TS-990S

HF/50MHz TRANSCEIVER

For Real DX'ers

KENWOOD

KENWOOD

Price Guide

Ham Radios

Radio Accessories

Antennas

Antenna Accessories

Publications

Other Radios

AV / Tools / WX

AES Information

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.

(∆) 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.

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AES (AES)
14 ANT WIRE #14 stranded antenna wire per ft.
14 ANT WIRE ....**100** ft. cut
14 ANT WIRE ....**3000** 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 .D
SP-U 1.6kw 600MHz UHF surge protector ...D
  AP Replacement arc-plug for SP-N/SP-U D

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

*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 Price
AES. Exports: inquire.

ARRL (ARR)
4050 2013 softcover Radio Amateur's HB w/CD
4197 2013 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 ....∆
7377 1998 ARRL Periodicals CD-ROM ....D
7881 1999 ARRL Periodicals CD-ROM ....∆
8209 2000 ARRL Periodicals CD-ROM ....D
8632 2001 ARRL Periodicals CD-ROM ....∆
8802 2002 ARRL Periodicals CD-ROM ....∆
9124 2003 ARRL Periodicals CD-ROM ....∆
9396 2004 ARRL Periodicals CD-ROM ....D
9574 2005 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 ant Book w/CD 22nd ed .....D
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 ....
4784 Care and Feeding of Transmission Lines
3862 DXCC Countries List April 2012 ....
9884 DXCC Handbook ....D
9388 Emergency Communication Handbook D
6153 Emergency Power for Radio Comms 2nd ed
5170 Extra Class License Manual 10th ed w/CD
4708 Extra Class Q & A Manual 3rd 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 ....
9361 Hints and Kinks 17th edition ....
3244 Ham Radio for Arduino and PICAXE .....
5200 Hints and Kinks 18th edition ....
4920 Introduction to RF Design ....D
1250 Log Book ....
5828 Low Power Communications 4th edition
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
5965 Operating Manual 10th edition ....
4845 Amateur Radio Public Service Handbook
9310 RF Amplifier Classics ....
6621 RF Exposure and You ....
0915 RFI Book 3nd edition ....

ARRL - continued   AES Price
3077 Radios to Go ....
0922 Remote Operating for Amateur Radio ..
5347 2012/13 pocket size Repeater Directory
5485 2012/13 desktop edition Repeater Directory
9857 Satellite Handbook ....
5798 Short Antennas for 160 Meter Radio ....
8624 Simple and Fun Antennas for Hams ....
8393 Small Antennas for Small Spaces ....
1424 Software Library for Hams 3.0 ....D
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 ..

ALINCO (ALI)
DJ-G7T 2m/440/1.2GHz 5/5/1w HT ....
DJ-G29T 5w 220/2.5w 900 MHz HT ....
  APK-G7 Prog soft/USB cable; DJ-G7T ....
  APK-G29 Prog soft/USB cable; DJ-G29T ......
  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/tie-pin mic w/VOX ....∆
  EME-20* Tie-pin mic & earphone ....D
  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/V27T/V47T/V57T
DJ-175T 5w 2m FM HT ....
  EBP-71 7.4v 1200mah lith ion battery ......

Alinco - continued   AES Price

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 ......Δ
EME-15 Earphone/tie-pin mic w/VOX ......Δ
EMS-47 Spkr/mic w/volume control ....
ERW-4C PC cable ....
ERW-7 USB PC cable ....
ESC-49 Soft case ....

EBP-52N 3.6v 500mah NiMH batt; DJ-S40T .D
EBP-52S 3.6v 500mah NiMH bat; DJ-X3T ...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-105 NiMH batt cgr, less ps; DJ-X3T ... D
EDC-111 Charger for EBP-56N ....Δ
EDH-31 Dry cell battery case; DJ-S40T ....D
EDH-31S Dry cell battery case; DJ-X3T ....D
EDH-32 Cigarette lighter cable for DJ-C7T .Δ
EDS-12 Remote controller cable; DJX30T ...Δ
EME-18 Earphone for DJ-C7T ....Δ
EME-24 Earphone/mic for DJ-C7T ....Δ
EMS-60 Speaker/mic for DJ-C7T ....Δ
ESC-27 Soft case for DJ-S11T ....Δ
ESC-36 Soft case for EBP-48N ....Δ
ESC-40 Soft case for DJ-S45T ....Δ
SW-596 Windows prog software; DJ-596T ..Δ

DR-03T 10w 10m FM Xcvr ....Δ

DR-06T 50w 6m FM Xcvr ....Δ
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 ..

DX-SR8T 160-10m HF Xcvr ....
DM-330MVT 30A switching ps/meter/32A surge
DM-340MVT 30A ps w/meters/35A surge ...
EDS-17 Front remote control kit ....
ERW-4C PC cable ....
ERW-7 USB PC cable ....

ALPHA DELTA (ALP)   AES Price

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 ....

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)

K-1 Bakelite type code key ....
OCM-2K Code oscillator & CW monitor kit ....
OCM-2W Wired oscillator & CW monitor ....

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-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/Icom 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 .

Ameritron - continued   AES Price

AWM-35 3kw PEP mobile SWR/wattmeter .....
QSK-5 Stand alone T/R switch ....
QSK-5PC PC board kit; T/R switch ....Δ
CF-5 Cooling fan for QSK-5 ....
RCS-4 4-pos wireless remote coax switch ....
RCS-8V 160-2m 5-pos remote coax switch ...
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 ..

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

BELDEN (BEL)

52 OHM COAXIAL CABLE
8216 RG-174 (sub-miniature) ....Δ,per ft.
8219 RG-58AU (stranded, foam) .....Δ,per ft.
8219 WHT RG-58AU (white, foam) ...Δ,per ft.
8262 RG-58CU (non-contaminating) Δ,per ft.
9913F7 RG-8U (low loss, flexible) ....per ft.
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.

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 D

170-82 Mercury paddle ....drop ship

ST-1 Single lever keyer paddle, black base ...
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 ....

AES Price

BETTER RF (BET)

706 Tune Control for IC-706 series/IC-718 ....
7000 Screw**dr**iver **Cont**rol* for IC-7000 ....
   *Requires 7000 Tune Control also
7000 Tune Control for IC-7000 ....
I-Mate Msg acc; PRO/PROIII/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
   A-6 6m kit for HF-6VX ....
   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 **Balun**s and Ununs ....
HR Anthology - **Homebrew**ing 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
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 ......

Cbl Xperts - continued   AES Price

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/rt angle BNC male - PL-259
CXP058ARBS-3 3' RG58/BNC male - SO-239
CXP08XCB-3 3' RG8X/male BNCs ....
CXP08XCB-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 ½" 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

Champion Radio (CHR)

Up the Tower Complete tower construction book

Channel Master (CHA)

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

CLOCKS

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 ....D
MFJ **121B** Giant 24/12hr LCD dual time atomic
MFJ **123B** Eternity solar atomic clock ....Δ

COAX SEAL (UNV)

104 ½" 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 CB/WX
29LTD (29LTD Classic) AM Mobile CB ....
29NW Night Watch AM Mobile CB ....
29WXNW ST Night Watch Sound Tracker AM Mob CB/WX
75WX ST Sound Tracker AM Mobile CB w/WX
148GTL SSB/AM Mobile CB ....

Cobra - continued   AES Price

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 .D
SBB-14 6m/2m/440 0/3.5/6db 43" blk mob .
SBB-14NMO 6m/2m/440 0/3.5/6db 43" blk NMO
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 ⅜-24 stud to UHF mobile mt adapter
CK-3-3/8-24 Dlx 2-step 16.5' cbl/3/8-24/UHF
CK-3M Dlx 2-step 9'9" cable w/UHF connectors
CK-3M5 Dlx 2-step 16.5' cable w/UHF connects
CK-3NMO Dlx 2-step 16.5' cable w/NMO/UHF
CK-5N Dlx 13' cable assembly w/type N ....
CM-5M Hvy duty mag mt, coax, max 4' ant ..
CP-5M Hvy duty UHF mt (RS-730) w/16.75' coax
CP-5NMO Hvy duty NMO mt (RS-730) w/16.5' coax
CR-5M Std coax assy, 16.5' coax, UHF conn .
CSC-140J Suction cup window mt w/SMA-F .
CT-5M Trunk lip mount w/16.5' coax ....

Comet - continued

HD-5-3/8-24 HD ⅜-24 lip mt (RS-840) w/16.5' coax
HD-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-660U Wide opening roof rack mount ....
RS-720 Hatch/rear door/tnk multi-adj mt .....
RS-720NMO Hch/rear door/tnk multi-adj NMO mt
RS-730 HD rear van/SUV door/tnk 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-F72GF 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
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 TRIPLEXERS
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 w/leads
CFX-4310C 1.3-150/440/1.2 triplexer, no leads
CFX-5140 HF/6m/2m/440 800/800/500w UHF, no leads

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-JSJ 18" SMA female - SO-239 adapter/cbl
HS-05 18" SMA male - SO-239 adapter/cable
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 ....
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 reverse SMA whip
SMA-209J 2m/440 3" reverse SMA antenna ..

Comet - continued

SMA-501 2m/440/900 1.5" SMA antenna .....
SMA-503 2m/440 8.75" SMA antenna ....
SMA-503J 2m/440 8.75" reverse SMA 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 ......
TS-64DS 64-tone CTCSS prog encoder/decoder D
TS-64WDS 64-tone CTCSS prog encoder/decoder

CONNECTORS

AMPHENOL COAX CONNECTORS (AMP)
83-1SP Silver plated coax plug (PL-259) ......
(CZL) **401TS** Silver plated teflon PL-259 ....Δ
 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 ⅝" 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 ....
(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 adapter ....
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 adapter ....
(JET) **JT-1111** UHF double male adapter ....
(JET) **JT-3140** SMA female to BNC male adapter
(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 ....

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 ....D

Connectors - continued

MH-2 Regular mic holder ....
P-12R 2-contact cigarette plug ....D
P-212 2-outlet cigarette plug adapter ....
P-212B Dual cigarette lighter socket adapter
(DAL) **15-0293** 3.5mm mono phone plug .....Δ
(HOU) **AP-115** ¼" 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 ....D
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, 31' 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 .
MA-160V 160m 36' vertical ant w/radials ....
MA-8040V 80/40m 27' vertical antenna ....
R-6000 80/40/17/15/12/10/6m 19' vertical ....
R-8 40/30/20/17/15/12/10/6m 28.5' vert .....
 R-8GK Guy kit for R-8 ....

Price Guide
Ham Radios
Radio Accessories
Antennas
Antenna Accessories
Publications
Other Radios
AV / Tools / WX
AES Information

Cushcraft - continued — AES Price

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 hdwre
  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 ....D
LAC-4NH 2kw type N gas tube arrestor ....D
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-801SII 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
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 ..

Diamond - continued — AES Price
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 ⅝ wave 47.5" BNC telescopic ant
RH-519 2m/440 8" BNC flexible whip ....
RH-707 2m/440 8¼" BNC tiltable 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-229 220/900 13" flexible whip for DJ-G29T
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
SRJF-10 2m/440 2.75" reverse SMA flex rubber ant
SRHF-40 2m/440 15" SMA flexible rubber gain ant
SRJ-77CA 2m/440 15" reverse SMA rubber ant

MONO-BAND MOBILE ANTENNAS
HF-6CL 6m 86.6" mobile antenna ....
HF-10CL 10m 86.6" mobile antenna ....
HF-20CL 20m 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-73J 2m/440 2/3.4db 20" 10w mini-mag SMA-F
MR-73SMA 2m/440 2/3.4db 20" 10w mini-mag SMA
MR-75J 2m/440 2/3.4db 20" 35w mag SMA-F
MR-75S 2m/440 2/3.4db 20" 35w mag SMA ant
MR-77 2m/440 2.15/3.4db 20" 70w mag ant
MR-77SJ 2m/440 2.15/3.4db 20" 70w mag SMA-F
MR-77SMA 2m/440 2.15/3.4db 20" 70w mag/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 3.7/6.4db 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 Hacth/tnk 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, 6⅜" 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; ⅜-24
  C-101-3/8C Extra cable assembly; K400-3/8C
K-412C Light duty hatch/tnk mt w/coax; UHF mt
K-412CNMO Light duty hatch/tnk mt w/coax; NMO
K-412S Light duty hatch/tnk mt w/coax; UHF/SMA
K-412SNMO Lt duty hatch/tnk mt/coax; NMO/SMA
K-600M Tilt angle SO-239 trunk mt w/cable .
K-600S Tilt angle SO-239 tnk 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 ....
  SS-770R Phasing harness ....
A-430S10 430 10 el 43" boom 13db beam ....
  KB-430 Side mounting bracket/hardware ..
  SB-430 Stacking boom ....
  SS-770R Phasing harness ....
A-430S15 430 15 el 89" boom 14.8db beam .
  SB-430 Stacking boom ....

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SS-770R Phasing harness ....
A-502HB 6m 2 el 2.6' boom 6.3db beam ....
CP-22E 2m 6.5db 9' base antenna ....
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 .....

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 dplxr .
MX-72A HF-2m/440 dplxr/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 dplxr, 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 triplexe

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
RFU-645 Mini-UHF to PL-259 adapter ....
SP-1000 1GHz 400w PEP lightning protector
SP-1000PW 1GHz 400w PEP male/female protector
SP-3000 3GHz 200wPEP N lightning protector
SP-3000P 3GHz 200wPEP N male/female protector
SP-3000W 3GHz 200wPEP 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)   AES Price
EZ 5-16 5' 16 ga steel mast ......pick-up only
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 **Counter**poise ....
  (SYN) **100'** 3/32" 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 △
  Voyager **Counter**poise ....△
  (SYN) **350'** 3/16" 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 ..

GRE (GRE)
PSR-100 Standard heldheld scanner ....D
PSR-120 Standard heldheld scanner ....D
PSR-500 Dig triple trunking handheld scanner D
  100-014 Cig adapter; 100/120/310/500 D
PSR-200U Std mobile/desktop scanner ....D
PSR-410 Triple trunking mobile/desktop scanner D

GLEN MARTIN (GME)
ROOF-TOP TOWERS; $125 MINIMUM ORDER
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
  (YAE) **GS-065** 65mm thrust bearing; mast 1½-2½"
  EL-3744 Concrete L-bolts, set of 8 ....
  LB-3755 Lag bolts, set of 8 (⅜ 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

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.

Green Light Labs (GLL)
GPS-710 Plug and play GPS for TMD-710A ...
  SEP-710-6 6" separation cable kit ....
  SEP-710-24 24" separation cable kit .....D

GRUNDIG/ETON (GRU)   AES Price
FR-600 AM/FM/SW/SAME WX/light/solar/cell cgr D
G-2 Stereo AM/FM/SW/MP3/recording ....
GS-450DL Black portable AM/FM/SW Rcvr w/ps
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 ⅛" copper entrance ground bar kit
GBIS18148AE ⅛" copper station ground bar kit
GEL3AE Package of 5 HD grounding lugs ......
GP1868.78AE ⅛" copper single pt gnd panel kit
  GBX976AE NEMA-4x weatherproof enclosure

HEIL (HEI)
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/adapter; Icom
PSE-6 Pro Set Elite boom mic/headset (HC-6)
PSE-iC Pro Set Elite boom mic/headset; Icom
  AD-1-I Pro-Set 8-pin adapter cord for Icom
  AD-1-IC Pro-Set 8-pin adapter cord; Icom .
  AD-1-ICM ProSet modular adapter cord; Ico
  AD-1-IM Pro-Set modular adapter cord; Ico
  AD-1-K Pro-Set 8-pin adapt cord; Kenwood
  AD-1-KM Pro-Set modular adapt cord; Ken
  AD-1-T Pro-Set 4-pin adapt cord; Ten-Tec
  AD-1-Y Pro-Set 8-pin adapter cord; Yaesu
  AD-1-YM Pro-Set modular adapt cord; Yae
HSTA-IC8 Traveler adapter for Icom 8-pin ....△
HSTA-K8 Traveler adapter for Kenwood 8-pin ....△
HSTA-KM Traveler adapter; Kenwood modular ...△
HTA-IHT Traveler adapter for Icom HT ....△
HTA-VX Traveler adapter; Yaesu VX HT (not VX7) . △

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 Icom electret mic w/cable ....
  CC-1-I 8-pin cable for Icom ....
  CC-1-IM Modular cable for Icom ....
  CC-1-K 8-pin cable for Kenwood ....
  CC-1-KM Modular cable for Kenwood ....
  CC-1-T 4-pin cable for Ten-Tec ....
  CC-1-Y 8-pin cable for Yaesu ....
  CC-1-YM 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-PRO Handi-Mic hand mic/broadcast element
HM-iC Handi-Mic hand mic/electret element; Ico
  CH-1-I8 8-pin coiled cable for Icom ....
  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

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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 stereo 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
CB-1-PTT Classic base w/soft PTT switch ....
Ear Pads for Pro-Set series ....pair
FS-2 Dual switch foot switch ....
FS-3 Single channel foot switch ....
HD-AT 6db headph attenuator, ⅛"m-¼"f adapt D
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 ....
USBQ Microphone preamp w/USB output ......
XLR-3F Cable mt 3-pin female XLR connector
XLR-3M Cable mt 3-pin male XLR connector
XLR-4M Cable mt 4-pin male XLR connector
XT-1 Audio matching xfmr; lo-Z mic/tube Xcvr

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 .....
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 ....

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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 ...
CG-144 2m ⅜-24 ant, 7' high, 5.2db ....
CGT-144 2m trunk mt ant, 7' high, 5.2db .....
CG-220 220 MHz ⅜-24 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 ⅜-24 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 42" white trunk mount CB antenna ...
1C-11B 42" black trunk mt CB antenna ....
1C-56 102" stainless whip ....pick-up only
1C-100 41" white magnetic mount CB ant ..
1C-100B 41" black magnetic mt CB antenna
FG-27S 48" ⅜-24 CB whip ....
HQ-27 55" Power Packer ⅜-24 CB whip ......
HQ-27M 55"Power Packer trunk mt CB ant ..
HQD 55" dual fg mirror mount CB antenna ..
HQT 55" single fg mirror mount CB antenna
RQM 43" magnetic mount CB antenna ....
RTG-27L 25" rain gutter mt CB antenna ....∆
RTM 25" magnetic mount CB antenna ....
RTS-27L 25" roof mount CB antennat ....
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 ...
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-shipments we prefer payment in full with order, however, we will accept your credit

Hy-Gain - continued　　AES Price

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; CD45/HAMIV/T2X .∆
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//tnr/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 ....
　　RC-28 Remote control USB encoder; RS-BA1
　SM-30 Electret desk microphone ....
　SM-50 Dynamic desk microphone ....
　SP-20 Speaker w/audio filters ....D
　SP-23 Speaker w/audio filters ....
　SP-33 Smaller external speaker ....
　SP-34 Speaker w/audio filters ....
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 ....
　　RC-28 Remote control USB encoder; RS-BA1
　SM-30 Electret desk microphone ....
　SM-50 Dynamic desk microphone ....
　SP-20 Speaker w/audio filters ....D
　SP-23 Speaker w/audio filters ....
　SP-33 Smaller external speaker ....
　SP-34 Speaker w/audio filters ....
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 ......
　CT-17 CI-V level converter ....
　RS-BA1 IP remote control software ....
　　RC-28 Remote control USB encoder; RS-BA1
　SM-30 Electret desk microphone ....
　SM-50 Dynamic desk microphone ....
　SP-20 Speaker w/audio filters ....D
　SP-23 Speaker w/audio filters ....
　SP-33 Smaller external speaker ....
　SP-34 Speaker w/audio filters ....
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 ......
　CT-17 CI-V level converter ....
　FL-430 6 KHz 1st IF roofing filter ....

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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 ....
   RC-28 Remote control USB encoder; RS-BA1
SM-30 Electret desk microphone ....
SM-50 Dynamic desk microphone ....
SP-20 Speaker w/audio filters ....D
SP-21 Speaker ....
SP-23 Speaker w/audio filters ....
SP-33 Smaller external speaker ....
SP-34 Speaker w/audio filters ....
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 ...D
AH-4 80-6m 120w auto wire ant tuner ......
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 ....
   RC-28 Remote control USB encoder; RS-BA1
SM-30 Electret desk microphone ....
SM-50 Dynamic desk microphone ....
SP-20 Speaker w/audio filters ....D
SP-21 Speaker ....
SP-23 Speaker w/audio filters ....
SP-33 Smaller external speaker ....
SP-34 Speaker w/audio filters ....
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 Cont**rol 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 ......
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 ....D
FL-222 1.9 KHz 455 KHz IF SSB filter ....
Suggest dealer installation of filters in IC-718
MB-5 Mobile mount ....D
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 ....D
SP-20 Speaker w/audio filters ....D
SP-23 Speaker w/audio filters ....
SP-33 Smaller external speaker ....
SP-34 Speaker w/audio filters ....
SP-35 5w external speaker ....
UT-102 Voice synthesizer ....
IC-7000 Deluxe mini HF/6m/2m/440 Xcvr ... Call/Web
(BET) **7000 Sc**rew**d**river **Cont**rol* for IC-7000
*Requires 7000 Tune Control also
(BET) **7000 Tune Cont**rol for IC-7000 ....
PS-126 25A 4-pin switching power supply Call/Web
AG-25 2m mast mounted GaSFET preamp .
AG-35 430 MHz mast mounted preamp ....D
AH-4 80-6m 120w auto wire ant tuner ...... Call/Web
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 ....D
MB-105A Remote head bracket ....

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MB-106 Carry handle ....
MB-120 Mounting base (MB-105 required) D
MB-F1 Mounting base (MB-105A required)
OPC-599 7+8-pin to 13-pin adapter ....
OPC-742 13-pin cable ....D
OPC-1443 11.5' remote cable ....†
OPC-1444 16' remote cable ....
OPC-1457 Extra DC cable ....
RMK-7000 Package; MB62/MB105/OPC1443 D
RMK-7000-F1 Pack; MB62/MB105A/OPC1443
RS-BA1 IP remote control software ....
   RC-28 Remote control USB encoder; RS-BA1
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 ....D
SP-33 Smaller external speaker ....
SP-35 5w 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 ......
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 ....
   RC-28 Remote control USB encoder; RS-BA1
SM-30 Electret desk microphone ....
SM-50 Dynamic desk microphone ....
SP-10 Slim-line external speaker ....D
SP-20 Speaker w/audio filters ....D
SP-23 Speaker w/audio filters ....
SP-33 Smaller external speaker ....
SP-34 Speaker w/audio filters ....
SP-35 5w external speaker ....
AH-710 1.9-30 MHz 80' folded dipole/98' coax
MB-63 Mounting bkt; 703/706 control panel △
MB-72 Carrying handle; 703/706Mk II-G ...△
OPC-581 11.5' separation cable; 703/706 .△
OPC-587 16' separation cable; 703/706 ...△
OPC-1229 Extra DC cable; IC-703/Plus .....△
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 ....D
  LC-146A Carrying case ....
  SP-13 Earphone ....
RX-7-05 Handheld receiver/cell blkd ....D
  AD-92SMA SMA- BNC adapter ....
  BP-244 3.7v 1100mah lith ion battery ...△
  BP-262 Battery case for 3 AA's ....D
  CP-18A Cig lighter cable ....
  CS-RX7 Cloning software/USB cable; RX-7 △
  CT-17 CI-V level converter ....
  HP-4 Lightweight headphones ....D
  LC-170 Carrying case ....D
  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 .

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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
  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 ....D
  SP-35 5w external speaker ....
  UT-106 Plug-in DSP unit ....△
R-2500-05 Rcvr/rem head/cell blkd spec order D
  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 ....D
  SP-35 5w 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 .....△
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 ....D
  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 ....D
  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 .....
  MB-5 Mobile mount ....D
  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
  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 ....D
  SP-34 Speaker w/audio filters ....
  UT-122 P-25 digital board ....△

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

CS-208 Win cloning software; IC-208H ......△
CS-2200H Win cloning software; IC-2200H △
CS-D800 Cloning software; ID-800 ....△
HM-133S Extra TTP mic; IC-2100H .... △
MB-58 Remote controller bracket; IC-208H D
OPC-601R 23' separation cable; IC-208H ..D

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 ....

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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 ....D
SP-35 5w 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 ....D
  SP-35 5w external speaker ....
  UT-108 DTMF decoder unit ....
  V8000-MMB Extra mobile bracket ....
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 ....D
  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 ....D
  SP-35 5w 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 ....
  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 ....D
  SP-35 5w external speaker ....
ID-880H 50w 2m/440 D-Star ready Xcvr ....
  HM-154 Optional non-TTP hand mic ....
  MB-120 Mounting base platform ....D
  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 ....D
  SP-35 5w 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 ....

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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-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 Carryiing 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 ....
  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 ....
ID-51A 5w 2m/440 FM D-Star HT w/GPS ....
  AD-92SMA SMA- BNC adapter ....
  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-179 Carrying case ....
  OPC-254L Right angle mini DC pwr cable .
  OPC-2218LU Cloning/data cable ....
  SJ-1 Silicon jacket case ....
  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 ....

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IC-V80 5.5w 2m FM HT/battery/charger ....D
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-T70A 5w 2m/440 FM HT/batt/charger ..D
  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 ....
  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-N01 Desk cgr (adapt required) ...... △
  AD-94-11 Adapter cup; BC-119-N01 ..... △
  AD-101 Adapt cup; BP211N/BC119N01 . △
BC-119-N11 Nicad/NiMH desk cgr (use adapt) △
BC-144N/BC144N51 Rapid desk charger ...△
BP-170 Battery case; IC-T7H Sport ....△
BP-208N Battery case; IC-V82/U82 ....△
BP-210N 7.2v 1650mah 5w battery; V82/U82 △
BP-222N 7.2v 600mah 5w battery; V82/U82 △
BP-226 Battery case for 5 AA for IC-V85 ...△
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 △
CS-V8 Cloning software for IC-V8 ....△
CS-V82 Cloning software for IC-V82/U82 ...△
CS-V85 Cloning software for IC-V85 ....△
HM-46 Slim-line speaker/mic; IC-V82/U82 .D
HM-46L Slim-line spkr/mic, rt angle plug ..D
HM-54 Heavy duty spkr/mic; IC-V82/U82 ...△
HM-128 Earphone+microphone; IC-91A .....△
HM-128L Rt angle plug earphone+mic;V82 △
HS-51 Headset w/VOX for IC-V8 ....D
LC-152A Carrying case for IC-T90A ....△
LC-161 Carrying case; IC-P7A ....D
LC-167 Carrying case for IC-V85 ....D
MB-103 Spg loaded belt clip; N-series batts △
RS-91 Rem cont software/RS-232 cbl; 91A △
VS-1L Rt angle VOX-PTT unit for HS-94;V82 △

ACCESSORIES
AG-25 2m mast mounted GaSFET preamp ....
AG-35 430 MHz mast mounted preamp ......D
AH-8000 100-3300MHz discone ant/49'cbl/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-20 Speaker w/audio filters ....D
SP-23 Speaker w/audio filters ....
SP-35 5w external speaker ....

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Antenna Accessories

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CONSUMER ELECTRONICS
A-24 5w air handheld w/NiMH battery ....

Dave INGRAM (ING)
Keys II Book ....
QRP Romps Book ....
World of Keys Book ....
Your Guide to **HF** Fun Book ....

INTERNET LABS (INT)
DV-AP 2m access point for D-Star radios .....
DV-AP-70 70cm access point for D-Star radios
DV-Dongle Computer dongle; internet D-Star

ISOTRON (ISO)
160C 160m 9.5' x 16" x 15" 100 KHz bandwidth ant
80 80m 32" x 16" x 15" 110 KHz bandwidth ant
40 40m 22" x 16" x 15" 250 KHz bandwidth ant
20 20m 21" x 8" x 4" 350 KHz bandwidth ant
15 15m 21" x 1.5" x 4" 450 KHz bandwidth ant
10 10m 16" x 1.5" x 4" 1 MHz bandwidth ant
6 6m 16.5" x 2" x 4" 1.25 MHz bandwidth ant
8040201510Co* 80/40/20/15/10m combo ant
  *2 feedlines required for 8040201510Co
80/40 Combo 80/40m 32" x 16" x 30" 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.
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
5942 4-wire rotor cable; 4-20 gauge ..per ft.
5942 ....**100** ft. cut
5942 ....**1000** 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

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)   AES Price
K-30 35" MagnaMount mobile CB antenna ..
K-40 57.25" blk base loaded roof/tnk 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 rptr listings/SW USA rptr map

KANTRONICS (KAN)
KPC-3 Plus Small packet TNC/512K RAM ......
KPC-**9612 Plus/128K** 9600 controller/128K △
KPC-9612 Plus 9600 controller/512K RAM ....
  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-990S 200w HF/6m Xcvr/ps ....
  HS-5 Deluxe headphones ....
  HS-6 Lightweight headphones ....
  MC-43S 8-pin hand mic w/up-down ....
  MC-60A 8-pin amp desk mic w/up-down ..
  MC-90 2-head DSP desk microphone ....
  SP-990 External speaker ....
TS-B2000 PC ctl HF/6m/2m/430 Xcvr/tuner ...
TS-2000 HF/6m/2m/430 Xcvr/ant tuner ......
  UT-20 1.2GHz module Kenwood install only
TS-2000X HF/6m/2m/430/1.2 Xcvr/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 ....
  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 Xcvr
  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 Xcvr ....
TS-480SAT 100w HF/6m Xcvr 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 ....

Kenwood - continued   AES Price
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 .
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 Xcvr ....
  DFK-3D Detachable front panel kit ....
  MC-59 Extra TTP microphone ....
  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 Xcvr/TNC ...
  MC-59 Extra TTP microphone ....
  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 ....
  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 ....
  MC-59 Extra TTP microphone ....
  MJ-88 Modular to 8-pin mic adapter ....
  PG-2N Extra DC cable ....
  SP-50B High quality external mobile spkr ..
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 ....D
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 ..
  KNB-65L 1520mah lithium 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

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Kenwood - continued   AES Price

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 ....D
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 ....D

KESTER   (KES)

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

KLEINHUIS   (KLE)

1309   Isolated grounding bar ....D

KOSS   (KOS)

KTX/8   Collapsible stereophone w/vol control ...
QZ/5   Passive noise reduction stereophone ....
QZ/99   Noise reduction stereoph w/mono sw .
Race Tracker Black   Passive noise reduction stereoph D
Y-88   Dual stereophone Y-adapter ....

LDG   (LDG)

AT-100ProII   160-6m 1-125w/100w 6m auto tuner
AT-200ProII   160-6m 5-250w/100w 6m auto tuner
AT-600Pro   160-6m 600w/250w 6m auto tuner D
AT-600ProII   160-6m 600w/250w 6m auto tuner
  M-600   4.5" remote meter; AT-600ProII only
AT-897Plus   Bolt-on auto tuner for Yaesu FT-897
AT-1000ProII   1000w PEP HF/250w 6m auto tuner
  M-1000   4.5" remote meter; AT-1000ProII 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-11ProII   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
DM-7800   Dual 4.5" meters for IC-7800 ......D
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   Icom 14" cable; generic LDG tuners .
IC-PAC-6   Icom 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
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 ....
WA-1240U   4-day talking internet forecaster   D

La Crosse - continued   AES Price

WD-3209U   4-day internet forecaster/alerts D
WS-450B   Color forecast station ....
WS-1612CH-IT   Professional wireless WX stn
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-3128U   14.5" atomic analog/LCD dig clock
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 ¼ wave NMO whip ....
AB-SCANC   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 11¹³⁄₁₆" 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
GB-8PSTI   NMO mag mt w/coax & teflon PL259
LBMB-9034   Mirror mt ¾" 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

LAKEVIEW   (LAK)

9160   60m 7' Hamstick antenna ....D
9130   30m 7' Hamstick antenna ....D
9112   12m 7' Hamstick antenna ....D

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 ¼ wave ant (no mt)
NMOQ-Spec-B   136-960 black ¼ wv ant (no mt)
GPS-NMO02   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   ¾" hole NMO mt/coax/PL259

Larsen - continued   AES Price

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-KG2/70   2m/440 replacment on glass whip
W-2/70B   2m/440 black replacement mobile whip
W-490   49" replacement mobile whip ....
W-490B   Black 49" replacement mobile whip

M²   (MSQ)

6M-3SS   6m 6.06db 3el 5' 9" boom beam .....
6M-3   6m 50-50.6 or 51-54 6.4db 3el 6'9" boom
6M-5XHP   6m 50-50.5 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 ....
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 △
  MAG-KIT   Mag mt kit; single 2m-HO-LOOP .
  Mast/Top Bkt   Top bkt for mast; HO stack ..
  STACK-KIT   Stack kit for 2 2m-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"bm 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 △
  MAG-KIT   Mag mt kit; single 432-HO-LOOP
  STACK-KIT-70CM   Stack kit; 2 432-HO-LOOP's △
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/ctl/8wire Drop-Ship

MFJ   (MFJ)

ANTENNA TUNERS
9982   2.5kw continuous w/roller inductor ......
989D   Dlx 1.5kw PEP w/roller inductor ....
986   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 ......

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MFJ - continued   AES Price

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 ....
998RT 1.5kw remote automatic antenna tuner
1316 12vdc 1.2A adapter; auto tuners ......
902 80-10m 150w Travel Tuner ....D
902B 80-6m 150w Travel Tuner ....
903 6m antenna tuner ....
904 80-10m 150w travel tuner w/meter ....
906 6m antenna tuner w/wattmeter ....
914 Auto tuner extender ....
921 2m/220 300w PEP tuner/SWR/wattmeter
923 2m/440 antenna tuner/SWR/wattmeter .
924 440 MHz 300w PEP tuner/SWR/wattmeter
9201 80-10m 25w pocket antenna tuner ......
934 300w tuner w/artificial ground ....

MEMORY KEYERS
451 Dedicated CW keyboard w/memory ....
452 CW keyboard/keyer w/disp/keyboard ......
452X CW keyboard/keyer w/disp, no keyboard
490 492 keyer/Bencher paddle combo ....
490X 492 keyer for use w/Bencher 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 KEYERS
401D Econo keyer ....
407D Deluxe electronic keyer ....

KEYER/PADDLES
422D Keyer/Bencher 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 ....D
1272BYH TNC/mic switch; KAM HF ....△

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 ..

MFJ - continued   AES Price

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 ....
9213 HF 5/30/100w 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 ....
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 ....D
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 magt 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 ....D
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 ....

MFJ - continued   AES Price

1624 40-6m mini bugcatcher antenna ....
1661 40-6m portable manual screwdriver ant
1664 80-6m portable manual screwdriver ant
1710 2m ⅜ 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 BNC 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 ant w/BNC ....
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 ⅜ 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 ....
1740 2m ¼ wave ground plane ant ....
1750 2m ⅝ wave ground plane ant ....
1752 220 ⅝ 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 ⅝ 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 ......
1790 10m 11' vertical antenna ....
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' telescoping whip ....
2286 Big Stick 7-55MHz 8-band portable vert
2289 7-55MHz 8-band portable dipole ....
2980 40-6m 31' Feather-Lite vertical antenna
2982 80-6m 31' Feather-Lite vertical antenna
2990 160-6m 43' vert ant; needs ant tuner .

CABLES
5024YV KAM VHF/KPC3 - Ico/Yae/Ali/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 △
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/Ali 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/TRANSCEIVERS
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 ....

MFJ - continued — AES Price

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 ....each
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
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 ....
288I Headset/mic; Icom/ADI/Sta/RS/older Yae
288K Headset/mic for Kenwood ....
288Y Headset/mic; Ico Q7/Yae FT10/50/VX1 .
292I Earph/mic; Ico/older Yae/compatibles ..
292Y Earphone/mic; Ico Q7/Yae FT10/50/VX1
293I Rubber flex earloop earbud/mic; Icom ..
293K Rubber flex earloop earbud/mic; Kenwood
293Y Rubber flex earloop earbud/mic; Yaesu
295I 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
5397I 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

MFJ - continued — AES Price

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 1⅛" 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 .
392B Deluxe communication headphones .....
414 Professional Morse Tutor w/LCD ....Δ
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 ....pack of 4
704 1kw low-pass filter ....
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
1925I2 Controller; Yae ATAS-series/Ico IC-706

MFJ - continued — AES Price

2822 3/8-24 trailer hitch mount ....
4035MV Dlx 30A adjustable ps, 35A surge ...
4103 Switching power supply; Yaesu FT817/etc
4115 Ultra compact 15A switch ps, 17A surge
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 .
7706 NMO to SO-239 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-200 9.6v 680mah Icom nick hydride/clip D
MH-BP-211LI 7.4v 1800mah Icom Li-ion D
MH-PB-32 6v 1000mah Kenwood nickel hydride D
MH-PB-39H 6v 1800mah Ken nickel hyd/clip 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 . D
AS-20 2m/440 8.5" superflex SMA antenna.D
AS-25 2m/440 1" SMA antenna ....D
AS-30 2m/440 15" superflex SMA antenna ....D
AX-50 2m/440 0/5db 21" mobile antenna ..D
EM-B80 Small trunk/hatch/van door lip mt D
HMC-6S 20/15/10/6/2m/440 66" mob ant .D
HMC-7C 40m loading coil for HMC-6S ....D
HMC-35C 80/75m loading coil for HMC-6S D
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 ....
MK-30H Motorized tnk lip/hatch/van door mt D

MIDLAND (MID)

18-258 On glass mount mobile CB antenna .
21-406 Deluxe mobile speaker w/3.5mm plug
HH-50 Pocket weather alert radio ....
WR-120 SAME WX/hazard alert radio w/ps ...
WR-300 AM/FM/SAME WX/hazard alert radio/ps
XT-511 5 power options AM/FM/GMRS/flashlight

Miracle Antenna (MIA)

Ducker IL In-line HF rcv tuner; HH/QRP xmit
Ducker TL Inline HF rcv tuner/BNC whip; HH/QRP xmit

MIRAGE (MIR)

A-1015G* 50-52 FM/SSB 10/150w amp/preamp
*Manually keyed only
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 ....

Mirage - continued — AES Price

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 Amplifers 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 ....
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 3rd edition .....
E-Z Guide to **Echo**link Operation ....
E-Z Guide to **PSK-31** Operation ....
HF/VHF/**U**HF Bands **Op**erating **Guide** ....
HT-STAND Stand for handheld radio ....
MM-BCD396XT Mini-manual/ref card combo
MM-BCD996XT Mini-manual ....
MM-DJG29 Mini-manual ....
MM-DXSR8 Mini-manual ....
MM-FTDX3000 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-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-ID31A Mini-manual/ref card combo ....
MM-ID880H Mini-manual ....
MM-MFJ259B Mini-manual ....
MM-MFJ269 Mini-manual ....
MM-RADIOMG Radio Monitoring Guide ....
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-VX8R Mini-manual/ref card combo ....

Nifty - continued — AES Price

MM-VX8DR Mini-manual/ref card combo ......
MM-VX8GR Mini-manual/ref card combo ......
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-IC208H Quick reference card ....
QR-IC2200H Quick reference card ....
QR-IC2300H Quick reference card ....
QR-ICT70A Quick reference card ....
QR-ICT90A Quick reference card ....
QR-ICV8 Quick reference card ....△
QR-ICV80 Quick reference card ....
QR-ICV8000 Quick reference card ....
QR-KGUVD1P Quick reference card; KGUV3D △
QR-TM271/281 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 ....

OUTBACKER (OUT)

OB-8HP 75-10m 500w PEP 6' 8-band mob ant
OB-8TRI 75-10m 300w PEP 3pc 6' portable 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
Diamond **K-400-3/8C** ⅜-24 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 ....

PHILMORE (PHI)

BE-240 3/4.5/6/7.5/9/12vdc 800ma adapter

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 1.5-700 2kw/375/125w flange mt
IS-50UX-C1 50-700 375/125w flange mt ...D
IS-B50LN-C2 125-1000 375/125/50w N bulkhead
IS-B50LU-C0 1.5-700 2kw/375/125w bulkhead
IS-B50LU-C1 50-700 375/125w bulkhead mt D
IS-RCT 8-wire rotor control protector ....
  J-1 ½" to 1⅓" bronze transition clamp ....
1C-112S #6-#1 wire - 1½" strap clamp bond D
IX-1TW Single phone line protector ....D

PowerFilm Solar (POF) — AES Price

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

POWERWERX (POW)

APO-3-PP Voltage/time controlled pwr switch D
BT-Junior Battery Tender Junior charging sys
BY-T OEM-T inline Powerpole splitter ....
C20-5 5' 15A cig plug to T-male connector D
C2P-5 5' 15A cig plug to Powerpole ....D
CGPP-72 6' 15A cig plug to Powerpole ....
CigBuddy Cigarette liter 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
HF6SOC-HF4 6p female Molex to new style HF 4p
ITS-12 DC automatic timer/LVD battery guard
LF-1-PP 16A DC noise filter w/30A Powerpoles
P20-5 5' Powerpole to T-male connector ....D
PPH-10 10ga fuseholder w/45A Powerpoles ..
PPH-12 12ga fuseholder w/30A Powerpoles .
PPTM-72 6' Powerpole to T-male connector ..
ACP-30 10-pair 30A rainbow colored 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 .
  110G68-5 Retention clips for 30/45A PP (5) D
  P-CLIP-5 Retention clips for 30/45A PP (5)
  PPC-1 Powerpole weather resistant end cap
  RT-1 Insertion/removel 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 ....
SPS-30DM 25A variable digital meters ps ....
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
TMCG-72 6' 15A cig plug to T-male connector
USB-Buddy Powerpole to USB converter ....
Watt-BLU-PP Watt's Up meter w/Powerpoles D
WattMeter-PP DC meter/analyzer 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
  110G68-5 Retention clips for PP30/45 (5) .
  PPC-1 Powerpole weather resistant end cap
  RT-1 Insertion/removel 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 ....D
RD-78 2m/440/900 15" BNC whip ....

Price Guide
Ham Radios
Radio Accessories
Antennas
Antenna Accessories
Publications
Other Radios
AV / Tools / WX
AES Information

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AES Information

Pryme - continued   AES Price

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 D
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

RF PARTS (See Diamond)

RT SYSTEMS (RTS)
ADMS-950 Prog software/USB cable; FT-950
ADMS-DX3000 Prog soft/USB cable; FTDX-3000D
KRS-271 Prog soft/USB cable; TM-271A/281A
KRS-2000 Prog soft/USB cable; TS-2000 ...
KRS-D72 Programming software; TH-D72A ...
KRS-D710 Prog software/USB cable; TM-D710A
KRS-F6 Prog soft/USB cable; TH-F6A ....
KRS-V71 Prog software/USB cable; TM-V71A
WCS-80-Data Prog soft/USB data cbl; IC80AD
WCS-91 Prog software/USB cable; IC-91A/AD
WCS-92-USB Prog soft/USB cable; IC-92AD .
WCS-208 Prog software/USB cable; IC-208H
WCS-2200 Prog software/USB cable; IC-2200H
WCS-2300 Prog software/USB cable; IC-2300H
WCS-2820-Data Prog soft/USB data cbl; IC2820H
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-D51 Prog software/USB cable; ID-51A ..
WCS-D880-Data Prog soft/USB data cbl; ID880H
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-92D USB data cable for IC-92AD ....
USB-RTS-01 USB to 3.5mm stereo control cable
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

Radiowavz - continued   AES Price

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-U1X 100' RG-8X coax/silver teflon PL259s
P-40* 40-2m adjustable loading coil, less whip
P-80* 80-6m adjustable loading coil, less whip
*Customer must supply 102", 42" or smaller whip, depending on the band desired.
PSTVAS-SMA 6m/2m/220/440 SMA ant sys for vest

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

SANGEAN (SAN)
ATS-404 AM/FM/SW portable receiver w/case ...
ATS-505P AM/FM/SW portable receiver ....
ATS-909X AM/FM/shortwave portable Rcvr ...
RCR-2 AM/FM atomic clock radio ....
WFR-20 Wi-Fi internet radio & media player Δ
WFR-28 Portable Wi-Fi internet radio ....
WR-11 AM/FM wooden cabinet receiver ....
ANT-60 Portable wind-up SWL antenna ....

SEQUOIA (SEQ)
POCKET PC REF Pocket PC reference book ...
POCKET REF Pocket reference book ....

SHAKESPEARE (SHA)
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

Signalink - continued   AES Price

SL-CAB-5PD Extra 5-pin DIN cable ....
SL-CAB-6PM Extra 6-pin mini DIN cable ...
SL-CAB-8PD Extra 8-pin DIN cable ....
SL-CAB-8R Extra 8-pin round mic cable ....
SL-CAB-13I Extra Icom 13-pin DIN cable ..
SL-CAB-13K Extra Kenwood 13-pin DIN cable

Smiley Antenna (SMI)
14610 2m BNC Super Stick ⅝ wv telescopic ant
14620 2m BNC ⅝ Slim Duck rubber ant ....
14626 2m SMA ⅝ 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 ⅜ wave tele whip .
27000 2m/220/440 BNC gain telescopic whip
27006 2m/220/440 SMA gain telesopic whip
44010 440 BNC Super Stick ⅝ wv tele ant ....
44020 440 BNC ⅝ Slim Duck rubber ant ....
TAQ-2 2m ¼ wave stainless whip ....Δ

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

STICKY PAD (STI)
13810 7¼" x 4⅞" sticky pad for handhelds, etc
13820 8¾" x 6⅞" sticky pad for larger items

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' ³⁄₃₂" black double braided rope ....
100' 3/16 ³⁄₁₆" black double braided rope ......
100' 5/16 ⁵⁄₁₆" black double braided rope ......
350' ³⁄₁₆" 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; ⅜-24
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 ⅜" coax cable ....per ft.
LMR-400 ....**500** ft. Roll
LMR-400-DB Watertight ⅜" coax cable per ft.
LMR-400-DB ....**500** ft. Roll
LMR-400-UF UltraFlex ⅜" coax cable ...per ft.
LMR-400-UF ....**500** 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

Price Guide
Ham Radios
Radio Accessories
Antennas
Antenna Accessories
Publications
Other Radios
AV / Tools / WX
AES Information

Timewave - continued   AES Price

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 SO239 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 ...Δ

TUBES (TUB)

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

TWEAKED (TWE)

TATCBKV2 Black stereo earbuds ....Δ
TATCBKMIC Black earbuds/mic; Smartphone Δ

US TOWER (UST)

FREE STANDING CRANK-UPS (not for T²X)

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

FREE STANDING HD CRANK-UP TOWERS

HDX-538 38' crank-up tower ....T
HDX-555 55' crank-up tower ....T
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/motor ....T
HDX-5106MDPL 106' HD crank-up w/motor T

COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS 33' crank-up tower ....T
TMM-433HD 33' HD crank-up tower ....T
TMM-541SS 41' crank-up tower ....T

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' mast ....T
M-15 2" OD 15' mast ....T
M-15R 2" OD 15' reinforced mast ....T
M-20 2" OD 20' mast ....T
M-20R 2" OD 20' reinforced mast ....T
CM-20 2" OD 20' cromolly mast ....T
HDP Service platform ....T
MD-75 Heavy duty 1 HP motor drive ....T
MDP-750* Pull-down drive; TX-472/HDX-555 T
MDPL-1000* Pull-down drive; HDX-572 ......T
*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 tower ....T
MA-550 55' crank-up tubular tower ....T
MA-550MDP* 55' crank-up tubular w/motor T

US Tower - continued   AES Price

MA-770* 70' crank-up tubular tower ....T
MA-770MDP* 70' crank up tubular w/motor T
MA-850* 85' crank-up tubular tower ....T
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-40 ....T
MAB-550 Hinged base for MA-550 ....T
MAB-770 Hinged base for MA-770 ....T
MAB-850 Hinged base for MA-850 ....T
MAF-40 Raising fixture for MA-40 ....
MAF-550 Raising fixture for MA-550 ....T
MAF-770 Raising fixture for MA-770 ....T
MAF-850 Raising fixture for MA-850 ....T
MARB-40 Rotor base accessory for MA-40 ..T
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

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UNADILLA (See W2AU)

UNIDEN (UNI)

BC-980SSB SSB/AM Mobile CB ....
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 ....

UNIDEN BEARCAT

Home Patrol Easy to use programmed scanner
BC-125AT 500 ch handheld scanner ....
BC-340CRS 100 ch scanner w/SAME WX ......
BC-355C 300 ch prog/service search ....D
BC-355N 300 ch prog/svc search/narrowband
BC-370CRS 300 ch scanner/800/SAME WX D
BCD-996XT Prog scanner/trunk/SAME WX/dig
BCT-15X Prog scanner/800/trunk ....
BC-72XLT 100 ch pocket scanner ....
BC-95XLT 200 ch prog pocket scanner/800 D
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-245XLT ....Δ

Unified Microsystems (UNM)

BCD-14 Band data board for Yaesu ....
VK-64 CW/voice keyer ....
  KC-4 CW cable for VK-64 to transceiver ....
  VKC-8 8-pin audio cable for VK-64 to Xcvr
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)   AES Price

4-30 4 sq ft wind load 30' alum tower ....T
9-30 9 sq ft wind load 30' alum tower ....T
12-30 12 sq ft wind load 30' alum tower ....T
21-30 21 sq ft wind load 30' alum tower ....T
23-30 23 sq ft wind load 30' alum tower ....T
35-30 35 sq ft wind load 30' alum tower ....T
4-40 4 sq ft wind load 40' alum tower ....T
7-40 7 sq ft wind load 40' alum tower ....T
9-40 9 sq ft wind load 40' alum tower ....T
12-40 12 sq ft wind load 40' alum tower ....T
15-40 15 sq ft wind load 40' alum tower ....T
21-40 21 sq ft wind load 40' alum tower ....T
23-40 23 sq ft wind load 40' alum tower ....T
4-50 4 sq ft wind load 50' alum tower ....T
5-50 5 sq ft wind load 50' alum tower ....T
7-50 7 sq ft wind load 50' alum tower ....T
9-50 9 sq ft wind load 50' alum tower ....T
15-50 15 sq ft wind load 50' alum tower ....T
16-50 16 sq ft wind load 50' alum tower ....T
4-60 4 sq ft wind load 60' alum tower ....T
6-60 6 sq ft wind load 60' alum tower ....T
7-60 7 sq ft wind load 60' alum tower ....T
9-60 9 sq ft wind load 60' alum tower ....T
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
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

Universal - continued   AES Price

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 ....
1-1/4" OD x 10 ft aluminum mast ....T
1-1/2" OD x 5 ft aluminum mast ....
1-1/2" OD x 10 ft aluminum mast ....T
2" OD x 8 ft aluminum mast ....
2" OD x 16 ft aluminum mast ....T

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VANCO (VCO)

CL-3 Extra heavy duty alligator clip leads (10)
SWR-1 SWR/field strength meter ....D
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 ....
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-25SFM 25w megaphone ....
SOL-8 13w solar panels w/case ....
SOLD-250GLF .55 lb lead-free solder, .04 dia

Velleman - continued   AES Price

T-5S PVC insulation tape ....
TLM-10 Test probe set ....
VT-BT6 33-piece screwdriver bit set ....
VT-COAX Coax stripper; RG-58/59/62/6 ....
VT-D2 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 ....D

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 .
150 Square Brass Racer Deluxe 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 tnr) 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
OBF-703/718-DIY CW&SB Collins filts;IC703/718
OBF-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 .....

W5YI - continued   AES Price

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 ....
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 ¹⁄₃₂" single flat tip for WP-25 ....
W-60P 60w temp controlled soldering iron ...
WESD51 50w adjustable soldering station ...
WSTA3 Pyropen 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 ..D
  CW/SWITCHDUO 2-rig CW bk-in switch; RB/DU Δ
  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 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 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 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 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

West Mtn - continued   AES Price

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/4005i Rigrunner 5 outlet internet model/cbl
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 rig control cable ....

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

GU-16 UHF 4w 16ch narrowband comm HT ..
KG-UV3D-2/220 2m/220 5w HT/batt/cgr........
KG-UV3D-2/440 2m/440 5/4w HT/batt/cgr ...
KG-UVA1X V/U 5/4w 16ch narrowband comm HT .
KG-UV6X V/U 5/4w 200ch narrowband comm HT
RTS-KGUV123-US Progsft/USB;KGUV1P/2D/3D
RTS-KGUV6-USB Progsoft/USBcbl; KGUV6D/6X
WXAAB AA battery case ....
WXAET Acoustic tube earphone/mic ....
WXANT2/440 Extra 2m/440 reverse SMA ant
WXBNCB Black reverse SMA-BNC (not 1X/6)
WXBTE Cig plug battery eliminator ....
WXCAR Cig cord for charger stand ....
WXCHD Heavy duty nylon carrying case .....
WXCLN Radio to radio cloning cable ....
WXGHK G-hook earpiece w/lapel mic ....
WXHCB Extra 1700mah lith ion battery .....
WXHST Headset microphone ....D
WXLTR Carrying case ....
WXS16 Reverse SMA-SO239 adapt (not 1X/6) D
WXSPK Speaker/microphone ....
WXSTB-RV 2m/440 reverse SMA 3" stub duck
WXSTB-S155 V/U SMA 3" stubby duck; 1X/6
WXUHF Black reverse SMA-SO239 (not 1X/6)
WXUSB 2-pin to USB programming cable ..

YAESU (YAE)

FTDX-9000 Contest 200w HF/6m Xcvr/ps DS
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 unit ....DS
MD-100A8X Desk mic w/tone control ....
MD-200A8X Deluxe high fidelity desk mic .
MH-31B8 Extra hand microphone ....
MTU-160/DS 160m MTU unit ....DS
MTU-30/20/DS 30/20m MTU unit ....DS
MTU-80/40/DS 80/40m MTU unit ....DS
RXU-9000 Dual receive unit ....DS
VRF-9000 VRF unit for RXU-9000 (required) DS
SP-9000 Ext dual spkr sys/audio filts; D/Contest
TFT-9000 TFT display unit ....DS
YH-77STA Open-air type stereo headphones

Yaesu - continued   AES Price

FTDX-9000D Deluxe 200w HF/6m Xcvr/ps 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 pwr 400w HF/6m Xcvr/ps 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 unit ....DS
MTU-30/20/DS 30/20m MTU unit ....DS
MTU-80/40/DS 80/40m MTU unit ....DS
SP-9000 Ext dual spkr sys/audio filts; D/Contest
TFT-9000 TFT display unit ....DS
YH-77STA Open-air type stereo headphones
FTDX-5000 200w HF/6m Xcvr/ps ....
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 ....
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/ps
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 ....
XF-126CN 300Hz CW roofing filter ....
YH-77STA Open-air type stereo headphones
FTDX-5000MP 200w HF/6m/mon/filt/OCXO/ps
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 ....
YH-77STA Open-air type stereo headphones
FTDX-3000D 100w HF/6m Xcvr ....
FP-1030A 25A ps, 30A surge w/meters .....
CT-178 Quadra control cable ....
DVS-6 Voice memory unit ....
FC-40 Automatic wire antenna tuner ....
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 ....

Yaesu - continued   AES Price

XF-127CN 300Hz CW roofing filter ....
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 ....
FP-1030A 25A ps, 30A surge w/meters .....
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 ....
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
FP-1030A 25A ps, 30A surge w/meters .....
CT-118 Control cable; FT-450 to Quadra ....
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 ....
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 Cont**rol 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 ....

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Yaesu - continued   AES Price

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 △
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 Cont**rol 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 △
  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) **OBF-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
  (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 ....
  PA-48B Extra nicad wall charger ....
  TCXO-9 TCXO unit, 0.5 ppm.......................
  YA-007FG FG whip/bpr mt; 80-10m use tuner △
  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 ....△
T-9018320 DC cable; FT-840/847/Field ......△
YA-007FG FG whip/bpr mt; 80-10m use tuner △
YA-30 1.8-30 MHz broadband dipole ant ......
YH-77STA Open-air type stereo headphones .
Quadra System VL/VP1000 HF+6m amp/ps/tuner
ADMS-3 Prog software/USB cable; VR-500 .....△

Yaesu - continued   AES Price

CSC-72 Soft carrying case for VR-500 ....△
CSC-76 Soft carrying case for VR-120/D ....△
FNB-59 Nicad battery for VR-500 ....△
FNB-79 Nicad battery for VR-500 ....△
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 ....D
    PA-46B 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 0/3db 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 D
  ADMS-350 Programming software/USB cable
  BTK-5 Bluetooth kit ....
  BU-1 Bluetooth radio adapter ....D
  BU-2 Bluetooth radio adapter ....
  CAB-1 Charger sleeve ....
  CD-40 3 hour charger cradle for BH-1 ....
    NC-85B Battery charger for CD-40 ....D
    PA-46B 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 ....
  MH-48A6JA Extra TTP microphone ....
  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!
  ADMS-7900 Programming software/USB cable
  CT-39A Packet cable ....
  MH-48A6JA Extra TTP microphone ....
  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-2I Programming software/USB cable
  CT-39A Packet cable ....
  MH-48A6JA Extra TTP microphone ....
  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 ....
  MH-48A6JA Extra TTP microphone ....
  MLS-100 Mobile speaker ....
  MMB-60 Quick release mobile mount ....
  T-9021810 Extra DC cable ....
  YSK-8900 Remote separation kit ....†

Yaesu - continued   AES Price

ADMS-2E Prog soft/USB cable; FT-90R/2600M △
ADMS-2F Prog soft/USB cable; FT-1500M . △
ADMS-2J Prog soft/USB cable; FT-2800M .. △
ADMS-2K Prog soft/USB cable; FT-7800R ...△
ADMS-1802 Prog soft/USB cable; FT-1802M ... △
FT-1900R 55w 2m FM Xcvr ....
  ADMS-1900 Programming software/USB cable
  MH-48A6JA Extra TTP microphone ....
  MLS-100 Mobile speaker ....
  T-9021715 Extra DC cable ....
FT-2900R 75w 2m FM Xcvr ....
  ADMS-2900 Programming software/USB cable
  MH-48A6JA Extra TTP microphone ....
  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 ....
ADMS-1F Prog software/USB cable; VX-150 △
ADMS-1H Prog software/USB cable; VX-2R △
ADMS-VX170 Prog soft/USB cable; VX-170.△
ADMS-VX177 Prog soft/USB cable; VX-177 △
FBA-17 AA battery holder; FT-23/411/470 ..△
FT-60R 5w 2m/440 FM HT ....
  ADMS-1J 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 ....
  PA-48B 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 ....
  LCC-150S/TT Leather case w/swivel ....
  MH-34B4B Speaker/mic ....
  MH-37A4B Earpiece/microphone ....
  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 ....
  PA-48B Extra wall charger ....
  VAC-370 Rapid charger ....
  VC-24 VOX headset ....
  VC-27 Earpiece/microphone ....

Yaesu - continued AES Price

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 ....D
  PA-46B 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 PA-48B) .
  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 ....
  PA-48B 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 PA-48B) .
  CN-3 BNC to SMA adapter ....
  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 ....
  PA-48B 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-5 Bluetooth kit ....
  BU-1 Bluetooth radio adapter ....D
  BU-2 Bluetooth radio adapter ....
  CD-40 3 hour charger cradle for BH-1 ....
    NC-85B Battery charger for CD-40 ....D
    PA-46B 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 ....
  PA-48B 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 ....

Yaesu - continued AES Price

  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 ....
  PA-48B Extra wall charger ....
  VC-25 VOX headset ....

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
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 1¼-2" ...
GS-065 65mm thrust bearing; mast 1½-2½"
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

ALI DJ-V17T 5w 2m FM HT ....
ALI DJ-V27T 5w 220 FM HT ....
ALI DJ-V47T 4.5w 440 FM HT ....
ALI DR-03T 10w 10m FM Xcvr ....
ALI DR-06T 50w 6m FM Xcvr ....
AMR AL-800H 1.5kw PEP out amp (2 3CX800A7)
AMR QSK-5PC PC board kit; T/R switch ....
AOR LA-390 .01-500z indoor active loop rcv ant
BEN BY-4 Iambic paddle/blk base/gold components
CRA CWF Wi-Fi internet radio ....
DIA X-510NJ 143.5-146.5/428-442 8.3/11.7db 17.2' N
GAP DX-IV Voyager 160/80/40/20m 45' antenna..
GRE PSR-100 Standard heldheld scanner .....
GRE PSR-120 Standard heldheld scanner .....
GRE PSR-200U Std mobile/desktop scanner .
GRE PSR-410 Triple trunk mobile/desktop scanner
GRE PSR-500 Dig triple trunking handheld scanner
GRU FR-600 AM/FM/SW/SAME WX/light/solar/cell cgr
HYG DCU-1 Dig rotor cont; CD45/HAMIV/T2X
ICO AG-35 430 MHz mast mounted preamp .
ICO AT-180 Auto coax ant tuner; HF+6m ......
ICO FL-53A 250 Hz 455 KHz IF CW filter ....
ICO FL-103 2.8 KHz 9 MHz IF SSB filter ....
ICO IC-T70A 5w 2m/440 FM HT/batt/charger
ICO IC-V80 5.5w 2m FM HT/battery/charger .
ICO MB-120 Mounting base platform ....
ICO OPC-587 16' separation cable ....
ICO PS-125 25A switching power supply ......
ICO RMK-7000 Pack; MB62/MB105/OPC1443
ICO RX-7-05 Handheld receiver/cell blkd ....
ICO SP-10 Slim-line external speaker ....
ICO SP-20 Speaker w/audio filters ....
ICO UT-106 Plug-in DSP unit ....
ICO UT-118 Digital board ....
ICO UT-122 P-25 digital board ....
KAN 9612 Plus/128K 9600 controller/128K ...
LDG AT-600Pro 160-6m 600w/250w 6m auto tnr
LDG DM-7800 Dual 4.5" meters for IC-7800

Close-outs - continued AES Price

MAL HMC-6S 20/15/10/6/2m/440 66" mob ant
MAL MK-30H Motorized tnk lip/hatch/van door mt
MFJ 414 Professional Morse Tutor w/LCD ......
MFJ 902 80-10m 150w Travel Tuner ....
MFJ 8708 4ch ham micro ATV transmitter .....
MIR D-1010-ATVN 430 ATV 10/52w type N amp
MSQ 2M-5WL 2m 14.8db 17el 33' boom beam
MSQ 432-9WL 432 17.3db 28el 21' bm beam
MSQ 436-CP30 432 14.5db 15h/15v 9'9"bm cir
MSQ Big-Foot 4x-mag mt;2M/432HOLOOP stack
PLY IS-50UX-C1 50-700 375/125w flange ....
PLY IS-B50LU-C1 50-700 375/125w bulkhead .
POF R-15-600 10w rollable solar panel ....
SAN WFR-20 Wi-Fi internet radio & media player
SGC 51-82 Fan kit; continuous xmit SG500 ..
TIM PK-232/USB Controller/sound card/USB
UNI BC-95XLT 200 ch prog pocket scan/800
UNI BC-355C 300 ch prog/service search ....
UNI BC-370CRS 300 ch scanner/800/SAME WX
WES PWRguard 40A over/under voltage protector
WES RB/DU/CUSB Rigblaster Duo; 8-pin/RJ-45
WES RB/PL/CUSB Rigblaster Plus; 8-pin/RJ-45
YAE Bluetooth Kit Kit for FTM-10 ....
YAE BU-1 Bluetooth radio adapter ....
YAE FTM-350AR 50w 2m/440/1w 220 FM Xcvr
YAE SP-8 External speaker w/filters; Mk V/Field
YAE YA-007FG FG whip/bpr mt; 80-10m use tuner

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ALINCO
AMATEUR RADIO'S VALUE LEADER™

6M & 10M FM MOBILES

DR-06T

CLOSE OUT!

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. **C/O**

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. **C/O**

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

VHF MOBILES

DR-135T

DR-135TMKIII 2M Mobile Transceiver – Covers 144-148 MHz TX with 118-135.995 MHz (AM aircraft) & 136-173.995 MHz RX. Power: 50/10/5W; Wide/Narrow FM; 100 alpha memories; Large alpha LCD display; ± 2.5ppm TXCO; CTCSS & DCS; Backlit DTMF mic; 10 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 TNC for 1200/9600bps packet and APRS.

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

HF BASE STATION

DX-SR8T All Mode Desktop HF Transceiver Covers 160-10M including 60M (5.3MHz). Modes: SSB, CW, AM and FM. Variable output: 1/10/100W SSB/CW FM & 0.4/4/40W AM. General coverage receive 0.135-30 MHz, all modes. Detachable front control panel with large alphanumeric LCD display allows remote mounting of the main body. Main tuning dial with 10 Hz default resolution or direct entry via the key pad. Dual VFOs; 600 channel memories (3 banks). Enhanced scan modes. CTCSS encode for 10M FM; IF shift; 500 Hz narrow CW/SSB filter; Noise-blanker; RIT/XIT; Electronic keyer; Full (QSK), Semi or Auto break-in; Attenuator and Pre-amplifier; ALC output; Independent AF level and squelch; Dial lock and key lock; TX-RX lamp; Automatic power-off; Hand microphone. Dim: 9.45"w x 3.95"h x 11.54"d; 9 lbs.

Available Accessories:
DM330MVT 30A Switching PS with meters, **DM340MVT** 30A PS with meters, **EDS17** Front panel remote control kit, **ERW4** RS-232 PC Cable, **EWR7** USB PC cable, **NIF MMDXSR8** Nifty Mini Manual

2M HANDHELD

DJ-175T 5W 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. 5 Watts output with the included 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

Single Band SSB

SINGLE BAND CW
Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever your 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 RIT. 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	**9030** – 30M, 5W
9020 – 20M, 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	**9420X** 20M, 12W
9406X 6M, 10W	**9440X** 40M, 12W
9410X 10M, 20W	**9475X** 75M, 12W

See Page 14 in the Price Guide under MFJ for available accessories for these models

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SINGLE BAND HANDHELDS

CLOSE OUT!

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; 10 oz. **C/O**

DJ-V27T – Covers 222-224.995 MHz TX and 216-249.995 MHz RX. Power: 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 poly-carbonate, 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. It tunes 0.530-1299.995 MHz continuously (cell 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 (5W @ 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:
APKG29 Programming software & USB cable (G29T only), **APKG7** Programming software & USB cable (G7T only), **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-UVA1X / GU-16 (shown)

KG-UV3D / KG-UV6X (shown)

KG-UVA1X Dual Band VHF/UHF 16 Channel Commercial Handheld – Provides 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 and 2013 FM Narrowband compliant. Frequency Range of 136-174, 400-470 MHz RX/TX. FM: 76-108 MHz (RX). 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; Standard SMA antenna connector. Comes with drop-in rapid charger. Dim: 2.4"w x 4.8"h x 1.6"d; 9.7 oz.

GU-16 UHF 16 Channel Commercial Handheld Covers 400-470 MHz TX/RX and 4W high power or 1W low. FM Narrowband compliant.

Available Accessories:
WXAAB AA battery case, **WXAET** Acoustic tube earphone/mic, **WXBNCB** Black reverse-SMA to BNC adapter (GU-16 only), **WXBTE** Cigarette plug battery eliminator, **WXCAR** Cigarette cord for charger stand, **WXCHD** HD nylon carrying case, **WXCLN** Radio clone cable, **WXGHK** G-hook earpiece/lapel mic, **WXHCB** 1700MAH Li-Ion battery, **WXHST** Headset mic, **WXLTR** Carrying case, **WXSPK** Speaker mic, **WXSTBRV** 2M/440 reverse-SMA 3" stubby duck (GU-16 only), **WXSTBS155** 2M/440 SMA 3" stubby duck (KG-UVA1X only), **WXUHF** Black reverse-SMA to SO-239 adapter (GU-16 only), **WXUSB** USB program cable

WOUXUN®

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. FM Broadcast radio (76-108 MHz) with automatic tuning and storing, 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: 5/1W) (UHF: 4/1W). Includes: Reverse-SMA dual band antenna, 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, **RTSKGUV123US** Program software & USB cable, **WXAAB** AA battery case, **WXAET** Acoustic tube earphone/mic, **WXANT2/440** Extra 2M/440 antenna, **WXBNCB** Black reverse-SMA to BNC adapter, **WXBTE** Cigarette plug battery eliminator, **WXCAR** Cigarette cord for charger stand, **WXCHD** HD nylon carrying case, **WXCLN** Radio clone cable, **WXGHK** G-hook earpiece/lapel mic, **WXHCB** 1700MAH Li-Ion battery, **WXHST** Headset microphone, **WXLTR** Carrying case, **WXSPK** Speaker microphone, **WXSTBRV** 2M/440 reverse-SMA 3" stubby duck, **WXUHF** Black reverse-SMA to SO-239 adapter, **WXUSB** 2-Pin to USB program cable

KG-UV6X Dual Band VHF/UHF Commercial Handheld – Up to 5W of RF power on VHF and 4W on UHF, with high audio output (500 mW). Ideal for Fire, Police, FEMA, CAP, security patrols, businesses, schools and other organizations that have FCC licensed frequencies. FCC Part 90 certified and 2.5 kHz step for FCC 2013 narrowband compliance. Frequency Range of 76-108, 136-174, 370-512 MHz RX and 136-174, 406-470 MHz TX. It has a long operating time (about 13 hours). Commercial radios are shipped with the keypad locked per FCC 47CFR90.203 and require software programming via the optional USB 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:
RTSKGUV6USB Programming software & USB cable, **WXAAB** AA battery case, **WXAET** Acoustic tube earphone/mic, **WXBTE** Cigarette plug battery eliminator, **WXCAR** Cigarette cord for charger stand, **WXCHD** HD nylon carrying case, **WXCLN** Radio clone cable, **WXGHK** G-hook earpiece/lapel mic, **WXHCB** 1700MAH Li-Ion battery, **WXHST** Headset microphone, **WXLTR** Carrying case, **WXSPK** Speaker microphone, **WXSTBS155** 2M/440 SMA 3" stubby duck **WXUSB** 2-Pin to USB program cable

WXBTE

WXAAB

WXCHD

WXAET

WXUSB

WXSPK

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 required. Dim: 9.4"w x 3.75"h x 9.4"d; 8.5 lb.

Available Accessories:
BET 706TUNECONT Better RF tune control, **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, **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, **SP34** Speaker w/audio filters, **SP35** Mobile 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; ±0.5ppm 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, **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, **RC28** Remote control USB encoder, **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, **SP34** Speaker w/audio filters, **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. 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 power supply.
Dim: 13.4"w x 4.5"h x 11"d; 22 lbs.

Available Accessories:
BET IMATE Better RF message accessory, **AH4** 80-6M 120W auto wire antenna tuner, **CT17** Level converter, **PS126** Power supply, **RC28** Remote control USB encoder, **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, **SP34** Speaker w/audio filters, **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 USB keyboard. 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, **RC28** Remote control USB encoder, **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 speaker, **SP34** Speaker w/audio filters, **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 9.999 kHz; 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, **RC28** Remote control USB encoder, **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, **SP34** Speaker w/audio filters,

HF POWER AMPLIFIER

PW-1 **HF/50 MHz Linear Amplifier** – Covers 160 to 15M and 6 Meters. 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.

ICOM

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, **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, **RC28** Remote control USB encoder, **RSBA1** IP remote control software, **SM30** Electret desk mic, **SM50** Dynamic desk mic, **SP20** Speaker w/audio filters, **SP21** Speaker, **SP23** Speaker w/audio filters, **SP33** Small speaker, **SP34** Speaker w/audio filters, **UT121** D-Star unit, **UX9100** 1.2 GHz unit, **NIF MMIC9100** Nifty mini manual, **RTS USBRTS01** RT Systems USB control cable, **RTS WCS9100USB** RT Systems programming software & USB cable

Please call/web for current prices & promotions.

HF/6M PORTABLE BASE STATION

IC-7200 HF/50 MHz Portable Transceiver – The rugged design and tough construction against water intrusion is similar to Icom Marine radios for outdoor use. Covers 0.03-60 MHz RX and HF plus 6M TX. 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; RIT; VOX; ±0.5ppm 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:
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, **RC28** Remote control USB encoder, **RSBA1** IP remote control software, **SM30** Electret desk mic, **SM50** Dynamic desk mic, **SP10** Slim-line external speaker, **SP20** Speaker w/audio filters, **SP23** Speaker w/audio filters, **SP33** Small speaker, **SP34** Speaker w/audio filters, **SP35** Mobile speaker, **NIF MMIC7200** Nifty mini manual, **RTS WCS7200USB** RT Systems programming software & USB cable

HF/VHF/UHF MOBILE

IC-7000 Compact HF/6M/2M/440 MHz All Mode Mobile 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; Detachable control head; Digital RF Speech Processor; S/PWR/SWR meter; RIT; 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, **AH4** 80-6M 120W auto wire antenna tuner, **AT180** HF-6M auto coax antenna tuner, **CT17** Level converter, **HM154T** TTP Mic., **MBF1** Mounting base, **MB105** Remote head bracket, **MB105A** 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, **RC28** Remote control USB encoder, **RMK7000** Remote mounting kit (MB62/MB105/OPC1443), **RMK7000F1** Remote mount kit (MB62/MB105A/OPC1443), **RSBA1** IP remote control software, **SM30** Electret desk mic (requires OPC589), **SM50** Dynamic desk mic (requires OPC589), **SP10** Slim-line external speaker, **SP33** Small desktop speaker, **SP35** Mobile speaker, **NIF MMIC7000** Nifty mini manual, **RTS WCS7000** Programming software & USB cable

ICOM ACCESSORIES

SP-35
SP-20
CLOSE OUT!
SP-23
SP-33
CT-17
SM-50
PS-125
PS-126

SP-35 Mobile Speaker – 4 ohms, 5 watts, mono plug. Dim: 4.5"w x 2.5"h x 2.25"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.   **C/O**

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 round plug. Compatible with many 8-pin Icom radios. Requires **OPC-589** with IC-706 & IC-7000.

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.

PS-125 Base Station Power Supply – Same as the PS-126 but is for Icom radios with the **6-pin** molex power connector.   **CLOSEOUT**

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.
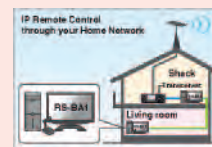
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SINGLE BAND MOBILES

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.

Available Accessories:
CS2300H Programming software, **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, **SP35** Mobile speaker, **NIF QRIC2300H** Nifty quick reference card, **RTS WCS2300** RT Systems programming software & USB cable

IC-V8000 **2M FM Transceiver** – Big 75W power output. Selectable power output is 75/25/10/5W. Covers 144–148 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 ext. 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, **SP35** Mobile speaker, **UT108** DTMF decoder unit, **V8000MMB** Mobile bracket, **NIF QRICV8000** Nifty quick reference card, **RTS WCSV8000** RT Systems programming software & USB cable

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DUAL BAND MOBILE

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-STAR** 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, spare fuses and 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, **SP35** Mobile speaker, **UT123** D-Star DV & GPS receiver, **V8000MMB** Mobile bracket, **NIF MMIC2820H** Nifty mini manual, **RTS WCS2820DATA** RT Systems programming software & USB D-Star data cable

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 comm. 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, **SP35** Mobile speaker, **NIF MMID880H** Nifty mini manual, **RTS WCSD880DATA** RT Systems programming software & USB D-Star data cable

1.2 GHZ D–STAR MOBILE RADIO

ID-1 10W 1.2 GHz FM & D-Star Ready Mobile The D-Star system provides not only digital voice (DV mode) communication but also digital data transmission (DD mode). It can exchange various data files such as graphics, images, etc, at 128kbps. In DD mode, the ID-1 can transfer data directly with another ID-1 without the use of a repeater. This is useful for establishing a simple network where a D-Star repeater does not exist or D-Star services are not required. Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes 100 alphanumeric memories; 10/1W selectable power output; In FM mode the ID-1 has CTCSS tone squelch and pocket beep functions for quiet stand-by; Full PC control via USB port and 10 BASE-T ethernet that is used for 128K data operation. Dim: (main unit) 5.56"w x 1.56"h x 6.53"d; (control head) 5.9"w x 1.97"h x 1.94"d; 3 lbs.

Available Accessories:
HM154 Plain mic w/o TTP, **MB28H** Mobile bracket, **OPC1132** 9.8' DC cable, **OPC347** 23' DC cable, **OPC440** 16.4' Mic. extension cable, **OPC441** 16.4' Speaker extension cable, **SP10** Slim-line external speaker, **SP35** Mobile speaker

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ICOM

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SINGLE BAND HTs

IC-V80 2M FM HT
Passed the MIL-STD requirements and IP54 water resistance and dust protection standards. 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. **C/O 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

CLOSE OUT!

DUAL BAND HT

IC-T70A 2M/440 MHz Dual-Band FM HT – Like the IC-V80 the IC-T70A also meets MIL-STD requirements, IP54 water resistance and dust protection standards. 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. **CLOSEOUT**

Available Accessories:
AD92SMA 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 QRICT70A** Nifty quick reference card, **RTS WCST70** RT Systems programming software & USB cable

D–STAR READY 440 MHz GPS HT

ID-31A 440 MHz FM & D-Star HT with GPS
TX: 420-450 MHz and RX: 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. 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 micro SD card slot can be used for storing GPS log, voice memory and memory contents. Full Dot-matrix Display and Directional Keypad are backlit. IPX7 Submersible Construction. Comes with battery, antenna, cloning software CS-31, wall charger, belt clip and hand strap. Dim: 2.28"w x 3.74"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, **NIF MMID31A** Nifty mini manual & reference card combo

NEW

D–STAR READY DUAL BAND GPS HT

ID-51A 2M/440 MHz FM & D-Star HT with GPS
TX: 144-148 & 420-450 MHz and RX: 108-174, 380-479 MHz and Broadcast AM 520-1710 kHz, FM 88-108 MHz. Use the dualwatch function for listening to AM, FM or shortwave broadcast while monitoring ham bands. When a ham band signal is received the broadcast station is automatically muted. 1304 memory channels including 100 program scan edges and 4 call channels. Five selectable output power levels 5/2.5/1/0.5/0.1W. 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 micro SD card slot can be used for storing GPS log, voice memory and memory contents. Voice synthesizer function announces frequency, mode and call sign. Full Dot-matrix Display and Directional Keypad are backlit. IPX7 Submersible Construction. Comes with battery, antenna, cloning software CS-51, wall charger, belt clip and hand strap. Dim: 2.28"w x 4.13"h x 1"d; 8.9 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), **LC179** Carrying case, **OPC2006LS** Headset adapter cable for HS94, **OPC2218LU** Cloning/data cable, **OPC254L** Right angle mini DC power cable, **SJ1** Silicon jacket case, **SP13** Earphone, **RTS WCSD51** 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:
AD92SMA 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 comm. cable, **OPC254L** Right angle 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 WCS80DATA** RT Systems programming software & USB D-Star data 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:
AD92SMA 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*, **HM174** Waterproof Speaker/mic, **HM175GPS** Waterproof speaker/mic/GPS unit, **HM75A** Remote control mic*, **HS85** Headset with VOX*, **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*, **RS92** Remote control PC software (RS-232 cable), **SP13** Earphone, **NIF MMIC92AD** Nifty mini manual & reference card combo, **RTS USB92D** RT Systems Data cable, **RTS WCS92USB** RT Systems programming software & USB cable* *requires OPC1797

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, **MC43S** 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, **MC43S** 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, **RTS KRS2000** RT Systems program software & USB cable

HF/6M RADIOS

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. 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. 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 Deluxe headphones, **HS6** Lightweight 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

NEW

TS-990S HF/6M All Mode Flagship Transceiver Covers 160-6M including 60M band. Receive Range: 0.13-30 & 50-54 MHz. Power: 200-5W on CW/SSB/FM/FSK & 50-5W on AM. Way too many features to list but here are some Key Features: 200w output from 50V FET push-pull PA stage; +40dBm Intercept Point RX; Main RX - Down Conversion on all bands 270Hz/500Hz/2.7kHz/6kHz/15kHz Roofing Filters; Sub RX - Down Conversion on 15/20/40/80/160M bands 500Hz/2.7kHz Roofing Filters; 2 x TFT Color Displays; 3 x DSP Processors; Built-in RTTY/FSK/PSK31 Decoder/Encoder; 4 x SO-239 Antenna connectors plus RCA jacks for RX-only antenna; Connectivity - 10MHz Ref Oscillator I/O (BNC); External ATU port; Keyboard in; COM Port (Female 9-pin); Straight Key; Paddle/external Keyer; 2 x USB-A & 1 x USB-B ports; "ACC-2" Data/audio connector; "Remote" Linear connector; Analog Meter Jack 3.5mm; "DRV" low-level LF drive; Optical SPDIF I/O; 2 x external speaker sockets; DVI-I video port; Ethernet LAN Port. Contains internal 120V power supply. Dim: 18.1"w x 7.2"h x 17.7"d; 54 lbs.

Available Accessories:
HEI PROSET3 Heil deluxe stereo headphones, **HS5** Deluxe headphones, **HS6** Lightweight headphones, **MC43S** Hand mic, **MC60A** Desk top mic, **MC90** Deluxe desk top mic, **SP990** Matching external speaker

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 SEP7106** 6" separation kit for GPS710, **MC59** Extra TTP microphone, **MJ88** Modular to 8 round pin mic. 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 KRSD710** 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 then 5 minutes.

SEP-710-6 – 6 inch separation cable kit to mount on vehicle glass or other spots.

Please call/web for current Prices & Promotions.

DUAL BAND MOBILE

TM-V71A 2M/440 MHz 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.
Dim: 5.5"w x 1.7"h x 7.1"d; 3.3 lbs.

Available Accessories:
DFK3D Front panel separation kit, **MC59** Extra TTP microphone, **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

APRS TNC UPGRADE

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

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.
Dim: 6.3"w x 1.7"h x 5.4"d; 2.6 lbs.

Available Accessories:
KPG46U USB program cable, **MC59** Extra TTP microphone, **MJ88** Modular/8-pin adapter, **PG2N** Extra DC cable, **SP50B** External mobile speaker, **NIF QRTM271/281** Quick reference card, **RTS KRS271** RT Systems program software & USB cable

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-characters; Narrow Band FM Ready; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive; Automatic simplex checker; 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 a SMA flexible antenna.
Dim: 2.3"w x 4.4"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, **KNB-65L** 1520 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 w/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 KRSD72** 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, **RTS KRSF6** RT Systems programming software & USB cable

HANDHELD MICROPHONES

SMC-34   SMC-33   SMC-32
KHS-26   MC-43S

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   KES-5

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 unterminated cable.
Dim: 5.1"w x 5.1"h x 3"d; 1.8 lbs.

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HF/6M RADIOS

HIGH-END HF/6M BASE STATIONS

FTDX-9000D

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, RTS ADMS950 RT Systems programming software & usb cable, 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, T9101556 Rotator control cable, T9207451 6.5' 10-pin DIN plug & cable, YH77STA Stereo headphones

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 OPFYCW300 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-5000MP

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 ±0.05ppm 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., MH31B8 Extra hand 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).

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COMPACT HF/6M

NEW

FTDX-3000D
Compact HF/6M Transceiver
Covers 160-6M - SSB/CW/FM/AM/Digital transmit and 0.03-56 MHz receive. Power output is 5-100W (2-25W on AM). Key Features: RTTY/PSK31 Encode/Decode Included; Antenna Tuner Included; Famous Yaesu Heavy Weighted Main Tuning Knob; IF Output; USB Capable; Remote Control From a Distant Location; Big TFT Full-Color Display for Superior Operability and Visibility; Top Performing RF Front End; Down Conversion Receiver and Powerful Narrow Bandwidth Crystal Roofing Filters; Effective QRM and QRN Rejection; Very Low Noise Floor - Terrific Signal to Noise Ratio; Three IPO Settings; High Quality Audio; CW Features Galore. Requires 13.8V DC power supply at 23A.
Dim: 14.4"w x 4.5"h x 12.3"d; 22 lbs.
Available Accessories:
NIF MMFTDX3000 Nifty mini manual, **RTS ADMSDX3000** RT Systems Programming software with USB cable, **CT178** Quadra control cable, **DVS6** Voice memory unit, **FC40** Wire tuner, **FP1030A** 25A power supply w/meters, **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, **XF127CN** 300HZ Collins CW filter, **YH77STA** Stereo headphones

HF/VHF/UHF QRP

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 RIT; 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 MH31OBP** W4RT MH31 mic with OBP installed, **W4R OBF817/NDDIY** 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, **PA48B** Extra wall charger, **TCXO9** TCXO unit, **YA007FG** FG whip with mount, **YF122C** 500 Hz Collins CW, **YF122CN** 300 Hz Collins CW, **YF122S** 2.3 kHz Collins SSB

HF/VHF/UHF RADIOS

Remote Kit Included!

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 YAETUNECONT Better RF tune control, **NIF** MMFT857D Nifty mini manual, **W4R MH31OBP** 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, **TCXO9** 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, **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

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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 w/USB cable, **MH48A6JA** Extra TTP mic., **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 an 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, **MH48A6JA** Extra TTP microphone, **MLS100** Mobile speaker, **S8002051** Extra mobile bracket, **T9021015** Extra DC cable

Please call/web for current prices & promotions.

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DUAL BAND MOBILES

Remote Kit Included!

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** Program software w/USB cable, **CT39** Packet cable, **MH48A6JA** Extra TTP mic., **MLS100** Mobile speaker, **MMB60** Quick release mount, **T9021715** Extra DC cable, **YSK7800** Remote sep. kit

Remote Kit Included!

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, **MH48A6JA** Extra TTP mic., **MLS100** Mobile speaker, **MMB60** Quick release bracket, **T9021810** Extra DC cable, **YSK8900** Remote separation kit

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FTM-10R 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 tags. Listen to AM or FM broadcast and monitor an amateur band at the same time. 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. Dual receive; 1200/9600 bps Packet jack; Bluetooth capable. 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, **BLUETOOTHK-IT** 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, **PA46B** Battery charger for CD40, **YHAM10** 2M/440 19.7" antenna

CLOSE OUT!

Comes with a standard DTMF hand mic.

FTM-350AR **50W 2M/440 MHz FM Mobile with Optional GPS / APRS® / Bluetooth® Features**
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. 1000 memory channels total with alpha-tags. 1200/9600 bps 8-pin mini DIN packet port. Simultaneous Dual Band Receive and Full-Duplex Operation. 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. **C/O**

Available Accessories:
NIF MMFTM350R Nifty mini manual, **ADMS350** Program software w/USB cable, **BTK5** Bluetooth kit (BH2A, BU1, CD40, NC85B), **BU1** Bluetooth adapter, **BU2** 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, **MH48A6JA** Extra TTP mic., **MLS200M10** Waterproof external speaker, **MMB60** Quick release bracket, **MMB98** Extra suction cup mount for control head, **NC85B** Battery charger for CD40, **PA46B** Battery charger for CD40

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, **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, **PA48B** Extra wall charger, **VAC370** Rapid charger, **VC24** VOX headset, **VC27** Earpiece/mic

Please call/web for current prices & promotions.

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YAESU

DUAL BAND HT

FT-60R 144/440 MHz FM Dualband 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 QRFT60R 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, **PA48B** 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, **PA46B** 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 PA48B, **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, **PA48B** 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 "handshake" 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 PA48B, **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, **PA48B** 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

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 then 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 adapter, **BU2** Bluetooth 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, **PA46B** Battery charger for CD40, **PA48B** 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, **PA48B** Extra battery charger, **VC25** VOX/PTT headset

* Remotable control head
* Optional module required for TS-2000, and B versions
(1) One of the antenna ports is RX only
(2) HF/6M one port, 2M/440MHz second port
(3) Two ports for HF, one dedicated for 2M
(4) No FM
(5) On internal batteries: 20W (10W on 70cm)
(6) On internal batteries: 5W (2.5W on 70cm)
(7) Optional module required for 1.2GHz

YAESU FTDX-9000 SERIES — See page 30 or go to Yaesu's Website: WWW.YAESU.COM

YAESU FTDX-5000 SERIES — See page 30 or go to Yaesu's Website: WWW.YAESU.COM

HF RADIOS

SPEC	ALINCO DX-SR8T*	ICOM IC-7000*	ICOM IC-718	ICOM IC-7200	ICOM IC-7410	ICOM IC-7600	ICOM IC-7700	ICOM IC-7800	ICOM IC-9100	KENWOOD TS-2000, TS-B2000 TS-2000X	KENWOOD TS-480HX* TS-480SAT*	KENWOOD TS-590S	KENWOOD TS-990S
BANDS	HF, 60M	HF, 60M 6/2M, 70CM	HF	HF, 60M 6M	HF, 60M 6M	HF, 60M 6M	HF, 60M 6M	HF, 60M 6M	HF, 60M, 6/2M 70CM, 1.2GHz(7)	HF, 6M, 2M 70CM, 1.2GHz*	HF, 60M 6M	HF, 60M 6M	HF, 60M 6M
RX RANGE (Mhz)	0.135-30	0.03-199 400-470	0.03-30	0.03-60	0.03-60	0.03-60	0.03-60	0.03-60	0.03-60, 136-174 420-480 1240-1320(7)	0.03-60, 142-152 420-450 1240-1300*	0.03-60	0.13-60	0.13-30, 50-54
POWER (SSB/CW/FM)	1/10/100	2-100 HF/6M 2-50 2M 2-35 70CM	2-100W(4)	2-100W(4)	2-100W	2-100W	5-200W	5-200W	2-100W HF/6/2M 2-75W 70CM 1-10W 1.2GHz(7)	5-100W HF/6/2M 5-50W 70CM 1-10W 1.2GHz*	5-200W (HX) 5-100W (SAT)	5-100W	5-200W
POWER (AM)	0.4/4/40	1-40W HF/6M 2-20W 2M 2-14W 70CM	2-40W	1-25W	2-27W	1-30W	5-50W	5-50W	2-25W	5-25W HF/6/2M 5-12.5W 70CM 1-2.5W 1.2GHz*	5-50W (HX) 5-25W (SAT)	5-25W	5-50W
DSP	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TUNER	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	NO (HX), YES (SAT)	YES	YES
KEYER	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	NO	YES	OPTIONAL	YES	YES	YES	YES	YES	YES	OPTIONAL	OPTIONAL	OPTIONAL	YES
VOX	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
POWER REQUIREMENT	12V DC 20A	12V DC 22A	12V DC 20A	12V DC 22A	12V DC 23A	12V DC 23A	BUILT-IN	BUILT-IN	12V DC 24A	12V DC 20.5A	12V DC 41A (HX), 20.5 (SAT)	12V DC 20.5A	BUILT-IN
ANTENNA PORTS	1	2(2)	1	1	2	3(1)	5(1)	4	4	5	2	2	5(1)
COMPUTER PORT	OPTIONAL	OPTIONAL	OPTIONAL	USB	USB	USB	RS-232	RS-232	USB	RS-232	RS-232	USB & RS-232	USB & RS-232
HEIGHT (IN)	3.94	2.59	3.75	3.75	4.57	4.56	5.9	5.9	4.5	3.75	2.4	3.78	7.2
WIDTH (IN)	9.45	6.56	9.44	9.44	12.4	13.37	16.7	16.6	12.4	10.63	7	10.63	18.1
DEPTH (IN)	11.54	7.09	9.4	11.06	13.5	11	17.1	17.1	13.5	12.5	10.2	11.46	17.7
WEIGHT (LBS)	9	5.1	8.4	12.1	22.5	22	52.9	55	24.3	17.19	8.15	16.31	54

HF RADIOS

SPEC	MFJ 9015	MFJ 9020	MFJ 9030	MFJ 9040	MFJ 9410X	MFJ 9420X	MFJ 9440X	MFJ 9475X	YAESU FT-817ND	YEASU FT-857D*	YAESU FT-897D	YAESU FT-450D	YAESU FT-950	YAESU FT-2000	YAESU FT-2000D	YAESU FTDX-3000D
BANDS	15M	20M	30M	40M	10M	20M	40M	75M	HF, 60M 6/2M, 70CM	HF, 60M 6/2M, 70CM	HF, 60M 6/2M, 70CM	HF, 60M 6M	HF, 60M 6M	HF, 60M 6M	HF, 60M 6M	HF, 60M 6M
RX RANGE (Mhz)	21-21.2	14-14.075	10.1-10.15	7.0-7.5	28.3-28.6	14.15-14.35	7.15-7.3	3.75-4	0.1-56 76-154 420-470	0.1-56, 76-108 118-164 420-470	0.1-56, 76-108 118-164 420-470	0.03-56	0.03-56	0.03-60	0.03-60	0.03-56
POWER (SSB/CW/FM)	5W CW	5W CW	5W CW	5W CW	20W SSB PEP	12W SSB PEP	12W SSB PEP	12W SSB PEP	5/2.5/1/0.5W SSB/CW/FM	5-100W HF 5-50W 2M 2-20W 70CM	5-100W HF/6M(5) 5-50W 2M 5-20W 70CM(5)	5-100W	5-100W	5-100W	10-200W	5-100W
POWER (AM)	NO	NO	NO	NO	NO	NO	NO	NO	1.5W	25W HF 12.5W 2M 5W 70CM	25W HF/6M(6) 12.5W 2M(6) 5W 70CM(6)	2-25W	2-25W	2-25W	5-50W	2-25W
DSP	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES
TUNER	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES
KEYER	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES
SPEECH READOUT	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO
VOX	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES
POWER REQUIREMENT	12V DC 1.2A	12V DC 1.2A	12V DC 1.2A	12V DC 1.2A	12V DC 1.2A	12V DC 1.2A	12V DC 1.2A	12V DC 1.2A	12V DC 2A	12V DC 22A	12V DC 22A	12V DC 22A	12V DC 22A	BUILT-IN	INCLUDED EXTERNAL	12V 23A
ANTENNA PORTS	1	1	1	1	1	1	1	1	2	2(2)	2(2)	1	2	2	2	3
COMPUTER PORT	NO	NO	NO	NO	NO	NO	NO	NO	CT-62 REQ.	CT-62 REQ.	CT-62 REQ.	RS-232	RS-232	RS-232	RS-232	USB/RS-232
HEIGHT (IN)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.5	2	3.14	3.3	4.5	5.3	5.3	4.5
WIDTH (IN)	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	5.3	6.1	7.9	9	14.4	16.1	16.1	14.4
DEPTH (IN)	6	6	6	6	6	6	6	6	6.5	9.2	10.3	8.5	12.4	13.8	13.8	12.3
WEIGHT (LBS)	2	2	2	2	2	2	2	2	2.6	4.6	8.6	7.9	28.7	32	55	22

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SINGLE BAND MOBILES

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	JETSTREAM	KENWOOD	MFJ	MFJ	YAESU	YAESU
MODEL	DR-03T	DR-06T	DR-135TMKIII, DR-135TPMKIII	DR-235TMKIII	IC-2300H	IC-V8000	ID-1(4)	JT-220M	TM-281A	9402X	9406X	FT-1900R	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
TONE 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
TONE 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	TES
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	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	2.43	2.22	2.6 (0.5)	2.7	2.6	2	2	2.6	4.2

MULTI BAND MOBILES

MANUFACTURER	ALINCO	ICOM	ICOM	KENWOOD	KENWOOD	YAESU	YAESU	YAESU	YAESU	YAESU
MODEL	DR-635T	ID-880H	IC-2820H	TM-V71A	TM-D710A(4)	FTM-10R	FT-7900R	FT-8800R	FT-8900R	FTM-350AR(4)
TX RANGE (Mhz)(1)	144-148 / 430-450	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	144-148 / 222-225 / 430-450
RX RANGE (Mhz)(1)	87.5-108 / 108-174 / 335-480	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	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	DUAL	DUAL	DUAL	DUAL	SINGLE	DUAL	DUAL	DUAL
POWER (2M)	50/25/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	50/20/5W	50/20/10/5W	50/20/10/5W	50/20/10/5W(3)	50/20/10/5W, (1W on 220)
POWER (440 MHz)	35/20/5W	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	50/20/5W
MEMORIES	200	1052	522	1000	1000	500	1000	1000	800	1000
TONE ENCODE	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS
TONE DECODE	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
CROSS-BAND REPEAT	YES	NO	YES	YES	YES	NO	NO	YES	YES	YES
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
GPS	NO	NO	OPTIONAL	NO	OPTIONAL	NO	NO	NO	NO	OPTIONAL
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9600B COMPATIBLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SEPARABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
HEIGHT (IN) (HEAD)	1.6	1.6	1.65 (1.25)	1.7	1.7 (2.8)	1.5	1.6	1.6	1.6	1.8 (2.6)
WIDTH (IN)	5.5	5.9	5.9 (5.9)	5.5	5.6 (6.2)	4.4	5.5	5.5	5.5	5.6 (6.3)
DEPTH (IN)	7.3	7.8	7.4 (2.6)	7.1	6.3 (2.2)	7	6.6	6.6	6.6	6 (1.3)
WEIGHT (LBS)	2.2	2.9	3.3 (0.46)	3.3	2.6 (0.6)	2.9	2.2	2.2	2.2	4.6

(1) Manufactuer only guarantees specs within the ham bands
(2) There are gaps in non-voice or data portions in certain bands
(3) FT-8900R includes 10M/6M as well
(4) Control head cannot be attached to the body
All radios are cellular blocked

Links to Manufacturer's Websites at aesham.com

SINGLE BAND HANDHELDS

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	KENWOOD	YAESU	YAESU	YAESU
MODEL	DJ-175T	DJ-V17T	DJ-V27T	DJ-V47T	DJ-V27T	IC-V80	IC-V80SPORT	ID-31A	TH-K20A	FT-250R	FT-270R	FT-277R
TX RANGE (MHz)	144-148	144-148	222-225	430-450	410-470	144-148	144-148	420-450	144-148	144-148	144-148	430-450
RX RANGE (MHz)	136-174	130-174	216-249.995	410-470	136-174	136-174	136-174	400-479	136-174	136-174	136-174	420-470
AIRCRAFT RX	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	5/2/0.5W	5/0.8W	5/0.8W	5/0.8W	4.5/0.8W	5.5/2.5/0.5W	5.5/2.5/0.5W	5/2.5/0.5/0.1W	5.5/2/1W	5/2/0.5W	5/2/0.5W	5/2/0.5W
TOUCH-TONE PAD	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES
TONE 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
TONE 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
MEMORIES	200	200	200	200	200	207	207	1252	200	209	200	200
ALPHANUMERIC	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-MH	NI-MH	NI-MH	NI-MH	NI-MH	NI-MH	AA	LI-ION	LI-ION	NI-MH	NI-MH	NI-MH
PC PROGRAMMABLE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ANTENNA CONNECTOR	SMA	SMA	SMA	SMA	SMA	BNC	BNC	SMA	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.23	4.33	4.33	4.33	4.33	5.2	5.2	3.7	4.4	4.3	4.7	4.7
WIDTH (IN)	2.28	2.28	2.28	2.28	2.28	2.1	2.1	2.3	2.1	2.3	2.4	2.3
DEPTH (IN)	1.43	1.43	1.43	1.43	1.43	1.4	1.4	1	1	1	1.3	1.2
WEIGHT (OZ)	8.7	9.9	9.9	9.9	9.9	12.3	12.3	7.9	7.4	12.4	13.8	13.8

MULTI BAND HANDHELDS

MANUFACTURER	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	ICOM	KENWOOD	KENWOOD	WOUXUN	WOUXUN	YAESU	YAESU	YAESU	YAESU	YAESU	YAESU
MODEL	DJ-V57T	DJ-G29T	DJ-G7T	IC-T70A	IC-80AD	IC-92AD	ID-51A	TH-F6A	TH-D72A	KG-UV3D 2/220	KG-UV3D 2/440	FT-60R	VX-3R	VX-6R	VX-7RB	VX-8GR	VX-8DR
TX RANGE (MHz)	144-148 420-450	222-225 902-928	144-148 430-450 1240-1300	144-148 430-450	144-148 420-450	144-148 420-450	144-148 420-450	144-148 222-225 430-450	144-148 430-450	144-148 223-225	144-148 420-450	144-148 430-450	144-148 430-450	144-148 222-225 430-450	50-54, 144-148 222-225 430-450	144-148 430-450	50-54, 144-148 222-225 430-450
RX RANGE (MHz)	136-174 400-512	216-250 902-928	0.530-1300	136-174 400-470	0.495-999.99	0.495-999.99	0.520-1.710 88-174 380-479	0.1-1300	118-174 320-524	76-108 136-174 216-280	76-108 136-174 420-520	108-520 700-999	0.5-999	0.5-999	0.5-999	108-999	0.5-999
SINGLE/MULTI RX	SINGLE	FULL DUPLEX	FULL DUPLEX	SINGLE	SINGLE	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	SINGLE	SINGLE	SINGLE	DUAL	SINGLE	DUAL
AIRCRAFT RX	NO	NO	YES	NO	YES	YES	YES	YES	PARTIAL	NO	NO	YES	YES	YES	YES	YES	YES
POWER OUTPUT* *(standard battery)	5/2/0.5W 4.5/2/0.5W	5/2/0.8/0.3W 2.5/0.8/0.3W	5/2/0.8W 4.5/2/0.8W 1/0.3W	5/2.5/0.5W	5/2.5/0.5/0.1W 5/2.5/0.5/0.1W	5/2.5/0.5/0.1W 5/2.5/0.5/0.1W	5/2.5/1/0.5/0.1W 5/2.5/1/0.5/0.1W	5/0.5/0.05W 5/0.5/0.05W 5/0.5/0.05W	5/0.5/0.05W 5/0.5/0.05W	5/1W 5/1W	5/1W 4/1W	5/2/0.5W 5/2/0.5W	1.5/0.1W 1/0.1W	5/2.5/1/0.3W 1.5/1/0.5/0.2W 5/2.5/1/0.3W	5/2.5/1/0.05W 300/50mW 5/2.5/1/0.05W	5/2.5/1/0.05W 5/2.5/1/0.05W	5/2.5/1/0.05W 1.5/1/0.5/0.05W 5/2.5/1/0.05W
MEMORIES	200	500	1000	302	1052	1304	1304	435	1000	128	128	1000	1000	900	900	1327	1267
TONE 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	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS
TONE 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	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS	CTCSS/DCS
TOUCH-TONE PAD	YES	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ALPHANUMERIC	YES	YES	YES	NO	YES	YES	YES	NO	YES	NO	NO	YES	YES	YES	YES	YES	YES
GPS	NO	NO	NO	NO	OPTIONAL	OPTIONAL	BUILT-IN	NO	BUILT-IN	NO	NO	NO	NO	NO	NO	BUILT-IN	OPTIONAL
PC PROGRAM	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
BATTERY TYPE	NI-MH	LI-ION	LI-ION	NI-MH	LI-ION	LI-ION	LI-ION	LI-ION	LI-ION	LI-ION	LI-ION	NI-MH	LI-ION	LI-ION	LI-ION	LI-ION	LI-ION
ANTENNA CONN.	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	R-SMA	R-SMA	SMA	SMA	SMA	SMA	SMA	SMA
HEIGHT (IN)	4.3	4.5	4.5	4.4	4	4.4	4.1	3.4	5.5	4.1	4.1	4.3	3.2	3.5	3.5	3.7	3.74
WIDTH (IN)	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	1.9	2.3	2.3	2.4	2.36
DEPTH (IN)	1.4	1.1	1.1	1.2	1.3	1.3	1	1.2	1.6	1.6	1.6	1.2	0.9	1.1	1	1.1	0.92
WEIGHT (OZ)	9.6	9.5	9.5	13.4	10.3	11.2	8.9	8.8	13.1	9.2	9.2	13	4.6	9	9.2	8.8	8.5

All radios are cell blocked

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Inexpensive/Convenient Mobile Mounting Solutions for Small Radios and Accessories

MT-1 Vent Mount for Remote Heads – Has a 4-hole AMPS pattern that can attach to ALINCO, ICOM, KENWOOD and YAESU remote heads. Swivels 360º for optimal viewing and tightens easily with a tightening ring. Installs and removes in seconds. Fits most horizontal vent louvers.
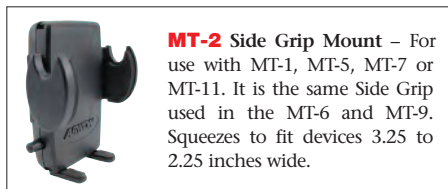
MT-2 Side Grip Mount – For use with MT-1, MT-5, MT-7 or MT-11. It is the same Side Grip used in the MT-6 and MT-9. Squeezes to fit devices 3.25 to 2.25 inches wide.

MT-3 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.
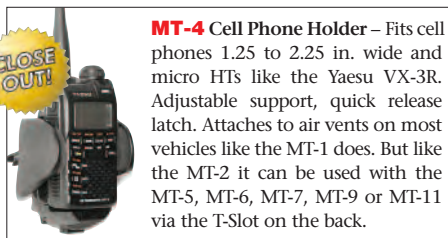
MT-4 Cell Phone Holder – Fits cell phones 1.25 to 2.25 in. wide and micro HTs like the Yaesu VX-3R. Adjustable support, quick release latch. Attaches to air vents on most vehicles like the MT-1 does. But like the MT-2 it can be used with the MT-5, MT-6, MT-7, MT-9 or MT-11 via the T-Slot on the back.

CLOSE OUT!

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.
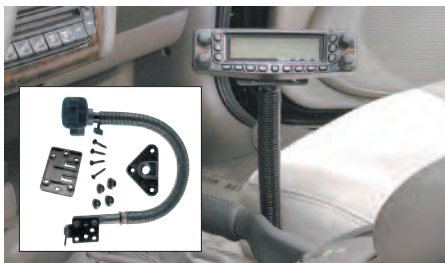
MT-7 Floor/Seat Bolt Mount – Easy to install, without drilling. Simply loosen a passenger-side seat track bolt and slide the mounting bracket under it. It has a gooseneck swivel mounting pedestal that allows positioning for optimal viewing. Comes with a 6-hole AMPS plate that lines up with some YAESU and ALINCO remote head brackets. ICOM or KENWOOD brackets require drilling 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   MT-14   MT-15
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.

Window Mount   Dash Mount

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 30º 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 or belt clips. 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 thumbscrew. Mounts in a variety of locations, even in a hanging position near the rear view mirror. Installs with an adhesive backed mounting pad.

ATTENTION: Some mounts require assembly. Some situations may require using double sided 3M® tape or slight modifications to a radio's mounting bracket.
Express Mount: Accepts the button on the back of a hand-held and rotate it 180º 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.

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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

Compacts for QRP & Mobiles

4115

4103

4110

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 85-135V or 170-260V AC.

Mighty Features – Model **4225MV** and **4245MV** feature a front-panel voltage control which varies output voltage from 9 to 15V DC. 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 column) – 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 (above) – 25 Amps max. or 22 Amps continuous. Dim: 5.75"w x 4.5"h x 6"d; 3.7 lbs.

4245MV – 45 Amps max. or 40 amps continuous. Dim: 7.5"w x 4.75"h x 9"d; 5.5 lbs.

4115 Compact Power Supply – Super compact, great for QRP or FM mobiles - weighs just 1.5 lbs and is a tiny 3.75"w x 2.25"h x 7.75"d. Output is 13.8V DC, 17A surge and 15A continuous. Has load fault indicator and auto shut-down

4103 Compact FT-817/QRP Power Supply – For Yaesu FT-817 or other QRP rigs and MFJ accessories. Input: 100-240V AC, Output: 13.8V DC @ 2.89 Amps. Over-voltage, over-current, and over-temperature protected. Includes output cable with a 2.1 mm plug and an 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 13.8V DC 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 16V DC 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 14V DC**
• **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

A

B

C

D
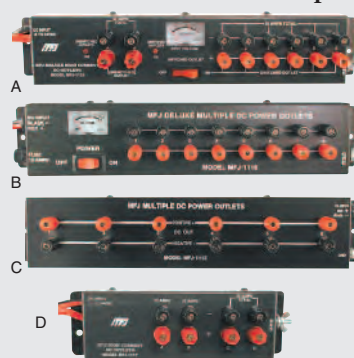
Distributes high current 12V DC power for radios and accessories from your station's main DC power source. Keeps everything neat, organized and safe by keeping wires from tangling and shorting out. All outlets fused, switched and RF bypassed.

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.

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ASTRON CORPORATION POWER SUPPLIES

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-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 meter					
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.

DAIWA — SWITCHING POWER SUPPLIES

SS-505

SS-330W

SS-330W **Regulated, Variable Switching Power Supply** – Provides 5-15V DC at 30A continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, 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. Provides 5-15V DC at 50A 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.

DIAMOND ANTENNA

GZV-4000 **Switching Mode DC Power Supply with Built-in Speaker** – 120V AC input with variable output 5-15V DC, rated at 40A continuous @ 100% duty cycle. Over temperature, overload and short-circuit protection with current foldback at approximately 42A. 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.

powerwerx

SPS-30DM

SS-30RM2

SPS-30DM **Variable 25A Power Supply with Digital Meters** – Features dual metered digital Amps/Volts display & variable output (5-16V DC), or fixed 14.1V DC output. Rear power output via 1/4" binding posts. Supplies up to 25 amps continuous, 28 amps surge. 115V or 230V AC input. Dim: 5"w x 2.5"h x 6.1"d; 3.7 lbs.

SS-30DV **25A Continuous Switching Power Supply** – Features (2) Powerpole® outputs in front and 1/4" binding posts in rear. Input: 100-120V 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!

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samlexamerica — SWITCHING POWER SUPPLIES

SEC-1223

SEC-1235M

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

PowerFilm SOLAR
Rollable Solar Chargers

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 (see below).

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. **CLOSEOUT**

RA-13 **Powerpole Adapter**

Solar Panels fold into a briefcase for easy transport

velleman Inc.

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.

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POWER LINE SURGE SUPPRESSORS

TRIPP LITE
THE POWER PEOPLE

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 plastic 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 also provides protection for modem, fax or telephone.   **CLOSEOUT**

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 16V 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 ea.   **92AA10** 10-pack.

MFJ Intelligent Charger
633 Charges two or four NiCad and NiMH AAA, AA, C, D size batteries and one or two 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.

PHILMORE
Universal AC/DC Adapter

BE-240 – Plugs into outlet. Switchable, converts 115V AC to 3, 4.5, 6, 7.5, 9 or 12V DC @ 800mA. max. Includes six different DC adapter plugs 2.5mm, 3.5mm, 2.1 x 5.5mm, 2.5 x 5.5mm, 1.35 x 3.5mm, 1.7 x 4.0mm & 9V snap-on.

West Mountain Radio

PWR/TOOL
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.

West Mountain Radio
RIGrunnners

RR/8012/C DC Power Panel, 12 Outlets, 80A Max – Status LEDs and audio alert voltage monitor. Includes 6 ft. 8 ga. cable and 12 pairs of Powerpole connectors. Dim: 11.75"w x 1.4"h x 3"d.

RR/4010S/C DC Power Panel, 10 Outlets, 40A Max – One "always on" outlet and nine automatic or manually-controlled switched outlets. Can turn on your entire station with the radio's power button. Status LEDs and audio alert voltage monitor. Includes 6 ft. 10 ga. cable and 12 pairs of Powerpole connectors. Dim: 11.75"w x 1.4"h x 3"d.

RR/4012/C DC Power Panel, 12 Outlets, 40A Max – Status LEDs and audio alert voltage monitor. Includes 6 ft. 10 ga. cable and 12 pairs of Powerpole connectors. Dim: 11.75"w x 1.4"h x 3"d.

RR/4008/C 8 Outlets, 40A Max – Status LEDs and audio alert voltage monitor. For small or mobile installations or as an expansion unit. Includes 6 ft. 10 ga. cable and 12 pairs of Powerpole connectors. Dim: 9"w x 1.4"h x 3"d.
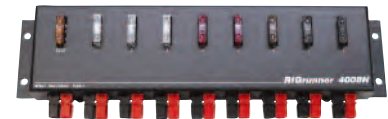
RR/4008H/C Basic DC Power Panel – 8 outlets on the side for horizontal mounting. Includes 6 ft. 10 ga. cable and 12 pairs of Powerpole connectors.

RR/4005/C Basic DC Panel 5 Outlets, 40A Max Includes 6 ft. 10 ga. cable and 6 pairs of Powerpole connectors. Dim: 6"w x 1.4"h x 3"d.

RR/4005H/C – Same as the 4005/C but has the outlets on the side like the 4008H/C above.

RR/4004/USBC – Four Powerpole outlets & two USB sockets to power or charge 5V devices such as phones, tablets, MP3 players, or anything that uses a USB charging cable. Dim: 6"w x 1.4"h x 3"d.

RR/4005I Internet Remote Controlled DC Power Distribution – Provides internet based monitoring and control of the 12V DC power distribution. Delivers up to 40A total through 5 rear mounted Powerpole outlets, 30A continuous duty. Each outlet features independent on/off control and user configurable current trip point, 1A to 40A. Connects to internet using an RJ45 Ethernet port. Has an integrated web server for monitoring and control. Can email an alert message when outlet trips off. Front mounted LCD display and indicator LEDs for local monitoring of status, input voltage and current draw from each outlet.

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West Mountain Radio

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 40A 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. 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 40A max, 30A cont. *Soft turn-on/turn-off* solid state switch protects radio from 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 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 a 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

USB-BUDDY Powerpole (12V) to USB (5V) Converter and Device Charger

– Convert any existing Powerpole source into a USB device power charging port. 3A output provides the fastest charging possible on iPads and other tablets. Input voltage 10-32V DC. Output 5V @ 3A. Compatible with iPhones, iPads, Androids or anything that uses USB for power.

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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.

TMCG-72 (E) – 6 ft. fused (15 Amp AGC) Cig. Lighter Plug to OEM-T Male plug.

CGPP-72 (F) – 6 ft. fused (15 Amp AGC) Cigarette Lighter Plug to Powerpole®.

PPTM-72 (G) – 6 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.

PCLIP-5 (O) – Use these Retention Clips to lock 15/30/45A Powerpoles. .... (Bag of 5)
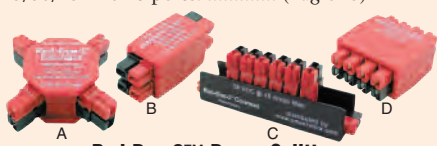
Red-Dee-2™ Power Splitters

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

12-volt DC power cable with extra flexible soft bare copper stranding. The automotive grade PVC insulation is oil, gas resistant and usable over a -40ºF to 176ºF 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

PP45

PP30-10 10 pair 30A.
PP30-25 25 pair 30A.
PP45-10 10 pair 45A.
PP45-25 25 pair 45A.

WP30
Connectors are bonded together

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.

ACP-30

ACP-30 Rainbow Colored 10 pair 30A.

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

RT-1
ITS-12
BT-JUNIOR
CIG-BUDDY

ITS-12 Automatic Power Off Switch – Prevents vehicle battery discharge by switching your radio or other equipment off 2, 15, 30 minutes or 1, 2, 3, 4, 5, 8 and 12 hours after the vehicle is shut off. Also features Low Voltage Disconnect and Overvoltage protection. No ignition connection required.

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.

RT-1 PowerPole Insertion/Removal Tool – For the 15, 30 & 45 amp PowerPole® contacts.

WATT-METER-PP DC Inline Watt Meter and Power Analyzer Measuring capacity up to 60V and 103A. Install in any PowerPole® equipped circuit and measure eight parameters: Amps, Volts, Watts, Amp-hours, Watt-hours, Peak Amps, Minimum Volts (Sag) and Peak Watts.

LF-1-PP DC Noise Filter – Reduces alternator whine in mobile radios. Rated 20A max & 16A cont.

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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

Super Legal Limit Amplifiers

Two RUGGED models with the same look and features, but with a choice of RF Decks.

AL-82 (2) 3-500Z's
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-1500 w/Eimac® 3CX-1500/8877

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-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)

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 ontrols 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

REPLACEMENT TRANSMITTING TUBES
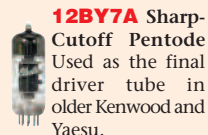
12BY7A Sharp-Cutoff Pentode Used as the final driver tube in older Kenwood and Yaesu.

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. C/O

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-704I2 – 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 on B-34 & B-35) • 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
DUAL BAND (2M/440 MHz)								
BD-35*	144/440	FM	0.3-7W	45/35W	13.8	7	No	

*Must be manually keyed - no RF sensing
*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	14-15	
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

KP-2

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)

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Microphones and Accessories

HEIL SOUND

HEIL GENESIS SERIES

HM-12 GENESIS

GM ELITE

ICM

PR-20 UT

PR-781

PR-40

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 mt 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-PRO / HM-iC

CB-1-PTT

TM-1

SM-1

SM-2B

HM-12 GENESIS Full Range Microphone – A low cost, great sounding microphone that works with all current radios with 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. Internal windscreen, also includes an external foam windscreen and 5/8" x 27 microphone clip. 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.

GM-4 Goldline Dual Element Microphone – Same as the GM-Elite but instead of the HC-5.1 element it has the HC-4 "DX Dream Machine" element.

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-857/97, 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: IC-7600, 7700, 7800 and 9100. 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 cardoid, 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. Imp: 600 ohms, use a CC-1XLR adapter cable. Dim: 6.25" long x 2.10" dia.; 13.5 oz.

MICROPHONE PREAMPLIFIER WITH USB

USBQ Microphone Preamplifier – Ideal for recording, podcasting and broadcasting using your favorite microphone connected to your computer via USB connection. Not just an adapter, but a true single channel mic preamp complete with balanced XLR input mic level, switchable +48V phantom power, bass and treble controls and adjustable headphone output level. Low noise with 16 bit up to 48 kHz sample rates, 20 Hz to 20 kHz frequency response and variable EQ (+/-12dB @ 80 Hz and 10 kHz). Adjustable mic input gain, 600Ω input. Anodized aluminum case. Dim: 5" long x 1" dia. USB cable included.

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

Shown with PR-781 (not included)

PL-2T

HB-1

DT-1

FL-2

WM-1

SB-2

RS-1

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
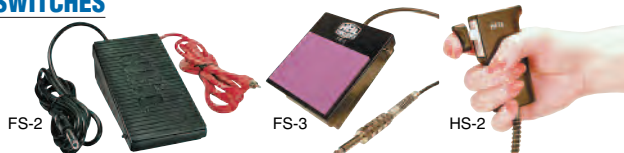
FS-2

FS-3

HS-2

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 & XLR CONNECTORS

See Heil in the Price Guide for Selection

CC-1

XLR-3F

XLR-4M

XLR

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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 incredibily 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-iC 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'** Element for non-PRO Icom (Icom AD-1-iC adapter cable included).

PRO-SET-3

PRO MICRO
PMS-6

PRO MICRO
PMD-6

PRO-SET-3 Dual Side Professional Lightweight Headset – Features high quality 40mm voice coils and neodymium magnets providing a 10 Hz - 22 kHz extended frequency response for exceptional articulation and clarity. Ergonomically designed cushioned headband adjustable for maximum comfort while significantly reducing outside noise. Supplied with three detachable cables; a 1.8 meter flexible straight cable, 1.8 meter straight cord with mating iPhone/iPod compatible 3.5mm plug and a 3 meter coil cord. All are twist lock terminating in a 1/8" (3.5 mm) professional gold plated screw-on 1/4" (6.3mm) adapter.

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.

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.

KOSS HEADPHONES

QZ/5

QZ/99

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

Y-88

Folded

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

YAESU

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 - 4000 Hz 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.
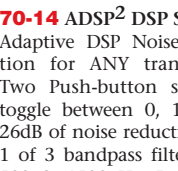
70-14 ADSP^2 **DSP Speaker** Adaptive DSP Noise reduction for ANY transceiver. Two Push-button switches toggle between 0, 13dB or 26dB of noise reduction and 1 of 3 bandpass filters 100, 500 & 1500 Hz. Provides -45dB out of band reduction. Headphone jack. Requires 12V DC @ 500mA. Dim: 5"w x 3"h x 2.5"d; 11 oz.

SGC

West Mountain Radio

CLR/SPKR   CS-1

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).

GAP *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 12-28V 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 53 for more info.

HEAR IT DSPKR 10W Noise Cancelling DSP Speaker (left) – Provides 9dB to 24dB adaptive noise cancelling. Push-button 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 (right) – 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.

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.

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TIMEWAVE
TECHNOLOGY INC.
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 milli-voltmeter and two-tone audio generator. Dim: 7.6"w x 1.9"h x 8.5"d; 2 lbs.

AC-8 Power Supply for Timewave 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.

Check Out The New
AESHAM.COM

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- **See What's In Stock**
- **Works Great On Your Smartphone**

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.

NEW

TS-64WDS CTCSS Encoder/Decoder w/DIP Switches – DIP switches select 64 tones 33 - 254.1 Hz. Dim: 2" x 1.25" x 0.3"; 6 - 20V DC.
TS-64DS – Previous version. **CLOSEOUT**
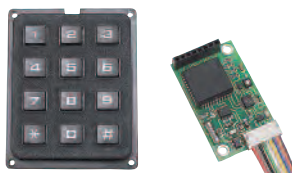
ID-8 Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20V DC. Dim: 1.85" x 1.12" x 0.35".

YAESU
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.

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) & 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.

Take D-Star for a test drive at:
AES Milwaukee, AES Orlando & AES Las Vegas
Experience the future of VHF & UHF communications today!

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, Intel 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.

internetlabs

DV-Dongle
DV-AP

DV-AP - Turn your PC into a Hot Spot!
DV-AP – The DV Access Point connects you 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 runs on 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.
DV-AP-70 – 70cm (440 MHz) Version.

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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. **C/O**

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 109.

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.

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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.
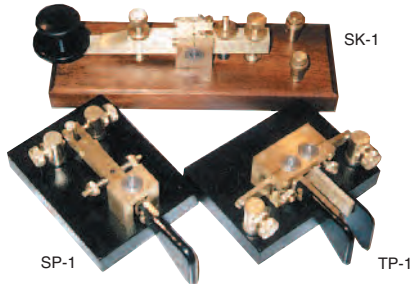
SK-1 – Straight Morse Key.
SP-1 – Single Paddle Morse Key.
TP-1 – Dual Paddle Iambic Key.

UM Unified Microsystems

XT-4   VK-64

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 a 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 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

EZ-1   BY-1

BY-2   BY-4   CLOSE OUT!

ST-1   BY-4

ST-2

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 compon.. C/O
SINGLE LEVER
ST-1 – Black base/Chrome components.
ST-2 – Chrome base & components.

RJ-1   RJ-2

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.

AMECO
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

Morse Code Key

K-1 Low-cost General Purpose Key – Phenolic base, adjustable tension, contact spacing.

VIBROPLEX

CP-3   110

CP-3 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.

120   130
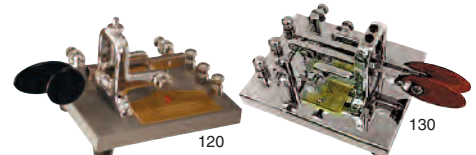
Vibrokeyer (left) – Single lever paddle initiates automatic dots and dashes of an electronic keyer.
120 Standard – Black base, chrome parts.
115 Deluxe – Chrome base and top parts with jeweled movements.

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   150

190   200
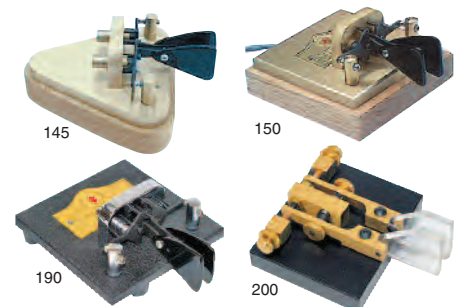
145 Triangle Brass Racer Iambic – Solid brass paddle & polished hardwood base.
150 Square Brass Racer Deluxe – Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs.
190 Square Racer Standard Iambic – Black base with chrome top parts, cord included.
200 Code Warrior Jr – Magnetic Paddle.

155   165
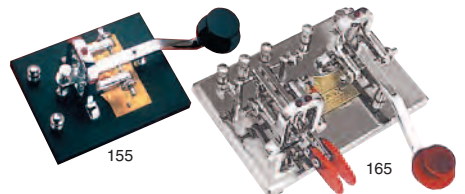
Straight Keys (left) – Unique mechanical action, unlike any straight key ever manufactured.
155 Standard – Black base, chrome parts.
160 Deluxe – Chrome base and parts.

Deluxe Double Key (right) – 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

Plus II
Plug & Play
Nomic
Pro
Duo

RIGblasters & CW/switch

Advantage

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 Icom 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.

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. **C/O**

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 interface cord. .. **C/O**

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/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.

Additional Radio Cables Only:
SL-CAB-13I 13-pin DIN for Icom.
SL-CAB-13K 13-pin DIN for Kenwood.
SL-CAB-5PD 5-pin DIN.
SL-CAB-6PM 6-pin mini DIN.
SL-CAB-8PD 8-pin DIN.
SL-CAB-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

1279
1273

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.

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rtSYSTEMS
RADIO PROGRAMMING MADE EASY

RADIO PROGRAMMING SOFTWARE* FOR:

ALINCO • BAOFENG
ICOM • JETSTREAM • KENWOOD
WOUXUN • YAESU

* Each Programmer is unique to a specific radio... just as your radio is unique in itself.

So much more than just memory management. The programmer handles all the radio settings.

- Insert or delete channel information without reentering the entire list.
- "Direct-Link" to ARRL TravelPlus™ or RFinder Worldwide Repeater Database (sold separately) for repeater details.
- Open several files at once to copy between them; even files for different radios.
- No comport setup.
- Print a hard copy of your channels.

SIMPLE PROGRAMMING/CONTROL SOFTWARE FOR SELECTED KENWOOD AND YAESU HF RADIOS

Your HF radio has memories, now RT Systems offers a tool to help you manage them easily.

System Requirements: Windows XP, Vista, and Win7 or Win8 (full version) 32 or 64 bit. Local CD drive and USB port.

Radio Programming Kits include software* on CD-ROM and RT Systems USB Interface Cable.

USB PROGRAMMING & CAT CABLES THAT WORK!

USB Cables for Programming and/or Control for current and past radio models. RT Systems USB Cables can be used by other applications.

SEE RT SYSTEMS PRODUCT LISTING AT FRONT OF CATALOG

For additional information, visit:
www.rtsystemsinc.com

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 ALINCO Models:
MM-DJG29 – 18 page Mini-Manual and Tri-fold Quick Reference Card combo.
MM-DXSR8 – 12 page Mini-Manual.

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.
QR-IC2300H – 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 – 20p Mini-Manual.
MM-IC756PRO3 – 20p Mini-Manual. C/O
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-ID31A – 24 page Mini-Manual and Tri-folded Quick Reference Card Combo.
MM-ID880H – 24 page Mini-Manual.

Guides for KENWOOD Models:
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-KGUVD1P – Quick Reference Card for KG-UV3D 2M/220 & 2M/440 radios.   C/O

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 – Same but 20 pages & VX-8GR.
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-FTDX3000 – 24 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.

EZ GUIDE DSTAR   MM RADIO MG   EZ GUIDE ECHO

EZGUIDEDSTAR E-Z Guide to D-STAR (3rd Edition) – Describes 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.

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.

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 the antenna, power supply and mic cables. Can also be used as a smart phone or iPod® holder.

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.

Life is a JOURNEY. Enjoy the ride!

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 **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 W/FOLD-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 W/FOLD-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 W/FOLD-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 • Max Pwr: 60W • Conn: SBB-2 PL-259 • SBB-2NMO NMO style

COMET **SBB-5 / SBB-5NMO DUAL-BAND 2M/440MHz W/FOLD-OVER**
Gain & 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

COOPER

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
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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

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 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

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: 10M 120W SSB 6M2M/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 5.56dBi 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: • 6M2M/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 *40/20/15/10/6/2/440MHZ 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 orless 2M/70cm 1.5:1 or less • Length: 66" • Max Power: HF 120W SSB 6/2/70cm 150W FM*HMC-7C optional 40M coil

CLOSE OUT!

COMET
and Maldol Mobile

UNIVERSAL LIP MOUNTS WITH COAX CABLE COMBINATIONS

Several mounts with coax combos are available to chose 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

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-188A/U 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

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
RS-520
Light-duty, 3 adjustment planes, up to 45" antenna.
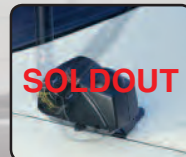
SOLD OUT

Maldol
MK-30H
12VDC motorized mount. Mounts to vertical or horizontal door lip. Up to 70"/19 oz. antenna.

COMET
CP-5M
Universal lip mount with coax, SO-239 and PL-259 connectors.

CLOSE OUT!

Maldol
EM-B80
Light-duty, 2 adjustment planes, up to 40" antenna.

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
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Life is a JOURNEY. Enjoy the ride!

COMET and Maldol — Base Antennas
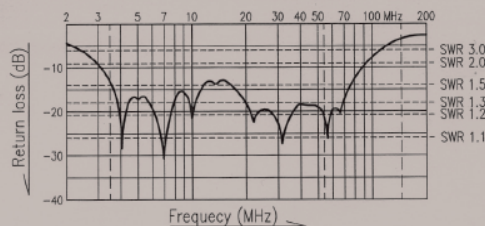
CHA-250B VSWR graph

"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 Gain & 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 Gain & 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: 102" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA Gain & 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 Gain & 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.
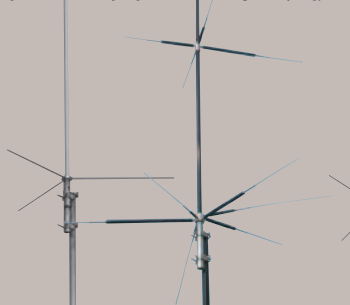
COMET GP-9 / GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA BEST SELLER!• Gain & Wave: 146MHz 8.5dBi 5/8 wave x 3 • 446MHz 11.9dBi 5/8 wave x 8 • Max Pwr: 200W+• Length: 16' 9"" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

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
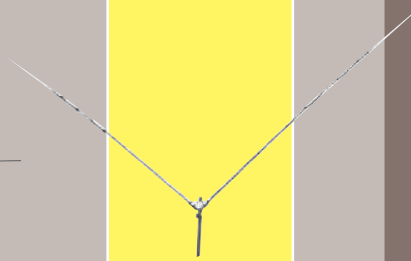
COMET and Maldol Antennas

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DIAMOND ANTENNA

The Standard By Which All Others Are Judged

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
Mast 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.

X30A

X50NA

See Price Guide for additional models and pricing. ◆*Indicates New Item,* SP *Indicates Special Order Item.*

DIAMOND ANTENNA

Diamond Antenna Division of RF Parts Co. Tel: (770) 614-7443 • FAX: (770) 614-7480 • www.diamondantenna.net

DIAMOND ANTENNA

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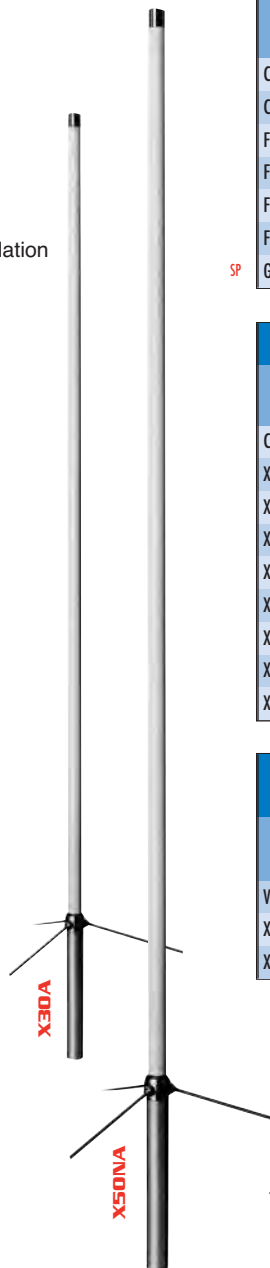
DISCONE, MULTIBAND VERTICAL & YAGI ANTENNAS

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.

D220 Mobile

D3000N / D130J / D130NJ

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 1/4λ rated in dBi.
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
Mast 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/10m15m/40m	50Ω	500/500/400/200	UHF	11.8'	6.6 lbs.
CP5H	6m/10m15m/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
Mast 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
SS770R	Phasing Harness: 144MHz/2m, 440MHz/70cm. Input SO239/UHF (F), Output x2 PL259/UHF (M)

Phased A430S10

A144S5

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'	-

See Price Guide for additional models and pricing. ◆Indicates New Item, SP Indicates Special Order Item.

You've seen the rest...now own the best!

DIAMOND'S STATE-OF-THE-ART VHF/UHF & HF/VHF MOBILE ANTENNAS

Maximum Performance Without Compromise

Spring
Spring
Above Base[12]

Adjustable Hinge
for Multiple
Mounting Options[14]

Fold-Over
One-Touch
Fold-Over Feature.**
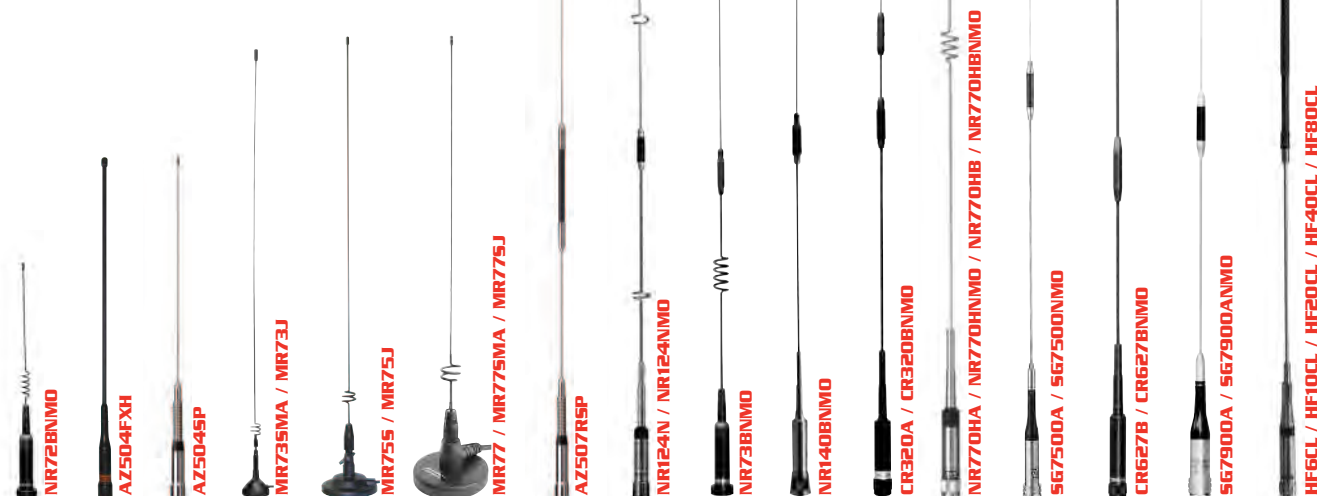
MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	HT. IN.	ELEMENT PHASING 1/4λ rated in dBi.
M285S*[10]	2m	3.4	200	UHF	52.4	5/8λ
M285SNMO*[10]	2m	3.4	200	NMO	52.4	5/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
HF6FX*[6]	6m	2.15	250	UHF	40	1/4λ
HF6CL	50 MHz	250 SSB, 80 FM		UHF	86.6	1/2λ, radialless
HF10CL	28 MHz			UHF	86.6	1/4λ, center loading
HF20CL	14 MHz	200 SSB, 70 FM		UHF	86.6	1/4λ, center loading
HF40CL	7.0 MHz			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
MR73J[13,14]	2m/70cm	2.15/3.4	10	SMA F	19.5	1/4λ, 1/2λ MiniMAG
MR75S[13,14]	2m/70cm	2.15/3.4	35	SMA	20	1/4λ, 1/2λ MAG
MR75J[13,14]	2m/70cm	2.15/3.4	35	SMA F	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
MR77SJ[13]	2m/70cm	2.15/3.4	70	SMA F	20	1/4λ, 1/2λ MAG

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN	HT. IN.	ELEMENT PHASING 1/4λ rated in dBi.
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)	60	UHF	50	1/4λ, 1/4λ,
		5.5 (70cm)				1/2λ, 2-5/8λ

* Not recommended for Magnet Mount

** Fold-Over not available on CR-270A, M285, M285SNMO, M685, M685SNMO, MG200, MR77, MR77SMA, NR72BNMO, and NR73BNMO

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

See Price Guide for additional models and pricing. ◆Indicates New Item, SP Indicates Special Order Item.

The Standard By Which All Others Are Judged

HT/SCANNER & HF MOBILE ANTENNAS

Increase the performance on your handheld or wideband scanner with a Diamond RH or SR Series antenna.

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections.

DUAL BAND

SRHF40 SMA / **RHF40** BNC
Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

◆ **SRH229** SMA
Dual band HT antenna. High gain, flexible whip, 13", 10 watts, 4dB, 222-900MHz, 1-1/4m/33cm.

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.

SRH77CA SMA
High gain 2m/70cm dual band flexible HT antenna. 15", 10 watts, +6dBR.

SRH519 SMA / **RH519** BNC
2m/70cm slim dual band HT antenna. Flexible. 8", 10 watts, +3dBR.

SRHF10 SMA / **RHF10** BNC
SRJF10 SMA Female
2m/70cm dual band HT antenna. Air Band 150/300/450/800/900MHz (Rec.), 2.75", 6 watts.

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.

TRI BAND

RH951S BNC
High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. 14" (Wide band receive), +6dBR.

SRH940 SMA
6m/2m/70cm flexible tri-band HT antenna. 18", 10 watts, +2.15dBi. 1/4λ 50-144MHz, 1/2λ 440MHz.

QUAD BAND / ADJUSTABLE

SRH789 SMA / **RH789** BNC
Adjustable 1/4λ 93-300MHz; 5/8λ 300-1100MHz, 7 3/4"-32" +9dBR.

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.

SRH815 SMA
2m/70cm/23cm tri-band HT antenna. Flexible. 6", 6 watts, +3dBR.

SRH805 SMA
2m/70cm/23cm tri-band HT antenna. 1.75", 10 w.

SRH320A SMA
2m/1-1/4m/70cm tri-band HT antenna. Flexible. 13 3/4". 10 watts, +3dBR.

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

SD330 / SD330-3/8   OPE750

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.

MX62M Duplexer
Optimal. Used where VHF/UHF have separate output.

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
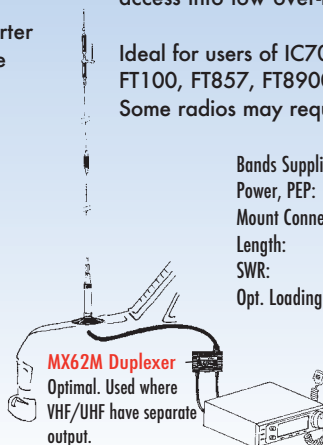
Recommended Antenna Mounts: K400C, K400S, K600S or K600M

See Price Guide for additional models and pricing.   ◆ Indicates New Item, SP Indicates Special Order Item.

DIAMOND ANTENNA

Designed for today's high performance antennas.

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
K400S[1]   SO-239 base, 13.5' RG-316/B, SMA/PL-259
K400SNMO[1] 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
K412S[1]   SO-239 base, 13.5', SMA/PL-259
K412SNMO[1] 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.

SPM35

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.

K515S[1]   S0-239 base, 13.5' RG316, SMA/PL-259
K515SNMO[1] 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   S0-239 base, 13' RG58/U, PL-259
K550   Mount Only
K550L ◆   Mount Only, Oversize.

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 hoizontal position.

K540KM   S0-239 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.

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
K600S[1]   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.

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

K9000LRMO

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.

See Price Guide for additional models and pricing. ◆ *Indicates New Item,* SP *Indicates Special Order Item.*

Diamond Antenna Division of RF Parts Co. Tel: (770) 614-7443 • FAX: (770) 614-7480 • www.diamondantenna.net

CABLE ASSEMBLIES - COAX SWITCHES
LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

Duplexers & Triplexers

MX2000

MX72H/N

MX72D

MX62M

Dummy Loads, Lightning Protection & Coaxial Switches

CX210N

CX210A

SP3000W

CX310A

DL30A

DL30N

MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY	LPF		HPF	LPF	BPF	HPF	LPF	HPF
BAND (MHz)	1.6-30	140-150	400-460	1.6-60	110-170	300-950	1.6-56	76-470
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	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (M)	(M) MIX 50 144 430 (M) (M) (M)			(M) MIX HF VHF	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

More duplexers/triplexers available on website.

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

C101-3/8CKIT

C104SMA

C110

C105SMA

C101
S0-239 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

C104SMA
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.

C105SMA
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:	WNMO2/70SH

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"

LARSEN
ANTENNAS

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 manufacturers 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 144-512 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

Mounting Pipe Not Included

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 (Stainless)
NMO27B (Black)
Freq:	27-31 MHz
Gain:	Unity
Power:	150 Watts
Type:	Loaded 1/4 Wave
Base:	NMO27BC0
Height:	53"
Whip:	W490

NMO50C (Stainless)
NMO50B (Black)
Freq:	47-54 MHz
Gain:	Unity
Power:	150 Watts
Type:	Loaded 1/4 Wave
Height:	52.5"
Whip:	W490

NMOQSPEC (Stainless)
NMOQSPECB (Black)
Freq:	136-960 MHz
Gain:	Unity
Power:	200 Watts
Type:	1/4 Wave
Height:	22"
Whip:	W200

NMO150C (Stainless)
NMO150B (Black)
Freq:	144-174 MHz
Gain:	3 dBd
Power:	200 Watts
Type:	5/8 Wave
Height:	51.5"
Whip:	W490

NMO440C (Stainless)
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.

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 (Stainless)
TMB34B (Black)
Trunk gutter bracket, 3/4" hole. Screws included
Size: 2" x 2"

Parts and Accessories

W490
Stainless Steel .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

LARSEN ANTENNAS

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

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VHF and UHF Mobile Antennas

HUSTLER

HUSTLER

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

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

• 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
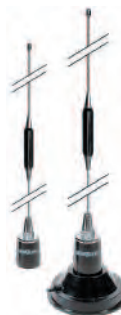
LM Series NMO Coils
LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

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
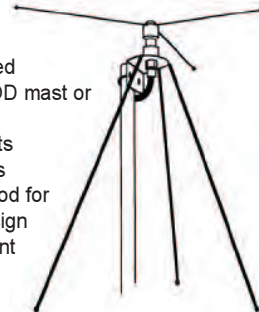
DCLB
• Same as DCX
• 50 ft RG58/U coax with PL-259 on one end and BNC on the other end

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
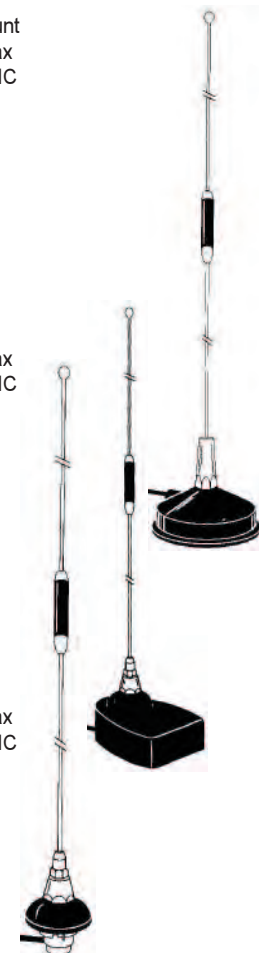
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Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

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

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.

Professional Chrome Series
C-32
Chrome plated 1 ½" 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".

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.

HUSTLER®

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

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 G6-440

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

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 G6-144B
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 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 perma-nent 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 ominidirectional, 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.
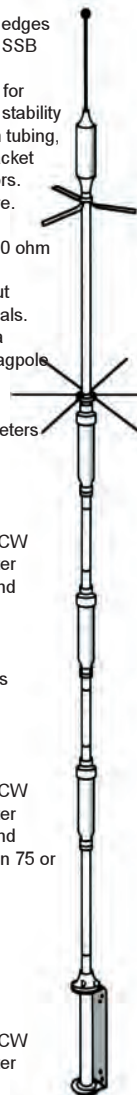
CUSHCRAFT AMATEUR RADIO ANTENNAS

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

Price Guide
Ham Radios
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Antenna Accessories
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Other Radios
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AES Information

HF MOBILE ANTENNAS

MODEL NUMBER	FREQUENCY (MHZ OR METERS)	BANDWIDTH @ 2:1 SWR	HEIGHT (INCHES)	WATTS (PEP SSB)	MOUNT	WEIGHT (OZS)
COMET - SEE PAGE 55 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 61 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 67 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
JETSTREAM - SEE PAGE 76 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 65 FOR MORE INFO						
NMO-27C	10/11M (CB)	-	53	150	NMO	8
NMO-27B	10/11M (CB)	-	53	150	NMO	8
MALDOL - SEE PAGE 55 FOR MORE INFO						
HMC-6S	[4]40/20/15/10/6/2M/70CM	-	66	120	PL-259	28
MFJ - SEE PAGE 76 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 77 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
TARHEEL - SEE PAGE 76 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 76 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

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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 the 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; 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.

Grounding

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.

HF Sloper Antennas

Best sloper performance is achieved when installed on a grounded metal support structure such as a mast or tower with an HF beam on the top. The use of a good isolating choke balun is also recommended.

DX-B 1/4-wave Sloper - A 160, 80, 40, 30 meter single wire antenna requiring only 60 ft. of space overall and provides amazing DX performance at installation heights of only 35 ft. when mounted to a tower with a beam on top and the low end sloping to 8 ft. off the ground. Designed to be used at full legal power with 50 ohm coax and wide range antenna tuner. Utilizes stainless-steel hardware, 12 ga. solid copper wire and two efficient Alpha Delta *"Iso-Res"* RF choke coils. Pre-assembled.

DX-A 1/4-wave Twin Sloper - A 160, 80, 40 meter wire antenna that combines the DX capability of the 1/4-wave sloper with the bandwidth of a 1/2-wave dipole. One leg is 67 ft., the other 55 ft. Installs like an inverted-V with ground return accomplished thru tower, mast or a down-lead.

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
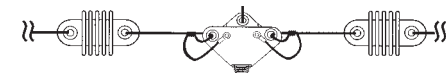
• 50 ohm coax feed, no traps, handles full power.
• Installs horizontally or as an Inverted V.
• Rugged, full-size performance.
• Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

DX-80 – 75/80 meters, 134 ft. long.
DX-40 – 40 meters, 67 ft. long.
DX-20 – 20 meters, 34 ft. long.
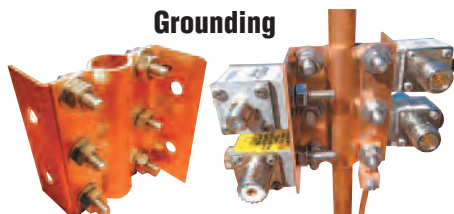
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hy-gain

Triband Beams

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 swedged 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.

AV-18HT

AV-18HT-JR

DX-88

AV-14AVQ / AV-18AVQ II
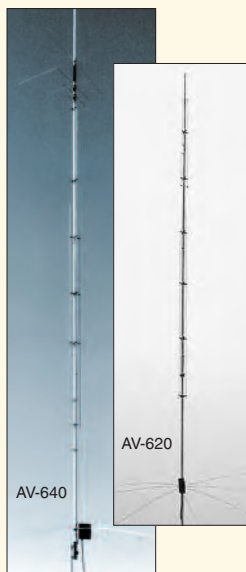
Multi-Band *PATRIOT* Vertical Antennas
• No Radials
• No Traps
• No Ground
• No Tuning
• Handles 1500W

AV-620

AV-640

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

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.

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.

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.

SO-239
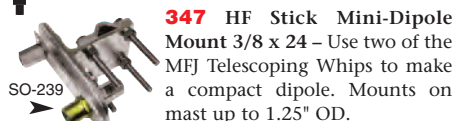
347 HF Stick Mini-Dipole Mount 3/8 x 24 – Use two of the MFJ Telescoping Whips to make a compact dipole. Mounts on mast up to 1.25" OD.

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
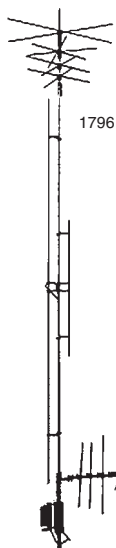
1796 1/2-wave 6-Band No-radials 12 ft. tall Vertical, Covers 40, 20, 15, 10, 6 and 2M – Only 12 feet high with a tiny, 24 inch foot print. Mount it anywhere: ground level to tower top, apartments, small lots, trailers. Perfect for vacations, field day, DXpeditions and camping. Uses efficient end loading with no lossy traps. And the entire length is always radiating. Automatic bandswitching, low angle radiation, omni-directional pattern, handles 1500W PEP.

1796

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
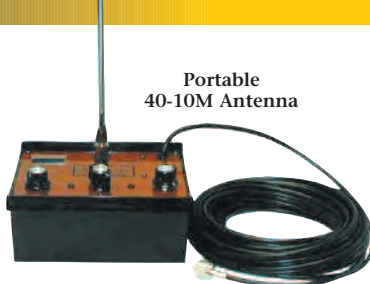
1621 – A complete portable 40, 30, 20, 15, 12 and 10M antenna for use in practically any location: an unobstructed apartment, campsite, hotel, even at the beach. Consists of a 54 inch telescoping whip antenna mounted on a sturdy cabinet which houses an antenna tuner and field strength meter. Just place 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.

DAVIS RF
DIVISION OF ORION WIRE CO. INC.

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	**PS-13-250**	250ft
CW-14-250	250ft	**PS-18-100**	100ft
CW-16-100	100ft	**PS-18-250**	250ft
CW-16-250	250ft	**PS-26-100**	100ft
PS-13-100	100ft	**PS-26-250**	250ft

ISOTRON
BILAL COMPANY
www.isotronantennas.com

80/40 COMBO

ISOTRON 80
ISOTRON 40

• SIMPLE & EFFECTIVE
• SINGLE BAND & MULTI-BAND FROM 160 – 6 METERS
• 52Ω COAXIAL FEED
• NO TUNER
• NO RADIALS

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

20/15/10M COMBO

40/20M COMBO
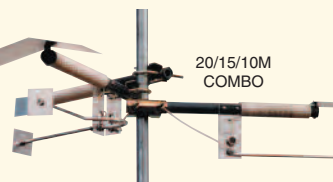
80/40 COMBO – (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32"h x 16"w x 30"d; 10 lbs.

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.

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RadioWavz *High Performance*

Wire Antennas • Baluns • Line Isolators • Antenna wire/ Twin-lead • Coax assemblies

G5RV

TUNED DIPOLE & OFC WINDOM

BAZOOKA

END FED

B-11A,
14VA,
19TX

DPH

HIGH
POWER

B11ISO

G5RV

Measures 102 ft. across the top dipole section for 80-10 meter operation. Center-fed through a 28 ft. 450Ω twinlead stub terminating into an SO-239 connector for attaching any length of 50Ω coax. An easy match on all bands using the antenna tuner built-in to most radios, or an external tuner. Handles 1.5kW SSB. Great 20 meter performance.

G5RV Variations:

G5RV 80-10 meters, 102 ft., 32 ft. stub.

G5RV JR 40-6M, 51 ft., 300Ω 14 ft. stub.

G5RV LITE 80-10 meters, 67 ft., 32 ft. stub, 200W limit on CW.

G5RV MAX 160-10 meters, 204 ft., 64 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 which does not require a balun. The center conductor is not cut and does not radiate, but acts as 1/4-wave shorted stub that cancels reactance as frequency changes resulting in increased usable bandwidth. Feeds directly with 50Ω coax. The coax outer jacket is intact and sealed so there is no exposed wire. During rain or windy conditions, noisy static charges do not build up. Handles 1500W SSB & 200W CW. Install horizontally or as inverted V. Fully assembled.

40M-DBZ 40M, 70 ft. length.

75M-DBZ 75M, 127 ft. length.

160M-DBZ 160M, 265 ft. length.

ADJUSTABLE LOADING COIL

Durable coil wound around a ferrite core. Use one for mobile or base vertical or use two in a pair for a rotatable dipole.

P80 Resonates 80-12M using a 102" whip or 40-6M with a 42" whip. Dim: 9.5"l x 1.5"dia.

P40 Resonates 40-10M using a 102" whip and 40-6M with a 42" whip. Dim: 7.5"l x 1.5"dia.

Note: Whip not supplied, recommend:

MFJ 1954 20 in. to 10 ft. telescoping whip.

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. length.

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 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. Rated 1500W SSB/ 200W CW. SO-239 connectors. Dim: 6.75" x 1.75" dia.

High Power Models – For applications where a higher power rating and a more rugged balun or choke is required. 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 CABLE ASSEMBLIES

High-quality *RG-8X-type* 50Ω coaxial cable with Silver/Teflon® UHF (PL-259) connectors installed on each end and reinforced with weatherproof strain-relief sleeves.

• 16 ga. stranded copper center conductor (19/29)
• 95% coverage bare copper braid shield
• FPE dielectric, 78% velocity factor
• Black PVC jacket, .242 in. diameter
• Rated 350W @ 30 MHz
• Loss/100 ft: 2.1dB @ 50 MHz, 3.1dB @ 100 MHz

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 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.
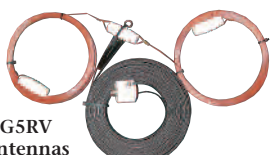
Off Center-Fed 7-Band Antennas

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. 5 lbs.
OCF-HP – Same but rated at 3KW, 6 lbs.

1778 **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.

JSC 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 71).

WA1FFL Ladder-Loc®
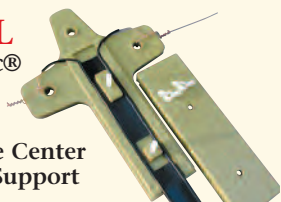
Ladder Line Center Insulator/Support

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.

MFJ 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

4601
4602
4603

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).

Replace this | with this!
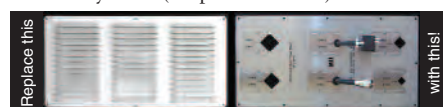
4616 Turn an air vent into a feedthrough point using a stainless steel plate with 6 adjustable holes.

Tarheel Antennas

LITTLE TARHEEL II

100A-HP
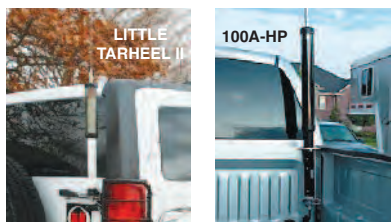
LIL TARHEEL II Motorized Mobile Antenna
The **Little Tarheel II** antenna covers 3.5–54 MHz continuous with the supplied 32 in. stainless whip and is only 54 in. tall at 3.5 MHz. Tunes via a remote up/down switch. Power Rating: 200W PEP; VSWR: 1.5:1 or less; Lower Mast: 1.5 in. diameter by 16 in. long; 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 a 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

344

7707

333BS

335BM

347

NEW 7706

336T

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 dipole. Mounts on masts up to 1.25" dia. SO-239 connector.

7706 NMO to SO-239 Adapter – Mount a antenna with PL-259 conn. to a NMO mount.

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   JTM-EXR

JTM-EX 8pin Modular Cable.
JTM-EXR 8pin Round Cable.

YAESU

ATAS-120   ATAS-25

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.

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).

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.

1925I2 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.

FREE SHIPPING!
On most orders $100 or more
See page 119 for details

Price Guide

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Antenna Accessories

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OUTbacker

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.

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:

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'.

BASE:

OUT-REACH 80-10M 300W PEP 9'.
OUT-REACH 500 80-6M 600W PEP 9'.

Shown with antenna
(not included)

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.
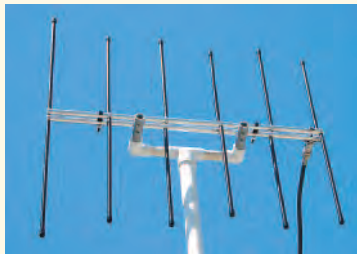
220-L6 **220 MHz Log periodic** – All of the great Elk Antenna log-periodic features in a popular 220 MHz version. **222-225 MHz;** 6 elements; 7.3dBd gain; 1:1 SWR; 28+ dB F/B ratio; Rated 150W; 24 in. boom; 1.3 lbs.

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.

57-1/2"

19-1/4"

Dual Band 1/2-wave Antenna – two J-Poles in one

6-1/2"

5-1/2"
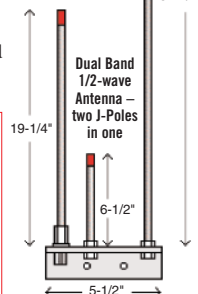
LEO Satellite Antenna

30"ANTBAG

146/437-10 – KK5YY 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"ANTBAG **Antenna Carrying Bag** For 146/437-10BP. Dim: 30" long x 3" dia.

hy-gain VHF BEAMS

VB-25FM

VB-25FM **2M 5 Element Beam 6.25 Foot 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.

M² High Performance

2M-18XXX (Special Order)

6M-7JHV

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.

2M-3SS (left) / 6M-3SS (above)
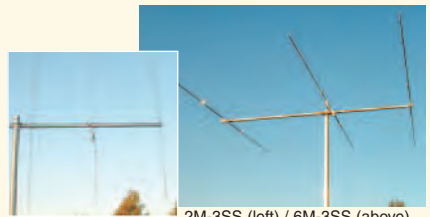
Starter Series (SS) Yagis – Low cost, medium performance antennas for your first venture into the VHF and UHF bands. Tailored for compact size and portability. Each antenna breaks down to no more that 40 in. long, making it a natural for field day, vacations, mountain topping, fox hunts and DXpeditions. 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.
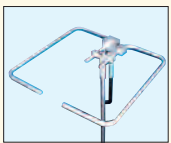
Eggbeaters – Produces smooth omnidirectional Horizontal/RHC polarity at the horizon. Perfect for satellite or SSB modes. Models for 2M & 432 MHz.
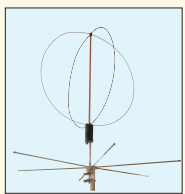
See Page 12 in the Price Guide and for more information go to: www.m2inc.com

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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

A   B   C   D   E
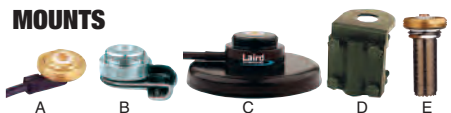
MB-8PST NMO Permanent Brass Hole Mount (A) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Includes 17' of RG-58A/U coax with PL-259 connector.

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.
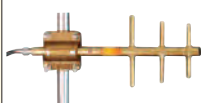
Gold-Anodized Yagis Internally matched, wide band. End-of-boom N-type connector, internal transmission line feeds the driven element.

Y-1363 3-Element VHF – Covers 136-150 MHz, 7.1 dBd, 17 dBd 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.

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butternut ANTENNAS / SKYHAWK
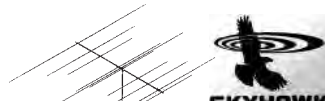
YAGI

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 - no lossy traps. Both the HF-6VX and HF-9VX are 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.

A-6 6M 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.

Price Guide

Ham Radios

Radio Accessories

Antennas

Antenna Accessories

Publications

Other Radios

AV / Tools / WX

AES Information

RadioWavz

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.

Miracle Antenna

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

1432   1422   1412   1402
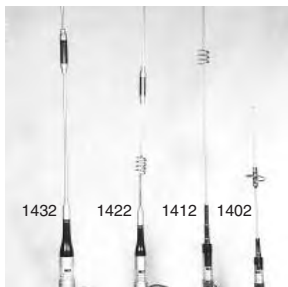
Quality construction using precision machined components. Rugged, designed to battle the elements.

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.

A   D   F

B   G

C   E   H
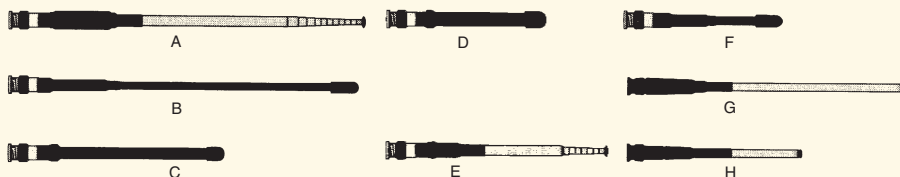
HAND TUNED ANTENNAS for HANDHELD RADIOS

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, 5¾" 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   1712   1713   1714   1715   1716

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 end-fed 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.

1717PL with PL-259
Connect to your mobile radio at lower power
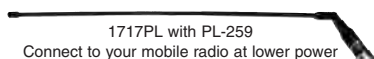
1717 High Gain FlexiDuck BNC– 15.75 in. long; 1/4 Wave on 2M and 1/2 Wave on 440.

1717S – Same as 1717 w/**SMA** connector.

1717PL – Foldover mobile ver. w/**PL-259**.

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.**

FlexiDuck™ for 6M/2M/440 MHz
1720S – 17.25 in. long makes it a 5/8 Wave on 440, and 1/4 Wave on 6M and 2M. Handles up to 10 watts with **SMA** connector.

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 then 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. Comes with a PL-259 adapter to connect to your mobile radio at lower power.

1722S – Same but SMA connector.
1721 – 2M only w/BNC connector.

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.**

More HT Antennas on Comet/Maldol pages 54 & 55 and Diamond page 61

MFJ PRODUCTS

1790 10M Vertical

Features a lightweight 11-ft. radiator and two 6-ft. radials, both aluminum. Weighs less than 3 lbs. It's easy to put up and take down for portable operation. Low angle DX radiation. Rated at 1KW SSB.

Mount and Hi-Q matching system detail

2289 8-band Portable Dipole

Wide range, manually tunable to a low SWR between 7 and 55 MHz. Features strong stainless steel telescopic whips mounted into a center mounting block, extending in a 45-degree V-configuration to a 34 ft. wide span. Uses a unique high-Q matching system and a built-in balun, no loading coils. Rated at 1KW SSB.

2982 31 ft. 80-6M Wire Vertical

Complete antenna system includes adjustable base-loading coil, balun and counterpoise. No tuner needed for low SWR on 80, 75, 60, 40 and 17 meters. Operation on on 30, 20, 15, 12, 10 and 6 meters does require a tuner. Self-supporting, sets up in minutes, collapses to only 3.8 ft. The 1.75" base supports twist-lock fiberglass sections which manually telescope to 31 ft. to support the lightweight antenna wire which is dispensed from a handy detachable spooler. Additional wire may be added for inverted "L" or "T" configuration. The base matching unit which is RF isolated can be attached to any support. No ground rods needed, just connect the four insulated 12 ft. radial wires and spread them out on the ground. Power Rating: 600W PEP.

2822 Trailer Hitch Antenna Mount

Strong riveted aluminum construction. Slips into a standard 2 x 2 in. hitch receiver (not included) and a bolt locks it in place. Includes a 3/8-24 threaded antenna mount and SO-239 connector.

2286 Portable Monopole Antenna

An tunable high-Q air wound coil paired with a rugged 17 ft. collapsible stainless-steel whip and counterpoise kit provides 7.0 to 55.0 MHz coverage. Over 18 ft. long fully extended; disassembles and collapses to just 28 in. for portability. Includes mount for 1/2 or 1/4 in. pipe or mast. Standard 3/8-24 antenna connection with SO-239 underneath. Rated: 1KW SSB, weighs 2 lbs.

923 VHF/UHF Dual Band Antenna Tuner

Covers the complete 144 MHz and 440 MHz bands and rated at 200 Watts. Built-in Cross-Needle SWR/Wattmeter simultaneously measures SWR, forward and reflected power on 300 or 30 Watt meter ranges. Matches a wide range of impedances for both mobile and base operation. Single input and output SO-239 for radio and antenna connection. Perfect match for today's dual band radios with combined single output and dual band antennas. Dim: 9.5"w x 4.5"h x 2.6"d.

Same Day Shipment on Most Items

SMALLER ANTENNA MOUNTING SOLUTIONS

EASYUP

EZ 5-16

EZ 31

EZ 29-24S

EZ 48-3ABX
EZ 48-5ABX

EZ 30-24
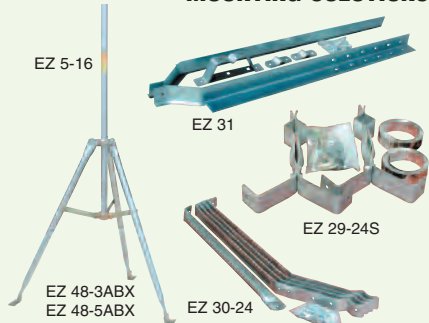
Easy-Up Tri-Pods are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Legs extend to any rafter spacing. Completely assembled and includes a pitch pad kit and 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 tripod's height is 55 inches and collapsed is 34 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.

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**
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**
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**
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**
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**
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**
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 5942 Standard, 4-wire; 4-20 gauge.
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 11 in the Price Guide
DRF RCH Heavy, 8-wire; 2-16 ga. & 6-18 gauge.
See Davis RF on Page 6 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. **C/O**

YAESU

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; 35 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; Requires 8-wire cable. Dim: 7.5"dia. x 12.5"h; 16 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; Requires 8-wire cable. Dim: 7.5"dia. x 12.5"h; 15 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.; Requires (2) 8-wire cable. Dim: 12.5"dia. x 7.5"h; 28 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; Requires 8-wire. cable. Dim: 10.5"dia. x 7.5"h; 16 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; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 8-wire cable. 7.5" dia. x 12.5"h; 16 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; Requires 4-wire cable. 7.5"dia. x 12.5"h; 15 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
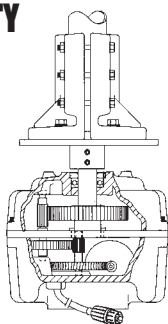
Channel Master®

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. 10 lbs

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.

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ICOM

AUTOMATIC ANTENNA TUNERS

AT-180

CLOSE OUT!

AH-4   INSIDE

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. **C/O**

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.

SGC Smartuners™

Automatic Antenna Couplers

Stop tuning, start talking.

MAC-200   SG-239   SG-237   SG-230

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.

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.

MFJ ANTENNA TUNERS

9982   998   998RT (Inside)

NEW

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 algorithms, and over 20,000 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. 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, 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.

998RT Remote Intellituner™ – Remote version of the 998 includes MFJ 4117 BiasTee Power Injector to send the DC/RF down the coaxial line. Same specs as the 998 in a weather-tight ABS plastic cabinet.

MFJ ANTENNA TUNERS

902B

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.

902B **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 80-6M. 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/220 MHz 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.

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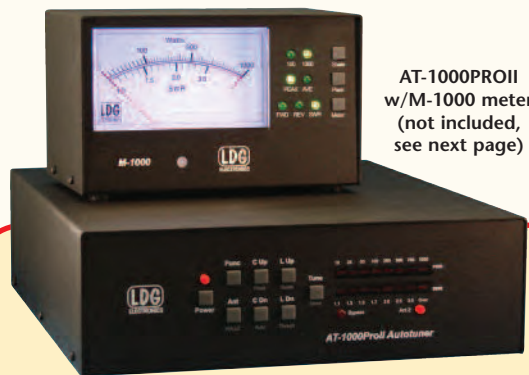
AT-1000PROII
w/M-1000 meter
(not included,
see next page)

LDG ELECTRONICS

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.

AT-600PROII
w/M-600 meter
(not included,
see next page)

AT-100PROII

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-600ProII 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. The optional M-600 4.5" analog meter shows FWD, REV, or SWR (more info next page). Dim: 8.5"w x 2.5"h x 10.5"d; 3 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.

Radio Interface Cables

The AT-1000ProII, AT-100ProII, AT-200ProII, AT-600ProII, 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-600ProII 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.

Tuners for Yaesu Radios

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. LDG 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. Continuous coverage 1.8 to 54 MHz. Power rating on HF: 0.1 to 100W, 30W on PSK.
Dim: 1.5"w x 3.25"h x 11.5"d; 2 lbs.

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 Tuner for Yaesu FT-847

Same features and specifications as the YT-450 but made specifically for the FT-847. An included CAT/Power cable interfaces with the FT-847. Just press the TUNE button on the tuner! ......

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 FT-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-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 to 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.

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.

Multi-function Meters

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.

M-600 Meter for AT-600ProII

4.5 in. meter for the AT-600ProII Tuner. It will independently display Forward or Reflected RF power or SWR. 600 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. ....

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

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.

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).

Price Guide
Ham Radios
Radio Accessories
Antennas
Antenna Accessories
Publications
Other Radios
AV / Tools / WX
AES Information

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.

COMET

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.

PALSTAR

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; 17lbs.

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.

PALSTAR

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

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.

MFJ SWR ANALYZERS

259B

269

249B

266

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.

MFJ SWR ANALYZER ACCESSORIES

5510C

731

66

29C / 39C

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 can hold 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 coil set and 1312D AC adapter.

98B Accessory Pack – Includes 10 "AA" NiMH batteries, 39C case, 66 dip coil set and AC adapter.

99 Accessory Pack – Includes 29C case, 66 dip coil set and 1312D AC adapter.

99B Accessory Pack – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coil set 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.

Software-Defined, PC-based HF/VHF Antenna Analyzers

BNC FEMALE

SMA FEMALE

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.

PALSTAR 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.

TIMEWAVE TECHNOLOGY INC.

In stock at Milwaukee

AntennaSmith™
Antenna Impedance Analyzer
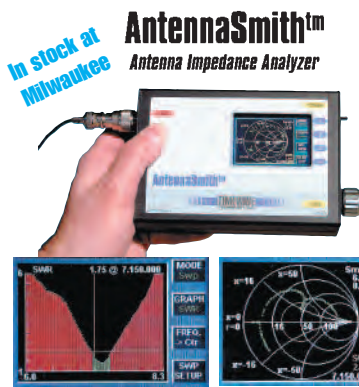
• **Full Color TFT LCD Graphic Display** • **SWR**
• **Covers 0.2-55 MHz** • **Impedance (Z)** • **Smith Chart**
• **Reactance (r+jx)** • **Reflection coefficient (ρ, ϑ)**

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

860

862

864

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/817C

812B

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   816   842

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/6M 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 backlighting. 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.

MISC. METERS

801   802

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 feedline 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 backlight; 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   208   209

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 110V AC 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 Dynamics — RF Directional Wattmeters

81000-A

83000-A

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 4 in the Price Guide for Plug-in Elements that also work in BIRD meters

DAIWA — 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); ±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).

VANCO — Low Cost SWR Meters

CLOSE OUT!

SWR-1

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. **CLOSEOUT**

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.

PALSTAR

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.

MFJ

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.

AMERITRON

ADL-1500   ADL-2500

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.

VECTRONICS

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

JSC WIRE & CABLE

TIMES MICROWAVE SYSTEMS

BELDEN
SENDING ALL THE RIGHT SIGNALS
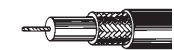
DAVIS RF
DIVISION OF ORION WIRE CO., INC.

MODEL	TYPE	DIA (IN)	CENTER CONDUCTOR	INSULATION TYPE	SHIELD COVERAGE	JACKET TYPE	IMP Ω	VEL FACT	LOSS/100' 100 MHz
JSC WIRE & CABLE									
3030	RG-8/U	0.405	13 AWG (7/21) bare copper	Foam polyethylene	97% bare copper braid	Black vinyl	57	78%	1.8 dB
3060	Mini RG-8/U	0.240	16 AWG (19/29) bare copper	Foam polyethylene	95% bare copper braid	Black vinyl	50	78%	3.6 dB
3110	RG-58A/U	0.195	20 AWG (19/33) bare copper	Polyethylene	96% bare copper braid	Black vinyl	50	66%	4.9 dB
3500 C/O	9913 Equivalent	0.405	10 AWG solid bare copper	Semi-solid polyethylene	100% foil & 88% tin copper braid	Black vinyl	50	84%	1.4 dB
3780	RG-213/U	0.405	13 AWG (7/21) bare copper	Polyethylene	97% bare copper braid	Black vinyl non-contaminating	50	66%	2.2 dB
TIMES MICROWAVE SYSTEMS									
LMR-400	RG-8	0.405	Solid BCCAl	Foam polyethylene	100% alum tape plus 95% tinned copper	Black polyethylene	50	85%	1.248 dB
LMR-400-DB Watertight	RG-8	0.405	Solid BCCAl	Foam polyethylene	100% alum tape plus 95% tinned copper	Black polyethylene	50	85%	1.248 dB
LMR-400-UF Ultraflex	RG-8	0.405	10 AWG stranded bare copper	Foam polyethylene	100% alum tape plus 95% tinned copper	Black rubber	50	85%	1.498 dB
BELDEN									
8216 C/O	RG-174 Subminiature	0.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50	66%	8.4 dB
8219 C/O & 8219WHT C/O	RG-58A/U	0.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC White PVC	53.5	73%	4.5 dB
8262 C/O	RG-58C/U non-contaminating	0.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC non-contaminating	50	66%	5.4 dB
8241 C/O	RG-59/U	0.242	23 AWG sold bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75	66%	3.4 dB
9248 C/O	RG-6	0.27	18 AWG solid bare copper	Gas-injected polyethylene	100% alum tape 60% tin copper	Black PVC	75	82%	2 dB
9913F7	RG-8	0.405	10 AWG stranded .108" bare copper	Gas-injected foam HDPE insulation	100% Duobond II® tape 95% tin copper braid	Belflex® PVC blend	52	85%	1.3 dB
DAVIS RF									
BURYFLEX	RG-8	0.405	9.5 AWG stranded bare copper	Foamed PE	100% bonded foil 97% tin copper braid	UV resistant PE	50	82%	1.5 dB
RG-213	RG-213	0.405	13 AWG 7x0.0296" bare copper	0.098" Solid polyethylene	96% bare copper braid	PVC IIA non-contaminating	50	66%	2.1 dB
RG-8XIIA	RG-8X	0.242	16 AWG (19/29)	Foamed PE	95% braid	PVC IIA non-contaminating	50	82%	3.1 dB

COAX STRIPPERS

VT-COAX

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

SILVER, TEFLON®, CONNECTORS.

CXP1318FC
Connector: **PL259 both ends.**
Burial: **Yes.** UV Resistant: **Yes.**
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**
Attenuation @ 100ft: 50MHz 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
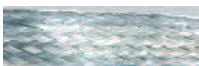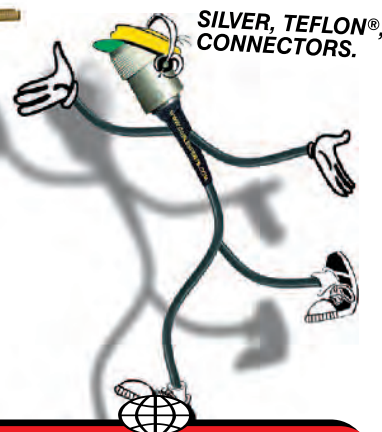
CABLE X-PERTS, INC.
Connecting You to the World...
See Page 4 in the Price Guide for pricing.

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
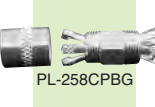
SHAKESPEARE
PL-259CPBG – PL-259; no strip, solderless male connector for RG-8X & RG-58/AU

PL-259CPBG

SHAKESPEARE
PL-258CPBG – No strip, solderless splice for RG-8X & RG-58/AU

PL-258CPBG

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

AP-115

AP-135

DALBANI
15-0293 3.5mm monaural phone plug **C/O**

15-0293

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
6633S – 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
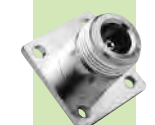
AMPHENOL
82-24 – Type-N chassis mount receptacle

COAXIAL ADAPTERS

AMPHENOL
83-1T – UHF T-connector

83-1T

AIM
27-8140 – BNC T-connector

27-8140

AMPHENOL
83-877 – UHF double male

JETSTREAM
JT-1111 – UHF double male

83-877 / JT-1111

AMPHENOL
4400 – SO-239 to Type-N male
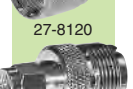
AIM
26-8015 – SO-239 to Type-N male

4400 / 26-8015

AIM
27-8120 – BNC female to PL-259

27-8120
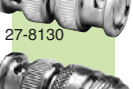
HOUSE OF DEALS
SMA-872 – SO-239 to SMA male

SMA-872

AIM
27-8130 – BNC double male

27-8130
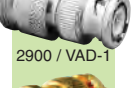
AIM
26-8017 – BNC male to N female

26-8017
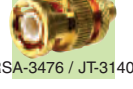
AMPHENOL
2900 – BNC male to SO-239
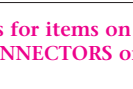
VANCO
VAD-1 – BNC male to SO-239

2900 / VAD-1

RF PARTS
RSA-3476 – BNC male to SMA female

JETSTREAM
JT-3140 – BNC male to SMA female

RSA-3476 / JT-3140

BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.

AMPHENOL
31-002
BNC Male for RG-58
31-012
BNC Male for RG-59/8X

AIM
CPAD-556M
BNC Dual Female chassis mount

AMPHENOL
31-221
BNC Female chassis mount

AMPHENOL
83-1AP – UHF right angle

JETSTREAM
JT-1110 – UHF right angle

83-1AP / JT-1110

AIM
27-8150 – BNC right angle

AMPHENOL
82-64 – Type-N right angle

82-64

AIM
26-8016 – BNC female to Type-N male

26-8016

AIM
29-4140 – SO-239 to mini-PL-259

29-4140

AIM
26-8014 – Type-N female to PL-259

26-8014

AMPHENOL
83-1J – UHF double female connector

83-1J

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

CPAD-207

AIM
26-8010 – Type-N double female connector

26-8010

AIM
29-3855 – BNC female to SMA male

29-3855

MFJ
7703 – PL-259 to BNC female right angle adapter

7703

Prices for items on this page can be found under CONNECTORS on Page 5 in the Price Guide.

Ham Radios

Radio Accessories

Antennas

Antenna Accessories

Publications

Other Radios

AV / Tools / WX

AES Information

COAXIAL ANTENNA SWITCHES

DUPLEXERS / TRIPLEXERS

ALPHA DELTA

DELTA-4B
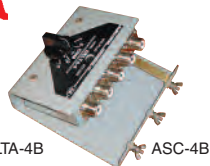
ASC-4B

Made only in the USA. A high quality design that features 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.

MFJ
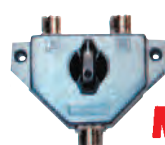
1702C / 1702CN

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 ground 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 6-wire control cable (can use 8-wire JSC or Davis RF rotator cable). Less then 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

MFJ

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 weatherproof switch box. SO-239 connectors, mounting bracket. 12V DC, 300mA power supply is required, but not included.

Check out
Comet on Page 5
Diamond on Page 7
in the Price Guide
for a selection of
Duplexers and
Triplexers which
will allow connecting a dual or triband radio's antenna connections to a common coaxial feed line and multi-band antenna.
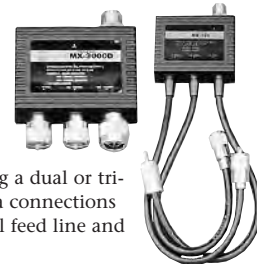
Connector Protection

COAX-SEAL
"The Original Connector Sealant"

WRAP   MOLD
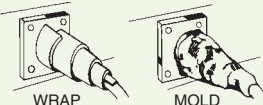
UNV 104 Hand Moldable Plastic for Antenna Component Protection – The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. 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 SILICONE TAPE
NON-ADHESIVE

Wraps tight around connections!

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.

Cross Devices **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

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AES Information

PolyPhaser® CORPORATION

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 hamshack. 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

Flange Mount
IS-50UX-C0
Range: 1.5–700 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector.
IS-50UX-C1
Range: 50–700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector.   **CLOSEOUT**
IS-50NX-C2
Range: 125–1000 MHz; Rating: (VHF) 375W, (UHF) 125W/50W (low/high); Type-N.
Bulkhead Mount
IS-B50LU-C0
Range: 1.5–700 MHz; Rating: (HF) 2KW, (VHF) 375W, (UHF) 125W; UHF connector.
IS-B50LU-C1
Range: 50–700 MHz; Rating: (VHF) 375W, (UHF) 125W; UHF connector.   **CLOSEOUT**
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.

ROTOR CONTROL PROTECTOR

J-1 clamp

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.

PHONE LINE PROTECTOR
SOLDOUT

IX-1TW Single Phone Line Protector – Audio-phone, trunk line, or data; 100A Max Surge.   **C/O**

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

CLOSE OUT!

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.   **C/O**

ALPHA DELTA COMMUNICATIONS, INC.   AA
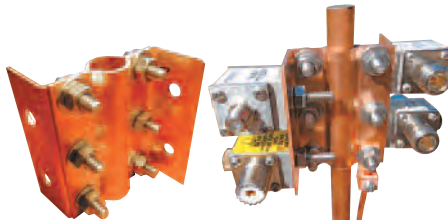
UCGC Universal Copper Ground Rod Clamp Mounts directly on a standard 5/8" copper ground rod and provides mounting of up to (4) ATT-3G50 surge protectors. Fabricated from solid copper, includes stainless steel mounting hardware with 6 bolts, washers and nuts. Adjustable copper ground wire clamp accepts 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 clamp. Suitable for both indoor and outdoor installations.
SCGBHAM6SK 2"w x 6"l, 10 holes.
SCGBHAM8SK 2"w x 8"l, 16 holes.

HARGER

GBIS18114AE

GEL3AE

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

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.
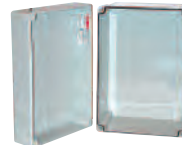
GBX976AE
NEMA 4X Waterproof Enclosure
Accepts GP1868.78AE ground panel, above.
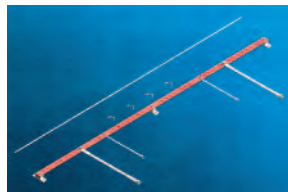
GBIS18148AE 1/8" Copper Station Ground Bar Kit – Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps 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"l x 1" dia.

CLOSE OUT!

SP-U – UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss.   **C/O**
SP-N – Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss.   **C/O**
AP – Replacement Gas-Tube Protector.   **C/O**

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.

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AES Information

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.

BENCHER

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.

MFJ

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.

VECTRONICS

HPF-1

LP-30

LP-30 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 52 to 550 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.

AMECO

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.

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.

MFJ

701 RFI Free Choke Kit – Cancel RFI radiation due to common-mode currents or signal/noise pick-up from external sources by winding an offending cable or wire around an RFI suppressing toroid. They're split into halves allow for easy winding on all types of cable: computer ribbon, coax, power cords, telephone lines, audio-video interconnects, etc. Particularly effective in eliminating audio from RF pickup by computers and other electronic devices. The halves mount in snap-together plastic frame and multiples can be stacked for increased attenuation. These are effective from 0.5 to 200 MHz... (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 DETECTION

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 observing the meter. A clearly defined null accurately pin-points the location of the offending electrical noises source. Jack for a tape recorder. Uses 9-Volt battery. Dim: 2.8"w x 4"h x 1.5"d.

805 RFI Detector – Just clamp the top mounted transformer over a suspect cable or wire (up to 1/4 in. diameter) to detect RFI causing common-mode currents. Great for checking mobile installations: ferreting out alternator hash, ignition pulses and microprocessor 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.

HELP ON FINDING INTERFERENCE
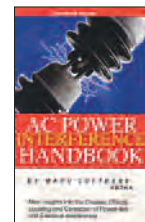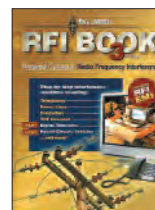
The ARRL RFI Book (3rd Ed.)
Valuable information on finding and eliminating Radio Interference to: TV, cable, satellite, DVD players, VCRs, computers, telephones, stereos and other audio equipment. Step-by-step interference solutions from: Telephones, Power Lines, Computers, VHF Intermod, Digital Television, Hybrid-Electric Vehicles... and more!
ARR 0915

AC Power Interference Handbook (3rd Ed.)
Revised, by *Marv Loftness, KB7KK*. All about Power Line and Electrical Interference with new insights into the causes, effects, locating and correcting interference. Written by a professional, for professionals, but easy to understand in terms that anyone can use to track and identify RFI sources.
ARR 1103

BongoTies

A5-01 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)

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.

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AES Information

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 QSLCARDHOLDE** (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.

MFJ

662 **Simplex Pocket Repeater** – Have your own private portable repeater within your neighborhood or when on the road. As a simplex repeater with another radio, it digitally records audio from an out-of-range HT/mobile and then re-transmits it to you, repeating a message up to 32 seconds long. LED record indicator. Uses a 9V battery, 9-15V DC or 110V AC (w/optional MFJ-1312D). Dim: 2.25"w x 3.75"h x 1"d.

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.

Ham Radio
for Arduino and PICAXE

Ham Radio
for Arduino and PICAXE

Easy to build microcontroller weekend projects—for use in the shack, in the field, and on the air!

Edited by Leigh L. Klotz, Jr. WA5ZNU

Published by ARRL 100 YEARS

Resonance   SWR
14.258 Mhz 1.7⌐1

NEW!

Easy to build microcontroller weekend projects — for use in the shack, in the field, and on the air!

Microcontroller technology has exploded in popularity among ham radio operators. The new generation of single-board microcontrollers is easier than ever to use, bringing together hardware and software for project-building most radio amateurs can easily dive into. With inexpensive microcontroller platforms—such as the popular open-source Arduino board—along with readily available parts, components and accessory boards, the possibilities are limitless.

Editor Leigh L. Klotz, Jr, WA5ZNU has assembled this first edition of **Ham Radio for Arduino and PICAXE** to help introduce you to the fun and rewards of experimenting with microcontrollers. Klotz and many other contributors have designed projects that will enhance your ham radio station and operating capabilities. Or, you can take it to the next step, using these projects as a launch pad for creating your own projects.

Projects:

- Receive-Only, Low-Power APRS iGate
- High Voltage, High Frequency, and High Temperature Data Logger
- PICAXE Keyer and CW Beacon Keyer
- Waterfall
- APRS Data Logger
- QRSS Beacon
- Multimode Transmitter Shield
- SWR Scanner
- Solar Tracker
- Nanokeyer
- Handheld Radio Talk Timer
- APRS Messenger
- DTMF Controlled SSTV Camera
- APRS Display

…and more projects using the Arduino, PICAXE, and ATtiny microcontrollers

ARRL *The national association for* **AMATEUR RADIO**®

ARR Order No. 3244

STUDY MATERIALS
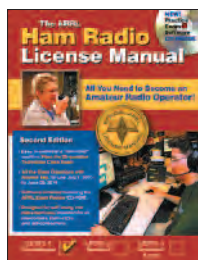
ARRL Technician Class License Manual, Revised 2nd Edition

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
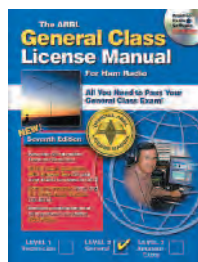
General Class License Manual, 7th Edition

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**
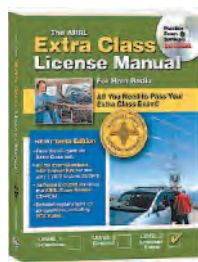
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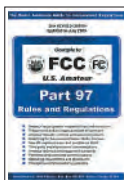
Complete FCC U.S. Amateur Part 97 Rules and Regulations

Updated as of January 1, 2012. A must have for all amateur licensees!
W5Y PT97

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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**
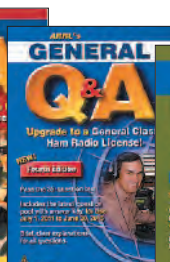
ARRL's General Q&A, 4th Edition

Upgrade to General Class. An authoritative guide to every General question in the pool. Everything needed to pass! Explanations to all possible questions on the exam .... **ARR 8089**
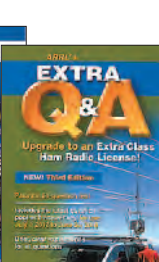
ARRL's Extra Q&A, 3rd Edition

Ungrade to Extra Class. Includes the latest question pool with answer key for the Extra class license exam. Brief clear explanations for all possible exam questions. .... **ARR 4708**

The 2013 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.

ARR 4050 ARRL Handbook (Softcover).
ARR 4197 ARRL Handbook (Hardcover).

The ARRL Operating Manual, 10th 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 5965
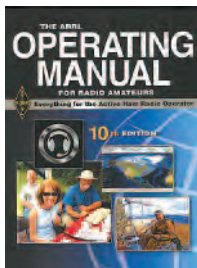
ON4UN's Low-Band DXing 5th Edition

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**
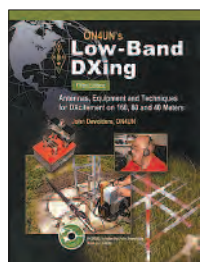
FCC Rules & Regulations for the Amateur Radio Service, 2nd Edition

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

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!
ARR 9450
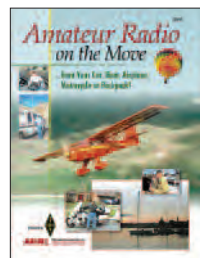
Marine Amateur Radio

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**
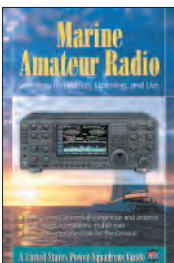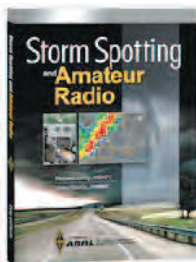
Storm Spotting and Amateur Radio

A resource for Amateur Radio operators who volunteer as trained storm spotters. Includes training, equipment, safety, activation procedures and more.
ARR 0908

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
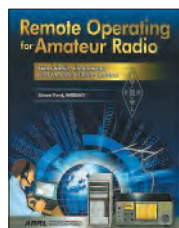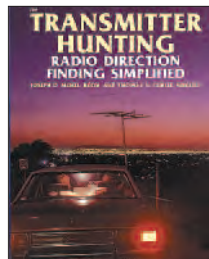
Remote Operating for Amateur Radio

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

The ARRL DXCC List April 2012 Edition

The Official DXCC source. Record the entities you've worked and sent/received QSLs. Complete listing of DXCC rules. Data about each entity on the DXCC List, deleted entities and the latest additions. Prefix cross-reference and list of international callsign series. Award descriptions and information about obtaining numerous DXCC items are also featured .... **ARR 3862**

Hints & Kinks for the Radio Amateur

18th edition. QST's monthly Hints & Kinks column is one of the most popular sections. If you're in the mood for an evening or weekend project or looking for a solution to a problem, chances are here's where you'll find it. A collection of the best projects and problem solving tips spanning 8 years from 2004 – 2011. **ARR 5200**
ARR 9361 – 17th edition; 2003-2004.
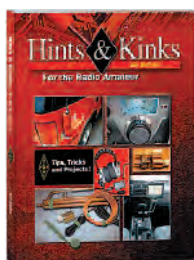
Radios to Go!

Today's handhelds are packed with a lot of features and sometimes the user manuals don't tell the whole story. If you own one, or if you're trying to decide which one to buy, this is the essential guide to get the full benefit from your investment. Includes: Care & Feeding of Batteries; Memories; Scanning; CTCSS, DTMF & DCS; IRLP & EchoLink; Antennas; Microphones and Headsets; Software Management; APRS and Satellites................. **ARR 3077**
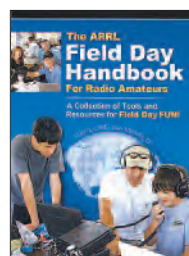
The ARRL Field Day Handbook for Radio Amateurs

The ultimate guide for Field Day Enthusiasts. Features content from QST Magazine and other ARRL publications. Everything you need to know: rules, log sheets, band charts and antenna projects **ARR 0885**

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
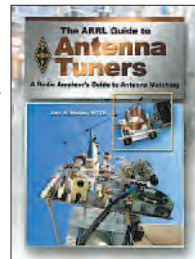
GPS and Amateur Radio

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

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**

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**

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! A step-by-step guide started in the 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. Also learn about other digital communication modes like MFSK, Olivia and PACTOR...... **ARR 6016**

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**

Ham Radio for Arduino and PICAXE
Microcontroller technology has exploded in popularity among ham radio operators. The new generation of single-board microcontrollers is easier than ever to use, bringing together hardware and software for project-building most radio amateurs can easily dive into. With inexpensive microcontroller platforms - such as the popular open-source Arduino board - along with readily available parts, components and accessory boards, the possibilities are limitless.. **ARR 3244**

INTERNET LINKING
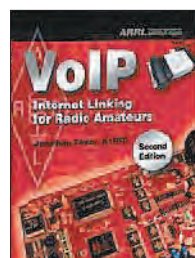
VoIP: Internet Linking for Radio Amateurs
2nd Edition. A guide to several of the most widely-used VoIP systems used by hams; EchoLink and the Internet Radio Linking Project (IRLP). How to get started, set-up, and use these systems. Plenty of technical information if you want to dig deeper into VoIP applications 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**
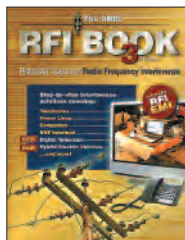
ARRL AC Power Interference Handbook (3rd Edition)
Revised, by Marv Loftness, KB7KK. New insights into the causes, effects, locating and correction of annoying power-line and other electrical interference. 18 chapters. **ARR 1103**

PUBLIC SERVICE & EMERGENCY POWER
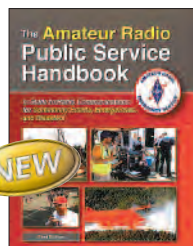
The Amateur Radio Public Service Handbook
A guide to Radio Communications for community events, emergencies and disasters. For all hams who volunteer their time and skill to serve their communities. It provides knowledge needed for communicating quickly and effectively during disasters, emergencies and community events, as well as an opportunity for learning more about the Amateur Radio Service and its unique role in supporting the public .... **ARR 4845**

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**
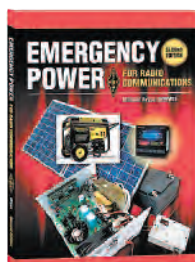
QRP OPERATION
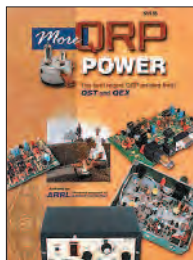
More QRP Power
QRP means operating with 5 Watts or less. Articles from recent issues of QST and QEX magazines, covering construction practices, transceivers, accessories and antennas. Dozens of projects and articles to help with assembly or improve a QRP station for home or travel. **ARR 9655**

Low Power Communications 4th Ed.
A guide to low power QRP operations. Tips to Get Started the Right Way, Equipment and Accessories, Antennas, Operating, Awards, Contesting, Emergency Comm., HF propagation, QRP calling frequencies and Equipment manufacturers. **ARR 5828**
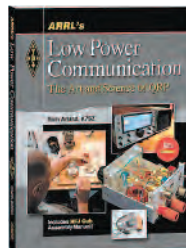
QRP Romps
by Dave Ingram, W4TWJ Work the world with low power (QRP). It includes everything you need to know from gearing up, to building kits, homebrewing rigs and antennas. Secrets to QRP success. The clubs. The contests. The fun! **ING QRPROMPS**
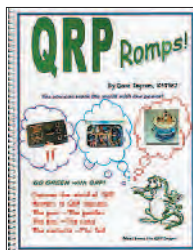
HEALTH / SAFETY

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**
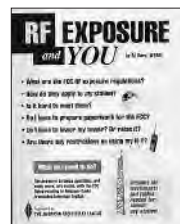
MORSE CODE / KEYS

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**
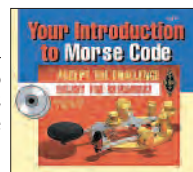
World of Keys
By the late **Dave Ingram, K4TWJ** – A dazzling collection of the world's prized and exotic keys, new and old: spark, camelbacks, dual polarity, pump, fun keys, rare Vibroplex bugs, motorized, rotary and vertical bugs, triple lever bugs, miniatures and modern keys. Lots of pictures, descriptions and history...... **ING WORLDOFKEYS**

Keys II: The Emporium
More from **Dave Ingram, K4TWJ** – 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**

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**

REPEATER DIRECTORIES

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**
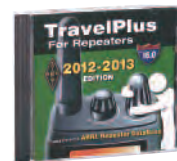
ANTENNAS
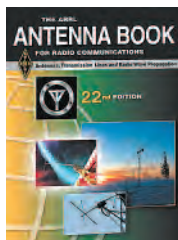
ARRL Antenna Book
22nd Ed. – Design your own antenna system. THE source of antenna theory and practical construction projects. Use this book to discover even the most basic antenna designs (wire and loop antennas, verticals and Yagis) and advanced antenna theory and applications. Includes CD-ROM.
SOFTCOVER **ARR 6948**
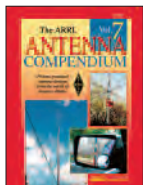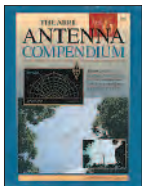
Antenna Compendium 1
Articles on a multiband portable, quads and loops, baluns, Smith Chart & more . **ARR 0194**

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**
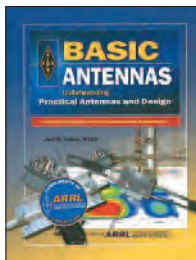
Basic Antennas
Basic concepts, practical designs and details of easy-to-build antennas. Includes: Dipoles, Transmission Lines, Two Element Arrays, Wideband, Multibanders, Loops, Reflector Antennas, HF and VHF, Microwave, Vehicles, Measurements & More .. **ARR 9994**
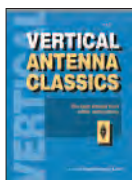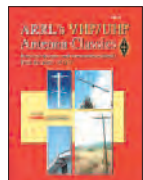
VHF/UHF Antenna Classics
Ground planes, J-poles, mobiles and Yagis. Build a better antenna for an HT. Construct a 2 meter Yagi that rivals commercials. Includes projects from the 1980 to 2003 issues of QST .... **ARR 9078**

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**
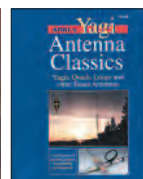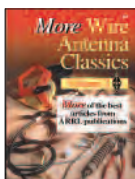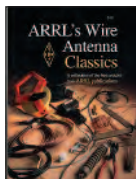
Wire Antenna Classics
Wire antennas ranging from simple to complex. Find one to deliver the performance you want. Dipoles, broadband and multi-band dipoles, loops, collinears, rhombics, wire beams, vertically polarized and receive antennas are all featured, even tree-mounted antennas........... **ARR 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**
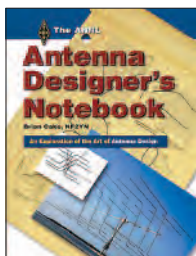
Antenna Designer's Notebook
Provides a thorough description of new components of antennas: the FZ element, the C-pole and practical antennas made from them. Explore the details of an improved tunable HF loop, theoretical analysis of linear loading and ground losses, and practical designs for beams and omni-directional antennas. Includes CD-ROM with EZNEC models for all antennas in the book and info on Boxkite Yagis ...... **ARR 1479**

The Care and Feeding of Transmission Lines
A guide to understanding transmission lines. Includes an introduction to the various types of transmission lines, key parameters of coaxial cable and balanced line types, as well as the different types of connectors. How to select the most appropriate transmission line for an application and how to install it, as well as how to extend its useful life................ **ARR 4784**

Small Antennas for Small Spaces
Short on space space to erect a regular antenna? Live in an apartment, condo, or house on a small lot? Here's practical advice guiding you to finding the right antenna to fit whatever space you have available. Important tips about feed lines, SWR, RF amplifiers, operating modes and RF safety. Projects for VHF and HF antennas you can use inside your home. Outdoor HF antennas: 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**
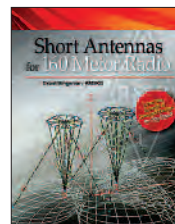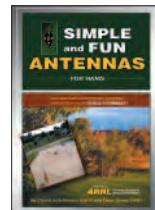
Short Antennas for 160 Meter Radio
Antennas for 160 meters can be large and difficult to install due to lack of available space. Here is discussion and theory behind innovative designs for relatively compact antennas. Learn how to enhance bandwidth, minimize loss, and employ other solid techniques to enjoy 160 meters within limited space. .... **ARR 5798**

W6SAI HF Antenna Handbook
Lots of inexpensive, practical projects that work. Great guide for constructing loops, yagis and vertical antennas.
CQX W6SAIHFANT
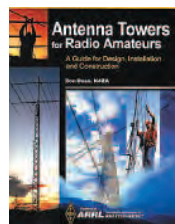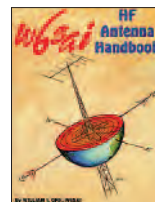
Antenna Towers for Radio Amateurs
Good information for planning, installing and maintaining a ham radio tower. Skills, tools, climbing techniques and safety measures. Tower, selection, the base, pouring concrete and installing the tower, antenna and accessories. Tips for working with rope and pulleys, guy wires and hardware. Removing existing towers. ..... **ARR 0946**

Up The Tower - Complete Guide
Written by Steve Morris, K7LXC, a highly experienced professional with over 225 tower installs. He shares his experiences and techniques in detail. Includes abundant information on all tower topics in 35 chapters!
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Antennas
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AV / Tools / WX
AES Information

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Antenna Accessories

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MAPS / GRID LOCATOR / 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**

8804 Robinson
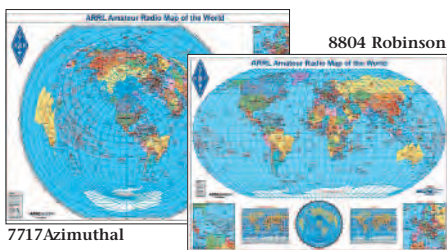
7717 Azimuthal

ARRL World Maps
Each colorful map features current geographic detail and world-wide call sign prefixes. **A**zimuthal **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** (
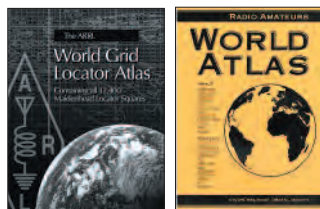
The ARRL World Grid Locator Atlas
Information on the locator system and maps showing all 32,400 grids. .... **ARR 2944**

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**

BASIC ELECTRONICS

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
Radio – what it does, and how it does it. The building blocks of receivers, transmitters, antennas and build-it-yourself projects turn theory into practice and help reinforce important subjects. ..... **ARR 9558**

HISTORY / ARCHIVES • CLOSEOUTS

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 6109 (1996) • **6729** (1997) • **7377** (1998)
7881 (1999) • **8209** (2000) • **8632** (2001)
8802 (2002) • **9124** (2003) • **9396** (2004)
9574 (2005) • **1204** (2007) • **9406** (2008)
1486 (2009) • **2001** (2010) • **5651** (2011)

QST Views • CLOSEOUTS
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; 5 years per CD.

5781 (1970-74) • **5773** (1975-79)
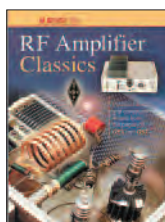
RF Amplifier Classics
Amplifiers for the HF, MF, VHF and Microwave bands. Practical designs and construction details for both classic tube and solid-state amplifiers from 5 Watts to legal limit... **ARR 9310**

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

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 and Long Wire Antennas.
3303 73 Vertical, Beam and Triangle Antennas.
3305 Antennas and Transmission Lines.
3400 Morse Code: Breaking the Barrier.
3502 Solid State QRP Projects.
3506 Ferromagnetic Core Design & Applications.
3507 Practical RF Design Manual.
3509 Ladder Crystal Filters.
36 Shortwave Listener's Guide.
37 Ham Radio Communications Circuit Files.
38 Easy-Up Antennas.

SOFTWARE DEFINED RADIO
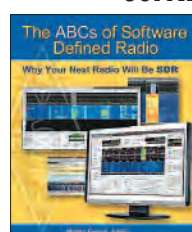
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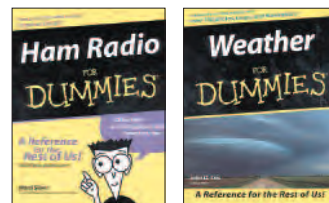
Ham Radio for Dummies – Explains Ham Radio; what is needed to get started, and how to become licensed. **Chapters:** *What is Ham Radio All About?, Wading through the Licensing Process, Hamming it Up, Building & Operating a Station That Works and Secrets & Tips* .... **WIE HRFORDUMMIES**

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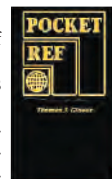
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Cobra CB RADIOS

Night View | **Day View**

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.

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.

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.

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.

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 Canceling 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.

---

uniden CB RADIOS

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. $44.99

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. $59.99

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 mic. 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 and alert. $89.99

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 2.4"h x 8.6"d; 4 lbs. $94.99

PC-78LTW
– Same basic features as the PC78XL but with NOAA weather and alert. $99.99

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. $119.99

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. $99.99

SSB/AM CB RADIO

NEW

BC-980SSB AM/SSB 40-Channel CB with 7-Color Options Backlit Display
– Output Power: 4 watts AM and 12 watts PEP SSB USB/LSB. Combines a CB radio with a NOAA Weather radio and Weather Alert system. Choose between 7 different colors (blue, red, magenta, green, cyan, yellow and white) for the backlit display. Here are just some of the features: Variable Talkback; Radio Diagnostics; Wireless Mic Compatible; Large Digital S/RF / SWR Meter; Frequency Display; Dynamic Squelch Control; ANL / Noise Blanking; Memory Scan; Clarifier; Volume / Squelch Control; RF Gain Control; CB / PA Switch; Mic Gain 4-Position Control; Comes with noise cancelling microphone. Dim: 7.25"w x 2.25"h x 7.5"d; 2.2 lbs. ... $169.99

Check out our CB Antenna selection on the next page

CB ANTENNAS

COBRA
HGA-1000 – Base loaded magnet mount mobile antenna with coax and connector.

HUSTLER
FG-27S – 48 in. center loaded whip with 3/8 x 24 thread mount connector.

HQD – Dual 55 in. top loaded whips with mirror mount brackets. Comes with 12 ft. cable with PL-259 connector and co-phase harness. Chrome with white coils.

HQT – 55 in. top loaded whip with mirror mount bracket. Comes with 12 ft. cable with PL-259 connector. Chrome w/white coil.

HQ-27 – 55 in. top loaded whip with 3/8 x 24 thread. Chrome with a white coil.

HQ-27M – 55 in. top loaded whip with Trunk-lip Mount. Comes with 15 ft. cable and PL-259 connector. Chrome with a white coil.

RQM – 43 in. base loaded whip with magnet mount. Comes with 15 ft. cable and PL-259 connector. All black whip and mount.

RTM – 25 in. center loaded whip with magnet mount. Comes with 15 ft. cable and PL-259 connector. Chrome with white coil.

RTS-27L – 25 in. center loaded whip with 3/4 in. hole roof mount. Comes with 15 ft. cable and PL-259 connector. Chrome w/white coil.

HUSTLER - continued
SCB/BLK – Heavy duty 46 in. overall, 22 in. lower shaft to elevate coil for better radiation pattern. Center loaded whip with 3/8 x 24 thread mount connector. Chrome w/black coil.

SCB-S/BLK – Heavy duty 35 in. overall, 9 in. lower shaft to elevate coil for better radiation pattern. Center loaded whip with 3/8 x 24 thread mount connector. Includes weather band reception. Chrome with black coil.

1C-100 – 41 in. base loaded white magnet mount antenna includes 15 feet of coax with PL-259 connector. (**1C-100B** black mount).

1C-11 – 42 in. base loaded white trunk lip mount antenna includes 16 feet of coax with PL-259 connector. (**1C-11B** black mount).

FG-27S   HQT   RTS-27L   RTM   SCB/BLK   1C-11B

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.

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.
  GPK-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.

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 a 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

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See page 119 for details

BASE CAMP RADIO

XT-511 Two-Way Radio with Emergency Crank Power and NOAA Weather Alert
FEATURES: 22 Channel GMRS Two-Way Radio: Communicate with other two-way FRS/GMRS radios. 121 Privacy Codes: Helps block other GMRS conversations. VOX: Allows for hands-free use of the GMRS radio's PTT. Channel Scan: Automatically checks channels for activity. Autosquelch: Removes annoying background noise. HI/LO Power Settings: Adjust the transmit power to conserve battery life. Large LCD With Backlighting: Easy to read day or night. Flashlight: Offers light during a power outage. AM/FM Radio: Listen to music or news bulletin updates during an emergency. Clock With Alarm: 12 hour clock display with alarm and snooze. 4 Types Of Power: Dynamo Crank, rechargeable batteries (included), AC and DC adapters. NOAA All Hazards Alert Weather Radio With Alert Override: Provides constant all hazards alert information 24/7. Radio automatically switches to weather alert broadcast if received while listening to AM/FM radio. Water Resistant: Protects the radio from light water damage. Package includes Radio, AC adapter, hand mic, shoulder strap, rechargeable batteries and owner's manual.
Dim: 6.5"h x 7.5"w x 2.75"d; 1.2 lbs.

DISCONE ANTENNAS

D-130J Base Discone – Covers 25 to 1300 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.

D-3000N

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uniden SCANNERS

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. Up to 15 hours of continuous receive with the supplied two rechargeable AA Ni-MH cells. This radio also comes with a wrist strap, belt clip, SMA antenna, and battery charger. 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. **CLOSEOUT**

Available Accessories:
AD92SMA SMA to BNC adapter, **BP244** 3.7V 1100mAh lithion battery, **BP262** "AA" battery case, **CP18A** Cigarette lighter cable, **CSRX7** 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 C/O**

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, **FL52A** 500 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 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, **SP34** Speaker with filters, **UT122** P25 receive unit

AR
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.

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 & AC power supply. .... **CLOSEOUT**

CLOSE OUT!

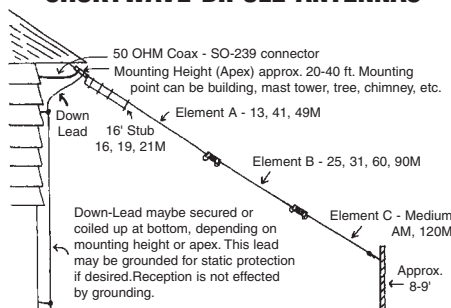### Monitoring Times Magazine
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GRV MONITORTIMES

ALPHA DELTA COMMUNICATIONS, INC.

SHORTWAVE DIPOLE ANTENNAS

50 OHM Coax - SO-239 connector
Mounting Height (Apex) approx. 20-40 ft. Mounting point can be building, mast tower, tree, chimney, etc.
Down Lead
Element A - 13, 41, 49M
16' Stub 16, 19, 21M
Element B - 25, 31, 60, 90M
Down-Lead maybe secured or coiled up at bottom, depending on mounting height or apex. This lead may be grounded for static protection if desired. Reception is not effected by grounding.
Element C - Medium AM, 120M
Approx. 8-9'

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 provides receive coverage 500 kHz to 30 MHz. The Delta-C Center insulator with built in SEP Arc-Plug should be elevated ~20 ft. high.

ICOM
AH-8000
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
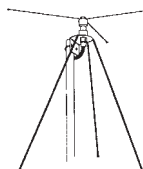
HUSTLER DCX **Base Discone Antenna** – Covers 40-950 MHz; Vertically polarized; mounts on a 1.25" OD mast or flat surface; 55" cone elements and 20" disc elements; SO-239 connector.
HUSTLER DCLB – Same with 50 ft. of RG58/U with PL-259 on one end and BNC on other.

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.

W5YI BOOKS

USING YOUR METER

Using Your Meter
Teach yourself the correct use of your multitester. 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**

ENJOY WORLDWIDE LISTENING FUN!

John Figliozzi'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. **W5Y WWLG**

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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 80 Hz 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 40 Hz 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 MFJ-1312D 120V AC 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**

CLOSE OUT!

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   1020C

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

G2 Reporter – A portable travel radio that features multiple language selection and AM, FM, FM Stereo and continuous shortwave reception from 2.3 to 23 MHz. Five tuning methods: Jog Tuning, Manual, Auto Tuning, Memory and ATS (Auto Tuning Storage). Dual stereo speakers with digital volume control; Signal strength indicator; Sleep timer and alarm clock functions; Backlit LCD with adjustable contrast. A built in MP3/WAV recording system lets you save verbal notes via the built-in or an external microphone; or record content directly off the air. Built-in 4GB flash Memory, and micro-SD card reader supports up to 16GB for MP3 and WMA decode and recording plus, E-Book TXT support. Jacks for 3.5mm headphone output, line-in, MIC, MINI-USB 2.0 (high speed). Rechargeable 1250mAh lithium battery charges through USB port. Dim: 7.5"w x 5.5"h x 0.8"d; 9.6 oz.

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! It 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. .. **C/O**

CLOSE OUT!

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.

C.CRANE AM/FM/SHORTWAVE & INTERNET RADIOS

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.

GRUNDIG

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 (1711-30,000 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.

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.

CLOSE OUT!

CWF WiFi 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.   **C/O**

AES Information

110

Grundig Shortwave AM/FM Radios
C. Crane Shortwave AM/FM & Internet Radios

AES

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AV / Tools / WX

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 6V DC 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 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

CLOSE OUT!

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. **C/O**

TATCBK-MIC – Same Earbuds with Mic. and simple push to answer/mute button for Smartphones, voice recorders, etc…**C/O**

INTERNET RADIOS

CLOSE OUT!

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®. 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 5 inch full-range stereo speakers. Rear 3.5mm jacks for auxiliary input (iPod, MP3 player, etc), earphone output jack, line output jack and RJ-45 Ethernet. Note: Does not tune AM/FM/SW. Dim: 11.5"w x 4.5"h x 9.5"d. **C/O**

WFR-28 **WI-FI Internet/FM/Network Player & USB Portable Radio** – Fully portable, listen to 13,000+ radio stations from NPR, FOX news, CNN, BBC, CBS, KROQ and over 35,000 podcasts as well as 87.5-108 (RDS) FM Band. Includes Frontier Silicon's IR 2.2 network audio software, the most complete, versatile and easy-to-use software available for the next generation of Internet radios. Great sound, adjustable bass and treble controls. The built-in clock with dual wake up alarms (Internet radio or buzzer). Also can play music stored on your computer. DLNA, UPnP & Windows 7 certification enhances music sharing and playing, plus supports iPhone and iPod touch remote control (using iSangean App). Requires a broadband wireless Internet connection (except for the FM bands). Listen directly from your wireless router without a computer. Uses 120-240V AC or (4) rechargeable "D" batteries; built-in rapid charger. Dim: 9"w x 5.3"h x 2.3"d; 1.9lbs.

SHORTWAVE ANTENNA

ANT-60 – Portable, wind-up, shortwave antenna for use with most shortwave receivers.

LISTENING GUIDE

Nifty! Ham Accessories

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.

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WEATHER STATIONS

Remote

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: COMF, 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 5.7"h x 2.9"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: 1.27w" x 3.4h" x 0.55d".

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 is 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-3128U

WS-8117U-IT-OAK Digital Atomic Wall Clock
Shows 12/24-hour time, a perpetual calender, 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-3128U Analog/Digital Atomic Clock – 12 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.
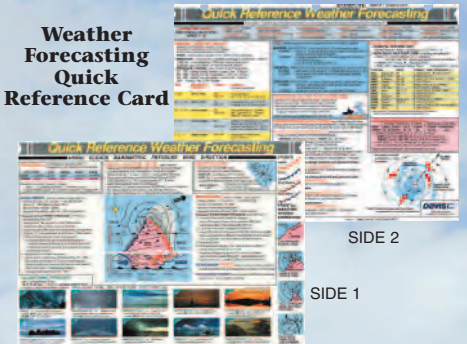
WT-5220U-IT-CBP
Projection Alarm Clock with IN/OUT Temp. – The large backlit LCD displays 12/24 hour time, indoor temp. and humidity, plus wireless outdoor temp. and perpetual calendar. It alternately projects time and outdoor temperature on the ceiling or wall. Atomic time and date. Alarm and snooze. 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

SIDE 2

SIDE 1

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

HH-50

WR-120

WR-300

HH-50 Pocket Weather Alert Radio – Broadcasts all hazard alerts brought to you by NOAA for around-the-clock severe weather information. Automatic alert system turns on in event of dangerous weather or civil emergencies. Water resistant, with a 6-inch telescoping antenna. Runs on 3 AAA batteries.

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.

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TV ANTENNAS

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HD-7084P

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. Weatherproof F-connectors are installed on each end.
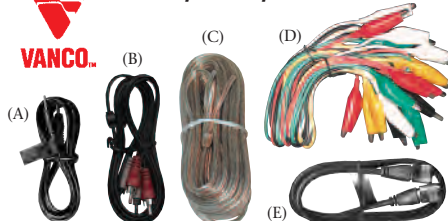
CX-0625 – 25 ft. length.
CX-0650 – 50 ft. length.
CX-6100 – 100 ft. length.

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. **CLOSEOUT**

AUDIO/VIDEO/COAX CABLES

VANCO™

(A) (B) (C) (D) (E)

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

Rear View

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 VHF/UHF HDTV Antenna Utilizes long periodic-tuned elements and dipoles for receiving both VHF and UHF 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.
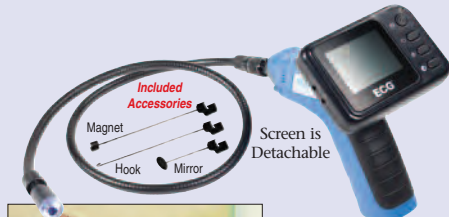
POWER PLUGS/ADAPTERS

VANCO™

P-212B
P-212
P-12R

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. **CLOSEOUT**

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Wireless INSPECTION CAMERA
with Removable COLOR LCD Monitor

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Magnet
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Screen is Detachable
Find the problem Faster – Easier!

Video inspect hard to reach places in the Home, Vehicles, etc.

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

Velleman® Inc.
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!

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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 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. **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. Dim: 6 x 4 x 2 in. .... **CLOSEOUT**

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

VT-M468L

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

Velleman® Inc.

K/TF   VT-LAMP2BNU

TLM-10

K/TF 75 Piece Cable-Tie Pack – Contains 25 each of 3.9 in, 4.7 in. and 7.9 in. long zip ties.

TLM-10 Test Probe Set – (4) Crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks.

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 overload 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" 482ºF melting point, 0.55 lb. roll.

KES 8330000000 "Kwik-Draw" Rosin Core Solder Wire – 60% tin, 40% lead, Dia. 0.05" 361-374ºF melting point, 1.3 oz. roll.

Weller® SOLDERING TOOLS

SP-23LK

W-60P / WP-25

WSTA3

SP-23LK 25W Soldering Iron Kit – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750º 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 850ºF. 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 700ºF 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 ISO-TIP

7740 Cordless Soldering Iron Kit – Provides performance equivalent to 25W A/C unit and reaches 900°F in ten seconds. Contains a premium NiCad rechargeable battery with high-rate charging capability. Up to 125 solder joints per charge. Completely recharges 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, 410ºF to 750ºF 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, 410ºF to 850ºF 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

WT-3128U – 12" **Analog Atomic Wall Clock with Digital Clock, Atomic Set Date and Indoor Temperature** – The radio controlled analog clock provides a bold, accurate display of time, perfect for any home or office. Time is automatically adjusted to the National Atomic Clock service anywhere in the USA with daylight savings adjustments (enabled or disabled). You can set the LCD time to whatever time you like in the world. Set the hour to whatever you want and the minutes and seconds are atomic. Requires (2) AA batteries.

MORE CLOCKS BY LA CROSSE TECHNOLOGY ON PAGE 113

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.

107B
108B

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.

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.

CLOSE OUT!

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.   **C/O**

CLOSE OUT!

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 calender and flip stand. Uses (1) "AAA" battery. Dim: 5.25"w x 2.5"h x 0.5"d. **C/O**

---

velleman Inc. ELECTRONIC LAB KITS

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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).
830K SSB Audio Filter Kit (S).

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LINE 1 — Shipping Charges We can ship at a *flat-rate* shown below and on next page, except to APO/FPO made via Priority Mail.

Ground Flat-Rate Shipping (48 States):

For orders up to $99.99 shipping is $9.99; Orders $100.00 and more shipping is FREE

For Faster Service select one of the following: (These methods are not flat-rated so allow for increased shipping charges - no flat-rate credit.)
❏ **UPS Next Day Air** ❏ **UPS 2nd Day Air** ❏ **UPS 3-Day Select** ❏ **Fedex Next Day Air** ❏ **Fedex 2nd Day Air** ❏ **Express Mail** ❏ **Priority Mail**

+ *Shipping Charges are taxable in WI, FL, NV & OH*

LINE 2 — State Sales Tax: ❏ WI- 5.6%, ❏ FL- 6.5%, ❏ NV- 8.1%, ❏ OH- 6.75%

Additional county & local sales tax may apply.

+

LINE 3 — Credits: AES Refund Checks, Gift Certificates or Manufacturer's Coupons (if any)   **DO NOT DEDUCT MAIL-IN REBATES**

-

CREDIT CARD INFORMATION

We also accept Government Credit Cards

Account Number

Cardholder's Name   CARD EXPIRES

Cardholder's Signature   Date

LINE 4 — Balance	**$**
LINE 5 — Due AES from previous order (if any)	**+**

TOTAL AMOUNT DUE

Choose payment method from below: **(Fill in information at right, if applicable)**
❏ Bank transfer   ❏ Certified check   ❏ Personal check   ❏ Money order
❏ Credit card (VISA, MasterCard, Discover, American Express, IMPAC)
❏ COD $11.00 fee per package. *Money Order or Certified Check Only.*
MINIMUM $50.00 COD ORDER – UPS GROUND SERVICE ONLY ON COD's

$

AMOUNT ENCLOSED	**-**
BALANCE DUE (IF ANY)	**$**

NOTES:

Cash Refunds: Amounts under $5.00 will not be refunded unless requested in writing to Milwaukee headquarters.

Call 1-800-558-0411 for Bank Transfer Information

Cut along dotted line or make Photocopy

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 NOTI-FIED 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 salesperson; 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

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 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.

GREEN POLICY

We reuse clean and durable shipping material whenever possible. Some of these materials may contain logos and descriptions from 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 well established United States companies, 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 some products to EU member countries and members of the European Economic Area (EEA).

FLAT RATE GROUND SHIPPING
in the contiguous 48 States

AMOUNT OF ORDER	SHIPPING CHARGES
Up to $99.99	**$9.99**
$100.00 & UP	**FREE!**

Flat Rate Does Not Apply To Drop Shipments or Ground Shipments to Alaska or Hawaii

Flat Rate Advantage – No Penalty for Number of Cartons or Weight!

Price Guide
Ham Radios
Radio Accessories
Antennas
Antenna Accessories
Publications
Other Radios
AV / Tools / WX
AES Information

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 Rd. #2
Cheyenne, WY 82007
307-222-4712 • fax: 208-441-3465
info@arrowantennas.com

ASTRON CORPORATION
9 Autry
Irvine, CA 92618
949-458-7277 • fax: 949-458-0826
astroncorporation@yahoo.com

BENCHER / BUTTERNUT
241 E. Depot St.
Antioch, IL 60002
847-838-3195 • fax: 847-838-3479
bencher@bencher.com

BETTER RF COMPANY
44 Crestview Ln.
Edgewood, NM 87015
505-286-3333 • fax 505-281-2820
w6ter@att.net

BILAL COMPANY (ISOTRON ANTENNAS)
137 Manchester Dr.
Florissant, CO 80816
719-687-0650 phone/fax
www.isotronantennas.com
WDØEJA@isotronantennas.com

BUCKMASTER
6196 Jefferson Hwy.
Mineral, VA 23117
540-894-5777 • fax: 540-894-9141
www.buck.com
info@buck.com

CABLE X–PERTS
5801 W. Hill St.
McHenry, IL 60050
800-828-3340 • fax: 815-759-2353
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.

DAVIS INSTRUMENTS
3465 Diablo Ave.
Hayward, CA 94545
510-732-9229 • fax: 510-732-9188
support@davisnet.com

DIAMOND ANTENNA/RF PARTS
435 S. Pacific St.
San Marcos, CA 92078
770-614-7453 • fax: 770-614-7480
diamondantenna@rfparts.com

GAP ANTENNA PRODUCTS
99 N. 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
301 Ziegler Dr.
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 Rd.
Mineral Wells, TX 76067
940-325-1386 • fax: 940-325-5077
service@new-tronics.com

ICOM AMERICA
2380 116th Ave. N.E.
Bellevue, WA 98004
425-454-8155 • fax: 800-858-0684
Tech Support: 800-253-1498
amateur@icomamerica.com

ICOM SERVICE CENTER
1792 Nash Dr.
St. Joseph, MI 49085
269-429-2334

INTERNET LABS (DV DONGLE)
PO Box 7697
Atlanta, GA 30357
www.dvdongle.com

JSC WIRE & CABLE
35 Industrial Dr.
PO Box 248
East Longmeadow, MA 01028
413-525-2292 • fax: 413-526-9688
www.jscwire.com

KANTRONICS
14830 W 117th St.
Olathe, KS 66062
913-825-0680 • fax: 913-322-9234
service@kantronics.com

KENWOOD COMMUNICATIONS
P.O. Box 22745
Long Beach, CA 90801-5745
310-639-5300 • fax: 310-537-8235
kcc-amateur@kenwoodusa.com
www.kenwood.net

KENWOOD SERVICE CENTER–WEST
FTH Group Inc. dba KASC-Pacific
16685 E. Johnson Dr.
City of Industry, CA 91745
626-333-2435 • fax: 626-333-2407

KENWOOD SERVICE CENTER–EAST
Audio Video Service Lab Inc. dba KASC-East
829 Lynnhaven Parkway Suite 130
Virginia Beach, VA 23452
757-340-1702 • fax: 757-340-6809

LA CROSSE TECHNOLOGY
2809 Losey Blvd. S.
La Crosse, WI 54601
608-782-1982 • fax: 608-796-1020
support@lacrossetechnology.com

LAIRD TECHNOLOGIES
1751 Wilkening Ct.
Schaumburg, IL 60173
847-839-6000 • fax: 847-843-0425
www.lairdtech.com

LARSEN ANTENNAS / PULSE
3611 NE 112th Ave.
Vancouver, WA 98682
360-944-7551 • fax: 360-944-7556
pulseelectronics.com/products/antennas

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
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
937-773-6255 • fax: 937-773-8003
info@palstar.com

POWERWERX
263 N. Berry St.
Brea, CA 92821
714-674-0073 • fax: 866-322-2642
www.powerwerx.com

RT SYSTEMS, INC.
510 Compton St. Suite 105
Broomfield, CO 80020
404-806-9561 • fax: 770-216-1836
techsupport@rtsystemsinc.com

RADIOWAVZ
735 Lakeside Plz.
Lake Saint Louis, MO 63367
636-442-1320 • fax: 866-201-0593
www.radiowavz.com

SAMLEX AMERICA
Call for mailing address
604-525-3836 • fax: 888-814-5210
tech@samlexamerica.com

SANGEAN AMERICA
9900 Jordan Cir.
Santa Fe Springs, CA 90670
562-9419900 • fax: 562-941-9909
info@sangean.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 • tigertonics.com

TARHEEL ANTENNAS, INC.
18511 CR 304
St. Joseph, MO 64505
Tech Support: 919-522-8788
tarheelantennas@aol.com

TIMES MICROWAVE SYSTEMS
358 Hall Ave.
Wallingford, CT 06492
203-949-8400 • 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 Amon 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 200065
Arlington, TX 76006
817-274-0400 • fax: 817-548-9594
sales@w5yi.org

WEST MOUNTAIN RADIO
1020 Spring City Dr.
Waukesha, WI 53186
262-522-6503 • fax: 262-522-6504
www.westmountainradio.com

WOUXUN See – Powerwerx

YAESU
6125 Phyllis Dr.
Cypress, CA 90630
714-827-7600 • fax: 800-552-6813
customerservice@yaesu.com

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