signal is transmitted.

54-25 MAC-200 Master Antenna Controller – Operates as your base station control center, eliminating additional switching and tuning. With two built-in computers, using Smartuner™ technology, the MAC-200 can select and tune up to 5 different balanced or unbalanced antennas automatically in less than 2 seconds. The 168 built-in memories can instantly recall previous settings, allowing retuning in less than 10 milliseconds. Convenient meters on the front panel monitor your power and SWR. Covers 1.8 to 60 MHz using 1.5 to 200 Watts. Dim: 6.5" w x 3" h x 8.5" d; 5 lbs.

MFJ ANTENNA TUNERS



9982 Continuous Carrier™ Antenna Tuner – Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak and average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels and high-current, 1000 pF and 500 pF air variable capacitors. Dim: 13.75" w x 7" h x 16" d; 15 lbs.

998 Intellituner™ – Covers 1.8 to 30 MHz, rated at 1500W SSB/CW. Ultra-fast automatic tuning matches impedance from 12 to 1600Ω using MFJ's exclusive *IntelliTune™*, *AdaptiveSearch™* and *InstantRecall™* algorithms, and over 20,000 *VirtualAntenna™* memories. Key your transmitter and *InstantRecall™* determines whether that frequency has been used before. If so, tuning is instantaneous. If not, an algorithm measures the impedance, selects the necessary components, and then fine-tunes the SWR. If the antenna impedance is outside the tuner's measurement range, *Adaptive Search™* measures the frequency and determines relevant component values for fast tuning. MFJ's *Amplifier Bypass Control™* (requires interface cable) provides safe tuning. On initiation, any in-line amplifier is bypassed. Next, a low-power CW tuning carrier from your transceiver is keyed. When tuning is complete, your transceiver reverts to its prior power and mode, and re-enables the amplifier. If a match better than a pre-set amplifier SWR trip point cannot be found, the amplifier stays bypassed. A Cross-Needle SWR/Wattmeter displays 300/60W or 3000/600W forward and reflected full-scale power ranges. A two-line, 16-character backlit LCD meter displays SWR, forward/reflected power, frequency, antenna selected, an auto ranging bar-graph power indication, and the final matching inductor and capacitor values. A memory system provides four antenna selections for each of the two switchable rear panel antenna connectors. A rear binding post for end-fed long wire antennas, balanced line antennas require an external 1.5kW 4:1 balun (MFJ-912). Requires 10-15V DC @ 1.3 amps. Dim: 13" w x 4" h x 15" d; 9 lbs.

Interface Cables for MFJ-998 Intellituner:

5114I Icom Cable – Supports radios compatible w/AH-3 or AH-4 such as IC-706/718/746/756/7000/7600.

5114K Kenwood Cable – Supports radios compatible with AT-300 such as TS-480/50/570/590/2000.

5114Y Yaesu Cable – Supports radios compatible with CAT system such as FT-100/817/857/897.

MFJ ANTENNA TUNERS



902



989D

AUTOMATIC TUNERS



993B front/back



991B/994B

Interface Cables for 991/993/994

5124I Icom Radio Cable
Supports radios compatible with AH-3 or AH-4 such as IC-706/718/746/756/7000/7600.

5124K Kenwood Radio Cable
Supports radios compatible with AT-300 such as TS-50/590/2000.

5124Y Yaesu Radio Cable
Supports FT-100/857/897.

902 Tiny Travel Tuner – Only 4.5" w x 2.25" h x 3" d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-G, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter.

945E Mobile Tuner – Covers 1.8-30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 & 5/30W ranges. Dim: 8" w x 2" h x 6" d.

941E Versa Tuner II – Covers 1.8-30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625" w x 2.875" h x 7" d.

934 Antenna Tuner/Artificial Ground – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8-30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625" w x 3.5" h x 8" d.

948 Deluxe Versa Tuner II – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter.

949E Deluxe Versa Tuner II – Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in dummy load. Dim: 10.625" w x 3.5" h x 7" d.

969 Deluxe Versa Tuner II – Covers 160-6M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune™* allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5" w x 3.875" h x 9.5" d.

962D Versa Tuner III – Covers 1.8-30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.75" w x 4" h x 10.875" d.

986 Differential-T Tuner™ – Covers 1.8-30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75" w x 4.5" h x 15" d.

989D Versa Tuner V – Covers 1.8-30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 12.87" w x 6" h x 11.6" d.

993B IntelliTuner™ 300W Auto Tuner – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operation. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10" w x 2.8" h x 9" d.

991B IntelliTuner™ 150W Auto Tuner – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms.

994B IntelliTuner™ 600W Auto Tuner – Rated 600W SSB or 300W CW, 10,000 memories. Does not have digital SWR/Wattmeter/LCD display, audio SWR meter/audio feedback, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Tuning must be done at low power with amplifier bypassed. Dim: 10" w x 2.8" h x 9" d.



974HB



931

974HB Balanced Line Tuner – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward, reflected power, and SWR. Matching Range: 12-2000 ohms from 1.8-54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80-10M with separate inductors for 6M and 160M. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5" w x 6" h x 8" d.

974B Balanced Line Antenna Tuner – Same as 974HB but 80-6M only (no 160M).

931 Artificial Ground – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Dim: 7.5" w x 3.5" h x 7" d. Not for coax fed antennas.



903

906

906 6 Meter Antenna Tuner/Meter – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60W and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8" w x 2.5" h x 3" d.

903 6 Meter Antenna Tuner – Similar to 906 but without the meter and bypass switch.



921 144/220 MHz Antenna Tuner/Meter – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300W or 30W. Rated at 200W. Dim: 8" w x 2.5" h x 3" d.

924 440 MHz Antenna Tuner/Meter – Similar to 921 but 440 MHz band only.



910

914

910 Mobile Antenna Matcher – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5" w x 2.5" h x 1.5" d.

914 Auto Tuner Extender – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position.

AT-1000PROII w/M-1000 meter
(not included, see next page)



The #1 Line of Autotuners!



AT-1000PROII HF/6M Automatic Tuner

The new AT-1000PROII keeps many of the same features of the previous model, but simplifies the operation. With the two position antenna switch there are 2,000 memories that store tuning parameters for near instantaneous memory recall whenever you transmit on or near a frequency you've used before. Just key and it tunes! It will operate at any power level between 5 and 1,000 watts peak RF input. Power rating on HF is 1000W SSB, 750W CW and 500W Digital. On 6M it is 250W on any mode. It has a large, easy to read bargraph with two selectable scale ranges (100 and 1,000 watts) as well as SWR meter. It will interface with many popular transceivers, enabling their TUNE button to control the AT-1000PROII's operation. Dedicated control buttons allow you to fine-tune capacitance and inductance on those rare occasions when the AT-1000PROII can't find a perfect match by itself. It will tune from 1.8 to 54.0 MHz continuously, and will match an amazing range of antennas, from Yagis and dipoles to inverted-Vs and slopers; virtually any coax-fed antenna from 6 to 1000 ohms impedance (16 – 150 ohms on 6 meters). Tuning time is usually under 10 seconds. If you're transmitting near a frequency with stored tuning parameters, it will set those parameters in under 0.2 seconds. Longwires or antennas fed with ladder line require an external balun. Dim: 10" w x 3" h x 11" d; 5 lbs.



Z-11PROII Portable Tuner

Everything needed in a small, portable, battery operated tuner. It handles 0.1 to 125 Watts (100W on 6 meters), ideal for both QRP and 100W transceivers from 160 to 6 meters. With 2,000 memories, the Z-11PROII uses LDG's state-of-the-art processor-controlled switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match long wires or antennas fed with ladder-line. Includes DC power cable. Dim: 5.0" w x 1.5" h x 7.5" d; 16 oz.



Z-100PLUS Economy Tuner

A small, lightweight package, perfect for portable use or in the shack. Uses latching relays for ultra-low power consumption. Rated 0.1 to 125W SSB/CW and Digital from 1.8 to 54 MHz (100W on 6 meters). Tunes 6 to 800Ω (16 to 150Ω on 6M). Frequency and parameters store in up to 2000 memories to tune in just 0.1 seconds; full tune in about 6 seconds. Includes DC power cable. Dim: 5.5" w x 1.5" h x 5.5" d; 16 oz.



AT-100PROII Designed for 100W Transceivers

The new model keeps all the features of the old unit, but adds an antenna indicator and a bypass indicator on the front panel. Covers all frequencies from 1.8 to 54 MHz (including 6 meters). It features a two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100PROII requires just 1W for full operation, but will handle up to 125W (100W on 6 meters). The AT-100PROII includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as they are used. Includes power cable. Dim: 5.5" w x 2" h x 7.5" d; 1.5 lbs.

AT-200PROII Designed for 200W Class Transceivers

It's nearly identical to the AT-200Pro, but adds an LED for determining when the tuner is in bypass and another LED to tell the antenna selection. Features "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250W SSB or CW on 1.8 to 30 MHz and 100W on 54 MHz (6 meters). Easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status. DC power cable included. Dim: 7.1" w x 2.0" h x 9.5" d; 2 lbs.

AT-600Pro Designed for 500W Mid-Size Amps

Similar but will handle up to 600W SSB or CW and 300W RTTY on 1.8 to 30 MHz and 250W on 54 MHz. It features LDG's state-of-the-art, processor-controlled Switched-L tuner. Dim: 8.5" w x 2.5" h x 10.5" d; 3 lbs.

Radio Interface Cables

The AT-1000PROII, AT-100PROII, AT-200PROII, AT-600Pro, Z-11PROII and Z-100PLUS tuners do not come with an interface cable, choose below:

IC-PAC – 14 inch interface cable for Icom radios* compatible with Icom AH-3 & AH-4 tuners. **IC-PAC6** – 6 foot long version.

Y-ACC – 12 inch interface cable for the Yaesu FT-857(D) or FT-897(D). Does not supply DC power to tuner.

IC-2000 – 12 inch interface cable for the Yaesu FT-2000(D*). Does not supply DC power to tuner.

**Reduce RF output when using AT-100PROII, Z11PROII or Z-100Plus with 200W Radios. The AT-1000PROII, AT-200PROII & AT-600Pro are then recommended.*



IT-100 100W Tuner for ICOM

Designed to work with IC-7000, IC-706, IC-703, IC-718, IC-746, IC-756 and any ICOM radio that is compatible with the ICOM AH-4 tuner. Covers 1.8 to 54 MHz continuous, including MARS. Rated 0.1 to 125W SSB, CW and Digital modes (100W on 6 meters). Front panel push button with LED status indicators selects manual or automatic tuning that will match up to 10:1 SWR (3:1 on 6M). You can control the IT-100 and its 2000 memories from either its own button or the Tune button on the ICOM rigs. It uses latching relays for ultra-low power consumption, and receives DC power from your radio. Includes Icom interface cable. Dim: 6.5" w x 1.5" h x 6.5" d; 1.5 lbs.



KT-100 Tuner for Kenwood

If you have an AT-300 compatible Kenwood radio, you can simply plug the KT-100 into your transceiver with the provided cable. The interface powers the tuner, and the TUNE button on the radio begins a tuning cycle. Provides 2,000 memories for instant recall of the tuning parameters for your favorite band and frequencies. Covers 1.8 to 54 MHz, handles 125W SSB/CW (100W on 6M). *Note: The TS-480HX automatically limits power down to 100W output. Dim: 6.5" w x 1.5" h x 6.5" d; 2 lbs.



YT-100 100W Tuner for Yaesu

An included CAT cable interfaces with your FT-857, FT-897 and FT-100 (including all D models). Covers 1.8-54 MHz and MARS. Handles 1 to 100W SSB/CW and Digital. Tunes 4 to 800Ω (16 to 150Ω on 6 meters). SO-239 in and out connectors. Has 2000 memories for quick tuning. No extra power cables are needed. Just press the TUNE button on the tuner and everything else happens automatically – the mode is set to carrier and the RF power is reduced, a tune cycle runs and then the radio is returned to the original settings. Dim: 7.0" w x 7.0" h x 1.5" d; 20 oz.



Z-817 QRP Tuner for FT-817

A provided cable interfaces the Z-817 to the CAT port (ACC) on the FT-817. Covers 1.8-54 MHz and MARS. Handles 0.1 to 20W SSB/CW and Digital. Quick tuning from 2000 memories (200 with other radios). One button push will switch the 817 to PKT mode, transmit a carrier, tune the tuner; then restore the radio to the previous mode. Works well with other QRP radios – just transmit a carrier and press the TUNE button on the tuner. On standby there's zero by power drain from the four "AA" batteries that last about a year under normal operation. Dim: 4.7" w x 1.7" h x 5.1" d; 9.3 oz.



YT-450 Tuner for FT-450/FT-950

Simply connect the tuner to the radio with the supplied cables and you are ready to operate. DC power and all controls are done through the interface cable. Just press the TUNE button and the rest happens automatically. Mode and Power are set, a tune cycle runs and the radio is returned to its original settings. Match coax fed antennas with an SWR up to 10:1, 2000 memories recall settings in an instant! RS-232 port on the back for PC connection. Dim: 7.0" w x 7.0" h x 1.5" d; 20 oz.

YT-847 Autotuner for the Yaesu FT-847 – Same features and specifications as the YT-450.



AT-897Plus Tuner for FT-897

If you want a broad range automatic antenna tuner for your FT-897, look no further! The AT-897Plus mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are transporting your rig by the handle, you can safely set it down without scratching the case. The AT-897Plus takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier. Dim: 1.5" w x 3.25" h x 11.5" d; 2 lbs.

Multi-function Meters



FT-METER Multi-function Metering Capability for FT-857(D) & FT-897(D)

Features a lush, highly readable 2.5 inch meter face. Has calibrated scales for Signal Strength and Discriminator reading on receive. Power output, SWR, Modulation, ALC action and supply voltage on transmit. LED back-illuminated in cool, high-visibility blue. For illumination it requires an external 12V DC source. Rear On/Off switch for the light and calibration and brightness adjustments. Fully assembled and ready to plug into the radio. Dim: 3.6" w x 3" h x 2.6" d; 0.5 lbs.



FTL-METER
M-7700/M-7600



DM-7800

FTL-METER Meter for FT-857/897(D)

All features and function of the FT-Meter above, but with a larger highly readable 4.5 inch meter. Dim: 4.5" w x 4.5" h x 4.0" d; 1 lb.

M-7700 Meter for Icom IC-7700

Large 4.5 in. meter displays S-meter on receive or power out, SWR, ALC level or supply voltages all selectable from the rig's setup menu. The M-7700 and the radio's virtual meter can work together like displaying SWR on the IC-7700 meter and power output on the M-7700. Blue LED backlighting requires 12V @ 250mA. Calibration and brightness controls. Dim: 4.0" w x 5.7" h x 4.0" d; 1 lb.

M-7600 Similar but for the IC-7600.

DM-7800 Dual 4.5 in. meters for the IC-7800 one for the Main Receiver and one for the Sub. Dim: 9.7" w x 4.0" h x 4.0" d; 1 lb. C/O



M-1000 Meter for AT-1000ProII

4.5 in. meter for the AT-1000ProII Tuner. It will independently display Forward or Reflected RF power or SWR. 1000 or 100W power scales with a selection for Peak or Average reading. Cable is 3 ft. long. Dim: 5.3" w x 4.7" h x 4.2" d; 0.5 lb.

Accessories



RBA Baluns

Install at the coaxial output of your LDG (or other) tuner or transceiver to allow use of longwires and antennas fed with ladder line. A choice of a 4:1 impedance transformation or 52Ω input/output. Both cover

1.8-30 MHz and handle up to 200W continuously. Can be easily waterproofed for outdoor use. Dim: 2.5" w x 1.25" h x 5" d; 6 oz.

RBA-1:1 1:1 200W current balun.

RBA-4:1 4:1 200W voltage balun.



RCA-14 Breakout Box

Simply plug the RCA-14 into your radio's accessory jacks, and all your ports are right there at your fingertips. Plug and play, includes 5 interface cables (DIN-13, mini DIN-6, mini DIN-8 and RCA) for popular Icom, Yaesu, Kenwood and Tencet transceivers.

Dim: 6.5" w x 1.5" h x 3.5" d; 1 lb. C/O



SLS-2 Microphone Switch

For transceivers using RJ-45 microphone connectors. It has two switched jacks and one common jack. A push button switches one microphone between two radios, or one radio between two microphones. An LED indicates the selection. Requires 12V DC @ 100 mA.

Dim: 6.5" w x 1.5" h x 3.5" d; 1 lb. C/O



2-Year Transferable Warranty!

A warranty is a promise, a promise of quality and service life. LDG, the leader in the autotuner industry, now offers a standard no-questions-asked 2-Year Transferable Warranty. When something is wrong with an autotuner, switch or meter, LDG will fix it – period. The warranty does not cover damage, improper use, abuse, or conditions beyond our control (i.e. lightning).

AMERITRON LEGAL LIMIT ANTENNA TUNER



ATR-30 Antenna Tuner – Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, even on 160 Meters. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in a T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/Wattmeter. Includes: 3-core choke balun, 6-position antenna switch, 6:1 vernier reduction drives and crank with turns counter. Requires 12V DC or internal 9V battery. Dim: 13.25" w x 5.6" h x 17.5" d.

ATR-20 Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB and 600W CW but slightly less on 160M. Dim: 13.5" w x 5.5" h x 13" d.



SWR ANALYZER



**INCLUDES
220 MHz!**

**SIMPLE &
ACCURATE!**

CAA-500 Antenna Analyzer – Measures and displays antenna parameters without the need for a separate transmitter and SWR bridge. The highly accurate and large 2.5" w x 2" h analog meter displays SWR and impedance in real time, continuously, as you sweep the selected frequency range. Covers 1.8 to 255 and 300 to 500 MHz in seven ranges. Shows impedance 12.5 to 300 ohms and VSWR 1:1 to infinity. The digital frequency readout is accurate to 1 kHz. Blinking decimal point indicates low battery and OVER LED indicates an out of range condition. Operates for up to 12 hours from (6) AA alkaline cells (not supplied), or use an external 8-16V DC @ 250 mA (minimum) power source. Use the SO-239 connector for frequencies up to 255 MHz and use the N-Type connector for frequencies between 300 to 500 MHz. Dim: 3.3" w x 7" h x 2.5" d; 28 oz.



MANUAL ANTENNA TUNERS

Made in the U.S.A. • Innovative Design
Palstar Quality • Conservative Ratings
Peak & Hold Cross-Needle Metering



AT-2KD – Combines the famous AT-1500DT and AT-1KP into a new 2KW PEP Tuner with all the features such as: peak and peak-hold, a resonant free roller system to operate from 160-6M continuously, new LED lit meter system and new compact size. Impedance matching range from 20 to 1200 ohms. Six-position mode switch for multiple antennas. Dim: 13.2" w x 5.75" h x 12" d; 12 lbs.

4:1 BALUN – Current balun for AT-2KD.



AT-2K – 160-6M, 2KW PEP. Smaller roller inductor for 6M, relay-switched toroid adds extra inductance for 160M. Lower minimum capacitance and higher maximum capacitance. 6-position antenna switch. Peak/Peak Hold 300/3000W metering; Dim: 14.5" w x 5" h x 13.5" d; 17 lbs.

4:1 BALUN – Current Balun for AT-2K.



AT-4K – 160-10M, 2.5KW single tone continuous. Unbalanced/balanced output; T-match network with 1:1 unbalanced-to-balanced INPUT transformer; Cross-Needle metering. Large variable capacitor; silver-plated roller inductors; Switched antenna inputs. Dim: 15" w x 7" h x 16" d; 20 lbs.



AT-5K – 160-10M, 3.5KW single tone continuous. Balanced OUTPUT, 5kW balun at the INPUT; Large plate capacitors; Rugged, 10 Amp roller inductor; Dim: 16" w x 8" h x 18" d; 30 lbs.



BT-1500A – 160-10M, 1500W PEP. Double-L network balanced tuner. Two tandem roller inductors and dual-section capacitor; Peak/Peak-Hold Cross-Needle metering. Dim: 13" w x 6" h x 17" d; 17 lbs...

The Better RF Company TUNE CONTROLS

YAETUNECONT Tune up Control for Yaesu FT-100, FT-857 & FT-897

Controls the radio's [TUNE] button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., no matter what mode you are using. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers.



7000 TUNE CONTROL 706 TUNE CONTROL

706TUNECONT Tune up Control for IC-706/718 – Plugs into the Molex connector on rear of the radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8-10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No switching to AM or RTTY or holding the PTT. Works 160–6M (no 6M with original IC-706).

7000TUNECONT Tune up Control for the IC-7000 – Activates the [TUNE/CALL] button on your IC-7000 to tune an antenna or an external tuner while displaying the SWR on the radio. Senses the voltage on a screwdriver antenna motor for automatic turn on and off of the tune mode. User selectable tune-up power can be a constant 30W or pulsed at a 50% duty cycle. The supplied cable connects to the radio's CI-V jack. It utilizes the CI-V data port and the tuner port for SWR readout, frequency and the radio's preprogrammed sequencing of the tuner port.

7000SCDRCONT Screwdriver Antenna Control for IC-7000

Integrates directly with the Icom IC-7000, the 7000TUNECONT (required, see above) and any screwdriver antenna. It automatically finds resonance with the push of the [TUNE] button on the IC-7000. Requires no connections or modification to the antenna or radio. Antenna SWR displays on the IC-7000.



HF-AUTOTUNE All Digital Automatic Antenna Tuner – Will function fast and flawlessly with ANY transmitter without plodding through menus and cables, that in most cases will not work with other accessories. Tunes when operating SSB mode. Capable of loading into a 10:1 SWR from 1.8 to 54 MHz. NO CI-V cables required. Digital Display; no analog metering. Remotable up to 400 ft. away. Dim: 12" w x 6.5" h x 16" d; 20 lbs.

For more detailed info go to: www.palstar.com

MFJ SWR ANALYZERS



259B

269



249B

266

MFJ SWR ANALYZER ACCESSORIES



29C / 39C

5510C

731

66

1312D AC Adapter – Outputs 12V DC for charging the NiMH batteries or to operate your MFJ SWR Analyzer without batteries.

29C Carrying Case – Cushion and protects your 249B/259B. Tote it, wear it around your waist, over your shoulder, or clip it onto the tower. Back pocket holds dip coils and coax adapters.

39C Carrying Case – Same, fits the 269.

66 Dip Meter Adapter – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz.

731 Tunable Measurement Filter – Use with any SWR analyzer for 1.8-30 MHz measurements in the presence of strong RF fields from nearby broadcast stations or other RF sources.

5510C Cigarette Lighter Adapter Plug – Power your MFJ SWR Analyzer on the road.

92AA10 10 Pack – “AA” NiMH Batteries.

98 Accessory Pack – Includes 39C case, 66 dip adapter and 1312D AC adapter.

98B Accessory Pack – Includes 10 “AA” NiMH batteries, 39C case, 66 dip coils and AC adapter.

99 Accessory Pack – Includes 29C case, 66 dip coils and 1312D AC adapter.

99B Accessory Pack – Includes 10 “AA” NiMH batteries, 29C case, 66 dip coils and AC adapter.

99C Accessory Pack – Includes 10 “AA” NiMH batteries and 1312D AC adapter.

NIFTY MM-MFJ259B Mini-Manual for MFJ-259B – 8-page compact reference guide.

NIFTY MM-MFJ269 Mini-Manual for MFJ-269 – 8-page compact reference guide.

You can ensure your antenna system is giving you top performance by using an MFJ SWR Analyzer. They're completely portable test stations, featuring a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance/Inductance Meter and more.

- You can take it to the antenna and just one reading will allow you to make quick tuning adjustments on the spot. Simple Operation – just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed on the large, easy-to-read, two-line LCD screen and side-by-side meters on the 259B/269.

- When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. Determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable. Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

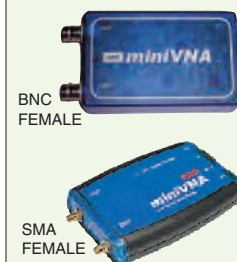
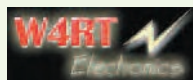
- All except the 266* are powered by (10) AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries (not included), or 110V with the MFJ-1312D adapter. There is a built-in charger circuit that requires external 12V DC or the 1312D adapter. The 249B and 259B have an SO-239 antenna connector, the 266 and 269 has a type-N female and is supplied with a type-N to SO-239 adapter. All metal cabinet. Dim: 4" w x 6-3/4" h x 2" d.

259B SWR Analyzer – Covers 1.8-170 MHz, two-line LCD screen and side-by-side meters.

249B SWR Analyzer – Same coverage as the MFJ-259B but does not have analog meters. Reads SWR, true impedance magnitude and frequency (only) on the LCD panel.

269 SWR Analyzer – Has all the features of the 259B, plus 415 to 470 MHz coverage. A CoaxCalculator™ feature calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Measures Complex Impedance SWR and loss of coax from 10 to over 600Ω.

266 Digital SWR Analyzer – Covers 1.5-65, 85-185 and 300-490 MHz. It displays SWR 1:1 to 9.9:1, Complex Impedance, and Impedance Magnitude 10-500Ω simultaneously – on the same LCD screen. No other low-cost handheld analyzer offers this! Measure Capacitance, Inductance, Field Strength, Frequency, plus generate test signals. You can also fine tune stubs, analyze coax, test baluns and RF transformers, and perform many other important RF-related tasks around the shack. Too many features to list! (Note: Z-mag and R+jX not displayed on UHF). *Use (8) AA alkalines or 1312D only, not Nicad/Ni-MH.



BNC FEMALE

SMA FEMALE

Software-Defined, PC-based HF/VHF Antenna Analyzers

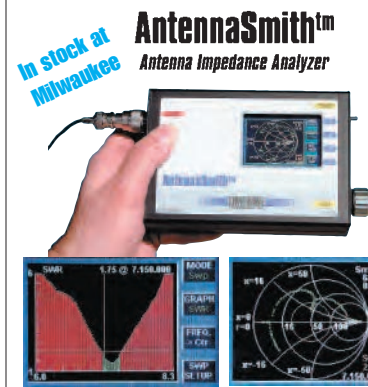
MINIVNA – Connects to your computer via USB cable to display parameters on-screen. Quickly analyzes antennas over a user defined frequency range from 0.1 to 180 MHz. PC display shows resonance, the SWR and return loss. Two markers can be placed within the shown frequency range to measure impedance, resistance, phase and other values at those points. Measure cable losses, cable length, transmission, bandwidth, quality of filters and more. Connect via USB 1.1 or 2.0 cable, or select RS-232 to use the miniVNA with a wireless Bluetooth® adapter. In this case, both the adapter and the miniVNA must be powered from an external source, and the computer must have a Bluetooth interface. This set-up enables remote measurements, for example, right at the base of an antenna. Software runs on Windows™ or Linux™ OS. Has BNC Female connectors. Dim: 3.3" w x 3.5" h x 1" d.

MINIVNA PRO – New and improved! Frequency range 0.1 to 200 MHz. Adds a built-in Li-ion battery, battery charger and Bluetooth® interface for wireless remote measurements. Uses SMA connectors for better isolation.



ANTENNA ANALYZER

ZM-30 – An automated micro-controlled SWR antenna analyzer with an 8-bit controller and precision low-power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1 to 30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for installing field upgradeable software. Battery operation, take it right to the antenna. Durable, powder coated front panel. Dim: 3" w x 4" h x 2" d.



In stock at Milwaukee

AntennaSmith™
Antenna Impedance Analyzer

- Full Color TFT LCD Graphic Display • SWR
- Covers 0.2-55 MHz • Impedance (Z) • Smith Chart
- Reactance (r+jx) • Reflection coefficient (ρ, θ)

Day/Night Always-Visible Display – Transflective TFT LCD color display

Full Graphics - Rapid update – Data graph updates every 2-seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system.

Adjustable Frequency Cursor/Generator – Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph.

Rugged and Portable – Extruded aluminum case, (4) AA NiMH batteries provide hours of field operation. A 12V DC power supply/charger is included.

TZ-900S with SO-239 connector

TZ-900N with Type-N connector

MFJ SWR/POWER METERS

864 Covers 1.8–60 MHz, 144 MHz and 440 MHz. Power Ranges: 30/300W forward and 6/60W reflected. Cross-Needle meter monitors SWR and power simultaneously. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Requires 12V DC for meter light. Dim: 7.25" w x 2.5" h x 2.25" d.

862 Covers 144, 220 and 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75" w x 2.5" h x 2.25" d.

860 Covers 1.8–60 MHz. Ranges: 30/300W forward and 6/60W reflected power. Dim: 4.5" w x 2.25" h x 3" d.



815C Reads true peak or average power and SWR simultaneously on a 3-inch illuminated Cross-Needle meter. Covers 1.8–30 MHz, 300/3000W forward and 60/600W reflected power ranges. SO-239 connectors. Requires 12V DC to function. Dim: 6" w x 3.5" h x 4.5" d.

817C Same as 815C but for 144, 220 and 440 MHz bands, has 300/30W forward and 60/6W reflected power ranges.

812B Indicates forward/reflected power and SWR on 144/220 MHz bands. Also reads relative field strength from 1 to 220 MHz. Power ranges: 30 & 300W. Dim: 4.5" w x 2.25" h x 3" d.



844 VHF/UHF SWR/Power Meter – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/Power on 15, 60, and 200W ranges. Dim: 3.75" w x 3" h x 1.25" d.

816 Econo HF SWR/Wattmeter Meter – Reads forward and reflected power 1.8–30 MHz, 30/300W. Dim: 4.5" w x 2.25" h x 3" d.

842 Compact VHF/UHF Wattmeter – The 3-inch Cross-needle meter shows Forward/Reflected Power and SWR simultaneously. Covers 140 to 525 MHz, selectable 15 or 150 Watt power ranges. Built-in meter light requires 12V DC. SO-239 connectors. Dim: 3.25" w x 3.25" h x 3.25" d.



868 Giant SWR/Wattmeter Measures 6-1/2 inches diagonally across the meter scale. Large, easy-to-read numbers. Covers 1.8 to 30 MHz and indicates true Peak or Average forward and reflected power and VSWR on 20, 200, and 2000W ranges. Uses 9V battery, 12V DC or 110V AC with MFJ-1312D adapter. Dim: 7" w x 5.5" h x 5" d.

GrandMaster™ Series



Easy-to-read 3.25" w x 1.25" h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5" w x 3.125" h x 4.25" d.

870 HF Range – 1.6 to 60 MHz.

Power ranges: 30/300/3000W + VSWR.

872 HF/VHF Range – 1.8 to 200 MHz

Power ranges: 5/20/200W + VSWR.

873 VHF/UHF Range – 125 to 525 MHz.

Power ranges: 5/20/200W + VSWR.

874 HF/VHF/UHF Range – 1.8 to 525 MHz.

Power ranges: 5/20/200W + VSWR.



891 Cross-Needle Peak-Reading SWR and Wattmeter – Covers 1.6 to 60 MHz. Handles 2000 watts. Three ranges: 20/200/2000 Watts average or PEP for accurate SSB power readings. Extra-large 3-5/8 inch three-color scale for improved readability. Simultaneously displays Forward and Reflected power and SWR on individual meter scales for each power range for increased accuracy. Cool LED back-lighting. SO-239 connectors. Dim: 7.25" w x 4.5" h x 4.4" d.

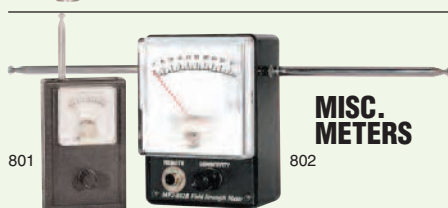
893 – Same as above but covers 125-525 MHz and handles 200 Watts. Three power ranges: 2/20/200 Watts (not PEP).

267 1.5KW Dry Dummy Load with SWR/Wattmeter

The 50Ω dry dummy load works DC to 60 MHz. Handles 100W for 10-min. or 1500W for 10-sec. The large, three-inch lighted Cross Needle meter reads SWR, forward and reflected power simultaneously. Reads PEP or average power on 300/3000W forward and 60/600W reflected power ranges. 1.8-54 MHz. Uses 12V DC for meter lamp. Dim: 4.5" w x 3.5" h x 10.5" d.



841 144 MHz HT SWR/Wattmeter Connects directly in line between your HT and antenna. Read SWR up to 6:1 and power output up to 5W. A rear 3-position switch selects SWR, SWR set, or forward power. BNC connectors input/output. Dim: 2" w x 2.25" h x 1.5" d.



801 Super Compact Field Strength Meter – Read antenna Relative Field Strength, a handy tuning aid. 20-inch telescopic whip. Fits in the palm of your hand. Dim: 2.375" w x 3.625" h x 1" d.

802 Balanced Dipole Field Strength Meter Sensitive telescoping 40-inch balanced dipole is ground independent to reduce influence of surroundings. Big 3-inch meter and sensitivity control; whips included. Dim: 2.4" w x 4" h x 1.5" d.



854 RF Current Meter – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges, 30mA to 3A; Accurate 1 to 30 MHz; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5" w x 5.5" h x 1.5" d; 11 oz.



224 2M FM Signal Analyzer™ Covers 143.5-148.5 MHz. Measures signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobes and feed-line loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4" w x 6.75" h x 2.5" d.

FREQUENCY COUNTERS



886 Pocket Frequency Counter Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector; RF Signal Strength LCD bargraph; Four selectable gate times give 0.1-10 Hz resolution in the 300 MHz range and 10-1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75" w x 3.25" h x 1.25" d.



888 Deluxe Frequency Counter Measures frequency and period. Covers 10 Hz to 3 GHz with a 10-digit LCD and an ultra-sensitive synchronous detector with 16 section signal strength bargraph. High-speed 300 MHz direct counter with 0.1 Hz resolution and 4 selectable gates. Hi-Z low range; Auto-hold; LED back-light; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd pack. With battery, charger, and telescopic whip. Dim: 2.75" w x 4.25" h x 1.25" d; 9 oz.

SWR ANALYZERS



207 HF Antenna SWR Analyzer – Obtain a direct readout of antenna's SWR without formulas, etc. Range: 1.75 - 30 MHz.



208 VHF Antenna SWR Analyzer – Obtain direct SWR of antennas from 138 - 156 MHz.



207/208 – Dim: 2" w x 7" h x 2" d and uses 9V Battery or 110 VAC with MFJ-1312D
209 SWR Analyzer – A wide range oscillator, a 50Ω RF bridge and a calibrated bridge unbalance indicator. This combination allows measurement of antenna SWR from 1.8 to 170 MHz on the single analog meter, and usable as a signal source. Uses (8) AA cells or 110V AC with MFJ-1312D. Dim: 4" w x 6.75" h x 2.5" d.

Coaxial RF Directional Dynamics Wattmeters



81000-A RF Directional Wattmeter – Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and “Quick Match” plug in elements in the range of 0.1–10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5” “taut-band” meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order).

83000-A RF Peak Reading Wattmeter – Similar in appearance and operation to the standard Model 81000-A wattmeter. But also contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery (included) is required for peak reading mode.

See Page 5 in the Price Guide for Plug-in Elements that also work in BIRD meters



Cross Needle SWR/ Power Meters



CN-101 & CN-103M/N

CN-801 Series

CN-101 – Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); $\pm 10\%$ of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6”w x 3”h x 3.9”d; 1.5 lbs.

CN-103M – Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP).

CN-103N – CN-103M with N connectors.

Professional Series

The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the Daiwa line. Calibrated in .5W increments with 5W SWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6”w x 4”h x 4.5”d; 2.2 lbs.

CN-801HP – 1.8-200 MHz, 20/200/2kW.

CN-801HP3 – 1.8-200 MHz, 30/300/3kW.

CN-801V – 140-525 MHz, 20/200W.

CN-801SII – 900-2500 MHz, 2/20W/200mW, type-N.

DIAMOND ANTENNA



SX-240C

SWR/Power Meters

(left) Five models measure power and SWR with 5–10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except one on SX-1100 (type-N for UHF). Dim: 6”w x 2.5”h x 4”d; 2 lbs.

SX-100 – 1.6-60 MHz, 30/300/3kW PEP.

SX-200 – 1.8-200 MHz, 5/20/200W PEP.

SX-400 – 140-525 MHz, 5/20/200W PEP.

SX-600 – Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges.

SX-1100 – Quad band, 1.8-160, 430-450, 800-900 & 1240-1300 MHz, 5/20/200W PEP ranges.

Cross-Needle SWR/Power Meters

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3”w x 3.4”h x 3.7”d; 9 oz.

SX-20C – 3.5-30, 50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR.

SX-40C – 144-470 MHz (220 MHz with correction factor); 30/300W (3W minimum power).

SX-240C – 1.8-54 & 144-470 MHz (220 w/correction factor); 30/300W & 3KW (HF only).



SWR-1

Low Cost SWR Meters



SWR-3

SWR-1 SWR/Field Strength – Range: 3.5-150 MHz; Z: 50-52Ω; SWR: 1:1–3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5 in. RF pick-up antenna. Dim: 2”w x 6”h x 2.9”d; 14 oz.

SWR-3 SWR Meter – Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1–3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 3.5”w x 2.5”h x 3”d; 6 oz.

AMERITRON

AWM-30 SWR/Wattmeter

Range: 1.8 to 30 MHz. Reads true-peak or average power, forward and reflected power and SWR on an illuminated three inch Cross-Needle meter with 3000/300 Watt ranges. Remote sensor with cable. Battery saver turns unit off when no RF applied. Uses 12V DC or 9V battery. Dim: 4.5”w x 4.5”h x 5.5”d.

AWM-35 – Similar to the AWM-30 but is only 1 5/8” thick. Perfect for mobile installations.



VECTRONICS SWR/POWER METERS



PM-30HF – Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors.

Dim: 5.3”w x 3.5”h x 5.75”d; 1.2 lbs.

PM-30UV – Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors.

DUMMY LOADS

DIAMOND ANTENNA



DL-30A Small Dummy Load

Frequency range: DC to 500 MHz. Power: 15W continuous, 100W peak. Dim: 3” long x 1.25” diameter. PL-259 male connector.

DL-30N Same but has Type-N male connector and covers DC to 1500 MHz.



DL-2K 2000W Dry Dummy Load

Handles 2000W for 1 minute or 400W continuously. Temperature controlled fan cooling so the fan only runs when needed. Usable 1.8–30 MHz. Internal wattmeter and analog metering. Dim: 6”w x 5”h x 12.5”d; 5 lbs.



250/250X 260C



250 Versaload – A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3”h x 6.6” diameter. Supplied with high-quality oil.

250X – Same as above, but requires oil.

21 – Gallon of oil for MFJ-250X.

Dry Loads – A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

260C HF/VHF Range – Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5”w x 2.5”h x 7”d.

260CN – Has type “N” connector.

264 Wide Range – Good from 1 to 650 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3”w x 3”h x 9”d.

264N – Has type “N” connector.



ADL-1500



ADL-1500 Oil Cooled Dummy Load – Similar to MFJ-250, 1500W for five min. VSWR <1.2:1 up to 30 MHz and low SWR to 400 MHz.

ADL-2500 High-Power Dry Load – Fan cooled heavy-duty load for up to 60 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes.



DL-650M



DL-300M



DL-2500

DL-300M Dry Dummy Load – DC to 150 MHz. Power rated at 300W for 15 sec., 100W for 40 sec. VSWR <1.5:1 at 150 MHz.

DL-650M Dry Dummy Load – Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.5:1 at 650 MHz.

DL-2500 High-Power Dry Load – Similar to Ameritron ADL-2500 above, 2500W for 1 minute up to 60 MHz, fan cooled.

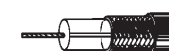
Prices are in
the Price Guide



WIRE & CABLE



SENDING ALL THE RIGHT SIGNALS



A DIVISION OF GREY LINE CORP.



COAX STRIPPERS

VEL VT-COAX Rotary Coax Cable Stripper
For RG-6, RG-58, RG-59 & RG-62 Cable.
AIM 24-7735P - For RG-58, RG-59, RG-62.
AIM 24-7736P - For RG-6, RG-59, 8281.



24-7735P / 24-7736P

READY-MADE COAX CABLE ASSEMBLIES

CXP1318FC

Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.1, 150MHz 1.9, 450MHz 3.3
Recommended frequencies: 50-450MHz.

CXP008C

Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2
Recommended frequencies: 1-50MHz.

CXP1318FN

Connector: **"N" Male both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3,
Recommended frequencies: 150MHz & higher.

CXP08XC

Connector: **PL259 both ends.**
Burial: **No.** UV Resistant: **Yes.**
Shields: **1** (95%BC Braid) **V/P 78%**
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0
Recommended frequencies: 1-30MHz.

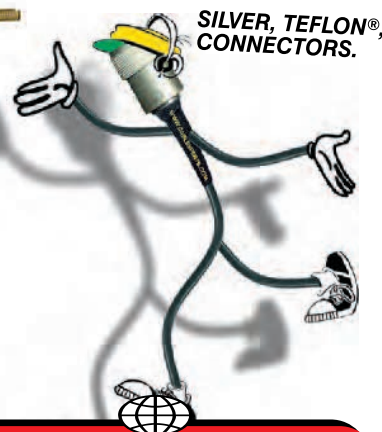
CXP213C

Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **1** (97%BC Braid) **V/P 66%**
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2
Recommended frequencies: 1-30MHz(High Power).

BRAIDED GROUND STRAP



Sizes: 1/2" wide
or 1" wide



SILVER, TEFLON®,
CONNECTORS.

CABLE X-PERTS, INC.
Connecting You to the World...

See Page 5 in the Price Guide for pricing.

UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.



AMPHENOL

83-1SP – PL-259 silver-plated coaxial connector

CZL

401TS – PL-259; silver plated, Teflon®, gold pin **C/O**



AMPHENOL

PL-259 Reducers

83-185-RFX – For RG-58
83-168-RFX – RG-59/8X



AMPHENOL

83-878 – UHF single hole bulkhead receptacle



AMPHENOL

83-1R – SO-239 UHF panel receptacle



SHAKESPEARE

PL-259CPBG – PL-259; no strip, solderless male connector for RG-8X & RG-58/AU



SHAKESPEARE

PL-258CPBG – No strip, solderless splice for RG-8X & RG-58/AU

MICROPHONE AUDIO & DIN CONNECTORS



VANCO

CBC-8P Panel mount 8-pin male



KENWOOD

7-PIN DIN plug
8-PIN DIN plug
13-PIN DIN plug



PHILMORE

61-608B 8-pin female microphone plug



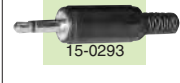
VANCO

CBC-4 4-pin female microphone plug
CBC-5 5-pin female microphone plug
CBC-6 6-pin female microphone plug



HOUSE OF DEALS

AP-115 1/4" metal stereo plug
AP-135 3.5mm stereo mini-phone plug



DALBANI

15-0293 3.5mm mono-aural phone plug **C/O**

TYPE-N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.



AMPHENOL

82-202-1006 – Type-N Male connector for 8214, 9913 & 9913F

34025 – Type-N Male connector for RG-58



CABLE X-PERTS

66335 – Two-piece, EZ-install Type-N connector for 9913/8214 & RG-213

Note: Use with 83-185-RFX or 83-168-RFX reducer for thinner coax



AIM

26-8011 – Type-N chassis mount receptacle

AMPHENOL

82-24 – Type-N chassis mount receptacle

COAXIAL ADAPTERS



AMPHENOL

83-1T – UHF T-connector



AIM

27-8140 – BNC T-connector



AMPHENOL

83-877 – UHF double male



JETSTREAM

JT-1111 – UHF double male



AMPHENOL

4400 – SO-239 to Type-N male



AIM

26-8015 – SO-239 to Type-N male



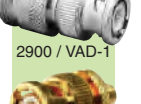
AMPHENOL

31-28 – BNC female to PL-259 **C/O**



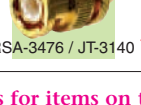
AIM

27-8120 – BNC female to PL-259



HOUSE OF DEALS

SMA-872 – SO-239 to SMA male



AIM

27-8130 – BNC double male



AIM

26-8017 – BNC male to N female



AMPHENOL

2900 – BNC male to SO-239

VANCO

VAD-1 – BNC male to SO-239

RF PARTS

RSA-3476 – BNC male to SMA female

JETSTREAM

JT-3140 – BNC male to SMA female



AMPHENOL

83-1AP – UHF right angle



JETSTREAM

JT-1110 – UHF right angle



AIM

27-8150 – BNC right angle



AMPHENOL

82-64 – Type-N right angle



AIM

26-8016 – BNC female to Type-N male



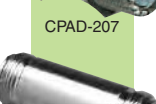
AIM

29-4140 – SO-239 to mini-PL-259



AIM

26-8014 – Type-N female to PL-259



AMPHENOL

83-1J – UHF double female connector



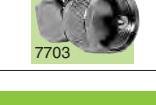
AIM

CPAD-207 – 2 in. SO-239 double female connector



CABLE X-PERTS

UG-3634 – 4 in. SO-239 double female connector



UG-3636 – 6 in. SO-239 double female connector



AIM

26-8010 – Type-N double female connector

AIM

29-3855 – BNC female to SMA male

MFJ

7703 – PL-259 to BNC female right angle adapter

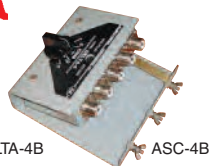
Prices for items on this page can be found under **CONNECTORS** on Pages 6 in the Price Guide.

COAXIAL ANTENNA SWITCHES

ALPHA DELTA



DELTA-4B



ASC-4B

Made only in the USA. A high quality design that feature a cast housing with a constant impedance micro-strip cavity for outstanding performance through UHF. Choose two & four position, SO-239 & N-Type models or the new desktop version four position with SO-239 or N-Type. See the Price Guide and Alpha Delta page for more information.

DIAMOND ANTENNA



CX-210A



CX-310A

Low Loss - High Isolation - Heavy Duty

CX-210A 2-position - Frequency Range: DC to 1000 MHz. Power (CW): 1.5KW (0-30 MHz); 1KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 2.5" w x 1.75" h x 3.5" d; 15.5 oz.

CX-210N 2-position - Same as CX-210A, except has Type-N Female connectors and different ratings. Frequency Range: DC-3000 MHz. Power (CW): 1.5KW (0-30 MHz); 1KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz); 150W (1000-3000 MHz).

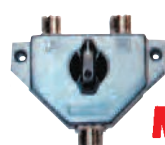
CX-310A 3-position - Frequency Range: DC-800 MHz. Power (CW): 1.5KW (0-30 MHz); 1KW (30-150 MHz); 500W (150-500 MHz); 250W (500-1000 MHz). 50Ω, SO-239 connectors. Dim: 3.3" w x 1.12" h x 3.75" d; 20 oz.

DAIWA industry co. ltd

CS-201 2-Position Coaxial Switch

- Heavy die-cast metal construction with Cavity Design, usable up to 600 MHz. <0.12 VSWR, <0.2dB insertion loss, 60dB isolation. Rated 2.5 KW PEP or 1KW CW. Automatically grounds the unused terminal. SO-239 connectors.

CS-201GII - Same as CS-201 but with Type-N Female connectors, good to 1300 MHz.



1702C / 1702CN



1704 / 1704N

1702C 2-Position Antenna Switch - Heavy cavity-type construction, rated to 500 MHz and 2.5KW PEP or 1KW CW. SO-239 connectors, 50-75Ω. <0.2dB loss and >50dB isolation at 450 MHz. Switch has a center grounding position and the unused terminal is automatically grounded for surge protection. Dim: 3" w x 2" h x 2" d.

1702CN - Same as 1702C, but with Type-N Female connectors, good up to 1.1 GHz.

1704 4-Position Antenna Switch with Lightning Surge Protection - Heavy, cavity-type. SO-239 connectors, 50-75Ω, rated to 500 MHz and 2.5KW PEP, 1KW CW. Center grounding position, replaceable gas tube protector. Dim: 6.2" w x 4.2" h x 2" d.

1704N - Same as 1704 but with Type-N Female connectors, good to 1.1 GHz.



1701 Six Position Antenna Switch - Select 1 to 6 50-75Ω antennas. Rated 2KW PEP or 1KW CW, 1.8-30 MHz. SO-239 connectors, unused terminals are grounded. Dim: 10" w x 3" h x 1.5" d.

1700C Antenna and Transceiver Switch with Lightning Protection

Switch up to six antennas and six radios in any combination. Rated 1.8-30 MHz, 2KW PEP or 1KW CW, 50/75Ω.



1703 Rig/Antenna RF Safety Switch - Prevents your rig from transmitting into no load. Your rig is always connected to one of two antennas. Connect two rigs and two antennas and switch to different combinations. Range: 1.8-30 MHz; up to 300W SSB/150W CW. Metal cabinet with mounting tabs. Dim: 6.5" w x 2.5" h x 1.5" d.

REMOTE ANTENNA SWITCHES

AMERITRON



RCS-4 - Use just one coaxial feedline, select up to 4 different HF antennas. The weather proof remote switch can be mounted outside on a tower, mast, etc. A control box located in the ham shack works thru the coaxial cable without the need for a separate control line. The remote switch is designed with heavy duty 10 Amp contact relays on a fiberglass circuit board rated at 2KW and 1.8-30 MHz. Dim: (remote switch) 7" w x 3" h x 5" d; (control box) 5.2" w x 3.3" h x 6.1" d.



RCS-8V - Select up to 5 different antennas using one coaxial feedline and an 8-wire control cable (can use 8-wire JSC or Davis RF rotator cable). Less than 1 dB loss at 150 MHz. SO-239 connectors. Handles 5KW below 30 MHz and 1KW at 150 MHz.

RCS-8VN - Same as RCS-8V but with Type-N Female coaxial connectors.

RCS-10 - Select up to 8 HF antennas using one feed line and a single 4-wire control line. Long life, 16 Amp sealed relays will handle over 5 kW into matched loads below 30 MHz. Covers DC-100 MHz



MJF

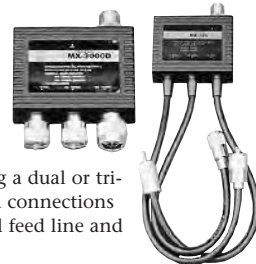


4712 - Select 2 antennas using a single coax feedline to an outside switch box. Separate control line not needed. Rated 1.8-150 MHz, 1500W and 50-75Ω. Inside control box and outside weather-proof switch box. SO-239 connectors, mounting bracket. 12V DC power supply is required, but not included.

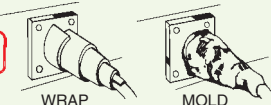
DUPLEXERS / TRIPLEXERS

Check out

Comet on Page 6
Diamond on Page 8
 in the Price Guide
 for a selection of
 Duplexers and
 Triplexers which
 will allow connecting a dual or tri-
 band radio's antenna connections
 to a common coaxial feed line and
 multi-band antenna.



Connector Protection



UNV 104 Hand Moldable Plastic for Antenna Component Protection - The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature to resist moisture penetration. Permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non-toxic and non-contaminating roll, 1/2" w x 60" l.



CoaxWrap™ Non-Adhesive Silicone Tape
 A super-flexible tape that does not have any glue or adhesive; it simply bonds to itself. Can insulate up to 8000 Volts, will not melt up to 500°F, and resists UV damage and weathering. Removes easily and clean without residue.

CWR CW-10B 1"x10' Black Tape Roll.
CWR CW-10R 1"x10' Red Tape Roll.



Water Protection

STUF Dielectric Water-proofing Filler for Coaxial Connectors - A high purity macroscopic foam that dielectrically simulates the coaxial cable core and seals out moisture. Just fill coax connectors and tighten! The filler material hydraulically channels into all voids and points of moisture entry. Non-hardening, easy to remove. No silicone or other additives to harm coax cable material ... (tube)



Corrosion Protection

PENETROX™

PENETROX A - A highly conductive grease recommended for use on all aluminum to aluminum and aluminum to copper connectors, and on bus bars. Assures a high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. During assembly simply apply liberally to mating pieces of antenna components, tubing, etc. Also acts as an anti-seizing lubricant to provide easy disassembly. (4 oz. bottle)

Cannot be shipped via Air Service



The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a SINGLE, low impedance grounding point within the ham shack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor). Polyphaser CU-SPGP panel (below) is recommended to create that single point.

BROADBAND COAXIAL PROTECTORS

Uses special hermetically-sealed gas tubes and other components to protect station equipment from surge voltages and currents that form differentially on coaxial transmission lines. Wide frequency range, low loss and DC blocked for maximum protection. Aluminum enclosure, Silver-center TFE UHF connector or silver shell and gold pin Type-N.



Flange Mount

Bulkhead Mount

IS-50UX-C0

Range: 1.5-400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector.

IS-50UX-C1

Range: 50-700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector.

IS-50NX-C2

Range: 125-1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N.

Bulkhead Mount

IS-B50LU-C0

Range: 1.5-400 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector.

IS-B50LU-C1

Range: 50-700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector.

IS-B50LN-C2

Range: 125-1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N.

GROUNDING PANEL

CU-SPGP

A heavy (1/16 in.) copper plate mounted on 1/2 in. plywood. Mount and ground surge protectors and establish a single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10 ft. x 1.5 in. copper grounding strap and two copper, 18 x 12 in. sandwich bars. Designed for standard 16 in. on-center mounting.



J-1 clamp

ROTOR CONTROL PROTECTOR

IS-RCT – Protects rotor controllers (up to 8-wires) from the damages relating to lightning events. Each terminal has an individual gas tube inside the watertight aluminum box. Shown with optional J-1 Transition Clamp installed.

J-1 Transition Clamp – For IS-RCT.

CLAMP BOND

1C-112S Clamp Bond – Bonds #6 – #1 AWG cable to 1-1/2" Copper Strap **Closeout**



Connecting you to the World[™]

CABLE XPERTS^{INC.}



FLAT BRAIDED GROUND STRAP

Flat and flexible – tinned for easy soldering. For most effective lightning protection use 1 inch-wide for connecting tower legs or antennas to ground rods or a central grounding point. Then, from the that point, use separate lengths of 1/2 inch-wide for connection to each piece of station equipment.

2332 – 1/2 in. (10 ga.), rated at 53A per ft.

2332 100 – 100 ft. roll of above.

235 – 1 in. (7 ga.), rated at 85A per ft.

235 100 – 100 ft. roll of above.

Kleinhuis

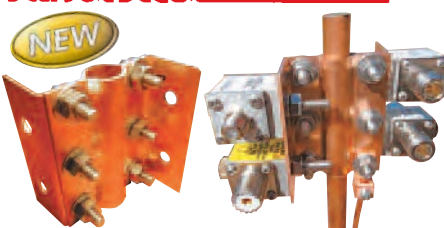
North America, Inc.

ISOLATED GROUNDING BAR



1309 Isolated Ground Bar – Provides additional panel, sub or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Nickel-plated, copper clamping rail, locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5" w x 1.75" h.

ALPHA DELTA COMMUNICATIONS, INC. AA



UCGC Universal Copper Ground Rod Clamp Mounts directly on a standard 5/8" copper ground rod and provides mounting of up to (4) ATT-3G50 surge protectors. Fabricated from solid copper, includes stainless steel mounting hardware with 6 bolts, washers and nuts. Adjustable copper ground wire clamp accepts your station's single point ground wire up to 4 gauge.

STORM COPPER COMPONENTS, CO.

COPPER GROUND BARS



These punched copper bars provide a common termination point for many devices, and is usually connected to a ground rod by a single large conductor. Avoids running a cable from every device out to the ground rod. Each kit includes: UL-recognized standoff insulators; stainless steel mounting bracket; assembly bolts and lock washers; terminal lugs and grounding cable. Suitable for both indoor and outdoor installations.

SCGBHAM6SK 2" w x 6" l, 10 holes.

SCGBHAM8SK 2" w x 8" l, 16 holes.



GBIS18114AE 1/8" Copper Entrance Ground Bar Kit – Installs at shack entrance, making a short connection to a ground system. Holds up to five PolyPhaser lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Accepts grounding wires from 1/0 stranded to #6 solid.

GEL3AE – Pkg. of 5 HD terminal lugs.



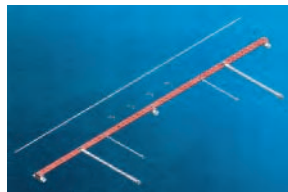
GP1868.78AE 1/8" Copper Single Point Ground Panel Kit – Provides grounding for two transceiver lines and rotor control cable. Installs at tower base or on outside wall. Fits inside a NEMA-4X style box for weather proofing. Tapped holes, sandwich plates and hardware provided.



GBX976AE

NEMA 4X

Waterproof Enclosure
Accepts GP1868.78AE
ground panel, above.



GBIS18148AE 1/8" Copper Station Ground Bar Kit – Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4 in. strap and lugs for added assemblies.

AES LIGHTNING PROTECTORS

Replaceable Gas-tube protection isolates damaging surges. Bulk head or flange mounting with included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5" x 1" dia.

SP-U – UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss.

SP-N – Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss.

AP – Replacement Gas-Tube Protector.



MFJ



270 Lightning Surge Protector – An ultra-fast gas discharge tube safely shunts impulse current up to 5,000 Amps peak to an independent ground. Rated 400W PEP, up to 1000 MHz.

97 – Replacement Gas-Tube Protector.

LOW-PASS & HIGH-PASS FILTERS

For suppressing Television interference (TVI) from nearby HF transmitters

LOW-PASS FILTERS installs in the transmission line between the transmitter and antenna or tuner. Allows signals below the filter's cutoff frequency to pass through to the antenna and attenuates signals above the cutoff frequency.

HIGH-PASS FILTERS installs at the TV set antenna terminals. Allow signals above the filter's cut-off frequency to pass through to the TV and attenuates signals below the cutoff frequency.



HP-75T High-Pass Filter – Stops interference to TV, FM & VCRs from amateur radio and other RF sources. For 75Ω coaxial cable systems Provides 70 dB attenuation below 50 MHz with a very sharp cut-off at 52 MHz.



YA-1 52Ω Low-Pass Filter – Frequency: 1.8 to 29.7 MHz. Power: 1500W continuous, 5000W peak. Insertion loss: <0.2 dB at 29.7 MHz. Attenuation: 80 db @ 54 MHz. SO-239 connectors. Dim: 9.2" w x 2.5" h x 2.5" d; 2 lbs.



704 52Ω Low-Pass Filter – Frequency: 1.8-30 MHz. Power: full legal. Nine Chebyshev poles and Teflon® capacitors. Attenuates above 40 MHz. Insertion Loss: <0.5 dB. RF tight cabinet. Dim: 3" w x 3" h x 9" d.



LF-30A 52Ω Low-Pass Filter – Frequency: 1.8-30 MHz. Power: 1 KW. Loss: <0.5dB @ 30 MHz. Dim: 9.6" w x 2" h x 1.5" d. **CLOSEOUT**

VECTRONICS



LP-30 Low 52Ω Low-Pass Filter – Covers 1.8-30 MHz, handles 1.5 KW. Up to -70dB harmonic attenuation.

LP-2500 – Same, but 2.5KW rating.

HPF-1 75/300Ω High-Pass Filter – Reduces signals received from transmitters operating below 30 MHz. Effective in the TV passband S2 to S50 MHz. Unique shield breaking circuit prevents antenna cable from acting like an HF antenna. Includes a 75Ω matching transformer.

HPF-2 High-Pass Filter – Same as HPF-1 but a Deluxe Version that suppresses the more severe TV interference from nearby radio transmitters such as broadcast, commercial, two-way, amateur and CB operating below 30 MHz. Additionally, uses a toroid ferrite core to reject common mode interference caused by RF current on the coax shield.

FERRITE RFI KITS

Palomar Engineers



RFI-4 RF Interference Kit – A selection of ferrite toroids and beads to eliminate RFI from 1 to 1000 MHz. Contains: 12 beads with 0.2 inch holes for small wires and cables, 4 toroid (donut shaped) cores with 1/2 inch holes, 4 with 3/4 inch holes and 4 split beads (toroids cut in half so you can put them over cables without removing the connectors). Two fit over RG-58 (1/4 in. hole) and two fit over RG-8 (1/2 in. hole). Includes a RFI tip sheet explaining the use of ferrites and how to use them to keep RF out of computers, stereos, VCRs, alarm systems, and telephones



701 RFI Free Choke Kit – Solve RFI radiation or pick-up by winding an offending cable or wire around an RFI suppressing toroid. These are effective from 0.5 to 200 MHz. Split into halves for easy attachment to all types of cable; computer ribbon, coax, power cords, telephone, audio-video. Halves mount in snap-together plastic frame and multiples can be stacked for increased effect..... (Pack of 4)



Ferromagnetic-Core Design & Application Handbook

The legendary textbook from the late Doug DeMaw, W1FB emphasizes the practical aspect of ferromagnetic core material. Learn proper core selection vs operating frequency and more. 256 pages.

3506

RFI METERS - AIDES



852 Power Line Noise Meter

A sensitive AM receiver, fixed tuned in the 135 MHz range, coupled with a balun isolated 24 inch directional telescopic dipole antenna. Simply hold the unit and rotate while listening via headphones and pinpoint the location of the offending noise. Accommodates a tape recorder for later playback. Uses 9V battery. Dim: 2.8" w x 4" h x 1.5" d.

805 RFI Detector – Clamp the top mounted transformer over a suspect cable or wire (up to 1/4 in. dia.) to detect RFI causing common-mode currents. Great for checking mobile installations – ferreting out alternator hash, ignition pulses and micro-processor noise on feed lines and power leads. Works VLF to VHF. Uses a 9-Volt battery. Dim: 2.25" w x 4.75" h x 1" d.



Gift Certificates
are available from all locations.

Give us a call or
order them Online!

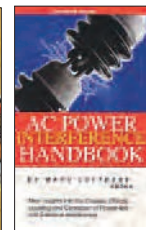
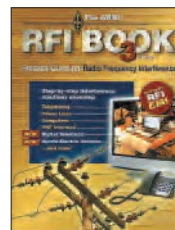
ALAN BROADBAND ZAP CHECKER



185 Broadband Field Strength Bug Detector – Indicates the presence of RF energy in the 3 MHz to 5 GHz range. Ideal for checking wireless installations, detection of covert devices (bugs), and detecting and locating undesirable signal sources such as interfering transmissions, RFI, noise and leakage. Can differentiate between Digital and Analog signals. Uses an Internal fixed antenna. Has a switch enabled silent vibrator mode for in-pocket stealth detection. Analog meter and bright LED lit display. Operates on (2) AA Alkaline batteries (rechargeables do not work). Dim: 2.1" w x 5" h x 1.25" d; 5 oz. **C/O**

**CHECK OUT MFJ's FREQUENCY
COUNTERS ON PAGE 94**

INTERFERENCE SOLUTIONS



ARRL RFI Book (3rd Edition)

Valuable information on finding and eliminating Radio Interference to: TV, cable, satellite, DVD devices and VCRs, computers, telephones, stereos and other audio equipment. Resources for locating and dealing with power line noise.

ARR 0915

ARRL AC Power Interference Handbook (3rd Edition)

Revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of power line and other electrical interference.

ARR 1103



A501 Bongo Ties® – 5 in. x 1/4 in. wide, extra-strong, natural rubber bands with 1-1/8 in. wide wood closure pins. Perfect for organizing radio and computer cables, power cords, video and sound cables, etc. Wrap up tools, clamp things for gluing, tie down tarps, store fishing rods, and secure items in backpacks and luggage. Easy to apply and easy to remove. Reusable! **(Pack of 10)**

Study with the best!
License Study Materials by

Gordon West, WB6NOA & the W5YI Group



TECHNICIAN CLASS



Technician Class book for the 2010-2014 entry level exam! Gordo reorganizes the Q&A into logical topic groups for easy learning! Key words are highlighted in his explanations to help you understand the material for test success. Web addresses for more than 125 helpful, educational sites.

Includes **On The Air CD**

demonstrating Tech privileges. **W5Y GWTM-10**

Tech Book & Software Package

Gordo's book with W5YI software allows you to study at your computer and take practice exams. Explanations from Gordo's book are on the software – answer a question wrong and his explanation appears to reinforce your learning. Includes free Part 97 Rule Book. **W5Y NCS-10**

Tech Audio Course on CD

Welcome to Gordo's classroom! Technician audio theory course recorded by Gordo talks you through the Element 2 question pool. Follows the order of his **Technician Class** book, and is full of the sounds of ham radio operating excitement! An excellent study aid if you spend a lot of time in your car or pick-up! On 4 audio CDs. **W5Y GWTW-10**

GROL + RADAR



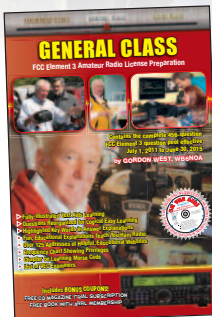
Get your FCC commercial radio licenses and add valuable credentials to your resume! **GROL+RADAR** includes the new FCC Element 1 question pool for the Marine Radio Operator Permit (MROP), the Element 3 pool for the General Radiotelephone Operator License (GROL), and the Element

8 pool for the RADAR Endorsement. Many employers require these licenses for jobs in marine, aero, safety, and municipal positions. Gordo and his team have written clear explanations for all the Q&A to make studying for these exams educational and fun. If you're an Extra Class ham, many of the technical/math questions will look familiar to you. Fully-illustrated to aid your learning. Book includes a searchable CD-ROM with all FCC Rules for Parts 2, 13, 23, 73, 80 and 87. **W5Y GROL-09**

GROL+RADAR book & software package

Enhance your learning experience using our practice exam software along with the **GROL+RADAR** book. Software includes answer explanations from the book – when you select a wrong answer, the explanation from the book appears to reinforce your learning. **W5Y GRSP-09**

GENERAL CLASS



General Class book Upgrade to the HF bands with Gordo & W5YI! Gordo's manual for 2011-2015 reorganizes all the questions into logical topic groups for easier learning. His explanations include highlighted key words to help you remember the material for test success. Companion CD is full of great operating tips! **W5Y GWGM-11**

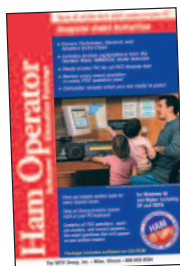
General Book & Software Package

Study at your computer and take practice exams. Software includes explanations from Gordo's book, scores your results and highlights areas that need further study. Includes free Part 97 Rule Book. **W5Y GUS-11**

General Audio Course on CD

General Theory Course recorded by Gordo is full of the sounds that bring ham radio to life! He talks you through the Element 3 theory to help you understand the material and get you ready for your upcoming exam. On 4 audio CDs. **W5Y GWGW-11**

Ham Operator Software has All Exams



Want to study at your computer without tying up your internet connection? This value pack includes the Tech, General and Extra class exams (Elements 2, 3, and 4) along with a free Part 97 Rule Book. Software includes Gordo's answer explanations from his books! Everything you need to go all the way to the top!

Software only **W5Y HOS-12**
Software with all 3 West Books **W5Y HOSB-12**

Learn Morse Code for HF Fun!

In-depth CD audio courses recorded by Gordo:

0-5 wpm on 8 audio CDs **W5Y GW05**
0-5 wpm CW refresher course on 2 audio CDs **W5Y GWCT**
5-13 wpm on 8 audio CDs **W5Y GW13**
10-28 wpm on 8 audio CDs **W5Y GW20**
GW13 & 20 Special Order Only!

Learn all about electronics with our Basic books

Basic Electronics **W5Y BELC**
Basic Digital Electronics **W5Y BDIG**
Basic Communications Electronics **W5Y BCMOM**

NEW!

EXTRA CLASS



Extra Class book Go to the top with Gordo! 2012-2016 book includes all Element 4 Q&A reorganized into logical topic groups. Gordo's fun, educational explanations with highlighted keywords, and great memory tricks for those tough theory questions! Wait 'til you meet "Eli the Ice Man!" **W5Y GWEM-12**

Extra Book & Software Package

Study at your computer and take practice exams as the W5YI software scores your results and highlights areas that need further study. Includes explanations from Gordo's book. Free Part 97 Rule Book. **W5Y ECS-12**

Extra Audio Course on CD

Extra Class Theory Course recorded by Gordo talks you through the difficult Element 4 theory to help you understand the material and get you ready for your upgrade to the top. On 6 audio CDs. **W5Y GWEW-12**

New 2012-16 Extra Class materials will be available about May 1st. Call for current 2008-12 Extra Class products.

Getting Started in Electronics



by Forrest M. Mims
A great introduction for anyone who wants to learn the fundamentals of electronics. Includes 100 projects you can build, and great experiments that demonstrate how electricity works! **W5Y GSTD**

Engineer's Mini Notebooks



These Mims classics teach you hands-on electronics! Study and build 100s of practical circuits and fun projects. Each volume contains several of his famous Mini Notebooks. Terrific ideas for science fair projects and a great way to learn about electronics!

Useful reference guides for your workbench!

Vol. 1: Timer, Op Amp, & Optoelectronic Circuits & Projects **W5Y MINI-1**
Vol. 2: Science & Communications Circuits & Projects **W5Y MINI-2**
Vol. 3: Electronic Sensor Circuits & Projects **W5Y MINI-3**
Vol. 4: Electronic Formulas, Symbols & Circuits **W5Y MINI-4**

Go. But keep in touch...



The ARRL Repeater Directory®

NEW! 2012/2013 Edition

The best directory of frequencies for the 21,800+ repeaters around the country! Includes D-Star and APCO-25, references for operating practices, tips for handling interference, emergency message handling and more. Now includes guidelines for severe weather reporting to SKYWARN/National Weather Service.

- Spiral Bound **Desktop Edition** *lays flat!*
- Handy indexing tabs on the cover.
- Easy-to-read listings.
- Repeater notes located right up front.
- Updated with the latest listings each year!

Desktop Edition Spiral Bound (6 x 9 inches).
ARR Order No. 5485..... **Only \$15.95** (Retail \$17.95)

Pocket-sized Edition (3.75 x 5.25 inches).
ARR Order No. 5347..... **Only \$10.95** (Retail \$12.95)

TravelPlus for Repeaters™ CD-ROM

NEW! 2012/2013 Edition—version 16.0

Make **TravelPlus** your traveling companion and you'll never be alone on the road. Locate ham radio repeaters along US and Canadian travel routes using this map-based software. It's like having the power of **The ARRL Repeater Directory®** on your **COMPUTER!**

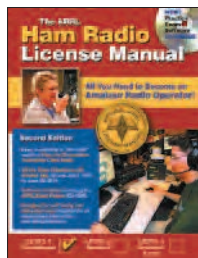
- Map your travel route and tune in. Supports GPS.
- View and print maps and repeater lists.
- Export data for radio programming, handheld devices, and more.

TravelPlus for Repeaters
ARR Order No. 4678..... **Only \$39.95**



ARRL The national association for **AMATEUR RADIO®**

STUDY MATERIALS



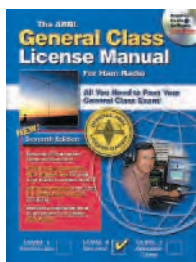
ARRL Technician Class License Manual, Revised 2nd Edition

The most popular introduction to Amateur Radio. Self-study or classroom use for all newcomers, instructors and teachers. Prepares you to pass the 35-question Technician Class Exam. Includes the latest question pool with answer key and ARRL Exam Review on CD. This is your ticket to joining the ranks of "ham" radio operators. Discover the appeal of ham radio and the unique mix of technology, public service, convenience and fun..... **ARR 0977**

Getting Started with Ham Radio

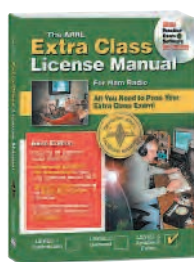
A guide to your first Amateur Radio station. Select radios and antennas; Explore operating modes: voice, Morse code, digital and more; Assemble your station; Operating; QSLing and more!

ARR 9728



General Class License Manual, 7th Edition

Pass the 35-question General Class test. All the exam questions with answer Key. Detailed explanations for all questions, including FCC Rules and practice exam on CD..... **ARR 8119**



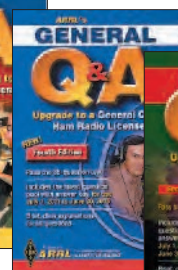
Extra Class License Manual (Revised 9th Edition)

Pass the 50-question Extra Class test. All the exam questions with answer Key. Detailed explanations for all questions including FCC Rules and practice exam on CD. (Valid thru 6/30/2012) **ARR 8874**



ARRL's Tech Q&A, 5th Edition

It's Quick and Easy to earn your FIRST amateur radio license with this study guide and the convenient question and answer format. Your authoritative guide to every question in the Technician Class (Element 2) question pool..... **ARR 0847**



ARRL's General Q&A, 4th Edition

Authoritative guide to every General question in the pool. Everything needed to pass! Explanations to all possible questions..... **ARR 8089**



ARRL's Extra Q&A, 2nd Edition

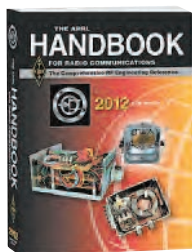
Includes the latest question pool with answer key for Extra class license exam. Brief clear explanations for all possible exam questions. **ARR 1379**



FOLLOW US ON TWITTER!

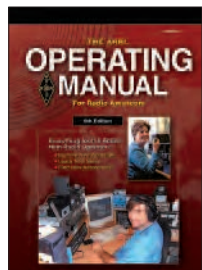
twitter.com/**K9AES**

SEE THE LATEST DEALS AND NEW PRODUCTS



ARR 6672 ARRL Handbook (Softcover).
ARR 6634 ARRL Handbook (Hardcover).

The 2012 ARRL Handbook
 The Standard in applied electronics and communications. A reference book and tutorial that includes principles of electronics, radio communication fundamentals and design, real-world applications, operating and practical projects. Includes the fully-searchable book and design software on CD-ROM.



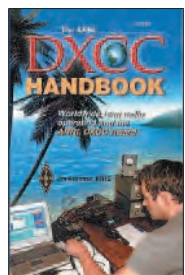
The ARRL Operating Manual, 9th Edition

The most complete book about Amateur Radio operating. It was written to help guide you through the dozens of ways hams communicate with each other. Explore new activities, learn new skills, find new references and more.

ARR 1093

ON4UN's Low-Band DXing 5th Edition

Antennas, Equipment and Techniques for DXcitement on 160, 80 and 40 Meters from John Devoldere, ON4UN. New and updated material. Includes book with CD-ROM that every fan of the Low Bands needs in the shack. Loaded with everything you need to succeed on the Low Bands. Nearly 700 pages! **ARR 8560**

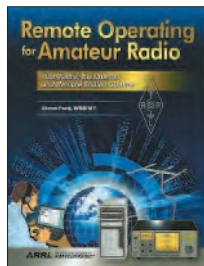


ARRL DXCC Handbook

DX in ham radio means distance. Many hams enjoy the lure of DXing – seeing how far or how many countries they can work. It's a way of determining how well our stations and we the operators can perform. DXing is a full time goal for some hams and a just-for-fun challenge for others. The pinnacle of DXing success is the ARRL DX Century Club, or DXCC award. The purpose of this book is to inspire you to try DXing, and use it as a guide to the beginning of your DX journey..... **ARR 9884**

Remote Operating for Amateur Radio

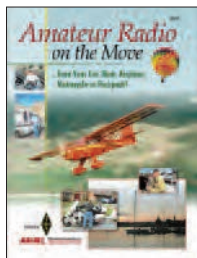
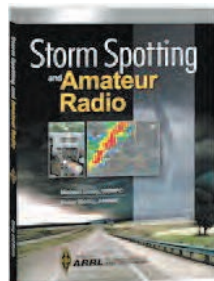
Learn the basics of how the Internet works and the process of establishing your own Internet-controlled station. Station diagrams, software tips and more. **ARR 0922**



Storm Spotting and Amateur Radio

A resource for Amateur Radio operators who volunteer as trained storm spotters. Includes training, equipment, safety, activation procedures and more.

ARR 0908



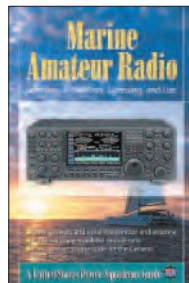
Amateur Radio on the Move

Operate from the Car, RV, Motorcycle, Airplane, Boat or Backpack! Expert advice about operating mobile. Getting power to run a radio, installation tips, safety and antennas for mobile installations. Also getting rid of the noise,

operating hints and tips, software and more!

Marine Amateur Radio

Select, install and operate a dependable ham radio system on any boat. Explains how to use your radio for Voice or CW communications, check and send e-mail, link up with onshore signal repeaters to extend your range and make telephone calls..... **ARR 9723**



Transmitter Hunting

Practical and fun! Locate radio frequency jammers, other malicious interference and downed aircraft. Do "T-hunting," "Fox Hunts" and help search/rescue. Getting started, equipping a vehicle, hunting techniques, antennas, RDF skills and more.

ARR 2701

FCC Rules & Regulations for the Amateur Radio Service, 2nd Edition

Includes the complete Part 97 rules from Title 47 of the Code of Federal Regulations. Now includes chapter: The FCC Rules and You.

ARR 1173



The ARRL DXCC List July 2011 Edition

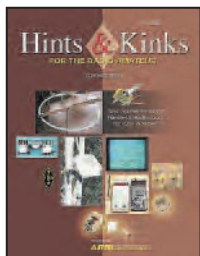
The Official DXCC source. Record the entities you've worked and sent/received QSLs. Complete listing of DXCC rules. Contains data about each entity on the DXCC List, deleted entities and the latest additions.

Also included are the prefix cross-reference and list of international call sign series. Award descriptions and information about obtaining numerous DXCC items are also featured.

ARR 7440

Hints & Kinks for the Radio Amateur

17th edition, the best of Amateur Radio tips and techniques – antennas, weekend projects, shack accessories and operating from QST articles. You'll find articles included from interesting columns, *The Doctor is In* and *Hands-On-Radio*. Learn more about a new mode, or find your next construction project! **ARR 9361**

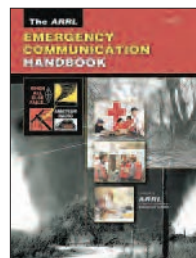


EMERGENCY OPERATIONS

The ARRL Emergency Communication Handbook

For all hams that volunteer their skills in public service applications. Includes details on basic emergency communication skills, message handling and more. Understand what to expect and what to take along. This book covers the Amateur Radio Emergency Communications Course (Level 1) manual but adds additional material.

ARR 9388



Emergency Power for Radio Communications 2nd Edition

Explore electric power generation from charging batteries to keeping the lights on. Solar Power Control, Generators (Gas, Wind and Water), Inverters, Test Instruments and Safety.

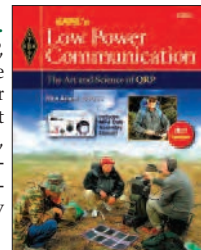
ARR 6153

QRP OPERATIONS

Low Power Communication, 3rd Ed.

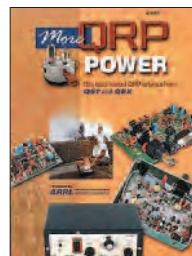
The Art and Science of QRP, by W3OSS. Explore the excitement of low power radio operating: equipment and station accessories, antennas, operating strategies, emergency communication, surplus military equipment and more.

ARR 1042 C/O



More QRP Power

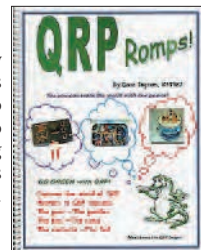
QRP means operating with low power (5W or less). An anthology of articles from recent issues of QST and QEX magazines, covering construction practices, transceivers, accessories and antennas. Dozens of projects and articles to help with assembly or improve a QRP station for home or travel. **ARR 9655**



QRP Romps

by Dave Ingram, W4TWJ
 Work the world with low power (QRP). It includes everything you need to know from gearing up, to building kits, homebrewing rigs and antennas. Secrets to QRP success. The clubs. The contests. The fun!

ING QRPROMPS



STEALTH OPERATION

Low Profile Amateur Radio 2nd Edition

Operating in restrictive situations. Real-life examples and techniques for a variety of low profile situations. Covenants, Conditions and Restrictions; RFI; Disguised and Indoor Antennas; Operating Modes and Tips; Tuners; Low-Profile VHF/UHF Antennas; Mobile Operating. **ARR 9744**

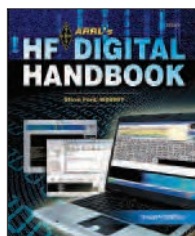


DIGITAL MODES OPERATION



Get on the Air with HF Digital
Explore Digital Radio Below 30 MHz! Get on the Air with a step-by-step guide that'll get you started in the fascinating world of HF digital technology. Written in an easy to understand, conversational style, this book will show you how to set up and operate your own HF digital station. The text includes instructions for configuring software programs for popular modes such as RTTY, PSK31 and JT65. You'll also learn about other digital communication modes such as MFSK, Olivia and PACTOR. It's a fun and easy way for beginners to get on the air!

ARR 6016

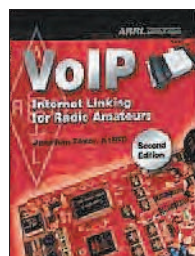


HF Digital Handbook, 4th Edition
RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hell-schreiber, MFSK16 & PSK31. All it takes is your computer, an SSB transceiver and an HF modem, multi-mode processor or PC sound card. Learn how to assemble your own HF digital station, send/receive internet email via HF, and more! **ARR 1034**

VHF Digital Handbook

Setup and operate your equipment and software, and make effective use of your digital station. Packet Radio, APRS, D-Star, digital applications in public service and emergency, more.. **ARR 1220**

INTERNET LINKING



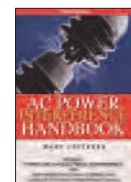
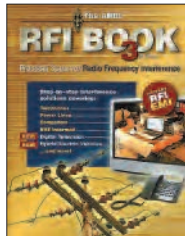
VoIP: Internet Linking for Radio Amateurs

2nd Edition. A guide to several of the most widely-used VoIP systems used by hams; EchoLink and the Internet Radio Linking Project (IRLP). How to get started, set-up, and use these systems. Plenty of technical information if you want to dig deeper into VoIP applications and discover how they work. Connecting the World; Using a VoIP Link; Conference Servers; Reflectors and Nets; Systems; Setting Up Your Own Node; Digital Audio and the Internet..... **ARR 1431**

INTERFERENCE SOLUTIONS

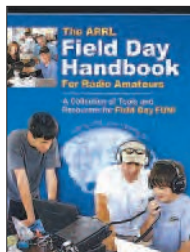
ARRL RFI Book (3rd Edition)
Advice on every type of radio frequency interference: automotive, television, computers, DVD players, audio equipment, phones, power line noise, cable television interference, and solutions for other electrical devices.

ARR 0915



ARRL AC Power Interference Handbook (3rd Edition)
Revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of annoying power-line and other electrical interference. 18 chapters.

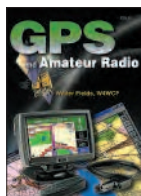
ARR 1103



The ARRL Field Day Handbook for Radio Amateurs – The ultimate guide for Field Day Enthusiasts. Features content from QST Magazine and other ARRL publications. Everything you need know: rules, log sheets, band charts and antenna projects **ARR 0885**

Satellite Handbook

The thrill of satellite communications is within your reach with understandable descriptions, illustrations and the tools you need to participate. It's designed to give a broad introduction to the subject, while providing the practical fundamentals you need to explore, track and operate ham radio satellites on your own. Topics: History of Ham Radio satellites, Orbits and Tracking, Your satellite ground station, Satellite operating, Satellite projects, Understanding orbits and subsystems..... **ARR 9857**



GPS and Amateur Radio

Explore GPS: its history, how it works, and navigating with a GPS receiver. Also learn how Amateur Radio operators have made use of GPS technology for direction finding and public service.

ARR 9922

LOG BOOKS



LOGBOOK – Full 8.5 x 11", spiral bound. Has 52 log pages with room for 25 contacts per page. Suits all amateur radio operations **ARR 1250**

MINILOG – Convenient 6.5 x 4" size for portable and mobile operation. Has 96 wire-bound log pages, with room for 720 contacts. Designed in the same classic style as the full-size ARRL Log Book, only smaller **ARR 7539**



World of Keys

By the late Dave Ingram, K4TJW – A dazzling collection of the world's prized and exotic keys, new and old: spark, camelbacks, dual polarity, pump, fun keys, rare Vibroplex bugs, motorized, rotary and vertical bugs, triple lever bugs, miniatures and modern keys. Lots of pictures, descriptions and history..... **ING WORLDKEYS**

Keys II: The Emporium

More from Dave Ingram, K4TJW – The World's most admired keys, new/old, many never seen in publication. A sequel to the popular "Keys, Keys, Keys" book published several years ago. Includes hand keys, bugs, fully automatic bugs, paddles, verticals and miniatures..... **ING KEYSII**



OPERATING AIDS



2012/13 Repeater Directory
Choose the original Pocket-sized or Large Easy-to Read Desktop version. Over 20,000 listings for VHF/UHF repeaters, plus repeater operating practices, repeater lingo and hints, frequency coordinators, using CTCSS/DCS tones and more!

Pocket size (3.75 x 5.25 in.).. **ARR 5347**
Desktop size (6 x 9 in.)..... **ARR 5485**

2012/13 TravelPlus for Repeaters™ CD

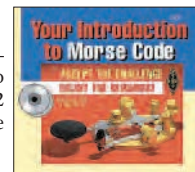
Make TravelPlus for Repeaters™ your traveling companion, and you'll never be alone on the road. Map your travel route and tune in, view and print maps and repeater lists, access The ARRL Repeater Database and USA and Canadian licenses, export data for radio programming, and more! Win XP, Vista, 7..... **ARR 4678**



Your Introduction to Morse Code

Don't just learn the code – master it! Includes two audio CDs with nearly 2-1/2 hours of practice. Learn the Morse Code at 5 wpm.

ARR 8314



Repeater Map Book

15th. Edition - Contains 100's of open repeater locations in the U.S., Canada and Mexico. Detailed maps show all highways and major cities in each state. Grid squares on every U.S. map and NOAA weather frequencies for the U.S.

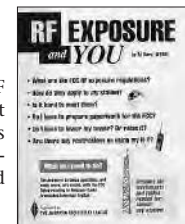
ART REPEATERMAP



HEALTH / SAFETY

RF Exposure and You

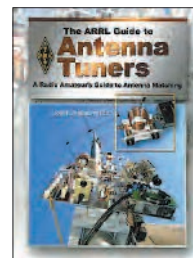
FCC Form 610 includes an RF safety certification that must be signed. This book tells how to meet the requirements. Over 200 tables and graphs... **ARR 6621**



The ARRL Guide to Antenna Tuners

Explore the design, construction and applications of the different types of antenna tuners. Learn a better understanding of your antenna system and how it can be improved through the selection and use of an appropriate antenna tuner.

ARR 0984

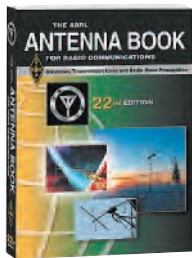


Your Guide to HF Fun

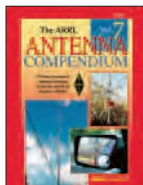
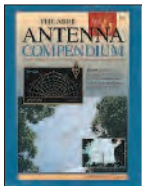
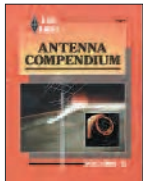
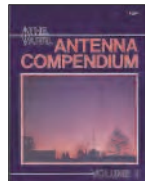
Are you newly licensed, upgraded or returning to amateur radio, or simply wish to expand your horizons? This book is your hands-on guide to HF. The Glitz and Glamour of HF; A Quick Study of HF Transceivers; Setting Up a Safe and Effective HF Station; Selecting, Installing and Tuning HF Antennas; HF Bands Overview; Sound Great and Operate Like a PRO; DXing and Contesting; Mobiling. **ING YOURGUIDEHF**



ANTENNAS



ARRL Antenna Book
22nd Ed. - Design your own antenna system. The source of antenna theory and practical construction projects. Use this book to discover even the most basic antenna designs (wire and loop antennas, verticals and Yagis) and advanced antenna theory and applications. Includes CD-ROM. Choose **SOFTCOVER ARR 6948** or **HARDCOVER ARR 6801**



Antenna Compendium 1
Articles on a multiband portable, quads and loops, baluns, Smith Chart & more. **ARR 0194**

Antenna Compendium 2
Wide range of types and related topics, including innovative verticals, an attic tri-bander, antenna modeling and propagation..... **ARR 2545**

Antenna Compendium 3
New antenna designs, from Allen's Log Periodic Loop Array to Zavrel's Triband Triangle. Discover a 12-meter quad, a discone, modeling with MININEC and VHF/UHF ray tracing..... **ARR 4017**

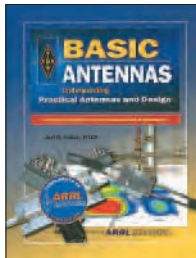
Antenna Compendium 4
Contains 38 articles covering a wide range of topics. There are simple, practical antenna projects, and theoretical treatments of complex arrays. Seven articles devoted to 80 and 160 meters, including large arrays. Articles on mobile work and portable or temporary antennas..... **ARR 4912**

Antenna Compendium 5 with software
Baluns, HF beams, yagis and quads are just some of the subjects covered. Articles on antennas, transmission lines and propagation. Projects to build. Includes antenna modeling software..... **ARR 5625**

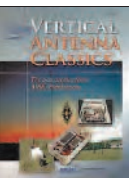
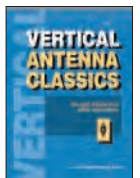
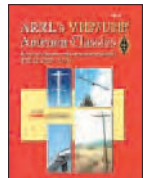
Antenna Compendium 6 with software
More articles on antennas, transmission lines and propagation. More projects..... **ARR 7431**

Antenna Compendium 7
Articles covering antenna related topics including measurements and computations, mobile and multibands, practical tips, propagation and ground effects. This volume includes even more articles on low-band antennas and operating, and great designs for mobile operation. **ARR 8608**

Antenna Compendium 8
60 articles on proven HF and VHF designs from QST. Practical ideas, tips and some of the best antenna projects. HF portable; HF Directional; HF Omnis; VHF/UHF Portable; VHF/UHF Omnis; VHF/UHF Directional..... **ARR 0991**



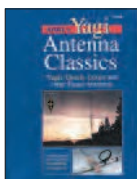
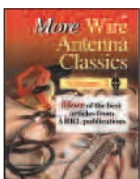
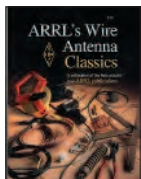
Basic Antennas
Basic concepts, practical designs and details of easy-to-build antennas. Includes: Dipoles, Transmission Lines, Two Element Arrays, Wideband, Multibanders, Loops, Reflector Antennas, HF and VHF, Microwave, Vehicles, Measurements & More... **ARR 9994**



VHF/UHF Antenna Classics
Ground planes, J-poles, mobiles and Yagis. Build a better antenna for an HT. Construct a 2 meter Yagi that rivals commercials. Includes projects from the 1980 to 2003 issues of QST.... **ARR 9078**

Vertical Antenna Classics
Articles from QST and the Antenna Compendium series. Tips and techniques from QST's "Hints & Kinks." Includes vertical antenna theory and modeling, HF/VHF/UHF, directional arrays, radials, grounds and more..... **ARR 5218**

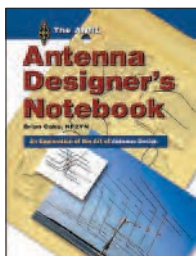
More Vertical Antenna Classics
Designs for a variety of operating preferences, ground systems, portable antennas, phased vertical arrays and more..... **ARR 9795**



Wire Antenna Classics
Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinears, rhombics, wire beams, vertically polarized and receive antennas are all featured, even tree-mounted antennas..... **ARR 7075**

More Wire Antenna Classics
Enjoy even MORE wire antennas! Filled with innovative designs from the pages of QST and other ARRL publications..... **ARR 7709**

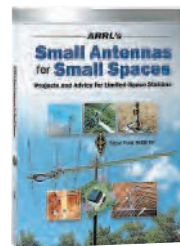
Yagi Antenna Classics
Collection from QST, QEX and others. Provides a historical perspective, novel and ambitious ideas, as well as computer-optimized designs. Chapters on mono/multi-banders, HF, VHF and UHF beams, computer modeling, masts..... **ARR 8187**



Antenna Designer's Notebook
Provides a thorough description of new components of antennas: the FZ element, the C-pole and practical antennas made from them. Explore the details of an improved tunable HF loop, theoretical analysis of linear loading and ground losses, and practical designs for beams and omnidirectional antennas. Includes CD-ROM with EZNEC models for all antennas in the book and info on Boxkite Yagis..... **ARR 1479**

Antenna Designer's Notebook

Provides a thorough description of new components of antennas: the FZ element, the C-pole and practical antennas made from them. Explore the details of an improved tunable HF loop, theoretical analysis of linear loading and ground losses, and practical designs for beams and omnidirectional antennas. Includes CD-ROM with EZNEC models for all antennas in the book and info on Boxkite Yagis..... **ARR 1479**



Small Antennas for Small Spaces
If you don't have the space to erect a regular antenna it doesn't mean you're off the air. Here's a valuable resource for amateurs who live in apartments, condominiums, or houses on small lots. Its filled with practical advice and guides you to finding the right antenna design to fit whatever space you have available. Also learn important tips about feed lines, SWR, RF amplifiers, operating modes and RF safety for maximum results. Projects for VHF and HF antennas you can use inside your home. Outdoor HF antennas for any property include dipoles, inverted-L, end-fed wires, loops, verticals and temporary antennas..... **ARR 8393**

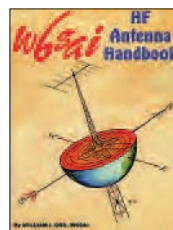
Simple & Fun Ham Antennas

Lots of real-world, practical antennas you can BUILD YOURSELF! 16 chapters on different types of HF, VHF antennas, masts and supports, towers and performance. 70 projects... **ARR 8624**



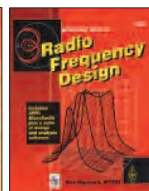
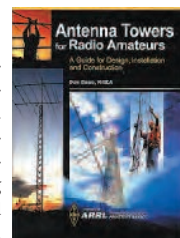
W6SAI HF Antenna Handbook

Lots of inexpensive, practical projects that work. Great guide for constructing loops, yagis and vertical antennas. **CQX W6SAHFANT**



Antenna Towers for Radio Amateurs

Practical information for planning, installing and maintaining an amateur radio tower. Discusses the skills, tools, climbing techniques and safety measures. Selecting a tower, digging the base, pouring concrete and installing the tower, antenna and accessories. Tips for working with rope and pulleys, guy wires and hardware. Also proper procedures for removing existing towers. **ARR 0946**



Understanding Basic Electronics, 2nd Edition
A step-by-step guide to electricity, electronics and simple circuits. Your gateway into the exciting world of electricity and electronics. Written in a easy-to-understand style that beginners and non technical readers will enjoy... **ARR 0823**

Basic Radio - Key Building Blocks

A comprehensive introduction to radio - what it does, and how it does it. The key building blocks of radio: receivers, transmitters, antennas and build-it-yourself projects turn theory into practice and help reinforce important subjects..... **ARR 9558**

Introduction to Radio Frequency Design

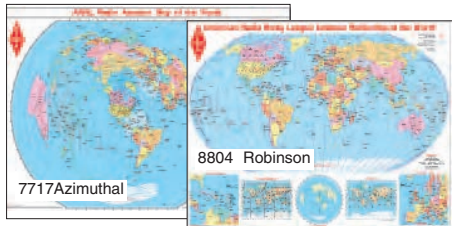
The functional methods of frequency design using math as needed to develop RF circuits and systems. Many simple circuit models prepare you to actually design HF to UHF equipment.. **ARR 4920**

MAPS / ATLAS / GRIDS/ATLAS



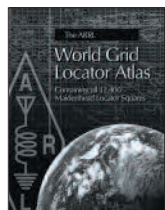
ARRL Amateur Radio Map of North America

This large, colorful wall map features current geographic detail and labels, grid squares, call sign prefixes, boundaries and more. Great for all operators! Essential for contesters, WAS, VHF/UHF Century Club, Grid Chasers and other award seekers. Also makes a great hurricane tracking map. Dim: 27 x 39 in., durable plastic laminated.. **ARR 8977**



ARRL World Maps

Each colorful map features current geographic detail and world-wide call sign prefixes. **Azimuthal Projection** is centered on the central USA and is useful for antenna beam headings. Dim: 27 x 39 in., laminated. **Robinson Projection** is the popularized classroom-style projection map. Dim: 26 x 34.5 in., laminated... **ARR 7717 / ARR 8804**



The ARRL World Grid Locator Atlas

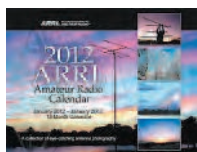
Information on the locator system and maps showing all 32,400 grids **ARR 2944**

Radio Amateur's World Atlas

16 pages of color maps of the Americas, West Indies, Asia, Japan, Australia, Pacific Ocean, Europe, Africa, Antarctica **ARR 5226**

MFJ PUBLICATIONS

- 3036** Packet Operators Handbook.
- 3101** Fox Hunt Adventure.
- 32** Packet Made Easy.
- 33** Modern Amateur's Mobile Handbook.
- 3301** Trouble Shooting Antennas & Feedlines.
- 3302** 73 Dipole & Long Wire Antennas.
- 3303** 73 Vertical, Beam & Triangle Antennas.
- 3305** Antennas and Transmission Lines.
- 3400** Morse Code: Breaking the Barrier.
- 3502** Solid State QRP Projects.
- 3506** Ferromagnetic Core Design & Apps.
- 3507** Practical RF Design Manual.
- 3509** Ladder Crystal Filters.
- 36** Shortwave Listener's Guide.
- 37** Ham Radio Communications Circuit Files.
- 38** Easy-Up Antennas.



ARRL
Deluxe 13 Month
Wall Calendar
1/2012 - 1/2013
ARR 6290
CLOSEOUT

HISTORY / ARCHIVES



ARRL Periodicals on CD

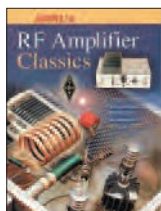
Complete text and illustrations for all articles in QST, QEX and NCJ. Includes search engine, book-marking, printing, software project source code, PC board etching patterns and clipboard. Info presented by title, name, call sign, keyword. Individual Windows™ CDs by year:

ARR 5579 (1995) **C/O • 6109** (1996)
6729 (1997) • **7377** (1998) **C/O • 7881** (1999)
8209 (2000) • **8632** (2001) • **8802** (2002)
9124 (2003) • **9396** (2004) • **9574** (2005)
9841 (2006) • **1204** (2007) • **9406** (2008)
1486 (2009) • **2001** (2010) • **5651** (2011)

QST Views

Issues of QST available in full years on CD-ROM. Every page is stored as a black and white image that can be read or printed. Search by title and author; Select by year and issue and browse individual articles. Five years per CD.

5781 (1970-74) • **5773** (1975-79)



RF Amplifier Classics

Amplifiers for the HF, MF, VHF and Microwave bands. Practical designs and construction details for classic tube and solid-state amplifiers from 5W to 1.5kW.

ARR 9310

Vintage Radio – A collection of QST articles (1977-2003) describing vintage equipment and interesting points of Amateur Radio history that will evoke a sense of nostalgia. Includes classic QST advertisements from the 1920s to the '70s. **ARR 9183**



200 Meters & Down – The Story of Amateur Radio by Clinton B. DeSoto. Chronicles the exciting evolution of Amateur Radio from the pioneers who perfected the wireless art through the technical advances of the mid-1930s.

ARR 0011

Ham Radio Anthology

Homebrewing techniques from the pages of *Ham Radio Magazine* (1968-90). Practical advice and techniques for many interesting projects. 170 pages, presented as originally published.

CQX HRANHOMEBREW



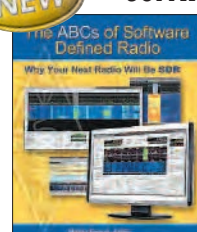
Current issues of Monthly Magazines



CQ Magazine..... **CQX CQ**
Electric Radio..... **ELE CTRICRADIO**
Monitoring Times.... **GRV MONITORTIMES**
Nuts & Volts..... **NUT NUTS&VOLTS**
Popular Communications **CQX POPCOMM**
QEX Magazine..... **ARR QEX**
QST Magazine..... **ARR QST**



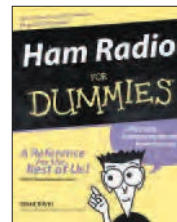
SOFTWARE DEFINED RADIO



The ABCs of Software Defined Radio

The ABC's of Software Defined Radio is an introductory guide to SDR and Digital Signal Processing (DSP) technologies. Written in a friendly style, it offers a straightforward look inside SDR and provides a foundation for those who want to understand the subject on a more fundamental level. As you read, you'll discover the basic principles of SDR, advantages to SDR technology, and ways to utilize it in Amateur Radio operations..... **ARR 6320**

"FOR DUMMIES" Books



Ham Radio for Dummies – Thoroughly explains Ham Radio. What is needed to get started, and how to become a licensed ham operator in plain english. **Chapters:** *What is Ham Radio All About?, Wading through the Licensing Process, Hamming it Up, Building & Operating a Station That Works and Secrets & Tips* **WIE HRFORDUMMIES**



Weather for Dummies – Explanations about meteorological concepts, from storms, jet streams, tornadoes and El Niño. Activities you can do at home. Smog, the greenhouse effect and many other topics. **WIE WXFORDUMMIES**

POCKET REFERENCE BOOKS

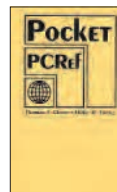
POCKET Ref, 4th Edition

New 4th edition with 864 pages of information for craftsmen, students, teachers, engineers, do-it yourselfers and travellers. Packed full of tables, maps, formulas, constants and conversions. A concise all-purpose guide covering chemistry, physics, electrical, electronic formulas, math, metric conversion, mechanical data, hardware, mapping, worldwide telephone area codes, tools, currency, metals, weights, perpetual calendar, science and more..... **SEQ POCKETREF**



POCKET PCRef, 14th Edition

Over 1,000 pages of hard to find information for IBM PC's and compatibles. Includes: PC Memory Modules; Language Abbreviations; Unicode Standard; History of Personal Computers; Hard Drive Specifications for 6,321 drives with Manufacturer Directory; Windows Command Reference for NT, 2000, XP, Vista, Win 7, and basics for Servers 2003, 2005, 2008; Windows Keyboard Shortcuts from Win 95 through Win 7; CD-ROM Drive Specifications with Manufacturer Directory; Glossary with over 3,000 acronyms and definitions; CPU identification; Troubleshooting Tools & much more! **SEQ POCKETPCREF**



Complete FCC
U.S. Amateur Part 97 Rules
and Regulations
WSY PT97



19DX IV Compact AM Mobile CB Radio
Compact design; Full function LCD display; Instant channel 9/19; RF gain/squelch control; Combination S/Rf meter; Channel Indicator; TX indicator; CB/PA switch; Mobile bracket.
Dim: 4.5" w x 1.75" h x 7.25" d; 2.1 lbs.

Cobra
CB RADIOS



148GTL AM & SSB CB Radio – Full featured, 4W on AM and 12W on SSB, the maximum allowed by law. 40 AM and 80 SSB channels; Dual conversion AM receive; Adjustable Dynamike; Illuminated S/Rf/SWR meter; Switchable ANL/NB; PA capability; three-position tone switch; 2-color RX/TX indicator. Dim: 7.8" w x 2.3" h x 9.2" d; 5 lbs.



25LTD AM Mobile CB Radio – 40 channels; 4W RF output; Adjustable Dynamike boost; Instant channel 9; RF gain control; Switchable noise blanker; Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile controls. Dim: 6.3" w x 2.2" h x 8.6" d; 4 lbs.

29LTD AM Mobile CB Radio – Same look and basic features as the 25LTD but includes: Delta tune; Switchable ANL/Noise blanker; CB/PA switch; Antenna warning LED indicators; S/Rf/SWR meter. Dim: 7.25" w x 2.2" h x 8.6" d; 4 lbs.



Night View Day View

25WXNW ST AM Mobile CB Radio – Same as 25LTD but with NightWatch™ & Weather.

29NW AM Mobile CB Radio – Same look and basic features as the 29LTD but no Delta tune; Includes NightWatch™ fully illuminated display; Variable dim control; Tone control; Instant channel 9/19. Dim: 7.25" w x 2.2" h x 8.6" d; 4 lbs.

29WXNW ST AM Mobile CB Radio – Same look and basic features as the 29NW but: has SoundTracker™ system, 7 NOAA weather channels with Weather Alert tone.



HH-ROAD TRIP AM Handheld CB Radio – Keep in vehicle for emergencies, inter-vehicle communications and to receive the latest weather information. SoundTracker® system cuts noise up to 90% and 4W of power gives up to 4 miles range. High/low power switch. Operates on 9 "AA" Alkaline/NiCads or from vehicle battery with the included DC cord and cigarette plug. Includes magnet mount mobile antenna. Dim: 2" w x 6.75" h x 1.75" d.

75WX ST Compact/Remote AM CB Radio – 40 CB channels and 10 Weather channels. A remote box installs out of sight and connects to the microphone with controls and full featured LCD display. Dual watch and full channel scan; Instant channel 9; Four memory channels; Key lock. Dim: 2.7" w x 4.2" h x 1.8" d; 1.85 lbs.



MICROPHONE

HGM-77 Noise Cancelling Microphone – Designed for CB users who want to step up from their stock microphone. Features 9' High-Flex™ cord, Wire mesh grille, Heavy-duty ABS shell and 4-pin connector.

CB ANTENNAS

COBRA

HGA-1000 – Base loaded magnet mount mobile antenna with coax and connector.

HUSTLER

HQT – A 55 in. top loaded whip with mirror mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome with a white coil.

HQ-27M – A 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil.

1C-100 – 44 in. base loaded white magnet mount antenna (**1C-100B** is black mount).

1C-11 – 42 in. base loaded white trunk mount antenna (**1C-11B** is black mount).

LARSEN

NMO-27C – Base loaded mobile, less mt.

NMO-27B – Same but black.

NMO-TLP – Low-profile trunk mount for the NMO-27C. 17 ft. coax and PL-259.

NMO-MMR – Magnet mount for NMO-27C. Comes with 12 ft. coax & PL-259.

More CB antennas are available from Hustler. Please check their CB section in the Price Guide.

MIDLAND

18-258 – Through Window Mount Mobile CB Antenna. Overall length: 25-1/4 in. Includes coax & PL-259 connector.

SOLARCON

A-99 – Base Antenna. Three-piece fiberglass design uses a 1/2-wave over a 1/4-wave section. Tunable, 3dB gain. Length: 17 ft. 8 in.

GPX-1 – Ground plane kit for the Solarcon A-99 antenna. Adds 30% more power gain and produces a lower angle of radiation.

K40

K30 – 35" whip base loaded 4" magnet mount with 15' RG-58 coax & PL-259 connector.

K40 – 57.25" whip base loaded trunk or roof mount w/18' RG-58 coax & PL-259 conn.

M40 – Magnet mount for K40 antenna.

W40W – White weather cap for K40 ant.

Super-Flex Whips – Can bend up to 180 degrees and handle 1500W AM. Fits all 3/8" x 24 thread mounts. 5-Year Limited Warranty!

SF-400 – 4' Black fiberglass whip.

SF-400W – 4' White fiberglass whip.

uniden
CB RADIOS



PC-68XL 40-Channel CB Radio – Front microphone jack; Backlit controls; S/Rf meter; Channel indicator; Dynamic squelch control; TX/RX indicator; Instant channel 9; RF and microphone gain; PA mode. Dim: 7.6" w x 2.6" h x 8.9" d; 3 lbs.

PC-68LTW – Same basic features as the PC68XL but with NOAA weather receive and alert.



PC-78XL 40-Channel AM Mobile – PLL synthesized; Instant channel 9; Dynamic Squelch Control; Microphone and RF gain; Delta tune; Noise blanker; Automatic noise limiter; PA/CB switch; Dimmer control; TX/RX LEDs; Antenna warning LED. Dim: 7.25" w x 2.38" h x 8.63" d; 4 lbs.

PC-78LTW – Same basic features as the PC78XL but with NOAA weather and alert.



PC-78 ELITE 40-Channel CB with Ergonomic Pistol Grip Microphone – Combines CB and a 7 channel Weather Radio with Alert. Enhanced night vision display; Instant Channel 9; S/Rf/SWR meter; RF and microphone gain; Delta tune. Switches for: S/Rf/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and dynamic squelch control. Dim: 7.6" w x 2.6" h x 8.9" d; 4.18 lbs.

PC-68 ELITE – Same basic features as the PC-78 Elite but no Delta tune and SWR meter. Dim: 6.2" w x 2.1" h x 5.4" d; 3.68 lbs.



PRO-510XL Compact 40-Channel AM Mobile Incorporates state-of-the-art microelectronics into a sophisticated Euro-styled 2-way CB unit. Front mounted microphone, ANL Switch, S/Rf LED meter. Dim: 4.5" w x 1.4" h x 7.5" d; 3 lbs.

PRO-520XL Compact 40-Channel AM Mobile Looks like 510XL. Instant channel 9 access; 4-segment S/Rf meter; TX LED; LED channel indicator; RF gain; PA switch; Automatic noise limiter. Dim: 4.5" w x 1.38" h x 6.8" d; 1.6 lbs.

PRO-538W 40-Channel AM Mobile – Includes 3 weather channels. RF gain control; PA/CB switch; Instant channel 19; TX/RX indicator; Front speaker. Dim: 6.8" w x 2" h x 8.3" d; 2.6 lbs.

Shakespeare®

VHF MARINE ANTENNAS

CLOSEOUTS – Limited Quantity!



4187

4187 Ratchet Mount – Stainless steel. Versatile four-way ratchet design with handle for deck or bulkhead mounting. Quick-action makes operation easy. Special cable pass through slot. Standard 1 in. x 14 male threads.

396-1 Center-fed 1/2-wave Coaxial Sleeve Antenna – A basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount.

396-1



420

420 Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna – Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259.

5206-C End-fed Antenna, Matching Stub – Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount.



5206-C

5202 Collinear-phased 5/8 Wave Elements – A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount.



5215

5215 Squatty Body™ VHF Marine Antenna – A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount.



ICOM

MARINE RADIO

IC-M72 VHF Marine Handheld – More Power, now 6 Watts! Covers All International, USA, Canadian and Weather channels. Auto scan function (starts when no signal received); Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. AquaQuake draining function emits a vibrating sound and clears water away from the speaker grill. Large capacity 2000mAh Lithium-Ion Battery. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 4.90"h x 2.06"w x 1.8"d; 9.9 oz.

Available Accessories:

CP17L Right angle cigarette cable for charger, HS94 Earpiece headset, MB86 Swivel belt clip, OPC478 PC RS232 cable, OPC515L Right angle DC cable for charger, VS1 Votter for HS94



AIRCRAFT RADIO

A-24 NAV/COM Handheld

Easy to operate featuring a large, clear LCD. The large keypad provides user friendly operation. Stores the last 10 channels used and is easy to recall those channels by pushing the "flip-flop" recall buttons. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from the VOR station. You can also input your intended radial to/from the VOR station and show the course deviation on the display. ANL (auto noise limiter) for noise reduction. RX: 108-136.975 MHz, WX: 161.650-163.275 MHz, TX: 118-136.975 MHz; Output power: 5W PEP, 1.5W carrier. Dedicated 121.5 MHz emergency key. NOAA weather channels. Side tone function allows you to hear your own voice via an external aviation headset. Convenient for carrying with supplied belt clip. Water resistant, IPX-4 grade, allows safe operation in rain. 200 alphanumeric memories; PC programmable. Includes long life 1650mAh battery pack. Dim: 5.1"h x 2.1"w x 1.4"d; 15.2 oz.

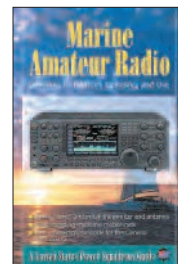
Available Accessories:

AD101 Adapter cup for desk charger, BC144N Rapid desk charger, BP208N 6 cell AA Battery case, BP210N 7.2V 1650mAh battery, MB103 Spring belt clip, MB86 Swivel belt clip, OPC474 Radio-radio clone cable, OPC478 PC RS232 cable

MARINE RADIO INFORMATION

Marine Amateur Radio

Select, install, and operate a dependable ham radio system on any boat. Explains how to use your radio for Voice or CW communications, check and send e-mail, link up with onshore signal repeaters to extend your range and make telephone calls..... **ARR 9723**



Checkout our Open Carton and Used Equipment we have for sale online at:

www.AESHAM.com

Used Gear:

- Fully Service Tested
- 10 Day Trial (pay only shipping charges)
- 30 Day Guarantee
- Full Trade-in Credit within 90 Days on Higher Priced New Equipment

Open Carton:

- Fully Service Tested New Demonstrator or Display Equipment
- Repacked in Original Cartons
- Manufacturer's Warranty

Gift Certificates
available from all
AES locations & online!

ORDER ON-LINE!



We accept I.M.P.A.C.® Government Credit Cards

USE YOUR CREDIT CARD



FOLLOW US ON TWITTER!

twitter.com/**K9AES**

SEE THE LATEST DEALS AND NEW PRODUCTS

WE WANT TRADE-IN RADIOS!

Tell us what HAM equipment you have to trade...

Icom,
Kenwood & Yaesu

1-800-558-0411

Sorry, no
Handhelds

Also check out our Open Carton & Used Equipment list Online!



PSR-800

PSR-700 EZ Scan-SD

Analog Trunking Scanner

Introducing the new age of scanners! Uses a 2GB SD memory card that is preloaded with the entire USA Radio Reference database. So you don't have to program it to use it! Has the ability to track Motorola type I/II systems, LTR and EDACS trunking systems with the information on that 2GB SD Card. Covers 25-54, 108-174, 216-512, 764-824, 849-868, 894-960 & 1240-1300 MHz. Comes with a BNC antenna, PC USB cable, 2GB SD memory card, User's Guide and CD-ROM software that allows you to upgrade the firmware, update the Radio Reference database, format or prepare an SD card and manipulate objects and playlists (scan lists). Other features include CTCSS & DCS sub-audible decoder; SAME Weather Alerts; Spectrum Sweeper. Operates on 2 "AA" batteries (not included). Dim: 2.4"w x 5.5"h x 1.1"d; 6.7 oz. **C/O**

PSR-800 EZ Scan Digital P25 Trunking Scanner

Similar to PSR-700 but scans both analog and digital trunked systems including P25, Motorola Type I/II/Hybrid, EDACS and LTR. Covers 25-54, 108-174, 216-512, 764-782, 791-799, 806-960 (cell blocked), 1240-1300 MHz. Comes with a BNC antenna, USB cable, 2GB MicroSD card, Belt clip and CD-ROM.

GRE ACCESSORIES

100-014 Cigarette DC Adapter – For GRE PSR-100/300/310/500.

100-001 800 MHz Antenna – BNC antenna designed for trunking reception.



DIAMOND ANTENNA

D-130J Base Discone – Covers 25 to 1500 MHz RX, 50-1300 MHz TX (6M tunable for transmit); Max Power: 144 MHz and up is 200W, 50 MHz is 20W FM/50W PEP; 5.6 ft high; 2.2 lbs; UHF connector.

D-130NJ With N Connector.

D-3000N Super Discone – Receives 25-3000 MHz; Transmits 50-1300 MHz (6M tunable for transmit); Max Power: 144 MHz and up is 200W, 50 MHz is 20W FM/50W PEP; Height 67"; Type-N connector.

DISCONE ANTENNAS

D-3000N



ANALOG & DIGITAL SCANNERS



PSR-100



PSR-310



PSR-500

PSR-200



PSR-410



PSR-600



PSR-100 Handheld Scanner – Frequency coverage 29-54, 108-174 & 380-512 MHz. Five pre-programmed bands: Marine, Fire/Police, Air, Amateur and Weather. Priority channel. 200 memories in 10 banks, SAME Weather alert with 10 FIPS area code memories and Skywarn function. Key lock for safety. Ten-digit channel and frequency display with all function indicators. LCD backlighting. PC programmable with cloning capability. External 9V DC power charge jacks, 3.5mm stereo earphone and cloning jacks. Includes flexible BNC antenna, belt clip, AC adapter, alkaline battery holder and rechargeable battery holder. Requires (4) AA cells (not supplied). Dim: 2.48"w x 5.7"h x 1.57"d; 7.7 oz.

PSR-200 Base Scanner – Affordable, with innovative features. Frequency coverage 29-54, 108-174, & 380-512 MHz. 200 memories and five pre-programmed bands for Marine, Fire/Police, Air, Amateur and Weather. Priority channel. Weather capability features SAME technology with 10 FIPS area memories and a Skywarn function. Scanning at 45 channel per second and sweeps at 80 steps per second. Up or Down search. Backlit LCD. Supports programming by a PC and unit-to-unit cloning. Rear panel 3.5 mm earphone jack. Includes a screw-in telescopic antenna and AC adapter. Dim: 8.27"w x 6.89"h x 2.36"d; 1.54 lbs.

PSR-310 Triple Trunking Handheld Scanner – Coverage: 25-54, 108-174, 216-512, 764-781, 791-796, 806-823, 849-868, 894-960 and 1240-1300 MHz. Frequency steps: 3.125, 5, 6.25, 7.5, 8.33, 10, 12.5 and 25 kHz. 10 banks and 1000 channel memories. Upgradable CPU firmware supports future rebinding. Multi-system trunking: Motorola, EDACS Standard/Narrow and LTR. Talkgroup call and individual call monitoring are supported. CTCSS and DCS sub-audible encoded squelch modes. Spectrum sweep function detects nearby unknown signals. Five pre-programmed band searches: Marine, Fire/Police, Air, Amateur and Weather. SAME Weather alert capability plus Skywarn function for monitoring storm spotter networks. Multi-color LED display can be programmed to illuminate or flash when certain objects are active; real-time S-meter. Comes with a flexible BNC antenna, manual, AC adapter, alkaline and rechargeable battery holder. Uses (4) AA cells (not supplied). Dim: 2.3"w x 5.75"h x 1.7"d; 8.5 oz.

PSR-410 Triple Trunking Desktop/Mobile Scanner – Covers 25-54, 108-174, 216-512, 764-781, 791-796, 806-823, 849-868, 894-960 and 1240-1300 MHz. Includes the new 700 MHz band and 380 MHz Federal band. Upgradable CPU firmware for future rebinding. Multiple frequency steps. SAME weather alert capability with 10 FIPS area memories plus a Skywarn function for monitoring storm spotter networks. Five pre-programmed band searches: Marine, Fire/Police, Air, Amateur and Weather. Ten banks and 1000 channel memories for trunking bank and channel combined conventional mode memories. Multi-system trunking capability scans most common trunked radio system signaling formats, including Motorola, EDACS Standard, EDACS Narrow, and LTR trunked radio systems. Talkgroup call and individual call monitoring are supported. CTCSS and DCS sub-audible encoded squelch modes. Spectrum sweep function detects nearby unknown signals. Scans at 55 channels per second and sweeps at 90 steps per second. The full dot matrix bitmap LCD display has a real-time S-Meter. Includes BNC telescopic antenna, manual, mounting bracket, AC adapter and DC power cord. Dim: 7.25"w x 2.25"h x 5.3"d; 2.68 lbs.

PSR-500 Handheld Analog/Digital Trunking Scanner – Uses an intuitive Object Oriented User Interface for ease of use. Frequency Coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Spectrum sweeper function seeks out nearby RF sources. Supports Motorola Analog, EDACS, LTR and Digital APCO (9600 bps) trunking systems. CTCSS and DCS subaudible squelch coding. Weather alert function with SAME technology and SKYWARN features. 1800 memory channels. Save complete radio configurations within the radio for recall into main memory as needed. Supports Talkgroup and individual call monitoring. With P25 digital systems, Automatic Adaptive Digital Tracking adapts the digital decoder to the modulation format, then analyzes the signal and adjusts any subtle changes caused by multipath or fading without manual intervention. The large backlit LCD displays four lines by 16 characters. Backlit keypad and programmable, multi-colored super bright LED; program the color for the channel received. Operates from four AA cells (not included) or external 9V DC. Includes BNC antenna, USB PC cable, belt clip AC adapter, and one alkaline and one rechargeable battery case. Dim: 2.56"w x 5.71"h x 1.65"d; 8.5 oz.

PSR-600 Advanced Trunking Scanner – Frequency coverage 25-54, 108-174, 216-512, 764-821, 849-868, 894-960 & 1240-1300 MHz. Includes 1800 memories that may be dynamically structured to bank sizes you prefer. The large backlit LCD displays four lines by 16 characters. Backlit keys. Supported trunking systems include Motorola Analog, EDACS, LETS and Digital APCO (9600 bps). Weather alert function, SAME technology and Skywarn features. A spectrum sweeper function seeks out nearby RF sources. Operates from 13.8V DC. Includes telescopic BNC antenna, USB PC Interface Cable, AC adapter, DC power cable and DIN-E car installation mount. Dim: 7.4"w x 2.4"h x 5.6"d; 2.7 lbs.

News as it happens! Tune in Police, Fire, Public Service, Ham Radio, Military, Weather, Racing and more! A selection of Handhelds, Base/Mobiles to fit your needs.

uniden® Bearcat® Compact Handheld Scanners



BC-72XLT Compact Handheld Scanner (Great for NASCAR!) – 100 Channels / 10 Banks; Covers the bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather and more! Covers 25-54, 108-174 & 406-512 MHz; 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display; Priority Scan frequently scans the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; Sport Scanner; Public Safety Scanner; 2 AA battery operation: Alkaline or Rechargeable (batteries can be charged while in the scanner). Dim: 2.75" w x 4.5" h x 1.75" d; 6 oz.

BC-95XLT Compact Handheld Scanner with 800 MHz Coverage (Great for NASCAR!) – 200 Channels / 10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather and more! Covers 25-54, 108-174, 406-512 & 806-956 MHz (excluding Cellular); 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan frequently scans the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; Sport Scanner; Public Safety Scanner; 2 AA battery operation: Alkaline or Rechargeable (batteries can be charged while in the scanner); PC Programmable (USB or Serial Cable sold separately & Software is available at www.uniden.com). Dim: 2.75" w x 4.5" h x 1.25" d; 6 oz.

BC-346XT TrunkTracker III Compact Handheld Scanner – Frequency Coverage 25-225, 400-512, 806-960 & 1240-1300 MHz (excluding Cellular); TrunkTracker III (EDACES, Motorola & E.F. Johnson); 9,000 Dynamically Allocated Channels; Location-Based Scanning*; Location Alerts*; Crows-Flight Navigation*; Close Call™ RF Capture Technology instantly tunes nearby signals; Fire Tone-Out; Alpha Tagging; 100 Quick Key System Access; Band Scope graphically finds radio activity; Temporary Lockout; Search with Scan; DCS/CTCSS Rapid Decode instantly detects and displays the Subaudible Tone so you can quickly determine the System's Settings; S.A.M.E. Weather Alert: Specific Area Message Encoding - During a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; Public Safety Scanner; System / Channel Number Tagging provides rapid access to a specific system or channel; Individual Channel Volume Offset, Priority ID Scan on trunked systems; PC Programming/Control capable*. Dim: 2.4" w x 5.3" h x 1.2" d; 6 oz.

BCD-396XT TrunkTracker IV APCO 25 Compact Handheld Digital Scanner – Frequency Coverage 25-225, 400-512, 806-960 & 1240-1300 MHz (excluding Cellular); TrunkTracker IV (Motorola APCO 25 Digital, EDACES, Motorola & E.F. Johnson); 25,000 Dynamically Allocated Channels; Location-Based Scanning*; Location Alerts*, Crows-Flight Navigation*; Close Call™ RF Capture Technology instantly tunes signals from nearby transmitters; Fire Tone-Out; Alpha Tagging; 100 Quick Key System Access; Band Scope graphically finds radio activity; Audio AGC; Automatic Digital Threshold Adjustment; Temporary Lockout; Search with Scan; DCS/CTCSS Rapid Decode instantly detects and displays the Subaudible Tone so you can quickly determine the System's Settings; S.A.M.E. Weather Alert: Specific Area Message Encoding - During a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; Public Safety Scanner; System / Channel Number Tagging provides rapid access to a specific system or channel; Individual Channel Volume Offset, Priority ID Scan on trunked systems; PC Programming/Control capable*. Dim: 2.4" w x 5.35" h x 1.22" d; 6 oz.

Available Accessories: NIF MMBCD396XT Nifty mini manual

*Compatible GPS Required (not included) *Comes with a RS-232 PC Serial cable. For USB the Uniden USB-1 cable is sold separately from Uniden. Some software is available for free and some for purchase online.

uniden® SCANNERS



HOME PATROL Easy To Use Pre-Programmed Scanner – Revolutionary! Simply enter a Zip Code via the full-color 3-1/2 in. LCD touch screen, press <ENTER> and instantly start hearing local scanner communications (conventional and trucked, analog and digital). If you have a compatible GPS, you can plug it in to the Homepatrol and it will update the frequencies for the area you are travelling in. The 2GB micro SD card will store your favorite frequencies and record intercepts. Coverage: 25-54, 108-512 and 758-960 MHz (less cellular). Modes: AM, FM and FM Wide. Systems: TrunkTracking EDACS (N/W), LTR, Motorola (analog/mixed/digital) and APCO P25 (trunked and conventional). Includes: AC adapter, rechargeable AA cells, and USB cable. Learn more at www.HomePatrol.com
Dim: 5.5" w x 3.25" h x 1.3" d; 15.9 oz

BC-340CRS Clock Radio Scanner with 100 Channels in 10 Banks – Covers: 0.53-1.7, 25-54, 88-174, 406-512 MHz. Service Search; Weather Scan; AM/FM Broadcast; Alarm Clock with Snooze; Public Safety Scanner. Comes with telescopic antenna, AM loop antenna and AC adapter.
Dim: 8.2" w x 3.1" h x 5.8" d; 1.4 lbs.

BC-370CRS Atomic Clock Radio Scanner with 300 Channels in 10 Banks – Covers: 0.53-1.7, 25-54, 88-174, 225-380, 406-512, 806-956 MHz (excluding cell). All Hazard alert; Atomic Clock; Service Search; Weather Scan; AM/FM Broadcast; Alarm Clock w/Snooze; Public Safety Scanner. Comes with telescopic antenna, AM loop and AC adapter.
Dim: 8.2" w x 3.1" h x 5.8" d; 1.4 lbs.



BC-355C 800 MHz Base or Mobile Scanner Coverage: 25-54, 108-174, 406-512 & 806-956 MHz (cell blocked). 6 Preprogrammed service banks; 13 preset search bands; 300 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; Luminescent backlit LCD screen; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Comes with Telescoping antenna, Fixable mobile antenna, AC adapter, Cigarette lighter adapter & DC power cord.
Dim: 5.2" w x 1.6" h x 5.75" d; 1.4 lbs.



BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 Priority Channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state (except HI); 100 cps scanning with lockouts; Priority scan; BearTracker™ Warning System; Backlit LCD. Comes with AC adapter, DC power cord, cigarette lighter adapter, telescopic antenna, window mount antenna and mobile bracket. Dim: 7" w x 2.5" h x 6" d; 4.9 lbs.



BCT-15X BearTracker™ Mobile Trunking Scanner with GPS Support (GPS not included) The GPS feature, when enabled, provides automatic system selection, permitting the scanner to turn system reception on or off depending on the user's location, and allows customizing the scanner's display to show location-based information. In addition, the GPS feature will send alerts at areas of special interest, such as dangerous intersections, school zones, or points of interest. The BCT15X also offers Uniden's unique BearTracker system, which alerts mobile users to public safety activity in their area as well as Close Call® RF Capture Technology that automatically locks onto nearby signals with no programming necessary. This model supports these TrunkTracker III systems: Motorola Type I/II/III Hybrid, EDACS and LTR analog trunk systems. Covers: 25-512, 758-824, 849-869, 894-960, 1240-1300 MHz. Expanded 9000 memory channels with up to 500 channels per trunked system. 100 system Quick Keys. Enhanced GPS compatibility (controls the scanning of groups of channels within systems), channel number tagging, Fire Tone-Out Search (identifies the tones used on fire paging dispatch channels), band scope, individual channel volume offset and priority ID scan for trunked systems. PC Programming/Control capable* (see previous page). Comes with: AC Adapter, Cigarette Adapter Power Cord, DC power cord, Mounting bracket, Telescopic BNC antenna, PC RS-232 Serial Cable and Owner's Manual on CD. Dim: 7.2" w x 2.2" h x 5.9" d; 3.4 lbs.



BCD-996XT TrunkTracker IV Mobile Scanner with GPS Support (GPS not included) TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Covers: 25-512, 758-824, 849-869, 894-960, 1240-1300 MHz; 25,000 Dynamically Allocated Channels; Close Call™ RF Capture Technology - Instantly tunes to signals from nearby transmitters; Location-Based Scanning (optional GPS required); Alpha Tagging; 100 Quick Key System Access; DCS/CTCSS Rapid Decode. Supports P25 Conventional channels that include NAC and TGID user differentiation; Independent GPS Control of Sites and Channel Groups (optional GPS required); Fire Tone Out Search - built-in frequency counter displays the received tones; Band Scope - gives a graphic representation of signal activity; NAC decoding; System / Channel Number Tagging - provides rapid access to a specific system or channel; Individual channel volume offset; Channel Alert (both tones and backlight color); Audio (AGC) Automatic Gain Control; PC Programming/Control capable* (see previous page). Comes with: AC adapter, Cigarette adapter Cord, DC cord, Mounting bracket, Telescopic BNC antenna, PC RS-232 serial cable and Owner's Manual on CD. Dim: 7.2" w x 2.2" h x 5.9" d; 3.4 lbs.

Available Accessories:
NIF MMBCD996XT Nifty mini manual

ICOM RECEIVERS

R-6-16 Wideband



Handheld Receiver - Covers 100 kHz to 1309.995 MHz (cellular blocked) in these modes: AM, FM Narrow and FM wide. The triple conversion circuit provides amazing sensitivity for the size. It has 1300 alphanumeric memories which can store: frequency, mode, step size, duplex and offset information, CTCSS tone, tone squelch and skip settings. Scans frequencies up to 100 channels per second with 7 different scan formats available. It features a large backlit LCD display. Enjoy 150 mW loud audio with internal speaker. Energy efficient, up to 15 hours of continuous receive capability with two AA cells (not supplied). This radio comes with a wrist strap, belt clip and SMA flexible antenna. Dim: 2.3" w x 3.4" h x 1.2" d; 7 oz.

Available Accessories:

AD92SMA SMA to BNC adapter, CP18A Cigarette lighter cable, CSR6 Programming software, CT17 RS-232 computer interface, HP4 Lightweight headphones, LC146A Carrying case, OPC474 Radio-to-radio cloning cable, OPC478 RS-232 programming cable, OPC478U USB programming cable, SP13 Earphone plug



RX-7-05 Wideband Handheld

Receiver - Covers 150 kHz to 1300 MHz (cellular blocked) with AM, FM Narrow and FM Wide modes. Has a total of 1650 alphanumeric memories. An independent search button automatically searches pre-programmed frequency ranges. Simple, 4-way cursor buttons provide quick navigation to menus and settings. Pre-set memory channels as well as a new memory management system will allow grouping of frequencies into your favorite categories or groups. It features a large, backlit dot matrix display. High speed scan & search at 100 channels per second, CTCSS/DTCS decode and VSC (Voice Squelch Control). Built-in RF-gain control, attenuator and auto power save. Earphone antenna for FM broadcast receive & ferrite bar antenna for AM. Rain resistant. External DC power jack. Comes with 1100mAh Li-Ion battery, charger and belt clip. Dim: 2.25" w x 3" h x 0.9" d; 7.1 oz.

Available Accessories:

AD92SMA SMA to BNC adapter, BP244 3.7V 1100mAh lithium battery, BP262 "AA" battery case, CP18A Cigarette lighter cable, CSR7 Programming software with USB cable, CT17 RS-232 computer interface, HP4 Lightweight headphones, LC170 Carrying case, OPC474 Radio-to-radio cloning cable, OPC478U USB programming cable, SP13 Earphone plug

WIDE BAND PC RECEIVER



Remote Control Head

R-2500-05 - Use with the Remote Control Head or connect to your Windows® PC via the USB cable. The main receiver covers 0.01-3300 MHz (less cellular) in AM, FM, WFM, SSB and CW. You can also receive D-Star Digital Voice with optional UT-118 board and P25 with optional UT-122 board. The sub-receiver covers 50-1300 MHz (less cellular) in AM, FM and WFM. Too many features to list. For more information and a list of accessories please check our website.

Special Order



R-20-06 Wideband Handheld Receiver - Covers 150 kHz to 3304.99 MHz (cellular blocked) in SSB, CW, AM, FM and WFM modes. Back-lit keypad and dot-matrix LCD with 1200 alphanumeric memories (up to 8 characters). Perfect for AM/FM radio, monitoring boaters, aviation, conventional public safety and many other commercial services. Multiple scan functions with 100 ch./sec. scan and VSC which opens squelch only on modulated signal detection. Dual watch; Built-in 4-hour IC audio recorder; Auto squelch; CTCSS/DTCS & DTMF decode; RF gain and Attenuator; Noise blanker and Automatic Noise Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset capability for semi-duplex channel monitoring; Internal bar antenna for MF reception, BNC antenna connector; CI-V PC control capability; 11-hour Lith-ion battery. Dim: 2.28" w x 5.5" h x 1.22" d.

Available Accessories:

BC15602 Desktop charger, BP206 3.7V 1650mAh lith-ion battery, CP18A Cigarette lighter cable, CSR20 Programming software w/USB cable, CT17 RS-232 computer interface, LC158 Carrying case, MB86 Swivel belt clip, SP13 Earphone plug



R-75 HF + 50 MHz All Mode Communication

Receiver - Covers 0.03 to 60 MHz, all modes, 99 memories plus 2 program scan edge memories. Conventional knob tuning or direct input using the keypad. Features Alphanumeric readout with bar S-meter; DSP; Two-level preamp; Noise blanker; Twin passband tuning; High and low-Z antenna inputs; Several optional CW & SSB Filters available. Operates on 110V with the supplied AC adapter. Dim: 9.5" w x 3.75" h x 9" d; 6.6 lbs.

Available Accessories:

CR282 High stability crystal, CT17 RS-232 computer interface, FL100 500 Hz 9 MHz IF CW filter, FL101 250 Hz 9 MHz IF CW filter, FL103 2.8 kHz 9 MHz IF SSB filter, FL222 1.9 kHz 455 kHz IF SSB filter, FL223 1.9 kHz 9 MHz IF SSB filter, FL232 350 Hz 9 MHz IF CW/RTTY filter, FL257 3.3 kHz IF SSB filter, FL52A 500 Hz 455 kHz IF CW filter, FL53A 250 Hz 455 kHz IF CW filter, MB23 Carrying handle, MB5 Mobile mount, OPC478 RS-232 programming cable, SP23 Speaker with audio filters, UT102 Voice synthesizer



R-9500-02 Super Performance Multiple

Function Wideband Receiver - Covers 0.005 to 3335.000 MHz (cellular blocked), in USB, LSB, CW, FSK, Wide-FM and AM modes. 1020 alphanumeric memories and multiple scanning functions. Many normal and wide spectrum scope functions display on the 7-inch wide multi-function TFT LCD. Five roofing filters before the first amplifier, dual independent 32-bit floating point DSP processors and digital IF filter. Noise Blanker; Voice synthesizer; Digital Voice recorder; USB connector; Receive assist functions. Dim: 16.6" w x 5.8" h x 13.3" d; 44 lbs. **Special Order**

Available Accessories:

AH8000 100 MHz to 3.3 GHz discone antenna, CT17 RS-232 computer interface, SP20 Speaker with filters, UT122 P25 receive unit



HIGH-END RECEIVERS

AR-8200 MK III-B

Compact Wideband Receiver

Covers 0.5-3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes. 1000 alphanumeric memories in 20 banks of 50 channels. Scan and search. High stability TXCO; Dual VFOs and twin frequency readout; Alpha display; Band scope; Bar signal meter; Noise limiter; Attenuator;

Computer control and programming capability. Optional cards for Memory expansion, CTCSS decode, 20 second Record/Playback and voice inverter (limit one card at a time). Includes: (4) NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12V DC), AC charger, belt-clip, cigarette lighter power cord, removable AM & telescopic whip antennas.

Dim: 2.4"w x 5.7"h x 1.0"d; 0.75 lbs.



AR-8600 MK II-B Wideband Receiver - It's extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section back-lit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Band scope; Alphanumeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12V DC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and manual.

Dim: 5.9"w x 2.2"h x 6.9"d; 4.9 lbs.

WIDEBAND LOOP ANTENNA



LA-390 Wideband Active Loop Antenna - A wide range, high performance 10 kHz to 500 MHz directional active loop receiving antenna. Ideally suited for internal or desk top use where larger external aerials are not possible. Only 1 ft. in diameter. Five selectable presets and ranges. A built-in

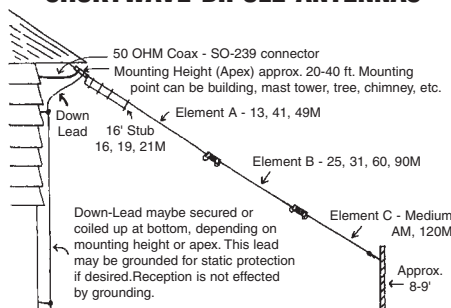
high-gain amplifier 20dB for 150 kHz - 30 MHz, 14dB for 30 MHz - 500 MHz. Preselection sharpness has been improved over the previous LA-380. Impedance is 50 ohm. The antenna connector is BNC female jack. Operates from 12V DC or 110V using the wall adapter. Comes with a 3.3 ft. BNC to BNC patch cable and AC power supply.

**ORDER ON-LINE!
USE YOUR CREDIT CARD**



ALPHA DELTA COMMUNICATIONS, INC.

SHORTWAVE DIPOLE ANTENNAS



DX-SWL Shortwave 60 ft. Sloper Antenna

Covers Medium Wave AM broadcast band plus, 120/90/60/49/41/31/25/21/19/16 and 13 Meters. It operates as quarter wave sloper which means the wires are a quarter wave long, or multiples of a quarter wave on each frequency band. Compared to half wave dipole, the other quarter wave, which is necessary for performance and the proper feed point impedance, is made up of the "Down-Lead" wire which is attached.

DX-ULTRA Shortwave 80 ft. Dipole Antenna

The heavy 12 ga. solid copper elements and ISO-RES inductors provide receive coverage 500 kHz to 30 MHz. The Delta-C Center insulator with built in SEP Arc-Plug should be elevated ~20 ft. high.

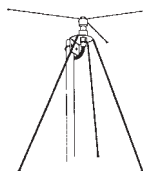


Multi-Purpose Discone Antenna

Provides wideband omni-directional signal reception from 100 to 3300 MHz, and can also be used to transmit on 144, 430, 1200 and 2400 MHz Ham bands; up to 200 Watts. Only 3 ft. high and 2.1 lbs. Attaches with two

supplied U-bolts to any 1 to 2 inch mast. Comes with a preassembled 49 ft. cable with type-N connectors on each end.

Other DISCONE ANTENNAS



HUSTLER DCX Base Discone Antenna - Covers 40-950 MHz; Vertically polarized; mounts on a 1.25" OD mast or flat surface; 55" cone elements and 20" disc elements; SO-239 connector.

HUSTLER DCLB - Same with 50 ft. of RG58/U with PL-259 on one end and BNC on other.

MOBILE SCANNER ANTENNAS

HUSTLER MRMB - Covers 30-50, 148-174, 430-450, 800-950 MHz; 33" long; 12 ft RG-58 coax with BNC connector; Magnet mount.

MOTB - Same but trunk lip mount.

MORB - Same but 3/4" roof or deck mount.

LARSEN NMO150450800 - Covers 150-165, 450-470, 806-940 MHz; 16.5" long; NMO.

DIAMOND D220 - Covers 100-1600 MHz; 35.5" long; UHF connector; Discone antenna.

SONY AM/FM & SHORTWAVE RECEIVER



ICF-SW7600GR - Covers 150 kHz to 29.999 MHz AM/SSB and 87.6-108 MHz FM with stereo via the headphone jack. Tuning via: keypad, manual, auto scan and 100 memory channels scan. SSB/CW mode and AM synchronous detection; PLL Quartz Frequency Synthesized tuning; LED "tune" indicator; FM/SW uses telescopic antenna, LW/AM built-in ferrite bar; LCD read-out; Dual time clock with sleep timer; Audio output record jack; Tone switch; 3 inch speaker; Ext. antenna jack; Uses (4) AA cells or 6V DC. Includes wind-up antenna, wrist strap and case. Dim: 7.6"w x 4.75"h x 1.3"d; 22 oz.

ENJOY WORLDWIDE LISTENING FUN!



John Figliozi's brand new, expanded 5th Edition *Worldwide Listening Guide* explains radio listening in all of today's formats - "live," on-demand,

WiFi, podcast, terrestrial, satellite, internet, digital and, of course, AM, FM and SW. Includes a comprehensive program guide to what can be heard how, when and where. Spiral bound to open in a flat, easy-to-use format.

WSY WWLG

Monitoring Times Magazine

- Features on:
- Shortwave broadcasting
 - Scanner listening
 - Military, Maritime
 - Aviation

GRV MONITORTIMES



Great Gift Idea!

0000 DATE _____

THIS CERTIFICATE ENTITLES _____

TO MERCHANDISE VALUED AT _____ DOLLARS \$ _____

PRESENTED BY _____ AUTHORIZED BY _____

Certificates expire one year from date of purchase (subject to applicable state laws). Certificates will not be replaced if lost or stolen.

GIFT CERTIFICATE

AES

Amateur Electronic Supply

AES GIFT CERTIFICATES

Available at all AES Stores
and On-Line!



MFJ RECEIVING AIDS

751B Super Tunable SSB/CW Audio Filter Eliminates interference by zeroing in on signals with tunable PEAK/NOTCH filters. Tunes 300 to 3000 Hz with variable bandwidth from 80Hz to nearly flat. Up to 50dB of notch depth. Uses 12V DC or 110V AC with the MFJ-1312D adapter. Dim: 4.75"w x 1.75"h x 5"d.



752D Dual Tunable SSB/CW Filter – Comprised of two tunable audio filtering systems to clarify and remove interference from SSB, AM, CW or RTTY signals. The primary filter is a two-section, four pole variable filter with PEAK, NOTCH, LOW PASS, and HIGH PASS functions. The second (auxiliary) filter is a single section two-pole PEAK or NOTCH filter. Variable bandwidth from 40Hz to almost flat; Adjustable notch depth to 70dB; Selectable NOISE LIMITER. Input for two rigs. Uses 12V DC or 110V AC with the MFJ-1312D adapter. Dim: 10"w x 2"h x 6"d.



1026 Noise Cancelling Filter – Plug in your station antenna and place a 60dB NULL on noise and interference before it gets into your receiver. Handles lightning crashes, power line noise, dimmers, power tools, TV birdies and more. Change from a NULL to PEAK to enhance weak signals. Usable as an adjustable phasing network to combine two antennas for directional patterns. Built-in active antenna with telescoping whip. Works on all modes from 1.5 to 30 MHz. RF sensed T/R switch with adjustable delay bypasses transceiver on transmit. Uses 12V DC or 110V AC with MFJ-1312D adapter. Dim: 6.5"w x 1.5"h x 6.2"d.



461 Morse Code Reader – Just place this pocket-size portable code reader near your receiver's speaker. Then watch Morse code signals turn into solid text messages as they scroll across an easy-to-read LCD display. No cables to hook-up, no computer interface, no other equipment needed. Makes copying high speed CW a breeze. Automatic Speed Tracking locks on and tracks CW speed to decode high and low speeds; Instant Replay can review the last 140 characters. Uses a High Contrast 2-line LCD Display with 32 large 1/4 in. characters. A serial port lets you display CW text on a monitor using a computer and terminal program. When its too noisy for its microphone to pickup you can connect the MFJ-461 to your receiver with a 5162 cable (not included). Weighs less than 5.5 oz. Uses a 9-Volt battery (not included).

5162 Receiver Cable – Connects the 461 or the 462B to a radio's external 3.5mm jack.

MFJ PRESELECTORS, TUNERS ACTIVE ANTENNAS, etc.

956 SWL Receiver Antenna Tuner/Preselector – Boost your favorite stations while rejecting images, intermodulation, and phantom signals! Greatly improves reception from 0.15 to 30 MHz, especially below 2 MHz. It has tuner bypass/ground receiver positions. Dim: 3"w x 2"h x 4"d.



959C SWL Receiver Antenna Tuner/Pre-Amplifier – Provides proper impedance matching resulting in maximum signal transfer from antenna to receiver. It covers 1.6 to 30 MHz. 20dB preamp with gain control boosts weak stations. 20dB attenuator prevents overload. Select from 2 antennas and 2 receivers. Dim: 9"w x 2"h x 6"d. Uses 9 to 18V DC or 110V AC with an MFJ-1312D.



1040C All-Band Preselector – A low-noise, high gain dual-gate MOSFET amplifier boosts signals and rejects out-of-band signals and images from 1.8 to 54 MHz. Push-button switches for two receivers, two antennas, attenuator and ON/BYPASS. Usable with transceivers up to 125W (automatic bypass on TX), bypassed when off. Uses 9 to 12V DC or 110V with an MFJ-1312D. Dim: 6.5"w x 2.5"h x 4"d.



1045C Receiver Preselector – Improve copy on weak signals and reject out-of-band signals, images from 1.8 to 54 MHz. Uses dual gate MOSFET, bipolar transistors for low noise and up to 20dB gain. Gain control. Connect 2 antennas, 2 receivers. Uses 9-18V DC or 120V AC MFJ-1312D adapter.



202B RX Noise Bridge – Quickly adjust almost any antenna for maximum performance, 1 to 100 MHz. Easily determine whether to lengthen or shorten your antenna for minimum SWR, the resonant frequency, feedpoint resistance and reactance. Works with any receiver or transceiver. Calibrated resistance scale, expanded capacitance range and built-in range extender. Dim: 4.25"w x 2"h x 4"d. Uses a 9-Volt battery (not included).



306 AM/FM/SW Converter – Add 19, 25, 31 and 49 Meter band Shortwave reception to your car radio. Simply plug-in the vehicle's antenna, insert the MFJ-306 antenna cable into the car radio and connect to 12V. Dim: 5"w x 1.5"h x 3.5"d. **CLOSEOUT**

MFJ



8100W Regenerative Shortwave Receiver Listen to SW and Hams on SSB/CW and more. Covers all or part of the 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15 and 13M in 5 bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Requires 9V battery, earphones or plug-in speakers. Dim: 7"w x 2.5"h x 6"d; 1 lb.

8100K Same, but in KIT form.



1024 Outdoor Active Antenna – Covers 50 kHz to 30 MHz. A separate RF amplifier with a 54 in. whip antenna mounts remotely away from electrical noise for maximum signal. It connects by the supplied 50 ft. coax to an inside control box with 20 dB attenuator, gain control, ON LED and a switch that selects two receivers and auxiliary or active antenna. Uses 12V DC or 110V AC with an MFJ-1312D adapter. Dim: 6"w x 3"h x 5"d (control); 3"w x 2"h x 4"d (remote).



1022 Compact Active Antenna – Covers 0.3 to 200 MHz. Improves the reception of international shortwave, ship-to-shore, airline, commercial RTTY, etc. Improves scanner radio reception from high to low band VHF. The J-310 FET and MRF-901 devices give excellent low noise reception using the 20 in. telescoping antenna. Has On/Off switch, power on LED. Uses 9V battery or 110V AC with MFJ-1312D. Dim: 3"w x 1.25"h x 4"d.

1020C Indoor Active Antenna – Covers 0.3 to 40 MHz with a 21 inch telescoping antenna and dual gate MOSFET & gigahertz bandwidth buffer that improves gain and selectivity, reduces noise and intermod. An effective preselector when used with an external antenna system. Uses 9V battery, 9-18V DC or 110V AC with an MFJ-1312D adapter. Dim: 6"w x 2"h x 5"d.



1046 Passive Preselector – Covers 1.6 to 33 MHz, receive only, passive (non-amplified). Improves the performance of nearly any HF or shortwave receiver. Eliminates phantom signals, intermod, blocking and cross modulation caused by strong out-of-band shortwave broadcast signals mixing and producing unwanted in band signals. Protects your sensitive receiver input from damage caused by very strong local signals. Dim: 7.5"w x 2.5"h x 3.25"d.

1048 Passive Preselector – Same as 1046, but a RF sensed TX/RX switch with adjustable delay automatically bypasses on transmit.

GRUNDIG

AM/FM & SHORTWAVE RADIOS



M-400 Ultra Compact Portable – Covers AM (520-1710 kHz), FM (87-108 MHz) and shortwave in two bands (5.9-10 & 11.65-18 MHz). Analog circuit with digital display. Built-in clock, alarm, speaker, earphone jack and collapsible FM/SW antenna. Uses two AAA cells (not supplied). Includes soft case and ear buds. Dim: 2.75" w x 4.33" h x 0.5" d; 3.2 oz. ... **C/O**

FR-600 Solarlink Emergency Radio – The digital tuner covers AM (520-1700 kHz), FM (88-108 MHz), and SW (5.8-12.2 MHz). Includes 7 NOAA weather channels with S.A.M.E. (location based alerts). Rotary selector knob and LED backlit digital display. Digital clock function with alarm, snooze and sleep. Powers from four different sources: Dynamo/hand crank which charges the built-in NiMH battery; (3) AA batteries (not included); AC via USB adapter (not included) and top-mounted Solar Panel. You can even use it to charge your cell phone or MP3 player! Has a powerful light source (four white and one red LED) with magnifier and emergency siren/flashing beacon. Jacks: 3.5mm headphone, DC-in, USB phone charger and AUX-in. Dim: 7.7" w x 8.5" h x 2.5" d; 1.9 lbs.

GS-450DL

Portable Radio

Covers AM/MW (520-1710 kHz / 522-1620 kHz), FM (88-108 MHz), and continuous shortwave range from 1711-29,999 kHz. 50 station memories (10 for each band). IC and MOSFET circuits provide high sensitivity, strong anti-interference, low background noise and lower distortion. MW/SW IF wide/narrow bandwidth selection improves audio fidelity and minimizes noise. Large LCD backlight display with frequency, clock, battery level indicator and signal strength indicator. AM band features dual conversion PLL technology that provides anti-image rejection. Dim: 12.2" w x 7.6" h x 3.9" d; 3.59 lbs.



SATELLIT 750 AM/FM-Stereo/Shortwave/Aircraft Band Radio with SSB – Full shortwave capabilities and a classic design! A 360-degree rotating AM antenna enhances the radio's ability to pull in weak AM signals. You can listen to AM, FM, Aircraft Band (118-137 MHz) and Shortwave (1711-30000 kHz); Single Side Band (SSB); Auto/Manual/Direct frequency key-in and station memory tuning; Auto Tuning Storage function (ATS) for FM/AM; 1000 station memories (100 for each band); Dual alarm clock; Line-in & line-out audio socket; External antenna jacks for both AM/FM. Dim: 14.7" w x 7.2" h x 5.8" d; 7.1 lbs.

C.CRANE

AM/FM/SHORTWAVE & INTERNET RADIOS



SWP AM/FM/Shortwave Pocket Radio

Exceptional AM reception and audio quality outperforms comparable radios in its class. Covers: AM/FM and two SW bands (2,300-7,500 and 9,200-22,000 kHz). Stores up to 200 favorite AM/FM and SW stations in non-volatile memory so changing the batteries won't lose them. It has a keypad for direct entry and a flip-out back stand. Alarm clock; Stereo headphone jack; Sleep timer; Display light and carrying pouch. Uses (2) "AA" batteries (not included). Dim: 5" w x 3" h x 1.2" d; 6.5 oz.



EP AM/FM with Simple, Pure Performance

The C.Crane EP brings the fun and joy back to radio! There is no clock to set, no station presets to program. All you do is push the red power button and turn the dial. For very weak AM stations, reception can be fine tuned with a manual adjustment of the built-in "Twin Coil Ferrite® Antenna". Features: Bass and Treble knobs; Voice and Music knobs; Internal/External antenna switch; Wire terminal for external AM antenna; "F" Connector for external FM antenna; 1/8" Line In jack for MP3 players; Headphone jack; 6V AC adapter (included) or runs on four optional "D" batteries; Super long life LED lighted dial. Great performance yet simple! Dim: 11.4" w x 7.3" h x 2.75" d; 4.5 lbs.



CWF Wi-Fi Internet Radio – Enjoy Internet radio with excellent audio from over 17,000 stations worldwide. Connect to the internet via 802.11b/g (WEP, WPA & WPA2) or the RJ-45 Ethernet port to your router. You can also stream audio from your computer in the following formats: RealAudio®, Microsoft Windows Media™ Audio, MP3, AAC MPEG 4, AU, WAV and AIFF. It has a full-range, 5W 2.5-inch speaker, a 3.5mm headphone jack and a 3.5mm line-out for component speakers. Features 99 memory presets, alarm clock and remote control. Dim: 6.5" w x 3.9" h x 3.9" d; 1 lb.



CSW AM/FM/Shortwave Radio – Covers: AM (522-1620 kHz @ 9 kHz step) & (520-1710 kHz @ 10 kHz step), FM (87-108 MHz) and SW (1,711-29,999 kHz). Large, easy-to-read LCD display and all the adjustments necessary for excellent performance under various conditions. Features: RF gain, Bandwidth, Bass/Treble controls, Fast and slow tuning, 50 memories, Lighted buttons, Clock radio with snooze alarm, RCA Stereo line output and headphone jack, IF output for input to Computer, 5-inch speaker. Runs on four "D" size batteries or four backup "AA" batteries (not included). Using the supplied AC adapter the built-in charging circuit will recharge NiMH batteries (not included). Dim: 11.25" w x 7.25" h x 3.5" d; 4.2 lbs.



CC2B AM/FM Broadcast/2M Ham/Weather + NOAA Alert Radio – Receives AM/FM, 2M amateur band (144-148 MHz) and 7 WX channels. Long-range AM reception, and the Weather Band keeps you informed of any government-issued alerts. On the 2M band Ham operators are early on the scene with emergency communications. Bright backlit LCD display has three levels of adjustable brightness plus "off". Five memories per band. Adjustable bass/treble, clock alarm with sleep timer, auto scan, stereo headphone jack, line input and output jacks. Dim: 11" w x 6.5" h x 4" d; 4 lbs.

RCA

SUPERADIO III™

High Performance,
Long Range AM/FM
Portable Radio



RP-7887 – Tuned RF stages on both AM and FM; FM swivel whip antenna, AM ferrite rod antenna; Ceramic IF filter, plus 3 IF tuned circuits on FM; 4 IF tuned circuits on AM; Selectable normal or wide AM; Switchable AFC; Precision vernier tuning; 6.5 in. woofer, plus 2 in. tweeter; Bass and treble controls; Volume plus loudness circuitry to boost bass response at low volumes; Headphone jack; AM/FM external antenna terminals; Uses AC power or six D-cells (not included). **C/O**

AM/FM & SHORTWAVE RADIOS



ATS-404 PLL Synthesized World Band Receiver Coverage: AM, FM (stereo with earphones) and 14 SW bands (2.3–26.1 MHz). Tune via Up-Down buttons, Automatic scan Keypad or 45 Memory presets. Backlit LCD, 12/24 hour clock-timer with alarm and snooze. Low-battery indicator, lock, dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5"w x 4"h x 1.5"d; 10 oz.



ATS-505 PLL Digital World Radio – Coverage: LW, AM, FM (stereo via earphones) and SW (1711 kHz to 29.999 MHz). Tunes via Manual tuning knob, Up-Down buttons, Scan, Keypad, or 45 memories. SSB reception, auto preset System lock, tone control, local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, wind-up antenna, carry case & earphones. Uses (4) "AA" batteries. Dim: 8.5"w x 5.3"h x 1.6"d; 24 oz.



ATS-909X Long/Medium/Shortwave Receiver Covers 153–519 kHz (long wave), 520–1710 kHz (medium wave), 1,711–29,999 kHz (shortwave) and 87.5–108 MHz FM with FM-stereo via headphone jack. Features enhanced shortwave performance and selectivity with a DSP decoder IC and wide-narrow bandwidth switch. Good single side band (SSB) performance with 40Hz step tuning providing easy voice clarification. Five tuning methods: Direct keypad entry; Manual tuning; Auto scan; Manual up-down tuning; Memory recall or Manual knob tuning. Displays FM RDS/RBDS with PS, PTY, RT and CT features for Station Name and Clock in areas where available. There are 406 memories available: 9-LW, 18-MW, 352-SW, 27-FM, and 1-Priority. A world time clock has two editable city names and DST support. Other features include: Stereo/Mono switch, RF gain, squelch, auto scan and flip-stand. Jacks for recording, headphones, auxiliary (LINE-IN) input and AC input. Full watt of audio power for great fidelity and an independent headphone amplifier for a better signal to noise ratio. Uses (4) AA batteries. Includes an AC adapter, protective case, stainless telescopic antenna, ANT-60 wind up antenna and ear buds. Dim: 8.8"w x 5.3"h x 1.5"d, 1.5 lbs.

SANGEAN T.M.

AM/FM & SHORTWAVE RADIOS WIFI INTERNET RADIO

SIMPLE AM/FM RADIO



WR-11 High Fidelity Radio – This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality at a comparable price. The wood veneered cabinet will accent any room. Eighth inch Headphone, record out and input jacks. AM & FM rear antenna inputs. Dim: 9.6"w x 4.6"h x 6.125"d; 5.18 lb.

ATOMIC CLOCK RADIO



RCR-2 Digital Atomic Clock Radio – A combination of an Atomic Clock and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5"w x 3"h x 5.25"d; 2 lbs.

Tweaked SOUNDS BETTER Aluminum Earbuds



Tweaked Classic earbuds give you all the style you want with a sleek metal design. These earphones produce a mind-blowing sound and deliver an incredible audio experience.

Common Features: Speaker 10mm; 3.5mm gold plated plug; 1.2M long cable; 20 Hz - 20 kHz; Impedance 32+/-3Ω; Max Input Power 10mW; Sensitivity 102 +/- 3dB

TATCBK-V2 – Black Stereo Earbuds.

TATCBK-MIC – Same Earbuds with Microphone and simple push to answer/mute button for Smartphones, voice recorders, etc.

INTERNET RADIO



WFR-20 Wi-Fi Internet Radio – Listen to over 6000 Internet Radio stations (over 20,000 on-demand streams) in 250 locations from 60 genres. Operation requires a broadband wireless Internet (802.11b/g) or wired Ethernet (10/100 Mbps, RJ-45) network connection. It can also act as a "Network Music Player" by playing your audio files stored on your computer. This outputs MP3, WMA, AAC, AIFF, FLAC, Real Audio and AU files stored on your PC using Windows® Media Player® to the WFR-20. Features: 12 radio station presets; built in 12/24 hour clock with four alarm timers and sleep timer; bass and treble controls; three-line alphanumeric display. Menu system operates from single rotary control knob or remote control. Great sound from the acoustically tuned wooden cabinet housing two high quality 5 inch full-range stereo speakers. Rear 3.5mm jacks for auxiliary input (iPod, MP-3 player, etc), earphone output jack, line output jack and RJ-45 Ethernet. Note: does not tune conventional broadcasts. Dim: 11.5"w x 4.5"h x 9.5"d.

SHORTWAVE ANTENNA

ANT-60 – Portable, wind-up, shortwave antenna for use with most shortwave receivers.



LISTENING GUIDE



MMRADIOMG

Radio Monitoring Guide – Ideal reference to Short Wave, Police, Fire, Aviation, Marine and more. Combines Shortwave Listening and VHF/UHF Scanning into one guide.



Using Your Meter

Teach yourself the correct use of your multimeter. Book explains fundamental concepts of electricity including conventional and electron current and series and parallel circuits. It teaches how analog and digital meters work and tells you what the voltage, current and, resistance measurements mean. Then it provides fully-illustrated, step-by-step instruction on using your meter in practical applications in the home, workshop, automotive and other settings. An excellent learning tool and reference for the hobbyist and ham.

W5Y METR



WEATHER STATIONS



308-807 Professional Color Weather Station

Features: Large Color Display; Forecast with Tendency; 5 Weather Icons (Sunny, Partly Cloudy, Cloudy, Rainy & Stormy); IN/OUT Temp (°F/°C); IN/OUT Humidity; Heat Index; Dew Point; Wind Direction, Speed, Gust; Relative Air Pressure Reading in inHg/hPa; 6-Hour Pressure History Graph; Rain Gauge; Time Display in 12/24 Hour Format; Calendar Display (Date, Month, Year); Moon Phase with 8 Displays; Photo Viewer (Displays JPEG Images on USB Flash Drives, SD & MMC Cards); Remote Control. Receiver: 9.25"l x 1.4" w x 6.25" h; Rain Sensor: 5.88"l x 2.16" w x 3.16" h; Wind/Thermo/Hygro Sensor: 4.5"l x 12.63" w x 3.38" h.



WS-1612CH-IT Professional Weather Center (left) – Features: Weather forecasting function with 3 weather icons and weather tendency indicator; Records MIN/MAX temperature and humidity with time and date of recording; Low/high outdoor temperature & humidity alarm; Relative air pressure (inHg or hPa); Barometric pressure with 12 hour history graph (in inHg or hPa); Storm warning alarm; Total rainfall (inches or millimeters); Wind speed (mph, km/h or m/s, and Beaufort scale); Wind chill (°F or °C); MAX wind speed with time & date of recording; high wind speed alarm; 16-step wind direction display; Storage of 200 sets of history weather data recorded in 3-hour intervals; manual reset; Selectable LCD contrast, Low Battery indicator. Wind Sensor: 6.45" w x 9.84" h x 7.58" d; Thermo-hygrometer: 2.44" w x 2.25" h x 6.18" d; Rain Sensor: 2.75" w x 5.51" h x 5.39" d; Receiver: 6" w x 8.9" h x 1.25" d.

WS-9049U-IT-AL Wireless Forecast Station (right) – Shows indoor and outdoor temperature and humidity with MIN/MAX recorded values, current barometric pressure with 24-hour history bar graph, a forecast icon based on changing air pressure, a pressure trend indicator, and the current moon phase (12 phases). A self-setting radio controlled clock and calendar with automatic Daylight Savings Time updates. The 915 MHz wireless remote sensor has a range of up to 330 feet. Stylish, contemporary design with a brushed aluminum finish. Dim: 7.2" w x 7.4" h x 1.5" d.



WS-7014CH Wireless Forecasting Station (left) Displays indoor and outdoor temperature plus indoor relative humidity and atomic time. Forecast icons indicate conditions (Cloudy, Sunny or Rain). The wireless outdoor temperature sensor can be located up to 82 ft. away. Can be free standing, with the included stand attached, or may be hung on the wall. Powered by (4) "AA" alkaline batteries. Dim: 3.54" w x 5.43" h x 1.18" d.

WS-450B Color Forecast Station (center) **Features:** Animated Color Graphs Designed to Gauge the Weather at a Glance; Forecast Icon Based on Changing Barometric Pressure with Tendency Indicator; IN/OUT Heat Index (°F/°C), Dew Point (°F/°C), Humidity (%RH) and Temperature (°F/°C), with MIN/MAX Records; Indoor Comfort Indicator: COME, WET, DRY; Atomic Time & Date with Manual Setting; 12/24 Hour Time Display; Perpetual Calendar; 4 U.S. Time Zones: PA, MO, CE, EA; Time Alarm with Snooze; EL Backlight: AUTO, HIGH, LOW, OFF; Power: Main unit (3) AAA alkalines or included 6.0 volt AC adapter; Sensor: (2) AAA alkalines. Dim: 6.5" w x 3.5" h x 2" d.

WS-7394U-CH-IT Wireless Forecast Station (right) – Features: Weather forecasting function with 3 weather icons and weather tendency indicator; Outdoor temperature (°F or °C); Indoor temperature (°F or °C) and relative humidity %; Records MIN/MAX temperature and humidity with time and date of recording; Barometric pressure with 12 hour history graph; Barometric tendency arrow and Indoor comfort level icon; Atomic time and date with manual setting; automatically updates for Daylight Saving Time with on/off option; 12/24 hour time display; Perpetual calendar; Time zone setting; Receiver and Sensor both use (2) "AA" alkalines. Dim: 4" w x 8.75" h x 1.5" d.



WS-9121U-IT-CBP Wireless Thermometer (left) Shows Indoor temperature and wireless outdoor temperature from remote sensor. 12/24 hour time display. Uses CR2032 and (2) AAA alkalines. Dim: 2.29" w x 4.66" h x 0.69" d. **CLOSEOUT**

WS-9023U-IT Wireless Weather Station (center) Monitor indoor and wireless outdoor temperature, outdoor humidity, min./max. temperature and humidity and 12/24 hour time. Wall hanging or desk top. Uses 2 "AA" batteries in receiver and sensor. 915 MHz, 330 ft. range. Dim: 2.76" w x 4.54" h x 1.14" d.

WS-9080U-IT-CBP Wireless Temperature Station (right) – Indoor temperature, and outdoor temperature via remote sensor. Records MIN/MAX with time/date stamp. 12/24 hour Atomic clock. Uses (2) AAA and (2) AA alkaline batteries. Dim: 3.74" w x 5.35" h x 0.74" d.



WD-3209U 4 Day Internet Powered Wireless Forecaster with Forecast Alerts (left) – Connected to the internet, this unit gives you free access to the same quality weather information as meteorologist. You can choose forecast information from over 60,000 locations in the United States and Canada. High-speed internet and a network router are required. The wireless display features a large LCD with E.L. backlight for easy night viewing; Automatic time and date; Indoor temperature and forecasts for the daily high and low temperature. Includes a wireless outdoor temperature sensor. Dim: 5.9" w x 7.4" h x 1.18" d. **CLOSEOUT**

WA-1240U Weather Direct 4 Day Internet-Powered Talking Weather Station (right) – An advanced weather station with a voice: "Good morning (Put Your Name Here), here's the forecast for Milwaukee, Wednesday, September 30th"... or create your own custom message. Push the audio forecast button to play the current forecast and the A/B/C speaker buttons to play information that you select. Plus, listen to your choice of news headlines, entertainment, sports, etc. via the same wireless internet connectivity used by the WD-3209U shown above. The wireless display features automatic time and date and forecasts for the daily high and low temperature. The bottom LCD line scrolls your wireless outdoor temperature, selected location name, sun rise/set and forecast. The included wireless temperature sensor monitors your backyard temperature. Uses (3) C and (2) AA batteries (not included). Includes AC adapter. Dim: 8.26" w x 5.67" h x 2.92" d; 2.5 lbs. **C/O**



302-604B Indoor Comfort Level Station (left) **Features:** Digital time; Indoor temp (°F/°C); Indoor relative humidity (% RH); MIN/MAX records; Comfort level smiley face icon for humidity levels at 40% to 60% RH; Display large temperature or humidity; Wall hanging or free standing; Battery included. Dim: 4.13" l x 1.6" w x 4.13" h.

306-605 Large Window Thermometer (center) **Features:** Solar Powered Backlight; Outdoor Temperature in °C or °F; Reads Easily From Inside; Records MIN & MAX Temperature with Auto Reset; Clock with DST Indicator; Weather Resistant; Detachable for Window Cleaning; Automatic Backlight for Easy reading in the Dark; Batteries Included. Dim: 4.75" l x 1.1" w x 5.125" h.

WS-9245UBK-IT Wireless Temperature Station (right) – Features: Wireless Outdoor Temperature (°F); Monitors Indoor Temperature (°F); MIN/MAX Records for Indoor and Outdoor Temperature; Digital Clock; Low battery indicator; Wall Hanging or Free Standing; Detachable Stand Included; Requires 2 "AA" and 2 "AAA" Alkaline Batteries. Receiver: 3.14" w x 5" h x 1.14" d, Sensor: 1.27" w x 3.4" h x 0.55" d.

WS-9004U-IT

Wireless Rain Gauge

Wireless, self-emptying bucket. Shows total rain and rainfall for the last 24 hours. User set rainfall alarm from .05 to 4 in. over 24 hours; Current rainfall indicator; light rain and heavy rain indicators; Remote sensor range: up to 330 ft.; Receiver and sensor both use (2) AAA alkalines. Dim: 2.35" w x 3.85" h x 0.83" d.



EA-3010 Handheld Anemometer

Check local wind speed and temperature. Wind mode indicates digital maximum or average wind speed (mph, m/s, km/h, knots) digitally plus Beaufort on a 0-12 bargraph scale. Temperature mode shows digital temperature and wind chill. LED back light and auto-off. Weather Resistant Case, neckband. Powered by (1) CR2032 battery. Dim: 1.63" w x 4" h x 0.7" d.

WT-8005UB Atomic Clock

Select your time zone and this advanced clock will automatically synchronize itself to the WWVB radio signal from NIST in Fort Collins, CO. Shows 12/24 Hour Time; Calendar: Month, Date, Weekday; Automatic Daylight Savings Time Update; Time Alarm w/Snooze; Monitors Indoor Temperature (°F or °C); Wall Hanging or Free Standing; Up to 24 months operation on (2) AA Alkaline Batteries (not included). Dim: 9" w x 7" h x 1" d.



WS-8117U-IT-OAK



WT-3145U

WS-8117U-IT-OAK Digital Atomic Wall Clock

Shows 12/24-hour time, a perpetual calendar, indoor temperature and outdoor temperature via a remote sensor up to 82 ft. away. Clock sets automatically via WWVB, has 13 time zone settings, daylight saving time and 8 moon phase icons. Alarm with snooze. Wall mount or free standing. Requires (4) "AA" alkaline batteries. Oak finish. Dim: 12.2" w x 8" h x 1.18" d.

WT-3102S Analog Atomic Clock – 10 in. diameter. Automatically sets time, accurate to the second and updates for daylight saving time. Four time zone settings. Uses "AA" alkaline battery.

WT-3145U Analog/Digital Atomic Clock – 14.5 in. diameter. Similar to WT-3102S but also displays Indoor temp., Date, Weekday, World Time, or Seconds on the LCD in different display combinations. Uses 2 "AA" alkaline batteries.

WT-5220U-IT-CBP

Projection Alarm Clock with IN/OUT Temp.

The large backlit LCD displays 12/24 hour time, indoor temp. and humidity, plus wireless outdoor temp. and perpetual calendar. It alternately projects time and outdoor temperature on the ceiling or wall. Atomic time and date. Alarm and snooze. AC Adapter Included. Dim: 5.6" w x 3.6" h x 1.4" d.



DAVIS WEATHER STATIONS



6152 Wireless Vantage Pro2 – It uses frequency hopping Spread Spectrum to transmit and receive data up to 1000 ft. line of sight. Quick view icons show the forecast at a glance-sunny, partly sunny, cloudy, rain or snow while a moving ticker-tape display gives more details. The sensor suite combines a rain collector, temperature, humidity and anemometer into one package-making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat.



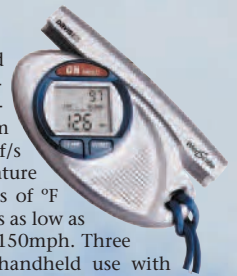
6250 Vantage Vue Wireless Weather Station Uses frequency-hopping spread spectrum radio technology to wirelessly send data up to 1,000 feet and provides weather updates from the outdoor integrated sensor suite to the indoor console every 2.5 seconds. The indoor console's Weather Center feature, provides extensive additional information for each weather variable. These include daily highs and lows, temperature changes by the hour, air pressure changes, rain fall and rain rate, wind speed and wind chill, heat index and dew point, and astronomical data such as moon phase and meteor showers. The console's built in sensors provide indoor temperature and humidity as well as barometric pressure measurements. The outdoor Integrated Sensor Suite is solar-powered during the day and uses stored energy at night.

WIND GAUGES

0276 Windscribe

Ultrasonic Wind Meter

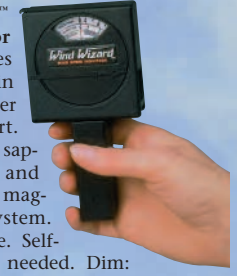
Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" w x 3" h x 0.75" d; 3.5 oz.



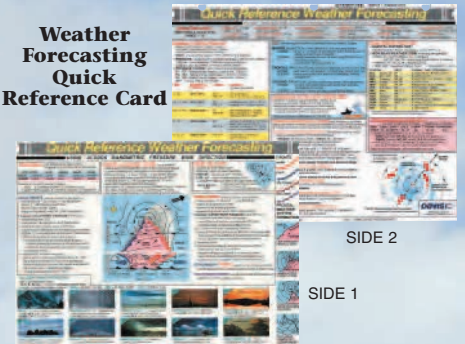
0281 Wind Wizard™

Wind Speed Indicator

Accurately measures speed from 0-60 mph in miles per hour, meters per second and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. Self-powered - no batteries needed. Dim: 3.625" w x 2.875" h x 1" d folded; 2.5 oz.



Weather Forecasting Quick Reference Card



0131 Weather Forecasting Quick Reference Card

Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog, other hazardous conditions & more. Waterproof, strong plastic, full color. Punched for binder or bulkhead mounting. Dim: 8.5 x 11 in.

MIDLAND®

WEATHER RADIOS



74-250C



WR-120



WR-300

74-250C All Hazard Alert Handheld Weather Radio with S.A.M.E. Technology – Get up-to-the-minute NOAA weather and hazardous-conditions information. Also an Alarm clock with snooze and thermometer with freeze alert. Uses (2) AA Batteries (not included). Dim: 2.75" w x 4" h x 1" d. **C/O**

WR-120 Alarm Clock with NOAA Weather/All Hazards – Features: S.A.M.E. localized reception; Color coded Alert Indicators; Alarm Clock with Snooze; Single, Multiple, or Any S.A.M.E. program settings; User Selectable Warning System - Voice, Display, or Tone alert types; All Hazards Alert include - Amber Alert, Nuclear Power Plant Warning, Biological Hazard Warning, Civil Emergency Message, Fire Warning, and Landslide Warning. Can use (3) AA Batteries for back-up power. Dim: 4.5" w x 2" h x 5" d.

WR-300 AM/FM Alarm Clock Radio with NOAA Weather/All Hazards – For security, be alert to conditions that affect you. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Operates from included AC power adapter or (4) AA Batteries (not included). Dim: 7" w x 2.5" h x 6" d.



TV ANTENNAS

Platinum Series VHF/UHF/FM Antennas
The 75 ohm downlead coupler simply snaps into place for fast, easy assembly; eliminates the need for matching transformers when using coax cable. Steel hardware is zinc plated for maximum corrosion resistance.

HD-7010 Range: ~45 miles VHF & ~30 miles UHF; 22 elements (9 VHF, 13 UHF); 66.5" boom.

HD-7084P Range: ~80 miles VHF & 45 miles UHF; 68 elements (28 VHF, 40 UHF); 131.75" boom length.



HD-9095P

Platinum Series UHF Only Antennas

HD-9075P Range: 30-50 Miles - 26 elements; 60" boom length.

HD-9095P Range: 40-60 Miles - 39 elements; 95" boom length.

To see what antenna works best for you go to www.dtv.gov and click on the Reception Maps

TV COAXIAL CABLE



TV-2900

RG-6 75 ohm TV Coaxial Cable - Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weather-proof F-connectors are installed on each end.

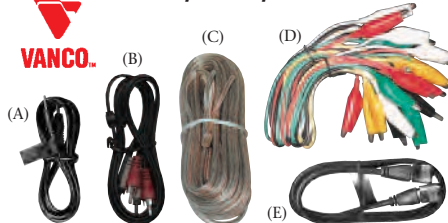
CX-0625 - 25 ft. length.

CX-0650 - 50 ft. length.

CX-6100 - 100 ft. length.

TV-2900 Matching Transformer - Adapts 75 ohm coaxial cable with F-type connectors to a 300Ω TV antenna or TV set. Includes F connector and weatherproof boot.

AUDIO/VIDEO/COAX CABLES



AC-123 3.5mm Mono Audio Cable (A) - 3.5mm Mono male cable, shielded, 6ft.

AC-272 RCA Audio Cable (B) - Dual RCA plugs to dual RCA plugs cable, shielded, 6ft. C/O

SPW-52 Speaker Wire (C) - 25 ft. 18 gauge, clear flexible jacket with polarity stripe.

CL-3 Test Lead Set (D) - Heavy duty, 10-pieces, protected alligator clips on each end. Five different colored pairs, 22 in. long.

PP-3M Coax Patch Cable (E) - RG-8X Patch cable, PL-259 to PL-259, 95% copper shield, 3ft.



TERK WIRELESS 2.4 GHz A/V DISTRIBUTION SYSTEM
LF-30S - An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of a cable/satellite box or DVD player, etc. to another TV within your home. Transmits on 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remotes to control the system. Built-in modulator ensures connection to old and new TV's. Uses RCA Yellow/White/Red connections (not HD quality).



COMPACT HDTV ANTENNA

HDTV-I Indoor UHF/VHF HDTV Antenna
Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception - high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5" w x 9.1" h x 16.5" d; 42" high with dipoles extended.

AM/FM ANTENNAS



TOWER AM-FM Tower Antenna (left) - Built-in amplifier with gain control improves FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from the broadcast transmitter.

ADVANTAGE AM Loop Antenna (middle)
Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Use unattached, next to the radio or connect to the radio's AM antenna input for best performance. Position the antenna for best reception, then rotate tuning dial on the antenna to the AM station.

PI-B Powered Indoor AM/FM Antenna (right)
Improves FM reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable AM loop enhances broadcast band reception. AC adapter included. Dim: 6" w x 6" h x 1.5" d.

POWER PLUGS/ADAPTERS

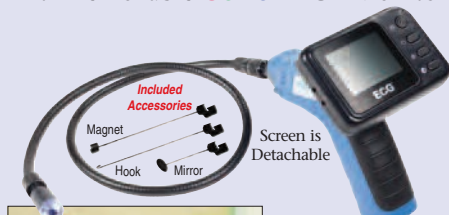


P-212 2-Outlet Cigarette Plug Adapter - Allows use of two 12V accessories from 1 outlet.

P-212B - Same w/replaceable 15A fuse.

P-12R 2-Contact Cigarette Plug - Solder type with strain relief and grip end.

Wireless ECG INSPECTION CAMERA with Removable COLOR LCD Monitor



Video inspect hard to reach places in the Home, Vehicles, etc.

Find the problem Faster - Easier!

WIC-1 Wireless Inspection Camera - For visual inspection in hard-to-reach areas, even in total darkness or underwater. Has two super bright LEDs for illumination. Popular applications include: HVAC, automotive, cable routing, electrical, general contracting and plumbing. Features a 2.4 inch color LCD monitor (with built-in Lithium-ion battery) which can detach and operate up to 30 ft. away. Has VIDEO OUT for recording, etc. The 3.28 ft. flexible shaft containing the camera is waterproof and can be lengthened with optional extensions. Camera is powered by 8-24V DC or, (4) AA batteries. Includes AC adapter, inspection mirror, hook and magnet retrieval tools, video cable and storage case. Weight: 1.48 lbs.

WIC-4 3.28 ft. Extension - Extends the camera shaft an additional 3.28 ft. Use up to three of these extensions to add 9.84 ft. to the length.

More Information Visit:
www.WirelessInspectionCamera.com

Hand-held MEGAPHONE



MP-25SFM Hand-held Megaphone with Shoulder Strap - Powerful, 25W audio with whistle and siren. Detachable anti-howl microphone with coiled lead, on/off switch and volume control. Tough ABS housing with carrying strap. Range 330-550 yards depending on conditions. Operates on (8) 1.5V "C" batteries (not included) or the included 12V DC cord with cigarette lighter plug. Dim: 13.6" long (9" horn dia.), 3.6 lbs.

T-5S PVC Insulation Tape - Set of 6 rolls each in a different color: yellow, white, green, black, blue and red. Individual length: 16.4 ft.



Color Code your wires easily!

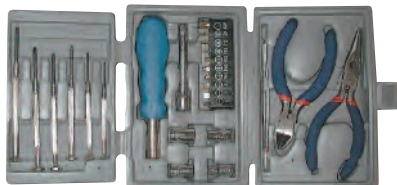


AUDIO/VIDEO SWITCHER



AVW-089 – Input RCA Composite (yellow, white, red) audio and video from 3 different sources and switch them to a single output.

HAND TOOLS



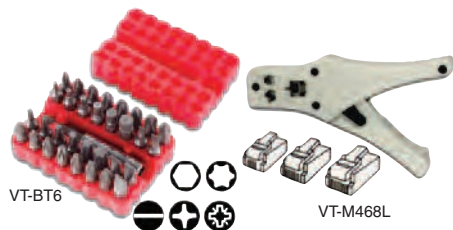
VTTS 25 Piece Multi-Purpose Toolset – A quality toolset for the electronic engineer or the hobbyist. Includes: 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6 x 4 x 2 in.

Bits: (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. **Sockets:** 4, 5, 6 and 8mm 1/4" drive. **Precision screwdrivers:** 4 slotted, 2 Phillips. **Pliers:** 4.5" mini diagonal cutter, 5" mini long nose



VT-SET30 6-Piece Torx Screwdriver Set Includes: T6, T7, T8, T9, T10, T15 x 2 in. sizes. Each 5.1 in. screwdriver has its own handle.

VT-SET Stainless-Steel Precision Pliers Set 5 Pieces: Diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers.



VT-BT6 33 Piece Screwdriver Bit Set – Includes Hex: #2, 2.5, 3, 4, 5, 6; Star: T10, T15, T20, T25, T30, T40; Flat: 3, 4, 5, 6, 7; Phillips: 1 PH0, 2 PH1, 2 PH2, 2 PH3; Pozzi: 2 PZ1, 3 PZ2, 2 PZ3; Magnetic bit holder: 14" hex.

VT-M468L Crimp Tool – For RJ10, RJ11, RJ45 (4P, 6P, 8P) modular connectors.



VT-HD03U 62 Piece Rechargeable Precision Drill Contents: 10,000 rpm rechargeable electric drill; 120V AC power supply; (20) diamond bits; (10) grinder stones; (6) sanding bands; (5) cutting discs; (4) polishing wheels, drill bits and collets; (2) connective posts; (1) nylon brush, brass brush, steel brush, engraving bit and wet stone.



MISC. TOOLS



TLM-2 Test Leads – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A.

TLM-10 Test Probe Set – (4) Crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks.

K/TF 75 Piece Cable-Tie Pack – Contains 25 each of 3.9 in, 4.7 in. and 7.9 in. long zip ties.

VT-LAMP2BNU Magnifier Lamp – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount.

MULTIMETERS



DVM-850BL Digital Multimeter with Automatic Polarity Function and 3-1/2 Digit LCD Display (left) – Manual range selection, Data-hold function and back light. Measures AC and DC voltage up to 600V. Current up to 10A with over-load protection, and Resistance up to 2MΩ. Diode, transistor (hFE) and continuity test with buzzer. Test leads, 6LR61 9V battery and protection holster included. Dim: 2.7" w x 5.4" h x 1.2" d.

DVM-810 Mini 3-1/2 Digit Digital Multimeter (right) – Compact, a perfect fit for any toolbox or even shirt pocket. Measure AC and DC voltages up to 500V and DC current up to 10A maximum. Measure resistance up to 2MΩ. Diode and transistor (hFE) test. Test leads and GP23GA 12V battery included. Dim: 1.8" w x 3.75" h x 1" d.

DESOLDERING TOOL



VT-D2 Extra Powerful Desoldering Tool – The easy way to remove solder from printed circuit boards, terminals and wires. Simply depress and lock down the spring loaded plunger. Place the tool tip over the heated molten solder and release the plunger. A strong vacuum at the tip removes the solder and captures it inside the cylinder. Teflon® nozzle. Dim: 13.2 in. long.



SOLDER - PB FREE & REGULAR

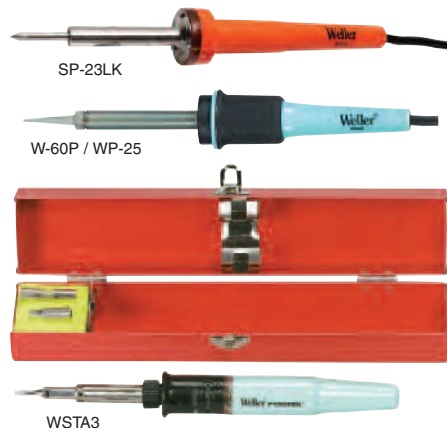
SOLD-250GLF Lead Free Rosin Core Solder Wire – 99.3% tin, 0.7% Cu, Dia. 0.04" 482°F melting point, 0.55 lb. roll.



KES 8330000000 "Kwik-Draw" Rosin Core Solder Wire – 60% tin, 40% lead, Dia. 0.05" 361-374°F melting point, 1.3 oz. roll.



Weller SOLDERING TOOLS



SP-23LK 25W Soldering Iron Kit – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V.

W-60P 60W Pencil-Type Soldering Iron – For most circuit work. 0.0625 in., 700°F screwdriver tip. Temperature controlled by the tip you use. Dim: 7.5 in. long, 2.5 oz., 6 ft. cord, 120V.

WP-25 25W Pencil-Type Soldering Iron – For work on delicate electronics. 750°F tip temperature. Dim: 7.9 in. long, 1.75 oz., 4 ft. cord, 120V.

ST-4 – 3/16 in. Screwdriver Tip.

ST-5 – 1/32 in. Screwdriver Tip.

WSTA3 Pyropen® Butane Soldering Iron with Case – Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing.

7200PK Multi-purpose Soldering Gun – Compact and lightweight, but is 75W for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120V AC.

7235 – (2) Extra standard tips.



SOLDERING STATIONS

WESD51 50W Adjustable Soldering Station (left) For continuous production soldering as well as occasional use. Quick heat-up and tip temperature recovery. Microprocessor temperature control and LED display that shows the adjustable heat setting and tip temperature from 350 to 850°F. Automatic shut down after 90 minutes. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and tip cleaning sponge. Dim: 5.9" w x 4.5" h x 3.6" d; 4 lbs.

WTCPT 60W Temperature Controlled Soldering Station (right) – For production, rework, and repair of through-hole and SMT boards. ESD safe, tip maintains a constant 700°F without any adjustments. Includes: Control unit, pencil-type soldering iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5" w x 5.9" h x 3.6" d; 4 lbs.

SOLDERING – continued

WAHL® ELECTRONICS ISOATIP

7740 Cordless Soldering Iron Kit – Provides top performance up to 50W and over 700°F. Contains a premium NiCad rechargeable battery with high-rate charging capability. When partially discharged, it will return to full capacity within 1 to 2 hours, a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy soldering tips.



7971 SolderPro 50 Butane Soldering Iron – Ready to use within 10 seconds. Adjustable, 410°F to 750°F and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0mm conical tip. Dim: 4-3/4 in. long.



7974 SolderPro 70 Butane Soldering Iron – Adjustable, 410°F to 850°F and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip and a torch tip. Dim: 7-1/2 in. long.



CLOCKS BY LA CROSSE TECHNOLOGY ON PAGE 117

Benjamin Michael Industries INC.



972AD – Battery operated 12/24-hour quartz controlled clock with sweep-second hand. The 12 in. diameter dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery. **CLOSEOUT**

MFJ

105D 24 Hour Quartz Wall Clock – 12 in. diameter black face with black rim and white hands. Features a sweep second hand. Uses one "AA" battery for one year.



Small 24-Hour Clocks – A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

107B Single Clock – 2.25"w x 1"h x 2"d.

108B Dual Clock – 4.25"w x 1"h x 2"d.



112B DXer's World Map Clock – Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month and year. Select 12 or 24 hour time. Dim: 4.25"w x 3.3"h x 2.25"d.



113 12/24 Hour Desk Clock – Switchable 12/24 hour display; 9-minute snooze timer; Alarm function; 9V battery back-up for power failures; 110V AC power cord. Dim: 9"w x 4"h x 2.5"d.



118 Jumbo LCD™ 12/24-hour Clock – 1.75 in. high digits with high contrast LCD. Shows year, month, date and day in four languages. Includes 100 year calendar and flip stand. Uses one "AAA" battery. Dim: 5.25"w x 2.5"h x 0.5"d. **C/O**



121B Giant LCD Dual Time Atomic Clock Read both UTC and local time with a single glance. It features HUGE, easy-to-see 2" tall by 1" wide LCD numerals and can be set independently. Running seconds display. Daylight savings time can be disabled. Automatic backlight lights up every day at your preset time for 8 hours. Silver-metallic, hard-plastic frame. Dim: 11.3"w x 7.2"h x 1"d, wall or desk mount. Uses (4) AA batteries.



123B Solar Powered Atomic LCD Clock No need for batteries or to set time! Solar powered and receives WWVB time signal for accurate time. Display is 3.5"h x 6.25"w with huge 2" time digits. Choose 12 or 24 hour time. Has indoor temperature, running seconds, month/date and day-of-week displays. Attractive silver metallic looks fantastic on the wall or desk mounted in the shack or office! Dim: 9.5"w x 6.25"h x 1"d.

velleman® Inc. ELECTRONIC LAB KITS

Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated manuals for EZ construction • No experience required!



EL-301 30 in 1 Electronic Lab Kit – This great starter kit contains everything you need to build a Radio, a Burglar alarm, Water detector, Morse code practice circuit, Simple computer circuits and much more.



EL-1301 130 in 1 Electronic Lab Kit – Build a Radio; AM broadcasting station; Electronic organ; Kitchen timer; Logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls.



EL-3001 300 in 1 Electronic Lab Kit – Choose from over 300 exciting electronic projects including: Radio; IC organ; Burglar alarm; Battery checker; Delayed Timer; Electronic Game; Voltage controlled amplifier; Multiplier; Multiple counter; Light dimmer; Tone burst generator; Audio signal trace; Electronic candle; Voice level meter; Metal detector; Rain detector; Voltage drop alarm; Logic checker; Function generator and many more.



VECTRONICS RADIO KITS

There are three difficulty levels so you can have fun no matter what your skill level is!

Simple (S): Calls for a few basic tools - a soldering iron, cutters, pliers, wire-strippers, and a small screwdriver.

Intermediate (I): Requires more involved construction - you may use some test gear for final adjustment or tuning. **Moderate (M):** Requires some test gear - usually a multimeter for some final adjustment or tuning.

1140K 40M Receiver Kit (M).

121K Crystal Radio Kit w/Earphone (S).

1240K 40M QRP CW Transmitter Kit (I).

1290K AM Radio Transmitter Kit (S).

131K Aircraft Receiver Kit (I).

201K CW Keyer Kit (S).

830K SSB Audio Filter Kit (S).

CLOSEOUT

Q-VIEW QSL Card Holders



Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily. The pack of three will display 60 cards .. **ART QSLCARDHOLDER** (3 pack)



The Sticky Pad holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

STI 13810 – Dim: 7.25 in. x 4.13 in.

STI 13820 – Dim: 8.75 in. x 6.875 in.

PDK Technologies



3-Pack!

LITE FLARE® Emergency Signaling Device Eliminates the fire and environmental hazards of using incendiary flares. Approaching drivers can see the flashing bright red LED lights from more than a mile away during clear conditions. Operates over 400 hours on just two included AA batteries. The LiteFlare® stands up to repeated drive overs and the molded plastic case resists snow, water and fuel spills. Comes with three units in a plastic bag that fits into motorcycle storage compartments, glove boxes or trunks. Dim: 4.25"l x 3.8"w x 1"d; 6 oz.

HOUSE of DEALS LED Flashlight



FL-3232T 32-LED Flashlight.

- Sturdy, metal body • Very bright
- Dim: 12 x 2-1/4 in. diameter
- Powered by (3) "D" batteries (not included)

MFJ HAM & WIFI ANTENNAS



1762 3-Element 6 Meter Beam (Left)

Quadruples your effective radiated power over 1/2-wave dipole. Boom length: 6 ft.; Weight: 2 lbs; Power: 300W PEP SSB. Mounts vertically or horizontally, turns easily with a TV rotator.

1763 Portable 3-Element 2 Meter Beam (Right)

Elements simply screw into the boom, set up or take it down in seconds. Use it vertically on FM or horizontally for SSB. Boom length: 2.5 ft.; Weight: 2 lbs. Mounts to mast or tower leg with a single included U-bolt. SO-239 rear connector.



1800 – 16-Element Wi-Fi Yagi – Covers 2.4 GHz with 15dBi gain which greatly extends the range of 802.11b/g/n Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes interfering signals. It has a built-in N-type female connector and can mount on a camera tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mount. Precision punched aluminum construction. Boom length: 18 in. weight 2.9 oz.

5606SR – 6 ft. cable with N-type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g/n device with a reverse SMA connector.

How Does Your Antenna Measure Up?

The exciting new CAA-500 Antenna Analyzer by Comet provides simultaneous display of SWR and impedance readings from 1.8 to 500 MHz!

The Primary Tool For Any Antenna Project

- Dual cross-meter real-time display of SWR and Impedance with high accuracy.
- Seven frequency ranges (Including 222 MHz) extending up to 500 MHz!
- Thumb-wheel frequency adjustment for effortless sweeps of antenna operating range.
- Two antenna jacks, "SO-239" and "N" (above 300 MHz).
- Internal battery power or external DC (8 - 16 Volts).



222 MHz band Included!



For a complete catalog, call or visit your local dealer.
Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710
909-393-6133 800-962-2611 FAX 909-393-6136 www.natcommgroup.com

Cut along dotted line or make Photocopy

Cut along dotted line or make Photocopy

Cut along dotted line or make Photocopy

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 W
Browse Our Store On-Line at www.aesham.com

COD ORDERS

Minimum COD order is \$50.00 in merchandise and shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a \$11.00 COD fee per package applies. Payment by money order or certified check only, not cash.

DAMAGED ITEMS

If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY.** The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

DEFECTIVE ITEMS

Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. It is the customer's responsibility to return the defective merchandise to AES or the factory. The manufacturer's warranty does not include reimbursement for freight charges. Canadians please see "Canadians Note:" under TRADE-INS.

INTERNET ORDERS

You can order directly via our website - www.aesham.com. If you have any problems using our website or would like to speak to a salesman; call any of our locations for support.

PAYMENT

Accepted forms of payment are electronic bank transfer (add \$50.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

PRICING

We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc. prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. AES is not responsible for typographical errors or omissions.

REFUNDS

Amounts under \$5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

RETURNS

In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee**. The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. We reserve the right to charge back actual outbound freight on returns from flat-rate or prepaid shipments. No returns on antennas, towers, cable, items drop-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see "Canadians Note:" under TRADE-INS.

REFUSED ORDERS

If a package is refused by the customer the actual outbound freight and actual inbound freight charges by the carrier will be deducted from the return. Packages returned by the customer unopened will only be subject to actual outbound freight. AES also reserves the right to charge a minimum 15% restocking fee to the return.

PACKING FOR SERVICE AND/OR RETURN

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. **Send your package insured.**

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

SHIPPING

Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax (see chart on the right for rates). Cancellations on partially shipped orders will not affect

the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES via UPS Ground Service to the contiguous 48 states only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart below for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods or USPS.

Shipments to APO/FPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges (including COD fees) are taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks most items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches due to various reasons. In this case, AES will ship the order from the closest location that has the needed item.

In a small part of our attempts to be more "Green" please excuse the use of boxes which contain logos and products of other companies.

TRADE-INS - CALL BEFORE SENDING

Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments are not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

Canadians Note: Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

BIDS & PURCHASE ORDERS

AES accepts written and signed Purchase Orders from companies well rated by D&B, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the opportunity to bid on your equipment requests. We are registered with FACNET, CCR, ARC, ORCA and accept Government issued credit cards. For more information please contact any AES location.

SPECIAL ORDERS

Occasionally manufacturers offer items that AES doesn't stock. Often we can order these items for you. Please contact sales: info@aesham.com for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

INTERNATIONAL ORDERS

AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via **Bank Wire Transfer** or **Western Union®**. Please contact us for the information to send funds. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact info@aesham.com for complete details. All international regulations apply.

EU COUNTRIES

Due to current European Union (EU) regulations, AES CANNOT export many products to EU member countries and members of the European Economic Area (EEA).

FLAT RATE SHIPPING via UPS Ground in the contiguous 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to \$99.99	\$4.99
\$100.00 to \$499.99	\$9.99
\$500.00 to \$1499.99	\$14.99
\$1500.00 & UP	FREE!
<i>Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii</i>	
Flat Rate Advantage - No Penalty for Number of Cartons or Weight!	
UPS cannot deliver to Post Office Boxes	

Our Experienced Sales Staff at your Service...

MILWAUKEE, WI 1-800-558-0411 • 414-358-0333 • milwaukee@aesham.com



GARY L. KA9YTB



PAUL W9KHO



JIM WJ9P



TOM W9TJP

**National Sales
Manager**



JEFF N9EDQ

Assistant Manager



GREG K9XBX

CLEVELAND, OH 1-800-321-3594 • 440-585-7388 • cleveland@aesham.com



BEN AA8AH

Store Manager



MIKE KC8NMW

Assistant Manager



PHILLIP KB8GA



MATT W8DEC



ED K8CVZ

LAS VEGAS, NV 1-800-634-6227 • 702-647-3114 • lasvegas@aesham.com



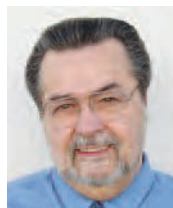
LUKE KK7XX

Store Manager



JULIO KP4UZ

Assistant Manager
Hablo español
Ich spreche Deutsch



ART K7ZE



BILL W6EIO

ORLANDO, FL 1-800-327-1917 • 407-894-3238 • orlando@aesham.com



JIM W9QC

Store Manager



GRANT K4IQW



EDDIE KD4RAZ

Hablo español



CARLOS K2CMR

Hablo español



BART AI4NF

CALL 414-358-4087 for SERVICE

Unlike some dealers, when you purchase a new radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.

Warranty Service

Please refer to manufacturers' warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

Out-Of-Warranty, Late Model Equipment

Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by calling the Milwaukee Service Department at 414-358-4087.

Shipping Equipment for Service

Before sending your item, make sure you contact our service department and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.



MILES, K9HMQ SERVICE MANAGER
(Milwaukee Store)

AES Milwaukee is looking for Electronic Technicians to repair amateur radio equipment. Please contact Miles for more information.

Always include the following along with the item being shipped:

- A detailed note describing the problem(s)
- Your address, day-time phone number and email address
- A copy of the original invoice, if item is still under warranty
- The method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service" and always adequately insure your items.

Labor Rates

- \$72 per hour for Out-Of-Warranty Service
- \$96 minimum on HF/VHF Base Stations
- \$72 minimum on VHF/UHF Mobiles and Handhelds
- Rates do not include Parts, Return Shipping or Handling Charges

SHIPPING INFORMATION

FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

AMOUNT OF ORDER

SHIPPING CHARGES

Up to \$99.99	\$4.99
\$100.00 to \$499.99	\$9.99
\$500.00 to \$1499.99	\$14.99
\$1500.00 & UP	FREE!

Flat Rate Does Not Apply To Drop Shipments or UPS Ground Shipments to Alaska or Hawaii

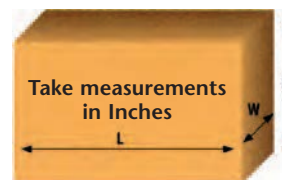
(Flat Rate Advantage - No Penalty for Number of Cartons or Weight!)

EXCEPTIONS TO RATES ABOVE

Optional UPS (Red, Blue & Orange) and any Fedex or USPS method is charged at the Published Rate without any credit for UPS Ground rates. COD is not accepted for these other methods. Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges (including COD fees) are taxable in WI, OH, FL & NV.

Please see **Policies Page** for complete information.

TRACKING NUMBERS for out-bound shipments are gladly given. Call our local number, 414-358-0333, and ask for your Tracking Number. Or send us an email to info@aesham.com.



$$\frac{\text{Domestic Ground / Air}}{L \times W \times H} = \frac{\text{Dimensional Weight}}{166}$$

$$\frac{\text{International Air}}{L \times W \times H} = \frac{\text{Dimensional Weight}}{139}$$

Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association (ISTA) Procedure 3-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

Dim Weight

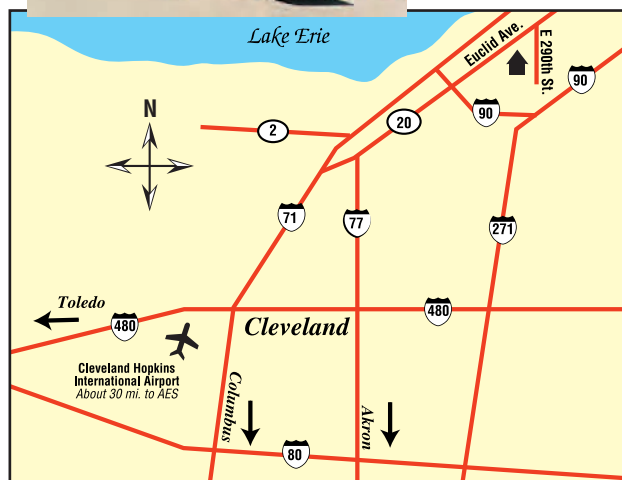
When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 15 pound rate via Domestic Air.

We Invite You to Visit the Nearest AES® Location

All Store Hours: Monday–Friday • 9am to 5:30pm, Saturday • 9am to 3pm
Check our our D-Star repeaters when visiting Milwaukee, Orlando and Las Vegas!



CLEVELAND, OHIO



28940 Euclid Ave. • 1-800-321-3594 • 440-585-7388



MILWAUKEE, WISCONSIN

**AES Milwaukee
D-Star Repeater:**
K9AES 145.235 -0.6

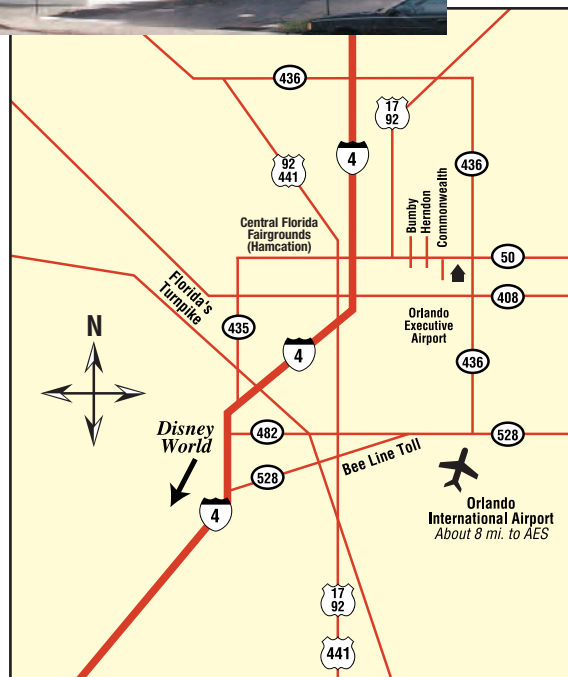


5710 W. Good Hope Rd. • 1-800-558-0411 • 414-358-0333



ORLANDO, FLORIDA

**AES Orlando
D-Star Repeaters:**
W4AES 443.625 +5
KJ4MMC 145.29 -0.6
1291.3 -20 DV
1251.3 DD



621 Commonwealth Ave. • 1-800-327-1917 • 407-894-3238



LAS VEGAS, NEVADA

**AES Las Vegas
D-Star Repeaters:**
W7AES 145.145 -0.6
449.575 -5
1282.39 -12 DV
1299.39 DD

4640 South Polaris Ave. • 1-800-634-6227 • 702-647-3114

ALINCO See – GRE America

ALPHA DELTA / OUTBACKER / KENT

Call for mailing address
606-598-2029 • fax: 606-598-4413
jfburns@windstream.net

AMERICAN RADIO RELAY LEAGUE

225 Main St.
Newington, CT 06111
860-594-0200 • fax: 860-594-4285
hq@arrl.org

AOR U.S.A.

20655 S. Western Ave. Suite 112
Torrance, CA 90501
310-787-8615 • fax: 310-787-8619
info@aorusa.com

ARROW ANTENNAS

911 E. Fox Farm Road #2
Cheyenne, WY 82007
307-222-4712
info@arrowantennas.com

ASTRON CORPORATION

9 Autry
Irvine, CA 92618
949-458-7277 • fax: 949-458-0826
astroncorporation@yahoo.com

AVMAP

133 Falmouth Rd.
Mashpee, MA 02649
800-363-2627 • fax: 508-597-7331
www.avmap.us

BENCHER / BUTTERNUT

241 Depot Street
Antioch, IL 60002
847-838-3195 • fax: 847-838-3479
bencher@bencher.com

BETTER RF COMPANY

44 Crestview Lane
Edgewood, NM 87015
505-286-3333 • fax 505-281-2820
w6ter@att.net

BILAL COMPANY (ISOTRON ANTENNAS)

137 Manchester Drive
Florissant, CO 80816
719-687-0650 phone/fax
www.isotronantennas.com
WD0EJA@isotronantennas.com

CABLE X-PERTS

5801 W. Hill St
McHenry, IL 60050
800-828-3340 • fax: 847-391-9103
info@cablexperts.com

C CRANE COMPANY

1001 Main St.
Fortuna, CA 95540
800-522-8863 • fax: 707-725-9060
customerservice@ccrane.com

COMET ANTENNA See – NCG Co.

COMMUNICATIONS SPECIALISTS

426 West Taft Ave.
Orange, CA 92865
800-854-0547 • fax: 800-850-0547
sales@com-spec.com

DAVIS INSTRUMENTS

3465 Diablo Ave.
Hayward, CA 94545
510-732-7814 • fax: 510-670-0589
support@davisnet.com

DIAMOND ANTENNA/RF PARTS

435 South Pacific St.
San Marcos, CA 92078
770-614-7443 • fax: 770-614-7480
diamondantenna@rfparts.com

GAP ANTENNA PRODUCTS

99 North Willow St.
Fellsmere, FL 32948
772-571-9922 • fax: 772-571-9988
contact@gapantenna.com

GLEN MARTIN ENGINEERING

2101 W. Broadway # 103
Columbia, MO 65203
800-486-1223 • fax: 660-882-7200
info@glenmartin.com

GRE AMERICA

425 Harbor Blvd.
Belmont, CA 94002
650-591-1400 • fax: 650-591-2001
www.greamerica.com

GRUNDIG / ETON

1015 Corporation Way
Palo Alto, CA 94303
650-903-3866 • fax: 650-903-3867
customersvc@etoncorp.com

HARGER LIGHTNING & GROUNDING/

POLYPHASE

301 Ziegler Drive
Grayslake, IL 60030
800-842-7437 • fax: 847-548-8755
hargersales@harger.com

HEIL SOUND

5800 N. Illinois St.
Fairview Heights, IL 62208
618-257-3000 • fax: 618-257-3001
info@heilsound.com

HUSTLER (NEWTRONICS)

225 Van Story Road
Mineral Wells, TX 76067
940-325-1386 • fax: 940-325-5077
service@new-tronics.com

ICOM AMERICA

2380 116th Avenue N.E.
Bellevue, WA 98004
425-454-8155 • fax: 425-454-1509
Tech Support: 800-253-1498
amateur@icomamerica.com

ICOM SERVICE CENTER – MICHIGAN

1792 Nash Drive
St. Joseph, MI 49085
269-429-2334

ICOM SERVICE CENTER – SOUTH EAST

1140 Watkins Road
Anderson, SC 29625
864-222-3539 • fax: 864-222-3538

INTERNET LABS (DV DONGLE)

PO Box 7697
Atlanta, GA 30357
www.dvdongle.com

JSC WIRE & CABLE

35 Industrial Drive
PO Box 248
East Longmeadow, MA 01028
413-525-2292 • fax: 413-526-9688
www.jscwire.com

KANTRONICS

14830 W 117th Street
Olathe, KS 66062
913-825-0390 • fax: 913-322-9234
service@kantronics.com

KENWOOD COMMUNICATIONS

P.O. Box 22745
Long Beach, CA 90801-5745
310-639-4200 • fax: 310-761-8290
kcc-amateur@kenwoodusa.com
www.kenwood.net

KENWOOD SERVICE CENTER-WEST

FTH Group Inc. dba KASC-Pacific
16685 E. Johnson Drive
City of Industry, CA 91745
626-333-2435

KENWOOD SERVICE CENTER-EAST

Audio Video Service Lab Inc. dba KASC-East
829 Lynnhaven Parkway Ste 130
Virginia Beach, VA 23452
757-340-1702

LA CROSSE TECHNOLOGY

2809 Losey Blvd South
La Crosse, WI 54601
608-782-1610
support@lacrossetechnology.com

LAIRD TECHNOLOGIES

1751 Wilkening Ct.
Schaumburg, IL 60173
847-839-6000 • fax: 847-519-9682
www.lairdtech.com

LARSEN ANTENNAS

3611 NE 112th Ave.
Vancouver, WA 98682
360-944-7551 • fax: 360-944-7556
www.larsen-antennas.com

LDG ELECTRONICS

1445 Parran Rd.
St. Leonard, MD 20685
410-586-2177 • fax: 410-586-8475
ldg@ldgelectronics.com

M2 ANTENNAS

4402 N. Selland Ave.
Fresno, CA 93722
559-432-8873 • fax: 559-432-3059
www.m2inc.com

MFJ ENTERPRISES

(AMERITRON, CUSHCRAFT, HYGAIN, MIRAGE, VECTRONICS)

300 Industrial Park Rd.
Starkville, MS 39759
800-647-1800 • fax: 662-323-6551
mfjcustserv@mfjenterprises.com
(AMERITRON) 662-323-8211
ameritron@ameritron.com
(CUSHCRAFT) 662-323-5803
cushcraftamateur@mfjenterprises.com
(HY-GAIN) 662-323-9538
hygain@mfjenterprises.com
(MIRAGE) 662-323-8287
mfjcustserv@mirageamp.com
(VECTRONICS) 662-323-5800
mfjcustserv@vectronics.com

MAHA ENERGY

1128 Coiner Ct.
City of Industry, CA 91748
800-376-9992 • fax: 626-363-9010
www.mahaenergy.com

NCG CO. (COMET, DAIWA, MALDOL)

15036 Sierra Bonita Ln.
Chino, CA 91710
800-962-2611 • fax: 909-393-6136
sales@natcommgroup.com

PALSTAR

9676 N. Looney Road
Piqua, OH 45356
800-773-7931 • fax: 937-773-8003
info@palstar.com

POWERWERX

263 N Berry St
Brea, CA 92821
714-674-0073 • fax: 714-674-4949
www.powerwerx.com

RT SYSTEMS, INC.

510 Compton Street, Ste 105
Broomfield, CO 80020-1651
404-806-9561 • fax: 404-671-9383
techsupport@rtsystemsinc.com

RADIOWAVZ

735 Lakeside Plz.
Lake Saint Louis, MO 63367
636-442-1320 • fax: 866-201-0593
www.radiowavz.com

SANGEAN AMERICA

2651 Troy Avenue
South El Monte, CA 91733
888-726-4326 • fax: 626-579-6806
info@sangean.com

SAMLEX AMERICA

Call for mailing address
604-525-3836 • fax: 604-525-5221
tech@samlexamerica.com

SGC

13737 SE 26th St.
Bellevue, WA 98005
425-746-6310 • fax: 425-746-6384
sgc@sgcworld.com

SIGNALINK (TIGERTRONICS)

154 Hillview Dr.
Grants Pass, OR 97527
Tech Support: Mon, Wed, Fri @ 1-5pm PDT
541-862-2639 • tigertronics.com

SMILEY ANTENNA CO.

9884 Bon Vue Dr.
El Cajon, CA 92021
619-579-8916 • fax: 619-579-8598
bill@htantennas.com

TIMES MICROWAVE SYSTEMS

358 Hall Ave.
Wallingford, CT 06492
800-TMS-COAX • fax: 203-949-8423
jlanoue@timesmicrowave.com

TIMEWAVE TECHNOLOGY

27 Empire Dr., Suite 110
St. Paul, MN 55103
651-489-5080 • fax: 651-489-5066
techsupport@timewave.com

UNIDEN

4700 Armon Carter Blvd
Fort Worth, TX 76155
817-858-3300 • fax: 817-858-3333
www.uniden.com

UNIVERSAL TOWERS

43900 Groesbeck Hwy.
Clinton Township, MI 48036
586-463-2560 • fax: 586-463-2964
univ@voyager.net

US TOWER CORPORATION

1099 W. Ropes Ave. Woodlake, CA 93286
559-564-6000 • fax: 559-564-6011
or 702 E. North St. Lincoln, KS 67455
785-524-9966 • fax: 785-524-9908
www.ustower.com

VIBROPLEX

2906 Tazewell Pike, Suite A2B
Knoxville, TN 37918
865-247-6792 • fax: 865-247-6795
vibroplex@vibroplex.com

W4RT ELECTRONICS

3077-L Leeman Ferry Rd
Huntsville, AL 35801
fax: 256-880-3866
info@w4rt.com

W5YI GROUP

P.O. Box 565101
Dallas, TX 75356
817-274-0400 • fax: 817-548-9594
sales@w5yi.org

WEST MOUNTAIN RADIO

1020 Spring City Drive
Waukesha, WI 53186
262-522-6503 • fax: 262-522-6504
www.westmountainradio.com

WOUXON See – Powerwerx

YAESU

6125 Phyllis Drive
Cypress, CA 90630
714-827-7600
customerservice@yaesu.com

LINKS to other MANUFACTURERS' WEBSITES at www.aesham.com

- Triple-conversion super-heterodyne receiver architecture, using 69.450 MHz 1st IF
- Eight narrow, band-pass filters in the RF stage eliminate out of band interference and protect the powerful 1st IF
- 1st IF 3 kHz Roofing filter included
- High-speed Direct Digital Synthesizer (DDS) and high-spec Digital PLL for outstanding Local Oscillator performance
- Original YAESU IF DSP advanced design, provides comfortable and effective reception. IF SHIFT / IF WIDTH / CONTOUR / NOTCH / DNR
- DSP enhancement of Transmit SSB/AM signal quality with Parametric Microphone Equalizer and Speech Processor
- Built-in high stability TCXO (± 0.5 ppm after 1 minute@77 ° F)
- Built-in automatic antenna tuner ATU, with 100 memories
- Powerful CW operating capabilities for CW enthusiasts
- Five Voice Message memories, with the optional DVS-6 unit
- Large Multi-color VFD (Vacuum Fluorescent Display)
- Optional Data Management Unit (DMU-2000) permits display of various operating conditions, transceiver status and station logging.
- Optional RF μ -Tune Units for 160 m, 80/40 m and 30/20 m Bands

DMU-2000
Data Management Unit (option)

 **YAESU**
Choice of the World's top DX'ersSM
Vertex Standard
US Headquarters
10900 Walker Street
Cypress, CA 90630 (714)827-7600

The radio YAESU ...

The Dawn of a New Era Dynamic Range 112 dB/IP3 +40 dBm

The New Premium HF/50 MHz Transceiver **FT DX 5000 Series**



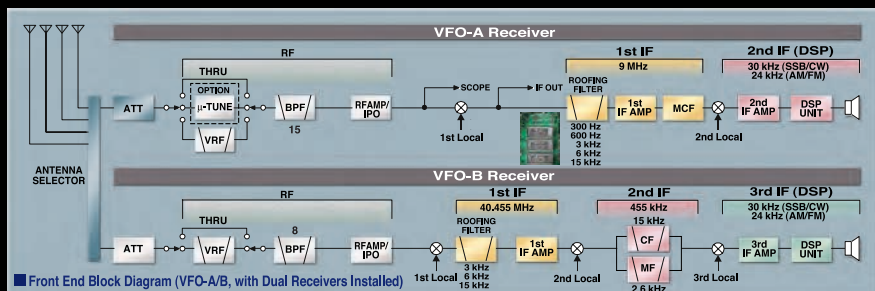
Two Totally Independent Receivers - The VFO-A/Main Receiver utilizes Super Sharp Roofing filters to give you the highest performance and best flexibility

The tight shape factor 6 pole crystal filters and D Quad Double Balanced Mixer design afford incredible improvement in 3rd - Order dynamic range and IP3 performance

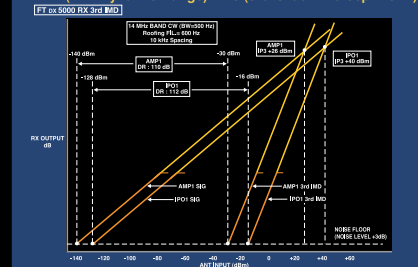


Superb 3rd-Order Dynamic Range and 3rd-Order Intercept Point (IP3)

You will be pleased with the astounding 112 dB dynamic range and superb IP3 + 40 dBm at 10 kHz separation (CW/500 Hz BW). Experience the unmatched close-in dynamic range of 105 dB, IP3 +36 dBm at 2 kHz separation (CW/500 Hz BW)! (VFO-A/Main Receiver, 14 MHz, IPO-1)



■ IDR (IMD Dynamic Range) / IP3 (3rd-Order Intercept Point)



**HF/50 MHz 200 W Transceiver NEW
FT DX 5000MP**

Station Monitor SM-5000 included
± 0.05ppm OCXO included
300 Hz Roofing Filter included

**HF/50 MHz 200 W Transceiver NEW
FT DX 5000D**

Station Monitor SM-5000 included
± 0.5ppm TCXO included
300 Hz Roofing Filter optional

**HF/50 MHz 200 W Transceiver NEW
FT DX 5000**

Station Monitor SM-5000 optional
± 0.5ppm TCXO included
300 Hz Roofing Filter optional

**For the latest Yaesu news, visit us on the Internet:
<http://www.yaesu.com>**

Specifications subject to change without notice. Some accessories and/or options may be standard in certain areas. Frequency coverage may differ in some countries. Check with your local Yaesu Dealer for specific details.

YAESU
Choice of the World's top DX'ersSM
Vertex Standard US Headquarters
10900 Walker Street Cypress, CA 90630 (714) 827-7600

AMATEUR ELECTRONIC SUPPLY

5710 W. Good Hope Road
Milwaukee, WI 53223



- Going on our 56th Year!
- Knowledgeable & Friendly Staff
- Complete Inventories
- Competitive Pricing
- Service Department
- Order via:
Phone, Mail or On-Line

1-800-558-0411
www.aesham.com



\$89.99

NEW!



ProSet 3 Stereo Headset

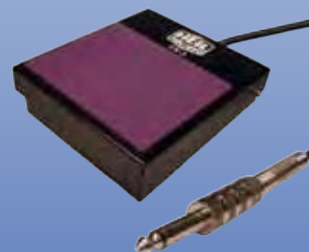
- Extreme comfort, fidelity and articulation
- Helps to 'dig out' weak signals
- Listen to high quality audio
 - Perfect for C.W.
- Comes with 6' straight and 8' coil cables



HM-12

\$69.99

- Great full range response
- High output
- Works on practically all radios



FS-3

\$25.99

- Single channel footswitch
- Durable 8' cable
- High quality 1/4" plug



www.heilsound.com
HAMNation on [twit.tv/hn](https://twitter.com/HamNation)

www.facebook.com/HeilSoundRadio **www.twitter.com/HeilSound**

