DX ENGINEERING®

Amateur Radio Products Autumn/Winter 2013

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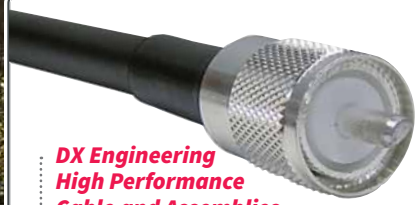

DX Engineering High Performance Cable and Assemblies ..... Page 103

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RigExpert®

Antenna Analyzers ..... Pages 61,78

TBX Tower

Packaged Tower Kits ..... Page 61

Get Your Order in by 10 pm ET & It SHIPS TODAY!

Monday-Friday, In-Stock Items, Details Inside

DXENGINEERING.COM

800-777-0703

Calling CQ DX!

When DX Engineering opened, our goal was to provide serious amateur radio operators with no-compromise antenna solutions. While that is still true, we have expanded our product offering to many other areas of our hobby. Inside this newly expanded catalog you will find thousands of great products. You can rest easy knowing that each product was vetted and chosen for a specific reason: to improve your on-air experience. From radios and microphones to antennas and cable, all the gear on these pages will help you become a more efficient operator.

You want your order fast. DX Engineering ships faster than anybody. Which means, as long as your order is in by 10 pm ET Monday through Friday and it's in stock, it will be heading your way within hours. Our DX Engineering Customer Service Team is available to help you with your order or answer questions 8:30 am to 4:30 pm ET, Monday through Friday.

If you're ordering from outside the USA, we've made shipping even easier. Industry-leading tools like our international shipping calculator and an expanded FAQ section help answer any logistical questions you may have. Simply order online (anytime, 24/7), and you can get a total shipping cost before you check out. No confusing estimates, no weird disclaimers—just simple, straightforward international shipping rates.

Thanks for reading through our catalog. We value your time and want to ensure that you're happy with us, and our products. If you have any feedback on how we can better serve you, don't hesitate to let us know: President@DXEngineering.com

I am proud to have recently joined the team here at DX Engineering. I hope you will give us the opportunity to show you we are serious about delivering a great customer experience.

73,
Tim K3LR

Tim Duffy K3LR
Chief Marketing Officer and General Manager

BBB ACCREDITED BUSINESS

On Our Cover: The main 10 meter array at multi multi contest station K3LR, featuring four 8-element custom-designed Optimized Wideband Array (OWA) Yagis in a stacked array, at 135, 100, 66, and 33 feet. They're mounted on a 135 foot PiRod tower and each antenna can be rotated independently. All antenna hardware (aluminum tubing, coax, element clamps, etc.) is from DX Engineering.

John 15:12-15 - *"This is my commandment, that you love one another as I have loved you. Greater love has no one than this, that someone lay down his life for his friends. You are my friends if you do what I command you. No longer do I call you servants, for the servant does not know what his master is doing; but I have called you friends, for all that I have heard from my Father I have made known to you."*

DX ENGINEERING®
Ultra-Crimp

New! A Complete Crimping Solution.
For Coaxial Cable and Powerpole® Connectors.

Ultra-Grip Crimp Connector Tool Kit

Made precisely for coaxial and Powerpole® connectors, this kit is filled with the exact prep tools and dies you'll need to make full-ferrule connections. The kit comes with:

- DXE-UT-CRIMP Ultra-Grip Crimp Tool
- DXE-UT-DIE-8U Crimp Die for RG-8U/LMR-400 size cable
- DXE-UT-DIE-8X Crimp Die for RG-8X/LMR-240 size cable
- DXE-UT-DIE-PP Crimp Die for Powerpole® 15, 30, 45A connectors
- CNL-911 Coaxial cable shears
- DXE-170M Precision braid trimmers
- 2.5mm Allen wrench
- DXE-CRIMP-CASE Custom Crimp Tool Case

The Ultra-Crimp Tool, interchangeable dies and specialized carrying case are also available separately. Check out page 99 in the Tools, Cables & Connectors section.

DXE-UT-KIT-CRIMP Ultra-Crimp Connector Kit **$113.95**

Icom + Team K3LR = USA Multi Multi CQ WW Phone Contest #1 for 8 Years in a Row!

Play like a winner.

ICOM

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IC-7200 HF/50 MHz Portable Base Station Transceiver

This entry-level transceiver has advanced digital features, like IF DSP technology that higher class transceivers have. It is built tough and water-resistant for outdoor use. Power Requirement: 13.8 Vdc @ 22A. Dimensions: 9.5" W x 3.3" H x 11" D. Weight: 12.1 lbs.

- Covers 160-6 meter transmit bands and 0.03-60 MHz receive bands
- 2-100 watt output on SSB, CW, RTTY (1-40 watt on AM)
- IF DSP filtering (51 passband widths)
- Hand mic, DC power cable, and spare fuses
- Water intrusion protection similar to Icom Marine radios
- Digital IF filter, twin passband tuning (PBT) and noise reduction
- LCD backlight (hi/lo/off), front facing speaker, voice synthesizer
- Rear bumper protects rear panel connectors while transporting
- 201 scannable memory channels
- Manual notch filter
- Dual VFOs
- ±0.5 ppm frequency stability
- CI-V interface
- USB port for PC control

ICO-IC-7200 Portable HF/6M Transceiver..... **CALL/WEB**

IC-7700 HF/50 MHz All Mode Transceiver

The top performance, contest and DX chasing transceiver! It features the latest technology including two independent IC-7800-type DSP units (one for the transmitter/receiver, one for the spectrum display). Dimensions: 16.7" W x 5.9" H x 17.1" D. Weight: 52.9 lbs.

- 40 dBm third order intercept point
- Typical 134 dB @ 5 kHz dynamic range
- Selectable 3, 6 and 15 kHz roofing filters
- Exceptional out-of-band signal rejection
- Built-in switching power supply
- 7" color TFT (800 x 480 pixel) LCD
- Automatic tracking preselector and relay-switched front end
- Push-pull 48 Vdc MOSFET amplifiers—200 watts at full duty cycle
- Accepts external VGA monitor
- Built-in RTTY/PSK31 mode—requires only an external keyboard
- Rear-panel I/O allows interface of a second Icom transceiver
- Digital voice recorder, DSP noise blanker, USB flash drive socket

ICO-IC-7700 All Mode Transceiver ..... **CALL/WEB**

IC-7410 HF/50 MHz Base Station Transceiver

This dedicated HF/50 MHz transceiver has a DSP unit and double conversion super-heterodyne system developed from the IC-7800/7700/7600 series transceivers. It features a built-in 15 kHz first IF filter and can accept up to two optional filters (3 kHz/6 kHz, not included) to protect narrow mode signals (such as CW and SSB) from adjacent strong signals. Power Requirement: 13.8 Vdc @ 23A. Dimensions: 12.4" W x 4.57" H x 11" D.

- 32-bit floating point DSP unit provides high dynamic range and superior S/N ratio
- Double conversion super-heterodyne system reduces signal distortion, improves in-band IMD characteristics
- +30 dBm third-order intercept point (in 14 MHz band)
- Operates in all modes (SSB/CW/RTTY/AM/FM)
- ±0.5 ppm frequency stability
- Optional RS-BA1 unit for IP remote control
- Built-in automatic antenna tuner

ICO-IC-7410 HF/50MHz Base Station Transceiver ..... **CALL/WEB**

IC-718 HF Base Station Transceiver

The most practical DSP rig you'll ever own! Covers 160 to 10 meters (except 60 meter) in CW, RTTY and AM modes. Power Requirement: 13.8 Vdc @ 20A. Dimensions: 9.4" W x 3.75" H x 9.4" D. Weight: 8.5 lbs.

- 5-100 watts adjustable output power
- 2-40 watts AM
- 101 scannable memory channels
- 0.03-30 MHz RX coverage
- IF shift control
- Mic compressor
- RF gain control, RF attenuator/preamp
- Auto-notch filter
- Electronic CW keyer, VOX voice operation
- Digital S/RF meter
- High frequency stability
- Optional filter selection
- Front facing speaker
- Hand mic included

ICO-IC-718 HF Transceiver/SW Receiver ..... **CALL/WEB**

IC-7600 High Performance HF/50 MHz All Mode Transceiver

This unit has the latest DSP technologies used in the IC-7800/7700 transceivers, plus Icom's 45 years of analog circuit expertise to give you a pronounced performance advantage. Power Requirement: 13.8 Vdc @ 23A. Dimensions: 13.4" W x 4.5" H x 11" D. Weight: 25 lbs.

- Covers 160-6 meter transmit bands and 30 kHz-60 MHz receive
- 2-100 watt output for SSB, CW, FM, RTTY, PSK31
- 1-30 watt output for AM
- 101 scannable memory channels
- Separate DSP units for transmitter/receiver and spectrum scope
- Three built-in 1st IF (roofing) filters: 3, 6 and 15 kHz
- Double conversion receiver with image rejection mixer to improve in-band IMD
- Two SO-239 antenna connectors with automatic antenna selector
- Widescreen 5.8" (400 x 240 pixel) color display
- High-resolution real-time scope using a dedicated DSP unit
- USB connectors for keyboards, flash memory drives, and PCs
- Built-in PSK and RTTY operation with a USB keyboard—PC not required
- DC power cable, spare fuses, CW key plug, HM-36 hand mic, carrying handle

ICO-IC-7600 High Performance Transceiver ..... **CALL/WEB**

IC-9100 HF/VHF/UHF Transceiver

This compact, all-in-one transceiver provides sophisticated HF/VHF/UHF operation with room to grow. The IC-9100 covers most ham bands and modes, and offers a wide variety of operating styles. Add the optional UX-9100 1200 MHz band unit and UT-121 D-Star unit for increased communications capabilities. Power Requirement: 13.8 Vdc @ 24A. Dimensions: 12.4" W x 4.57" H x 13.5" D.

- Covers HF/50, 144, 430/440 amateur bands in SSB, CW, AM, and FM modes
- Built-in voice synthesizer announces operating frequency, mode and S-meter level
- Voice Squelch Control (VSC) function
- AFC function (FM/DV mode)
- Five scanning modes: program, memory, select memory, mode select, Δf scan
- RF speech compressor
- Microphone equalizer and adjustable transmit bandwidth
- Two preamplifier types for HF/50 MHz bands (low-level and high-gain)
- CTCSS and DTCS tone encoder and decoder
- Audio equalizer function
- SSB/CW synchronous tuning
- 9600 bps data socket
- Automatic and one-touch repeater functions
- Optional UX-9100 unit for operating on the 1200 MHz band
- Optional UT-121 D-Star unit for digital voice and low speed data communication

ICO-IC-9100 HF/VHF/UHF Transceiver ..... **CALL/WEB**

ICO-UX-9100 1200 MHz Band Unit, Adds 1240-1320 MHz Capabilities **$679.95**

IC-7800 Deluxe HF/50 MHz Transceiver

The ultimate fusion of 45 years of analog RF circuit development and cutting-edge digital technology. You get dual receivers with an astonishing 110 dB dynamic range, +40 dB 3rd order intercept point in HF, and many other features. No other transceiver comes close! Dimensions: 16.6" W x 5.9" H x 17.1" D. Weight: 55 lbs.

- Covers 160-6 meter transmit bands and 30 kHz-60 MHz receive
- 5-200 watt output (5-50 watt AM)
- USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes
- Four 32-bit floating point DSP units and 24-bit AD/DA converters
- Built-in power supply (85-265 Vac)
- Ultra high stability oscillator
- Main and sub receivers, separate 50 MHz preamp and mixer
- Digital twin passband tuning
- 7" color TFT LCD with spectrum scope S-meter and RTTY/PSK31 decode messages
- Digital RF speech compressor, voice synthesizer, mic equalizer
- RTTY/PSK-31 without PC connection
- UTC/local clock and timer function
- External CRT display connector, four antenna connectors
- Includes 64MB CF memory card and rack mount handles

ICO-IC-7800 Deluxe HF/6M Transceiver..... **CALL/WEB**

ICOM IC-7100
HF, VHF and UHF Transceiver

Icom gives you leading-edge technology in an attractive package with the IC-7100. Controlling the IC-7100 is easy and intuitive with an industry-first multi-function, dot-matrix LCD touch screen. The control head is angled to provide a clear view and the buttons are spaced to accommodate large fingers. For clear communications, there is a large speaker plus an integrated CW keyjack, microphone and control cable.

The IC-7100 provides D-STAR DV mode digital voice and low speed data communications with an optional module. It is also equipped with a state-of-the-art 32-bit floating point DSP. Find all of the specs on this groundbreaking transceiver at DXEngineering.com.

- Dual DSP chips deliver versatile digital processing performance
- Built-in SD card slot for voice storage and data cloning
- Built-in RTTY demodulator and decoder
- Multi-function meter/SWR graphic display
- DSP controller RF speech compressor
- 505 memory channels
- Voice recording and playback functions
- ±0.5 ppm high frequency stability

D-STAR ready

New!

Included Accessories

- Hand microphone
- ACC, separation and DC power cable
- Electronic keyer and hand key plug

ICO-IC-7100 HF, VHF and Digital Transceiver ..... **CALL/WEB**

ICOM IC-7000
All-Band Multi-Mode Mobile Transceiver

This mobile transceiver has features normally found only in the top base stations, like 41 filter bandwidths 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. The 2.5 inch (diagonal) color TFT screen supports a two-mode band scope. It includes a backlit remote microphone, spare fuses, key plug, DC power cable, and remote mounting package. Power Requirement: 13.8 Vdc @ 22A. Dimensions: 6.56" W x 2.59" H x 7.09" D. Weight: 5.1 lbs.

- Covers HF/6M/2M/440 MHz bands with .03-199 MHz RX coverage
- Power: 100 watts (HF+6M), 50 watts (2M), 35 watts (440 MHz)
- 503 alpha tag memories
- Internal 4-memory CW keyer
- Detachable control head
- Digital RF speech processor
- S/PWR/SWR meter
- Preamp and attenuator
- RTTY demodulator
- Adjustable SSB TX bandwidth
- DTMF memory
- VOX plus full break-in CW with adjustable pitch

ICO-IC-7000 All-Band Transceiver ..... **CALL/WEB**

ICOM ID-1
1200 MHz Digital Transceiver

Icom's D-STAR ready ID-1 1200 MHz digital transceiver is equipped with a system that connects repeater sites over microwave links and the Internet to form a wide-area ham radio network. With this Icom digital transceiver, your voice and data will reach further than ever before.

The ID-1 1200 MHz digital transceiver embeds your own and the called station's call signs, which can automatically be stored in memory. You can send a short message in DV mode and communicate with an analog FM transceiver. Plus, you can enjoy DSQL that opens the squelch only when your call sign is received and CSQL when sharing a single call sign for quiet standby while others are talking. And, when you need the attention of all stations in the area, the enhanced monitor request (EMR) bypasses the CSQL and DSQL so all stations will hear your audio!

- 1240-1300 MHz frequency coverage
- 100 memory channels, 3 calls and 2 scan edges
- 950 bps (approximate) data communication capability in DV mode
- AFC (Automatic Frequency Control) function (FM and DV only)
- S-meter squelch
- Break-in communication
- Programmed memory and select mode scan
- Standby beep

Included Accessories

- Microphone
- Ethernet cable coupler
- USB, Ethernet and power cable
- SP-22 External speaker

System Requirements

- Microsoft Windows 98/98SE/ME/2000/XP
- USB port
- Ethernet port (for DD mode operation)

D-STAR ready

ICO-ID-1 1200 MHz Digital Transceiver..... **CALL/WEB**

ICOM Accessory		Description	ICO-IC-718 *	ICO-IC-7200	ICO-IC-7410	ICO-IC-7600	ICO-IC-7700	ICO-IC-7800 *	ICO-IC-7000	ICO-IC-7100	ICO-IC-9100
Amplifier	ICO-PW1	1 kW Linear Amplifier Power Supply and ATU	x	x	x	x	x	x	x	x	x
Antenna	ICO-AH-2B	Antenna Element/Base (Compatible with AH-2, AH-3 and AH-4)	x	x	x	x			x	x	x
	ICO-AH-710	Folded Dipole	x	x		x	x	x	x	x	
Antenna Tuner	ICO-AH-4	Automatic Antenna Tuner	x	x	x	x			x	x	x
	ICO-AT-180	160M-6M Automatic Antenna Tuner for Coax Feed Antennas	x	x					x	x	
Brackets and Handles	ICO-MB-105A	Mobile Transceiver Mounting Bracket, for ICO-7000							x	x	
	ICO-MB-106	Carrying Handle							x	x	
	ICO-MB-116	Front Handles		x							
	ICO-MB-117	Carrying Handle		x							
	ICO-MB-118	Mobile Mounting Bracket		x							
	ICO-MB-123	Carrying Handle			x						x
	ICO-MB-23	Carrying Handle Kit	x								
	ICO-MB-62	Transceiver Mounting Bracket							x	x	
	ICO-MBF-1	Transceiver Mounting Bracket					x		x	x	
	ICO-RMK-7000F1	MB-62, MB-105, OPC-1443 Kit								x	
Cable	ICO-OPC-025D	Power Cable, DC, Molex 6-Pin, 9.8', ATO/ATC Inline Fuse Holder	x								
	ICO-OPC-1443	Remote Faceplate Separation Cable, 11.5'							x	x	
	ICO-OPC-1444	Remote Faceplate Separation Cable, 16'							x	x	
	ICO-OPC-1457	Power Cable, DC, 4-Pin, 9.8', ATO/ATC Inline Fuse Holder		x	x	x			x	x	x
	ICO-OPC-1529R	RS-232 Type PC/GPS Cable									x
	ICO-OPC-589	Mic Adapter Cable							x	x	
	ICO-OPC-599	13-Pin Connector with Cable	x	x	x				x	x	x
Crystal	ICO-CR-338	Crystal Unit, High Stability	x								
Desktop Mic	ICO-SM-30	Electret Stand Mic for HF	x	x	x	x	x	x	x	x	x
	ICO-SM-50	Dynamic Stand Mic for HF	x	x	x	x	x	x	x	x	x
Filter	ICO-FL-222	Crystal Filter, 1.9 kHz, 455 kHz	x								
	ICO-FL-430	Roofing Filter, 1st IF Stage, 6.0 kHz, 64.455 MHz			x						x
	ICO-FL-431	Roofing Filter, 1st IF Stage, 3.0 kHz, 64.455 MHz			x						x
	ICO-FL-52A	Crystal Filter, 500 Hz, 455 kHz	x								
Hand Mic	ICO-HM-151	7000 Standard Hand Mic (Same as Supplied)							x	x	
	ICO-HM-154T	Microphone, Hand Type, Single Element, Push-to-Talk, RJ-45							x	x	
	ICO-HM-36	Hand Mic (Same as Supplied)	x	x	x	x	x	x			x
Level Converter	ICO-CT-17	Transceiver Level Converter, CI-V, RS-232, Remote Jack Cables, Kit	x	x	x	x	x	x	x	x	x
Power Supply	ICO-PS-125	13.8V/25A Power Supply	x								
	ICO-PS-126	13.8V/25A External Power Supply with 4-Pin, 110V		x	x	x			x	x	x
Plug-In Module	ICO-UT-106	Plug-in Module, DTMF Decoder Unit	x								
	ICO-UT-121	D-STAR Digital Board									x
	ICO-UX-9100	1200 MHz Band Unit									x
Preamplifier	ICO-AG-25	2 Meter Preamplifier									x
Software	ICO-RS-BA1	IP Remote Control Software		x	x	x	x	x			x
Speaker	ICO-SP-21	External Speaker for Base Stations	x	x	x	x	x	x			x
	ICO-SP-23	5 Watt External Speaker with 4 Audio Filters and Headphone Jack	x	x	x	x	x	x	x	x	x
	ICO-SP-33	Base Station Speaker	x	x	x	x	x	x	x	x	x
	ICO-SP-34	Base Station Speaker					x	x			
	ICO-SP-35	Heavy Duty Slim-Line Mobile Speaker	x	x					x	x	

* Covers HF frequencies except for 60M

ICOM IC-2820H
2M/400 Dual Band Mobile Transceiver

Covers 144-148 MHz and 430-450 MHz transmit. Left band receive: 118-549.95 MHz wideband. Right band receive: 118-173.995/375-549.995/810-990.990 MHz cellular blocked. Inputs for two antennas allow diversity reception (compares signal strength from the two antennas, automatically selects the strongest signal) in the 127/136/146/375/440/500 MHz bands. V/V and U/U simultaneous receive antennas required. Includes a full-function backlit remote DTMF hand microphone, mounting bracket, DC power cable, separation cables, and spare fuses. Power Requirement: 13.8 Vdc @ 13A. Dimensions: 5.9" W x 1.65" H x 7.4" D. Weight: 3.3 lbs.

- D-STAR/GPS and DV (digital voice) upgradeable with optional UT-123 Receiver
- Selectable Power: 50/15/5 watts on both bands
- 522 memory channels
- Weather Alert
- CTCSS/DCS encode/decode
- PC compatibility
- Removable front panel
- Selectable (amber/green) display
- Packet ready (9600 bps/6-pin DIN)

ICO-IC-2820H Analog Dual Band Transceiver ..... **CALL/WEB**

ICOM IC-2300H
2M Single Band Mobile Transceiver

Covers 144-148 MHz transmit with 136-174 MHz receive. Large selectable (amber or green) LCD display with four levels of brightness, backlit keys, and a large oversized tuning dial. It includes a remote control microphone, DC power cable, and mobile mounting bracket. Power Requirement: 13.8 Vdc @15A. Dimensions: 5.5" W x 1.6" H x 5.25" D. Weight: 2.75 lbs.

- Selectable transmit power levels: 65/25/10/5 watts
- Choice of FM Narrow mode
- 207 alpha tag memories w/call channel
- Dynamic Memory Scan
- 50 CTCSS and 104 x 2 DTCS encode/decode, tone scan function, pocket beep
- 24 DTMF autodial memories
- Squelch delay

ICO-IC-2300H 2M Single Band Transceiver ..... **CALL/WEB**
ICO-CS-2300H Cloning Software for IC-2300H **$64.95**

ICOM IC-V8000
2M Single Band High Power Mobile Transceiver

Covers 144-148 MHz transmit with 118-174 MHz receive. User selectable power (75/25/10/5 watts, 75 watts maximum). It includes a remote control microphone, DC power cable, and mounting bracket. Power Requirement: 13.8 Vdc @ 15A. Dimensions: 5.9" W x 2" H x 5.9" D. Weight: 2.22 lbs.

- 207 alpha tag memories with Call Channel and priority watch
- Transceiver to transceiver or PC to transceiver cloning
- Weather channel scan and alert
- DMS scan system
- CTCSS/DTCS tones
- Customized memory banks
- DTMF encode and pager
- 10 DTMF memory channels
- Front facing speaker
- One-piece, die-cast aluminum chassis
- Selectable display (amber or green)

ICO-IC-V8000 2M High Power Transceiver ..... **CALL/WEB**
ICO-CS-V8000 Cloning Software for IC-V8000 ..... **$34.95**

ICOM ID-880H
VHF and UHF Digital Transceiver

Icom's ID-880H VHF and UHF digital transceiver lets you easily switch between bands. This 50 watt transceiver is D-STAR ready with an integrated wideband receiver for aviation, marine, weather, and utility communications. You can store and label 1,052 memory channels in one of the 26 memory banks. Multiple scan functions for maximum reception; the microphone keypad navigation provides quick access to the ID-880H's multiple settings.

- Built-in CTCSS/DTCS encoder and decoder
- Built-in noise filter (AM/FM) mode
- Data and 9600/1200 bps packet jacks on the rear panel
- ±2.5 ppm frequency stability
- Monitor function to listen to a weak signal
- Auto repeater function (USA versions only)
- Weather channel receive with weather alert
- 16 DTMF memory channels using 24 digits
- Drip-resistant construction, equivalent to IPX4
- Auto power save, power off and on
- 10 dB (approximate) built-in attenuator

D-STAR ready

Included Accessories

- Hand microphone HM-133
- 11.2 foot separation cable
- DC power cable OPC-1132A
- Mounting bracket kit
- Remote controller bracket

ICO-ID-880H VHF and UHF Digital Transceiver ..... **CALL/WEB**

ICOM AH-4
Antenna Tuner

Icom's AH-4 antenna tuner lets you automatically tune a 23 foot or longer wire antenna for portable or mobile HF/50 MHz use. The PTT tune function makes changing bands easy, too.

ICO-AH-4 Antenna Tuner..... **$289.95**
ICO-OPC-136 AH-4 Control Cable, 16.4' **$32.95**

ICOM Accessory		Description	ICO-IC-2300H	ICO-IC-V8000	ICO-IC-2820H	ICO-ID-880H	ICO-ID-1
Bracket	ICO-MB-28H	Mobile Mounting Bracket	x				x
	ICO-MBF-1	Transceiver Mounting Bracket			x	x	
	ICO-V8000-MMB	Standard Mounting Bracket		x			
Cable	ICO-OPC-1132	Power Cable, DC, T-Style, 2-Pin, 9.8'	x	x	x	x	x
	ICO-OPC-1154A	Separation Cable 11.2' (Same as Supplied)				x	
	ICO-OPC-1529R	RS-232 Type PC/GPS Cable			x	x	
	ICO-OPC-1663	Separation Cable 11.2' (Same as Supplied)			x		
	ICO-OPC-1712	Controller Cable 3.9' (Same as Supplied)			x		
	ICO-OPC-346	DC Power Cable 9.8' (Same as Supplied)		x			
	ICO-OPC-347	Power Cable, DC, T-Style, 2-Pin, 23', ATO/ATC Inline Fuse Holder	x	x	x	x	x
	ICO-OPC-440	Mic Extension Cable	x	x	x	x	x
	ICO-OPC-441	Speaker Extension Cable	x	x	x	x	x
	ICO-OPC-474	Radio to Radio Cloning Cable	x	x	x	x	
	ICO-OPC-478	PC to Radio Programming Cable, RS-232, Stereo 3.5mm Male Plug	x	x	x	x	
	ICO-OPC-478UC	PC to Radio Programming Cable, USB	x	x	x	x	
	ICO-OPC-589	Mic Adapter Cable	x	x		x	
Cloning Software	ICO-CS-2300H	Cloning Software	x				
	ICO-CS-2820	Windows Programming Software			x		
	ICO-CS-V8000	Cloning Software		x			
Control Software	ICO-RS-ID1	ID1 Control Software					x
Hand Mic	ICO-HM-103	Lightweight Hand Mic				x	
	ICO-HM-133	Remote Control Mic (Same as Supplied)			x	x	
	ICO-HM-133V	Microphone, Hand Type, Single Element, Push-to-Talk, RJ-45	x	x			
Plug-In Module	ICO-UT-108	Plug-In Module, DTMF Decoder Unit		x			
	ICO-UT-123	D-STAR Digital GPS Unit with GPS Antenna			x		
Speaker	ICO-SP-22	External Speaker	x	x	x	x	x
	ICO-SP-35	External Speaker	x	x	x	x	x
Speaker Mic	ICO-HM-154	Speaker Mic	x	x	x	x	x
	ICO-HM-154T	Microphone, Hand Type, Single Element, Push-to-Talk, RJ-45		x	x		

Note 1: IC-T70A and IC-T70ASPORT require the OPC-2006; ID-31A and ID-51A require the OPC-2006LS.

Accessory		Description	2 Meters		Dual-/Tri-Band					70cm
			IC-V80	IC-V80 SPORT	ID-51A	IC-T70A	IC-T70A SPORT	IC-80AD	IC-92AD	ID-31A
Adapter	ICO-AD-92SMA	Antenna Connector Adapter (SMA to BNC)			X	X	X	X	X	X
Antenna	ICO-FAB-2E	UHF Antenna	X	X						
	ICO-FAS-270C	UHF Antenna			X	X	X	X	X	X
Charger	ICO-BC-139-02	Rapid Charger						X		
	ICO-BC-167ND	Wall Charger for BP-271, 220V			X	X	X	X	X	X
	ICO-BC-167SA	Wall Charger for BP-271			X	X	X	X	X	X
	ICO-BC-177-02	Rapid Charger							X	
	ICO-BC-191-12	Rapid Desktop Charger for BP-264	X	X		X	X			
	ICO-BC-193-12	Rapid Desktop Charger for BP-265	X	X		X	X			
	ICO-BC-202-02	Rapid Desktop Charger for BP-271, BP-272			X					X
Battery Pack	ICO-BP-217	Li-Ion Battery Pack 7.4V/1300 mAh						X		
	ICO-BP-256	Li-Ion Battery Pack							X	
	ICO-BP-264	Ni-MH 7.2V/1400 mAh	X	X		X	X			
	ICO-BP-265	Li-Ion 7.4V/1900 mAh (Minimum), 2000 mAh (Typical)	X	X		X	X			
	ICO-BP-271	7.4V 1150 mAh Li-Ion Battery			X					X
	ICO-BP-272	7.4V 1880 mAh Li-Ion Battery			X					X
Battery Case	ICO-BP-216	Alkaline Battery Pack (Holds 2 AA Batteries)						X		
	ICO-BP-257	Alkaline Battery Pack (Holds 2 AA Batteries)							X	
	ICO-BP-263	Alkaline Battery Pack (Holds 6 AA Batteries)	X	X	X	X	X			
	ICO-BP-273	AA Alkaline Battery Tray (Holds 3 AA Batteries)			X					X
Cables	ICO-CP-12L	Cigarette Lighter Cable with Noise Filter (to Charge Radio)			X	X	X	X	X	X
	ICO-CP-17L	Cigarette Lighter Cable for Charger (Use with BC-191 or BC-193)	X	X		X	X			
	ICO-CP-18A	Cigarette Lighter Cable								
	ICO-CP-19R	Cigarette Lighter Cable, Charges While in Use, Built-In DC Converter			X	X	X	X	X	X
	ICO-OPC-1797	Plug Adapter Cable							X	
	ICO-OPC-2004	Cable for Use with HS-94, HS-95, and HS-97	X	X						
	ICO-OPC-2006	Cable for Use with HS-94, HS-95, and HS-97				X	X			
	ICO-OPC-2006LS	Plug Adapter Cable (Required for Use with HS-94, HS-95, and HS-97)			X					X
	ICO-OPC-2144	Slim L-Type Plug Adapter Cable for Speaker Mic and Headphone			X					X
	ICO-OPC-2218LU	Cloning/Data Cable (USB)			X					X
	ICO-OPC-254L	DC Power Cable (for Use of the Transceiver with an External Power Supply)			X	X	X	X	X	X
	ICO-OPC-474	Radio to Radio Cloning Cable	X	X		X	X	X	X	
	ICO-OPC-478	PC to Radio Programming Cable, RS-232, Stereo 3.5mm Male Plug	X	X		X		X		
	ICO-OPC-478UC	PC to Radio Programming Cable, USB	X	X		X	X	X		
	ICO-OPC-515L	DC Power Cable for Use with BC-191, BC-192 or BC-193	X	X		X	X			
Level Converter	ICO-CT-17	Transceiver Level Converter, CI-V, RS-232, Remote Jack Cables, Kit			X					X
Speaker Mics	ICO-HM-128	Lightweight Earphone						X	X	
	ICO-HM-131	Speaker Mic with Earphone Jack and Revolving Clip				X	X	X	X	
	ICO-HM-153	Durable Earphone Mic				X	X	X	X	
	ICO-HM-153L	Durable Earphone Mic	X	X						
	ICO-HM-153LS	Compact Speaker Mic with Slim L-Type Connector			X					X
	ICO-HM-158L-LG	Speaker Mic with Metal Clip and Screw Down L-Shaped Connector	X	X						
	ICO-HM-159L-LG	Full Size Durable Speaker Mic	X	X						
	ICO-HM-166LS	Light-Type Earphone Mic with Slim L-Type Connector			X					X
	ICO-HM-174	Waterproof Speaker Mic							X	
	ICO-HM-175GPS	Waterproof Speaker Mic with GPS receiver							X	
	ICO-HM-186LS	Compact Speaker Mic with Slim L-Type Connector			X					X
	ICO-HM-189GPS	GPS Speaker Mic						X		
	ICO-HM-75A	Speaker Mic			X			X	X	
	ICO-HM-75LS	Remote Control Speaker Mic with Slim L-Type Connector			X					X
Headsets	ICO-HS-85	Headset with VOX, PTT						X	X	
	ICO-HS-94	LM Earpiece-Type Headset (See Note 1)	X	X	X	X	X			X
	ICO-HS-95	Headset with Boom Mic (See Note 1)	X	X	X	X	X			X
	ICO-HS-97	Earphone with Throat Mic (See Note 1)	X	X	X	X	X			X
Carrying Case	ICO-LC-163	Carrying Case						X		
	ICO-LC-168	Carrying Case							X	
	ICO-LC-174	Carrying Case				X	X			
	ICO-LC-178	Leather Carrying Case								X
	ICO-LC-179	Carrying Case			X					
	ICO-SJ-1	Silicone Jacket Case			X					
Belt Clip	ICO-MB-107	Belt Clip						X		
	ICO-MB-111	Belt Clip							X	
	ICO-MB-124	Alligator Style Clip	X	X		X	X			
	ICO-MB-127	Belt Clip			X					
	ICO-MB-86	Swivel Belt Clip						X		
	ICO-MB-98	Belt Clip								
Earphone	ICO-SP-13	Earphone			X			X	X	X
	ICO-SP-27	Acoustic Tube Earphone with Clothing Clip				X	X			

ICOM IC-T70A Dual-Band Transceiver

Icom's IC-T70A Dual-Band FM Transceiver gives you 5 watts of RF power on 2M and 70cm in a small, lightweight handheld package. IC-T70A handhelds also have an internal VOX function for hands-free operation when used with an optional headset and plug-adapter cable. CTCSS and DTCS tone codes provide quiet standby and allow you to use tone-access repeaters.

The BP-264 Ni-MH battery (ICO-IC-T70A only) offers over 10 hours of power on a single charge.

- Wide/narrow channel spacing
- WX channel and WX alert function
- Power save function
- SMA type antenna connector
- Automatic repeater function
- TOT (time out timer) setting
- Repeater lockout and busy channel lockout
- PC programmable with optional CS-T70
- Optional transceiver-to-transceiver cloning
- Direct keypad frequency entry
- 16 DTMF autodial memories
- Auto power off
- LCD backlight

Included Accessories

- Ni-MH battery pack (IC-T70A)
- AA battery case (IC-T70ASPORT)
- Belt clip
- Wall charger (IC-T70A)
- Antenna
- Hand strap

ICO-IC-T70A Dual-Band FM Transceiver..... **CALL/WEB**
ICO-IC-T70ASPORT Dual-Band FM Transceiver..... **CALL/WEB**

ICOM IC-92AD VHF/UHF Dual-Band Transceiver

The ideal 5 watt transceiver for the field; this is a tough, rugged radio that's packed with features. It is completely submersible to IPX7 specifications and is D-STAR ready. The IC-92AD also uses Icom's dualwatch capability, allowing you to monitor receive on two bands simultaneously. There's a large display for clear readability and the one-touch reply mode makes quick transmissions easy.

- 1,304 memory channels
- External DC power jack (10–16 Vdc)
- 10 channel DTMF memory (16-digit)
- Squelch disable function to monitor a weak signal
- Built-in CTCSS/DTCS tone encoder and decoder (FM mode)
- 26 memory banks with selected bank and bank link scanning
- 10 dB (approx.) built-in attenuator
- Automatic repeater function
- Weather channel with weather alert

Included Accessories

- Battery pack and charger
- Antenna

ICO-IC-92AD VHF/UHF Dual-Band Transceiver..... **CALL/WEB**

ICOM IC-V80-Sport VHF Transceiver

Icom's most economical full-featured 2 meter handheld gives you 5.5 watts of RF power. The external DC power jack allows for operation and charge when used with an external DC power supply. With its 207 alphanumeric memory channels, you can pick and choose your scanning. CTCSS and DTCS tone codes provide quiet stand-by and allow you to use tone-access repeaters.

The IC-V80 handheld has passed the MIL-STD-810 environmental tests for practical outdoor use.

- WX channel and weather alert function
- Program, memory, skip, priority and tone scans
- Automatic repeater function
- TOT (time out timer) setting
- Repeater lockout and busy channel lockout
- PC programmable with optional CS-V80 Software
- DTMF auto-dial memories
- Wide/narrow channel spacing

New!

Included Accessories

- BP-263 AA Battery Case
- Belt clip
- BNC flexible antenna

ICO-IC-V80-SPORT VHF FM Transceiver..... **CALL/WEB**

ICOM ID-51A VHF/UHF Dual-Band Transceiver

You get a powerful, feature-laden dual-band transceiver in a compact unit with the ID-51A. This D-STAR ready handheld also features an integrated GPS receiver with an automatic position reply function. For added versatility, the ID-51A's groundbreaking dualwatch feature allows you to listen to FM, AM and shortwave broadcast stations while monitoring the Ham bands.

- TX voice memory (1 channel, 60 seconds) for repeated calls
- Voice synthesizer function announces frequency, mode and call sign
- Voice memory function records incoming and outgoing calls and can be used as a voice recorder
- CSV formatted communication log
- 10-step battery voltage indicator
- IPX7 submersible
- Micro SD card slot for voice and log data storage and data cloning
- Repeater search function searches up to 20 nearby repeater sites

New!

D-STAR ready

Included Accessories

- Battery pack and charger
- Cloning software (CS-51)
- Antenna

ICO-ID-51A VHF/UHF Dual-Band Transceiver..... **CALL/WEB**

ICOM ID-31A UHF Handheld Transceiver

The ID-31A UHF Transceiver offers global D-STAR connectivity in a small and lightweight package—so you can carry one with you all the time. Waterproof to one meter for 30 minutes, this transceiver is rugged enough to carry an IPX7 rating.

Multiple scan functions and 1,252 memory channels allow for maximum convenience. The Icom ID-31A transceiver's extended range receiver lets you listen from 400 to 479 MHz. The built-in GPS receiver displays your current position and altitude, and features a position-reporting function in Digital Voice mode. The GPS will even locate the nearest D-STAR repeater for you.

The Icom ID-31A UHF Transceiver is the most advanced UHF handheld available today—visit DXEngineering.com for all of the specs and features.

- 5 watt power output
- 4-step RF power selection
- 16 DTMF memory channels of 24 digits
- Wide or narrow analog FM mode
- Built-in CTCSS/DTCS encoder and decoder for analog FM
- 1,252 memory channels
- Squelch release function to monitor a weak signal

Included Accessories

- CS-31 Software
- Battery pack
- Wall charger
- Antenna

ICO-ID-31A UHF Handheld Transceiver..... **CALL/WEB**

ICOM IC-80AD VHF/UHF Dual-Band Transceiver

This IC-80AD VHF/UHF dual-band transceiver is the perfect companion for your ID-880H mobile unit. This water-resistant transceiver offers D-STAR technology and carries an IPX4 rating with the cover attached. Switch between VHF/UHF bands easily. Listen to aviation, marine, weather and utility communications. Multiple scan functions allow for maximum reception and 1,052 memory channels that can be named and sorted into one of the 26 memory banks. You can download cloning software for free, allowing you to share memory channel info and radio settings between the IC-80AD and ID-880H!

- 5 watt power output
- Built-in CTCSS/DTCS encoder and decoder
- Monitor function to listen to a weak signal
- Auto repeaters function
- Weather channel receive with weather alert
- 16 DTMF memory channels (24 digits)
- 4-step RF power selection
- 10 dB (approximate) built-in attenuator

Included Accessories

- Battery pack
- Antenna
- Wall charger
- Belt clip

ICO-IC-80AD VHF/UHF Dual-Band Transceiver..... **CALL/WEB**

ICOM IC-R9500 Communications Receiver

Icom's IC-R9500 delivers professional quality functions in a high-end communications receiver. From quality and functionality to signal detection and monitoring, everything about the IC-R9500 contributes to a professional-grade design. This receiver covers SSB, AM, FM (WFM), CW and FSK modes. It achieves amazing receiver performance by using a D-MOS FET array in the first mixer and an excellent IMD roofing filter.

You'll get vivid spectrum analysis with the wide color display. Four different spectrum modes are available to monitor signal strength and characteristics. With 1,220 memory channels and ten VFO channels, you can store, group, name and bank all of your favorite frequencies, modes, filter widths and tuning steps. The IC-R9500 offers top-of-the-line performance in a feature-laden package, giving you an unparalleled listening experience. Visit DXEngineering.com to learn more.

- 0.005-3335 MHz wideband coverage (800 MHz cellular is blocked)
- +40 dBm third order intercept point
- 109 dB dynamic range at 14.1 MHz
- ±0.05ppm high-frequency stability
- ±3 dB accuracy signal meter
- SSB/CW/AM mode auto tuning functions
- 1/4 tuning step function and dial click function
- CW-R (reverse) mode
- Input overload protection (HF bands only)
- Optional P25 digital mode reception
- CTCSS and DTCS tone squelch

ICO-IC-R9500 Communications Receiver..... **CALL/WEB**

ICOM IC-R75 HF+50 MHz All Mode Communications Receiver

Expand your frequency horizon with a receiver that covers 30 kHz to 60 MHz, including FM reception for 29 and 50 MHz. Enjoy marine, amateur and shortwave broadcasts—even worldwide communications. The IC-R75 has a wide dynamic range, a triple conversion system and twin passband tuning to eliminate interference. The IC-R75 receiver also offers selectable RF gain/squelch control to match your operating preference.

You can upgrade your IC-R75 by installing up to two optional filters for more flexible bandwidth selection and filter combinations. Or, gain DSP capabilities like noise reduction and an automatic notch filter with an optional DSP unit.

This all-mode communications receiver gives you the ability to listen to the world!

- Digital bar S-meter with peak hold
- Large alphanumeric display
- Front-mounted speaker
- Internal clock with sleep timer
- Numeric keypad for direct input
- Attenuator and 2-level preamp
- Selectable AGC (fast/slow/off)
- Noise blanker
- 99 memories, plus two program scan edges
- Ample scanning functions available
- CW pitch control and CW reverse mode

Included Accessories

- AC adapter
- DC power cable

ICO-IC-R75 Communications Receiver..... **CALL/WEB**

Remotely Control Icom Transceivers Through an IP Network!

Icom IP Remote Control Software

The IP Remote Control Software allows you to operate an Icom radio installed in another room using your home network or even from a remote location over the Internet. The software works with Icom IC-9100, IC-7800, IC-7700, IC-7600, IC-756PROIII, IC-746PRO, IC-7400 IC-7200, and IC-7000 transceivers. System requirements: Windows® XP (SP3), Vista, or Windows® 7.

ICO-RS-BA1 Icom IP Remote Control Software **$95.95**

ICOM IC-R6 Communications Receiver

Designed for serious listening in the field, the Icom IC-R6 Communications Receiver has an ultra-wideband frequency range that covers 100 kHz to 1309.995 MHz (800 MHz cellular is blocked). That range includes government, amateur, utility and AM/FM/SW broadcast stations. To help sort out clutter while scanning, the IC-R6's Voice Squelch Control opens the squelch only when a modulated signal is detected. It's a handy feature when listening for news, talk and music while avoiding data bursts and beacons.

The IC-R6 has 100 channels per second of high-speed scan capability when in VFO mode. This superior scanning power provides efficiency when searching over 1300 MHz of spectrum. With 1,300 alphanumeric memory channels, 50 scan edges, 200 auto-write memories and 22 memory banks, the Icom IC-R6 Communications Receiver gives you unparalleled scanning flexibility.

- Built-in audio low pass filter
- ±1.0ppm high frequency stability at 25°C
- Ferrite bar antenna for AM broadcast
- 150 mW loud audio with internal speaker
- DTCS and CTCSS tone squelch and reverse tone squelch
- Duplex operation monitoring
- Built-in RF attenuator
- Auto memory-write scan stores frequencies/settings
- Weather channel receive with weather alert

Included Accessories

- Two AA Ni-MH cells
- AC adapter, BC-196SA/SD
- Antenna

ICO-IC-R6 Communications Receiver..... **CALL/WEB**

ICOM IC-R20 Communications Receiver

This communications receiver features Icom's dualwatch technology, which lets you monitor two frequencies at once for excellent listening versatility. It covers 150 kHz to 3304.999 MHz (800 MHz cellular is blocked) in SSB, CW, AM, FM and WFM modes. This includes commercial radio and TV broadcasts, plus communications for boaters, aviation, public safety and more. The receiver features an internal 32MB digital recorder capable of storing received communications, useful for recording audio, and has a USB port to download data to a computer.

It also includes a band scope and multiple scanning controls, making this the ideal receiver for signal monitoring in the field.

- 1,250 memory channels
- 50 Ω antenna impedance
- Voice Squelch Control opens only when a modulated signal is detected
- Auto squelch and squelch monitor capability
- Built-in attenuator and RF gain control
- Noise blanker, ANL (Auto Noise Limiter), AF filter
- AFC (Auto Frequency Control) function
- Built-in ferrite bar antenna for AM broadcast
- Weather channel and weather alert
- Preprogrammed with TV and popular shortwave channels
- Uses 3 AA batteries (not included)

ICO-IC-R20-SPORT Communications Receiver..... **$499.95**
ICO-BP-206 Li-Ion Battery Pack for IC-R20 ..... **$55.95**

More Battery Packs and Cases For Your Icom Radios

Part Number	Description	Volts (Vdc)	Current (mAh)	Fits Radio(s)	Trickle Charger	Rapid Charger
ICO-BP-216	2 AA Battery Case	—	—	IC-80AD IC-91A	—	—
ICO-BP-217	Li-Ion Battery Pack	7.4	1,300	IC-80AD IC-91A	BC-167SA	BC-139-02
ICO-BP-222N	Ni-CD Battery Pack	7.6	600	IC-U82 IC-V82	BC-146, BC-147	BC-119N-01**
ICO-BP-256	Li-Ion Battery Pack	7.4	1,620	IC-92AD	BC-167SA	BC-139-02
ICO-BP-257	2 AA Battery Case	—	—	IC-92AD	—	—
ICO-BP-263	6 AA Battery Case	—	—	IC-T70A IC-V80	—	—
ICO-BP-264	Ni-MH Battery Pack	7.2	1,400	IC-T70A IC-V80	BC-192-12	BC-191-12*
ICO-BP-265	Li-Ion Battery Pack	7.4	1,900	IC-T70A IC-V80	BC-1675A	BC-193-12*
ICO-BP-271	Li-Ion Battery Pack	7.4	1,150	ID-31A ID-51A	BC-167SA	BC-202-02
ICO-BP-272	Li-Ion Battery Pack	7.4	1,880	ID-31A ID-51A	BC-167SA	BC-202-02
ICO-BP-273	3 AA Battery Case	—	—	ID-31A ID-51A	—	—

*** Requires ICO-BC-123S AC Adapter ** Requires AD-101 Charger Adapter**

QSL 7" Digital Picture Frame and Scanner

This kit, consisting of one digital scanner and one 7" digital picture frame, is the perfect way to digitally capture and display your QSL Cards or 4" x 6" photos.

Simply feed your QSL cards through the scanner, then transfer the scanner's SD memory card to the digital picture frame. It's a great way to preserve the cards and remember QSOs, while showing off your collection. Over 3,000 QSL cards can be stored and displayed. The XYL will be happy to see the wall again, and you'll have more room to hang certificates!

DXE-QSL-KIT **$89.95**

Radio Interface Cables

RT Systems has cables for many of the most popular radios in use today. They are compatible with various handhelds, mobiles, HF rigs and receivers from common manufacturers. Don't see the cable you need? Check out DXEngineering.com, there's a good chance we have it online.

Part Number	Cable Type	Price
RTP-USB-63	USB to Female DB-9	**$29.95**
RTP-USB-64	USB to Male DB-9	**$29.95**
RTP-USB-65	USB to 9-Pin DIN CAT Data Cable	**$29.95**
RTP-USB-81	USB to 6-Pin Mini DIN	**$29.95**
RTP-USB-29B	USB to 6-Pin Mini DIN	**$29.95**
RTP-USB-82	USB to Stereo 2.5mm Male	**$29.95**
RTP-USB-29C	USB to 4-Pin Modular Plug	**$29.95**
RTP-USB-K4Y	USB to Kenwood 3.5mm/2.5mm Plug	**$29.95**
RTP-USB-92	USB to 12-Pin Icom Plug (for IC-92AD)	**$49.95**
RTP-USB-29F	USB to 6-Pin Modular Plug	**$29.95**
RTP-USB-K5D	USB to 8-Pin Modular Plug	**$29.95**
RTP-USB-92D	USB to 12-Pin Icom Plug (for IC-92AD)	**$49.95**
RTP-USB-57A	USB to 4-Conductor (TRRS) 3.5mm Plug	**$29.95**
RTP-USB-K5G	USB to 8-Pin Mini DIN	**$29.95**
RTP-USB-62	USB to 8-Pin Mini DIN	**$29.95**
RTP-USB-29A	USB to Stereo (TRS) 3.5mm Male Plug	**$29.95**
RTP-USB-K4S	USB to 6-Pin Mini DIN, Programming Cable	**$29.95**
RTP-USB61	USB to 6-Pin Mini DIN, Data Cable	**$29.95**
RTP-USB-57B	USB to 4-Conductor (TRRS) 3.5mm Plug	**$29.95**
RTP-RTS-03	USB to 9-Pin Serial Male with Driver Software	**$22.95**
RTP-USB-RTS05	USB to Stereo 2.5mm Male Plug	**$29.95**
RTP-OPEN-VX8	Yaesu VX8 Mic/Data Cable to Open Wire Pigtail	**$7.95**
RTP-USB-RTS01	USB to Stereo (TRS) 3.5mm Male Plug	**$29.95**

rt SYSTEMS
RADIO PROGRAMMING MADE EASY

Programming/Cloning Software and Cables

In order to get the most out of your radio, it needs to be programmed properly. RT Systems makes the process much less tedious with intuitive and user-friendly CD-ROM software. Instead of pressing buttons and reading small LCD screens, you can simply scroll through checkboxes and enter information with your keyboard. Program memories, adjust D-STAR options, configure APRS settings and more—all without eyestrain and finger fatigue.

The appropriate interface cables are included with the software. They are also available separately.

Part Number	Radio	Cable Type	Price
RTP-WCS-208	Icom IC-208	USB-29A	**$49.95**
RTP-WCS-2100	Icom IC-2100	USB-29A	**$49.95**
RTP-WCS-2200	Icom IC-2200	USB-29A	**$49.95**
RTP-WCS-2300	Icom IC-2300	USB-29A	**$49.95**
RTP-WCS-2720	Icom IC-2720	USB-29A	**$49.95**
RTP-WCS-2820	Icom IC-2820	USB-29A	**$49.95**
RTP-WCS-2820DATA	Icom IC-2820	USB-RTS05	**$49.95**
RTP-WCS-7000	Icom IC-7000	USB-RTS01	**$49.95**
RTP-WCS-7200	Icom IC-7200	USB-RTS01	**$49.95**
RTP-WCS-7200-U	Icom IC-7200	—	**$24.95**
RTP-WCS-80	Icom IC-80	USB-29A	**$49.95**
RTP-WCS-80-DATA	Icom IC-80	USB-RTS05	**$49.95**
RTP-WCS-91	Icom IC-91 A/D	USB-29A	**$49.95**
RTP-WCS-9100	Icom IC-9100	USB-RTS01	**$49.95**
RTP-WCS-9100-U	Icom IC-9100	—	**$24.95**
RTP-WCS-92	Icom IC-92	USB-92	**$69.95**
RTP-WCS-Q7	Icom IC-Q7A	USB-29A	**$49.95**
RTP-WCS-R2	Icom IC-R2	USB-29A	**$49.95**
RTP-WCS-R10	Icom IC-R10	USB-29A	**$49.95**
RTP-WCS-T2	Icom IC-T2	USB-29A	**$41.95**
RTP-WCS-T7	Icom IC-T7	USB-29A	**$49.95**
RTP-WCS-T70	Icom TC-T70	USB-29A	**$49.95**
RTP-WCS-T8	Icom IC-T8	USB-29A	**$49.95**
RTP-WCS-T81	Icom IC-T81	USB-29A	**$49.95**
RTP-WCS-U82	Icom IC-U82	USB-29A	**$49.95**
RTP-WCS-V8	Icom IC-V8	USB-29A	**$49.95**
RTP-WCS-V80	Icom IC-V80	USB-29A	**$49.95**
RTP-WCS-V8000	Icom IC-V8000	USB-29A	**$49.95**
RTP-WCS-V82	Icom IC-V82	USB-29A	**$49.95**
RTP-WCS-V85	Icom IC-V85	USB-29A	**$49.95**
RTP-WCS-W32	Icom IC-W32	USB-29A	**$49.95**
RTP-WCS-D31	Icom ID-31	USB-RTS05	**$49.95**
RTP-WCS-D51	Icom ID-51	USB-RTS05	**$49.95**
RTP-WCS-D880DATA	Icom ID-880	USB-RTS05	**$49.95**
RTP-KRS-D7G	Kenwood TH-D7G	USB-K5D	**$49.95**
RTP-KRS-D72	Kenwood TH-D72	—	**$24.95**
RTP-KRS-F6-F7	Kenwood TH-F6/F7	USB-K4Y	**$49.95**
RTP-KRS-K2	Kenwood TH-K2	USB-K4Y	**$49.95**
RTP-KRS-271-281	Kenwood TM-271/281	USB-K5D	**$49.95**
RTP-KRS-D700	Kenwood TM-D700	USB-63	**$48.95**
RTP-KRS-D710	Kenwood TM-D710	USB-K5G	**$49.95**

WMT-58407-949

WMT-58407-948

West Mountain Radio ClearSpeech Noise Reduction Speaker and Processor

The CLRspkr is a compact, portable loudspeaker containing an adaptive DSP noise reduction circuit with a 10 watt audio amplifier. The ClearSpeech® adaptive DSP algorithms analyze the noise content of the incoming signal, then attenuate or completely remove hum, hiss, ignition and power line noise, static and heterodynes. What you hear is clean voice and CW with over 85% of the noise removed.

If you have an external speaker that you like, the ClearSpeech DSP processor unit will give you the clean sound you want. It installs between your radio and the speaker.

WMT-58407-948 CLRspkr ClearSpeech DSP Speaker **$199.95**
WMT-58407-949 CLRdsp ClearSpeech DSP Processor **$199.95**
WMT-58410-951 12 Vdc Power Supply for CLRspkr & CLRdsp..... **$14.95**

West Mountain Radio COMspkr Computer Speaker System

This amplified speaker system is optimized for close range operation with any radio transmitter. It features exceptionally high rejection of Radio Frequency Interference from 1 to 1000 MHz.

WMT-58409-950 COMspkr Computer Speaker System **$37.95**

MFJ-281 ClearTone Communications Speaker

Plug in the ClearTone speaker and bring out communication speech fidelity that you never knew existed. It restores the smooth sound of sine waves that CW naturally generates and makes it easy to copy. The ClearTone speaker improves speech intelligibility in the 600 to 4000 Hz frequency range while reducing undesirable noise, static, and hum. It has a 6' cord and 3.5mm mono plug. Output: 8 watts. Impedance: 8 Ω. Dimensions: 3.75" H x 3" W x 2.25" D.

MFJ-281 ClearTone Communications Speaker **$12.95**

LA30 Indoor Loopstick Antenna

The new Palstar LA30 Ferrite Loopstick Antenna is designed for the avid LF, MW and Tropical Band SW listener. The LA30 is a rotating Loopstick antenna that uses active electronics for high selectivity and gain. The Palstar LA30 Loopstick Antenna is perfect for AM DXing, shortwave and low band listening without static crashes and RF noise from nearby devices or strong stations. Visit DXEngineering.com to see the full specs.

PAS-LA30 Indoor Loopstick Antenna **$395.95**

Genuine Palstar Accessories Enhance Your Listening Experience

PAS-SP30HC

PAS-SP30HB

Part Number	Description	Price
PAS-SP30B-B	SW Radio Speaker, tonally-matched to the R30A Receiver Compact design, offers excellent audio reproduction, black finish	**$99.95**
PAS-SP30B-C	SW Radio Speaker, tonally-matched to the R30A Receiver Compact design, offers excellent audio reproduction, cherry finish	**$99.95**
PAS-SP30HB	Ultimate Communications Speaker, handles up to 25 watts 6.5" speaker, optimized for voice audio reproduction, black finish	**$179.95**
PAS-SP30HC	Ultimate Communications Speaker, handles up to 25 watts 6.5" speaker, optimized for voice audio reproduction, cherry finish	**$179.95**

R30A Shortwave Receiver

This compact, high performance receiver covers the long wave, medium wave and short wave bands with a frequency range of 100 kHz to 30 MHz. It is also capable of receiving AM, CW and SSB mode signals. The R30A receiver is not desensitized on the LF and MW bands, making it ideal for standard broadcast band DXing.

The Palstar R30A Shortwave Receiver has simple controls, but it doesn't sacrifice performance. This receiver has outstanding strong signal handling, high sensitivity and a wide dynamic range to eliminate annoying intermodulation interference.

- +18 dBm 3rd order intercept
- 100 kHz - 29.9999 MHz AM, SSB (U/L)
- 20 Hz/100 Hz tuning steps, synthesized (low phase noise performance)
- Variable rate tuning: 20 Hz to 100 Hz and 100 Hz to 500 Hz
- 100 kHz up/down buttons
- 45 MHz 1st IF, 455 kHz 2nd IF
- RF derived AGC, fast/slow
- 4-pole crystal filter at 45 MHz IF
- 8-pole Collins torsional mode filters, 5.8 kHz AM and 2.5 kHz SSB
- 100-channel memory
- 5 watt low-distortion full fidelity audio amp
- Line audio output
- 455 kHz IF output
- Automatic switchable 7-pole input filters
- Portable battery operation
- 12V 1 Amp regulated wall transformer supplied

PAS-R30A Shortwave Receiver..... **$869.95**

MFJ-434B Contest Voice Keyer™

Let this microprocessor-controlled Contest Voice Keyer call CQ, send your call, and do contest exchanges for you in your own natural voice! You can record and play back five natural-sounding messages in a total of 75 seconds. EEPROM technology stores messages for up to 100 years with no battery backup needed.

You can repeat messages continuously and vary the repeat delay from 3 to 500 seconds. A receive audio jack lets you record and play back off-the-air signals—no more "please repeat." It makes a great voice beacon, too. This keyer requires a 9-volt battery, 9-15 Vdc power source, or 110 Vac with optional MFJ-1312D Wall Adapter. It uses an 8-pin modular or 8-pin round microphone plug.

MFJ-434B Contest Voice Keyer **$189.95**
MFJ-1312D Power Supply, 12 Vdc/500 Milliamp..... **$15.95**

Remote Control USB Encoder

This unit works with your RS-BA1 Remote Control Software and lets you control your radio without hassling with your computer's mouse. In other words, it actually feels like you're tuning a REAL radio! The module includes a PTT switch, large tuning knob and two extra programmable function keys. Visit DXEngineering.com for software and computer requirements.

ICO-RC-28 Remote Control USB Encoder **$259.95**

Additional Icom Radio Accessories

Part Number	Description	For Radio(s)	Price
ICO-MB-72	Carrying Handle Kit	IC-706	**$17.95**
ICO-OPC-581	Remote Separation Cable, 11.6'	IC-706	**$61.95**
ICO-OPC-1156	Remote Separation Cable, 11.5'	IC-2820H IC-2720H IC-R1500 IC-R2500	**$16.95**
ICO-UT-122	Digital Module to Add P25 Digital Receive Capability	IC-R2500 IC-R9500	**$199.95**

Lido Lets You Install Your Radio Practically Anywhere with Rugged, Safe and Versatile Mobile Mounts!

LDO-LM-801EXP

LDO-LM-500H

LDO-LM-300

LDO-LM-100H

LDO-LM-1202

LDO-LM-600

LDO-LM-900

LDO-LM-700

(Radios pictured are for illustration purposes only and are not included.)

Vehicle mounting solutions for many popular radio models and styles.

Cup Holder Mount

Here's a mounting solution that doesn't involve drilling or glue. The LM-801 settles into any cup holder. Then, with the twist of a knob, its base expands for a secure connection. Whether it's a mobile remote head or a handheld, this mount may be the perfect answer for your mobile installation. Call DX Engineering and we'll set you up with your radio's specific mounting attachment.

LDO-LM-801EXP Cup Holder Mount **$24.95**

LoBoy Mount

This low-profile mount is ideal for many handheld electronic devices, from Ham and satellite radios to cell phones and TFT video displays. The flexible mounting pad secures to any vehicle with super-strong 3M adhesive (which can be removed without damaging your interior). The LoBoy Mount uses the mobile industry's AMPS mounting point pattern to securely hold your radio. It is fully adjustable and works in a horizontal or vertical orientation.

LDO-LM-600 LoBoy Mount **$14.95**

Suction Cup Gooseneck Mount

Using a powerful suction cup, this mount secures to your windshield or side glass, placing your radio at eye level for easy visibility. The mount is easy to remove, and doesn't leave any residue so you can store your radio out-of-sight for added security.

The LM-400EXP uses your handheld's leather case, belt clip or mounting button to secure your radio.

LDO-LM-400EXP Suction Cup Gooseneck.....**$19.95**

Floor Mount

You simply attach the base of the flexible 15" gooseneck to your seat's mounting bolt to get a secure and versatile mount for your radio. From there, you can position the mount exactly where you want it. It uses the industry-standard AMPS mounting pattern to make installation a breeze.

LDO-LM-300 Floor Mount.....**$24.95**

Friction Base

Windshield suction-type mounts are prohibited in some states. As an alternative, Lido offers a Friction Base. The weighted bean bag has a non-skid surface to ensure the mount won't slide around. For added stability, there's a plastic hook that can be attached to your dash.

The open design in front gives you a smooth, flat surface where you can adhere your suction cup mount. It's universal too, compatible with many suction cup-style mounts from other manufacturers.

LDO-LM-25 Friction Base.....**$19.95**

Motorcycle Mount

Lido didn't forget about you two-wheelers. This rugged mount is made of marine-grade aluminum with stainless hardware and uses a U-bolt design to clamp directly to your handlebars. The LM-1000EXP Mount features a button-style mount that uses the belt-clip button found on many common phones, cases, HTs and mics.

LDO-LM-1000EXP Motorcycle Mount.....**$19.95**

Side Grip Adapters

If you've got an HT, cell phone, GPS, or remote head, Lido's Side Grip Adapter may be the best way to securely attach it to a mount. It has two arms that gently squeeze tight to hold your device; a simple push of a button releases the arms for easy removal. The adapter works with any Lido mount, opening up many mounting possibilities.

For smaller devices, check out the Narrow Side Grip Adapter, it works the same way as its larger counterpart, but is better suited for narrow-profile devices.

LDO-LM-H Side Grip Adapter.....**$14.95**

LDO-LM-H208 Narrow Side Grip Adapter.....**$12.95**

Microphone Hooks

Here's an easy way to mount your mic within arm's reach. The hooks attach to your dash with an included 3M adhesive pad, which is easily removed without leaving a residue. The LM-1202 Mount is made specifically for Yaesu and Kenwood-style mics. If you've got an Icom, you'll want the LM-1201 Mount.

LDO-LM-1201 Microphone Hook **$4.95**

LDO-LM-1202 Microphone Hook **$6.95**

Yaesu FTM-350 Mounting Adapter

This special adapter threads into the socket on newer-design display heads to resolve the mounting issues.

LDO-LM-AD1 Yaesu FTM-350 Mounting Adapter.....**$8.95**

Replacement Adhesive Disks

Moving your adhesive mounted installation? Here are high-quality 3M replacement adhesive disks made specifically for Lido mounts.

LDO-KIT1 Adhesive Discs for LM-400EXP and LM-500 Mounts **$4.95**

LDO-KIT2 Adhesive Discs for LM-600/700/900 Series Mounts.....**$5.95**

Friction Mount

This mount lets you put your mobile radio right in your line-of-sight, with easy access to the controls. It is compatible with Icom, Yaesu, Kenwood, Alinco, Elecraft and other popular radios. This two pound mount features a non-skid surface. On top, there's a place to attach Lido's LM-500 suction cup mount, in case you want to use the mount without the bean bag.

The Gripomatic side grip has padded arms to secure your transceiver, so you can use the mount even if you don't have your radio's specific remote head bracket.

LDO-LM-2500H Friction Mount.....**$39.95**

The BUG Mount

If you have a radio with a small, narrow-profile head (including popular satellite radios), then check out the BUG. It has two arms that can be positioned and aligned to support radio heads of varying sizes and mounting styles. The 3M adhesive mounting pad lets you mount the BUG on almost any flat surface, for ultimate flexibility. A complete installation guide and surface prep kit is included.

LDO-LM-900 The BUG Mount.....**$19.95**

Suction Cup Mount

Specifically tailored for your radio, this is the ultimate low-vibration mobile mount. It features two directional adjustment knobs and a telescoping shaft to position your radio perfectly.

LDO-LM-500H Suction Cup Mount.....**$24.95**

UltiMount Universal Mount

This mount can handle practically anything: Ham radios, satellite radios, cell phones, MP3 players, and even GPS systems. The Universal Mount lets you position your handheld electronics right where you need them. Included with this mount are two adhesive-backed buttons, a surface prep kit and belt clip.

LDO-LM-700 UltiMount Universal Mount.....**$24.95**

Vent Mounts

Trying to figure out where to mount your radio? Lido has a suggestion: your vents. Vents are often the perfect location, placing your radio within arm's reach and easy eyeshot. For security, you can remove this mount easily, away from prying eyes. We can supply you with you radio's specific mounting attachment—just call DX Engineering to get started.

LDO-LM-100H Side Grip Vent Mount.....**$24.95**

FREE Standard SHIPPING for Orders Over $99, See Page 58 for Details

Heil Sound Headsets Are the Best Way to Keep an Ear on Things!

HLS-PS-6

Pro Set 6 Headsets

These lightweight and versatile headsets let you stay in the action longer. The microphone uses the HC-6 element for unmatched performance, and the heavily padded earpieces ensure that you'll stay comfortable during long-haul contests. Pro Set 6 Headsets also include Heil Sound's exclusive phase reversal switch, which can significantly improve copy during pileups.

The iC Pro Sets feature a high-output electret condenser mic element that works well with the low-gain inputs on many Icom transceivers.

Pro Set Elite Headsets take comfort and performance up a notch, with larger, more heavily padded earpieces.

HLS-PS-6	Pro Set 6 Headset	**$139.95**
HLS-PSE-6	Pro Set 6 Elite Headset	**$169.95**
HLS-PSE-IC	Pro Set 6 Elite iC Headset	**$179.95**

HLS-PSE-6

Pro Micro Headsets

Outfitted with the same HC-6 element used in the Pro Set, these headsets are perfect for the serious amateur. The Pro Micro Headsets are fully adjustable for comfort and performance. They include a microphone windscreen and are available in both single side and dual side earphone variations.

HLS-PMD-6	Pro Micro Headset, Dual Side	**$99.95**
HLS-PMS-6	Pro Micro Headset, Single Side	**$78.95**

New!

Pro Set 3 Headphones

Setting a new standard for sound reproduction, these headphones offer exceptional articulation and quality. They include detachable cables that allow you to use the right cord for the environment. The cables terminate in an iPod-/iPad-compatible 1/8" plug with a gold plated, screw-on 1/4" adapter. The replaceable earpieces are heavily padded for comfort and are bound together with an internal steel headband.

Pro Set 3 Headphones are perfect for any audio, from a casual ragchew to your favorite Bach Concerto.

HLS-PROSET-3	Pro Set 3 Headphones	**$109.00**

Pro Set iC Headset

If you've got an older Icom receiver, you know that you need a mic that has a lot of gain to compensate for early Icom low-gain mic preamps. Heil Sound worked with Icom to develop the iC condenser mic element to give you a mic that boosts audio output.

This Pro Set Headset uses that innovative iC element, while incorporating the features that made the Pro Set series legendary. It comes with a 1/8" mic connector, 1/4" headphone connector, and a special AD-1-IC adapter cable for your Icom receiver.

HLS-PS-IC	Pro Set iC Headset	**$166.95**

New!

Pro Set Media Pro Headset

Made to work specifically with your computer, this award-winning headset delivers beautiful articulate audio. The earphones are acoustically tuned and use Heil Sound's exclusive phase-reversing feature to create a spatial widening effect that makes audio easier to discern. The mic element is also tailored to sound card input requirements.

Pro Set Media Pro Headsets are plug-and-play, with two standard 1/8" plugs that connect to the microphone and speaker jacks of your computer.

HLS-PSM	Pro Set Media Pro Headset	**$119.95**

MFJ-392B Communications Headphones

These headphones are perfect for amateur radio and shortwave listening in all modes—SSB, FM, AM, data, and CW in mono or stereo. Each earphone has an individual volume control. The padded headband and ear-cushioned design make listening extremely comfortable. The headphones handle 450 mW and have 100-24000 Hz frequency response. Impedance: 16 Ω at 1 kHz. Sensitivity: 102 dB/mW.

MFJ-392B	Communications Headphones	**$24.95**

Genuine Heil Sound Accessories to Complete Your Setup

HS-2 Pistol Grip Hand Switch

This ergonomic switch lets you key your transceiver when using a microphone that doesn't have a PTT switch or when noisy environments render VOX operation impossible. It installs easily, terminating in a 1/4" phono plug.

HLS-HS-2	Pistol Grip Hand Switch	**$31.95**

Single/Dual Channel Footswitches

These switches provide hands-free keying. You can even configure the dual switch to activate your RF Amplifier and transceiver in sequence. These sturdy steel switches are built to withstand even the hardest of stomps and they install quickly with a 1/4" phone plug.

HLS-FS-3	Single Channel Footswitch	**$25.95**
HLS-FS-2	Dual Channel Footswitch	**$44.95**

CB-1-PTT Microphone Base Stand

Improving upon a timeless design, these heavy, polished chrome bases include a PTT switch that can also be used as a "cough" switch. It uses standard mic mounting threads and a 24" jumper cable is included to make mic installation a breeze.

HLS-CB-1-PTT	Microphone Base Stand	**$78.00**

New!

SM-1/PRSM Microphone Shock Mounts

Using an 8-point suspension support system, these mounts fight off low frequency rumble and absorb noise caused by vibration and impact. The SM-1 is designed for slim-line Heil Sound microphones, while the PRSM is tailored to larger diaphragm professional-grade mics. It's important to check your microphone's fit before ordering.

HLS-SM-1	Shock Mount	**$80.00**
HLS-PRSM-B	Shock Mount, Black Finish	**$104.95**
HLS-PRSM-C	Shock Mount, Champagne Finish	**$104.95**

New!

Microphone Boom/Arm Mounts

Available in several styles, these genuine Heil Sound mounts are the ideal way to secure your boom and keep your valuable microphone safe.

HLS-FL-2	Flange Mount	**$28.00**
HLS-DT1	Desktop Flush Mount	**$35.00**
HLS-WM1	Vertical Surface Mount	**$22.00**
HLS-PL2CLAMPR	Replacement Mount for PL2T/SB-2/HB-1	**$22.00**

New!

Microphone Booms and Riser

Don't put your prized microphone on anything less than a professional-grade Heil Sound Boom. These quiet booms are sturdy and durable enough to go in the most active Ham shacks and sound studios. All booms are threaded to accept standard mic accessories and are the perfect compliment to your Heil Sound Microphone. The Riser is a great solution for mounting your boom behind your transceiver.

HLS-PL2T	Topless Proline Microphone Boom	**$120.00**
HLS-HB-1	Large, Articulated Microphone Boom	**$70.00**
HLS-SB-2	Straight Boom, 17" with Stealth C-Clamp	**$63.00**
HLS-RS1	Boom Riser	**$28.00**

MFJ-616 Speech Intelligibility Enhancer

"As I got older, my high frequency hearing loss was destroying…ham radio for me..." Martin F. Jue, K5FLU/President and Founder of MFJ Enterprises, Inc.

Developed by Martin Jue to compensate for his hearing loss, this enhancer significantly increases speech energy above 500 Hz where 83% of intelligibility is concentrated. Amateur radio communications limit audio to about 300 to 2700 Hz. The enhancer splits the audio band into four overlapping octave ranges centered at 300, 600, 1200 and 2400 Hz. You can boost or cut each range by nearly 20 dB to maximize speech intelligibility for most kinds of frequency loss.

Output audio is split into left and right channels with separate 2.5 watt amplifiers; a balance control lets you equalize the perceived loudness to each ear. The enhancer works with SSB, FM, AM, CW or any voice mode on ham, marine, aircraft, and CB bands.

MFJ-616	Speech Intelligibility Enhancer	**$179.95**

International Shipping is Quick and Easy! See Page 58 for Details

New!

Ham Station Console Desktop Microphone

Incorporating several key features in a single console, this microphone always sends clear audio at the optimum levels. Compression and level adjustments are at your fingertips. There's also a built-in graphic EQ so you can fine-tune your sound for maximum "punch" or eliminate specific background frequencies/noise.

In addition to the standard PTT/Lock functions, this console also gives you the ability to control your radio with frequency selection buttons. If you've got a Kenwood radio, then you can use the integrated Call, VFO, MR and PF controls. A VU meter lets you keep an eye on your output level. The microphone requires a 9V battery.

MFJ-299 Ham Station Console Desktop Microphone **$99.95**

Universal Microphone Converter

Use any 8-pin microphone with any 8-pin transceiver. Internal jumpers custom tailor each pin assignment. That means you won't have to ditch your favorite mic if you've upgraded to a new radio.

New!

MFJ-1251 Universal Microphone Converter **$22.95**

PTT Operator Foot Switch

New!

Keep your hands free for working your radio or computer, you'll be surprised how much quicker you get! This professional-grade switch is a perfect complement for a boom headset mic or for noisy areas where VOX operation is difficult.

MFJ-1709 PTT Operator Foot Switch **$19.95**

ALK-2 Audio Linear Key Switch

LDG Electronics' Audio Linear Key Switch is a two-port switch box that can be used to switch between ALC lines, keying lines, speakers, or anything else you'd need. It has one common jack and two switched sets of jacks in the back, with 1/8" stereo and RCA jacks in parallel. You can even pre-set or control the switch remotely using 12 Vdc.

LDG-ALK-2 Audio Linear Key Switch **$49.95**

USBQ Microphone Preamp

A microphone preamp, headphone amp, equalizer, and D/A converter in a compact package—complete with a balanced XLR input. This professional-quality mic preamp plugs directly into a USB port. No other external power is required. This small wonder makes desktop recording easy!

HLS-USBQ USBQ Microphone Preamp..... **$89.00**

PR 28 Microphone

At first glance, you might dismiss this as a simple "drumset" mic. However, if you look at its characteristics (wide frequency and quick transient response) you'll realize that it makes an ideal microphone for the Ham operator. It also has excellent rejection qualities, which makes it a great option if your shack has a lot of ambient noise from fans or fluorescent lights.

HLS-PR28 PR 28 Microphone..... **$149.00**

PR 20 Microphones

As do-it-all microphones, the PR 20 series can be a valuable asset in your shack. They have a large diaphragm that captures a wide range of frequencies, particularly tailored to the upper-mid range where the human voice resides. Three interchangeable mesh screens (gold, silver and black) are included, so you can make sure your PR 20 is a great-looking complement to your transceiver.

HLS-PR20 PR 20 Mic, Black Finish **$155.00**
HLS-PR20R PR 20 Mic, Red Finish..... **$199.00**

GM Series Microphone

The gold standard of radio microphones—Heil Sound's GM Series mics offer crystal-clear audio response. They feature an exclusive light-touch PTT switch and a 4-pin XLR connector, and include a mic clip and windscreen.

The GM Vintage Microphone is tailored to full-range articulate SSB audio, particularly when paired with some high-impedance inputs typically found on older tube-type equipment.

HLS-GM-V GM Series Vintage Microphone **$144.95**

Gold Elite Microphone

Heil Sound specifically crafts this microphone for the Ham radio community. The microphone includes two distinct dynamic elements, selectable with the flip of a switch. The "Wide" setting is ideal for general voice articulation. The "Narrow" setting accentuates the lower frequency range of human voice to help smooth out the audio response.

HLS-GM-ELITE Gold Elite Microphone ... **$144.95**

iCM Microphone

Owners of early Icom transceivers know that they don't have a lot of gain in the microphone preamp stage. Heil Sound gives you a boost with a mic specifically suited to those transceivers. Heil Sound worked closely with Icom engineers to build a mic with an excellent frequency response, coupled with a higher output to compensate for the lack of gain from early Icom transceivers.

HLS-ICM iCM Microphone..... **$109.95**

Handi Mic Microphones

HLS-HM-IC

HLS-HM-PRO

These mics are the answer to muffled audio response. Well-suited to Amateur radio use, they capture crisp, clean and articulate audio. Their rugged internal shock mount makes them a durable addition to your shack. They also feature low noise handling characteristics, making them great for use in mobile or field applications. A dash/wall mount and windscreen are included.

The Handi Mic iC uses a high-performance output specifically tailored to Icom transceivers. The Handi Mic Pro contains the wide-range broadcast element, ideal for VHF FM rigs.

HLS-HM-IC Handi Mic iC.....**$88.95**
HLS-HM-PRO Handi Mic Pro.....**$88.95**

Heil Sound Microphones—the First Step to a Crystal-Clear Transmission

"The Fin" Microphone

Classic style with cutting-edge performance: The Fin recreates a classic vintage vibe, but uses a voice coil similar to Heil Sound's modern PR 20 microphone. You get excellent frequency response, specifically in the human voice sweet spot.

But what really makes this mic stand out is the brilliant chrome finish and colored windscreen. For a final touch, activate the four hidden LEDs and the Fin will really make your shack shine.

HLS-FIN The Fin Microphone, Blue **$220.00**
HLS-FINR The Fin Microphone, Red **$241.00**
HLS-FINW The Fin Microphone, White **$241.00**

HM-12 Genesis Series Microphone

A Microphone designed specifically for you, the Ham radio operator. Made to work well with almost any low-impedance transceiver, this microphone is well suited to reproduce the human voice. It also features an internal windscreen to cut down on annoying P-pops. This mic uses a 4-pin XLR connector with a soft touch PTT switch wired to pins 3 and 4, while pins 1 and 2 carry audio.

HLS-HM-12 Genesis Series Microphone.....**$69.95**

PR 781 Microphone

Heil Sound gives you a professional-quality microphone that will provide years of service in your shack. Building upon the legendary PR 780, this dynamic cardioid microphone features a wide frequency response that retains the signature Heil Sound voice articulation.

The PR 781 works well with practically any high-quality transceiver. In fact, you'll find these same mics in use in many commercial broadcast studios.

HLS-PR781 PR 781 Microphone..... **$169.95**

PR 40 Microphone

With the widest frequency range of any dynamic mic in the PR series, this microphone is the workhorse of professional sound recording studios. It features a shock-mounted, low mass diaphragm, which gives you stellar sound reproduction in a durable chassis. An internal filter prevents dreaded breath blast and cuts down on P-pops, too. This microphone is simply one of the best all-around mics for audio engineers and Ham operators alike.

HLS-PR40 PR 40 Microphone..... **$327.00**

PR 30 Microphone

The PR 30 Microphone is packed with features you don't normally see at this price. It is ideal for the operator who doesn't want to compromise on audio reproduction. This mic uses a humbucking coil and shock-mounted diaphragm for virtually noise-free performance. The internal passive filtering cuts down on P-pops and minimizes hissing, making it a perfect compliment for your rig.

HLS-PR30 PR 30 Microphone..... **$252.00**

Cable and Adapters

These assemblies let you connect your Heil Sound mics and accessories to your transceiver. Depending on the application, they include the manufacturer-specific plugs for your mic/headset, PTT switch, and transceiver. If you need help choosing the right adapter, visit DXEngineering.com, select your mic or headset, and the "suggested parts" tab will show you some options.

Part Number	Description	Price
Icom		
HLS-AD-1-I	Pro Set 8-Pin Adapter Cable	$22.95
HLS-AD-1-IM	Pro Set Modular Adapter Cable	$22.95
HLS-AD-1-IC	Pro Set 8-Pin Adapter Cable	$22.95
HLS-AD-1-ICM	Pro Set Modular Adapter Cable	$22.95
HLS-CC-1-I	XLR4 to 8-Pin Mic Cable	$38.95
HLS-CC-1-IM	XLR4 to Modular Mic Cable	$38.95
HLS-CC-1-XLR-I	XLR3 to 8-Pin Mic Cable	$38.95
HLS-CH-1-I8	XLR4 to 8-Pin Mic Coil Cable	$25.95
HLS-CH-1-IM	XLR4 to Modular Mic Coil Cable	$25.95
HLS-HSTA-IC8	Traveler Headset Adapter, Icom 8-Pin	$25.95
HLS-HSTA-IM	Traveler Headset Adapter, Icom Modular	$25.95
HLS-HTA-IHT	Traveler Headset Adapter, Icom HT Dual Plug	$25.95
Kenwood		
HLS-AD-1-K	Pro Set 8-Pin Adapter Cable	$22.95
HLS-AD-1-KM	Pro Set Modular Adapter Cable	$22.95
HLS-CC-1-K	XLR4 to 8-Pin Mic Cable	$38.95
HLS-CC-1-K4	XLR4 to 4-Pin Mic Cable	$38.95
HLS-CC-1-KM	XLR4 to Modular Mic Cable	$38.95
HLS-CC-1-XLR-K	XLR3 to 8-Pin Mic Cable	$38.95
HLS-CH1-K8	XLR4 to 8-Pin Mic Coil Cable	$25.95
HLS-CH-1-KM	XLR4 to Modular Mic Coil Cable	$25.95
HLS-HSTA-K8	Traveler Headset Adapter, Kenwood 8-Pin	$25.95
HLS-HSTA-KM	Traveler Headset Adapter, Kenwood Modular	$25.95
HLS-HTA-KHT	Traveler Headset Adapter, Kenwood HT Dual Plug	$25.95
Yaesu		
HLS-AD-1-Y	Pro Set 8-Pin Adapter Cable	$22.95
HLS-AD-1-Y4	Headset 4-Pin Adapter Cable	$22.95
HLS-AD-1-YM	Pro Set Modular Adapter Cable	$22.95
HLS-CC-1-Y	XLR4 to 8-Pin Mic Cable	$38.95
HLS-CC-1-YM	XLR4 to RJ-45 Modular Mic Cable	$38.95
HLS-CC-1-XLR-Y	XLR3 to 8-Pin Mic Cable	$38.95
HLS-CH-1-Y8	XLR4 to 8-Pin Mic Coil Cable	$25.95
HLS-CH-1-YM	XLR4 to Modular Mic Coil Cable	$25.95
HLS-AD-100	Yaesu 8-Pin Round to 6-Pin Modular Adapter	$21.95
HLS-ADMY-817	Yaesu 8-Pin Mic to FT-817 Modular Adapter	$28.95
HLS-HSTA-YM	Traveler Headset Adapter, Yaesu 8-Pin Modular, RJ-45	$25.95
HLS-HSTA-YM6	Traveler Headset Adapter, Yaesu 6-Pin Modular, RJ-45	$25.95
HLS-HTA-VX	Traveler Headset Adapter, Yaesu 1/8" 4-Conductor Plug	$25.95
Miscellaneous		
HLS-HSTA-PC	Traveler Headset Adapter, Computer, Data/SP/Mic Plugs	$25.95
HLS-CC-1-T	Microphone Adapter, Ten-Tec, XLR4 to 4-Pin	$38.95
HLS-AD-1-C	Headset Adapter, Collins/Drake, 3/16" Plug, 1/4" Jack	$28.95
HLS-CC-1-C	Microphone Adapter, Collins/Drake, 4-Pin to XLR4	$47.95
HLS-CC-1-XLR-3	Mic Cable with Connectors, 3-Pin XLR Male to Female, 8'	$38.95
HLS-CC-1-XLR-4	Mic Cable Adapter, for XLR4 HM/GM Mics to XLR3	$38.95

Genuine Heil Parts and Accessories

If you want to give your mic or headset a tune-up, then Heil Sound offers you accessories and replacement parts to do it. If you're looking for a specific part, don't hesitate to let us know and we'll do our best to find it for you.

Part Number	Description	Price
HLS-BAG1	Headset Gear Bag for Pro Set	$27.95
HLS-BC	Boom Clip for Pro Set	$5.95
HLS-PS-EPC	Cotton Ear Pad Covers for Pro Set (Pair)	$6.95
HLS-EP-FOAM-PS	Foam for Pro Set Ear Pads (Pair)	$2.95
HLS-EP-PSP	Ear Pads for Pro Set Plus/Elite (Pair)	$8.95
HLS-EP-PMP	Ear Pads for Pro Micro/ New Traveler (Pair)	$8.95
HLS-EP-PS	Ear Pads for Pro Set Series (Pair)	$8.95
HLS-HMC	8-Pin Round Female Mic Connectors (Pair)	$8.95
HLS-HMCLIP	Clip for GM/HM/PR Mics, 5/8"-27 Thread	$9.95
HLS-WSHM	Windscreen for Handi Mic Series	$5.00
HLS-WSM	Windscreen for PR 20/35 and GM Mic	$5.00
HLS-WSPR40	Windscreen for PR 30 and PR 40 Mic	$20.00
HLS-WSPS	Windscreen for Pro Set Mic	$4.95
HLS-WSPSP	Windscreen for Pro Set Plus Mic	$4.95
HLS-WSTRAV	Windscreen for Traveler Headset Mic	$4.95
HLS-XLR-3F	3-Pin XLR Female Connector	$4.95
HLS-XLR-4M	4-Pin XLR Male Connector	$4.95
HLS-XT-1	High-to-Low Impedance Matching Transformer	$16.95

Heil Wire Bulk Microphone Cable

Specifically designed for mics, switches, keys, paddles, and other audio/control devices, this cable consists of two 18 AWG shielded internal wires plus 2 18 AWG wires external to the braid. Heil's cable is specially shielded to reduce hum, PTT pulses, and RFI. It is made to fit neatly into 1/4 inch connectors and receptacles.

HLS-HW-10 Heil Wire Microphone Cable, 10 Feet..... **$10.95**

HLS-HW-20 Heil Wire Microphone Cable, 20 Feet..... **$21.95**

Missing Something?

We can't put everything we carry in our catalog. If you need a part from one of our manufacturers and you don't see it here, you'll probably find it at DXEngineering.com. If it's not listed online, call us, and we'll gladly special order it for you.

RIGblaster Pro Digital Mode/Rig Control Interface

New!

This module is the easy way to connect your radio to your computer so you can start using over 100 existing sound card programs. It's easy to set up and operate. The front panel display shows signal level and PTT, CW and FSK control.

The interface is compatible with almost any radio and mic combo. A standard DB9 serial interface cable and USB cable is included, plus there are several interface cables available separately if you have a specific need. All the details on this powerful piece of gear can be found at DXEngineering.com

WMT-58002-953 RIGblaster Pro Interface, 120 Vac **$269.95**

WMT-58002-955 RIGblaster Pro Interface, 12 Vdc **$259.95**

RIGblaster Plus II Digital Mode/Rig Control Interface

New!

Compatible with practically every radio ever made, the Plus II Interface includes over 150 Amateur Radio programs. It works through your radio's mic connector and lets you unlock a world of digital operating modes.

Instant setup connectors make it easy to configure your mic input and the USB port makes operation practically plug-and-play. The USB port also facilitates positive PTT, CW/FSK keying and CAT/CI-V rig control. Read more at DXEngineering.com.

WMT-58005-1158 RIGblaster Plus II Interface, 12 Vdc **$159.95**

RIGblaster nomic Digital Mode/ Rig Control Interface

New!

Carry a RIGblaster in your pocket! This small and rugged module lets you operate digitally on your next Field Day or DXpedition—it can even work in your QRP rig. Just like its big brothers, the nomic works with almost every radio and gives you access to the latest digital modes.

You still get easy hookup and support for dozens of Ham software programs. No external power is required and it includes a standard DB9 serial cable and USB cable.

WMT-58008-959 RIGblaster nomic Interface **$59.95**

CW TOUCHkeyer

New!

If you're a blazing-fast CW operator and need a keyer that can keep up, here's your ticket. The paddles don't use any pressure, because there is zero paddle movement and no electrical contact. They keyer responds to your lightest touch without error.

Programming is easy; it uses less that 2mA and relies on either external or internal power. The keyer can be adjusted to suit your operating style and is good up to 50 WPM.

WMT-58142-1012 CW TOUCHkeyer **$118.95**

RIGtalk USB Computer Interfaces

New!

If your radio doesn't have a USB or serial port (but you desperately want one), West Mountain Radio comes to your rescue. It provides a USB interface for CAT and CI-V radios. That allows you to use any rig control or logging software that is compatible with your radio. It's small enough to stick in you pocket and is compatible with USB 2.0 and earlier.

The RIGtalk includes a CD-ROM with Windows drivers and is not for RS232 DB9-controlled radios.

WMT-58201-1004 RIGtalk USB Interface **$54.95**

WMT-58202-1005 RIGtalk USB Interface, Icom CI-V Cable **$56.95**

WMT-58203-1006 RIGtalk USB Interface, Yaesu DIN Cable **$61.95**

WMT-58203-1007 RIGtalk USB Interface, Yaesu DIN Cable, Not for FT-1000D **$64.95**

RIGblaster Plug and Play Digital Mode/Rig Control Interface

New!

Light, small, simple. Powered by your USB port, this interface is tailor-made for DXpeditions and Field Day. Despite its compact size, you get several key RIGblaster features including rig control, isolated audio and keying, control indicators and matched/RF suppressed audio. It's USB powered and Echolink-ready.

The interface works with most modern radios; you can check compatibility at DXEngineering.com.

WMT-58009-960 RIGblaster Plug and Play Interface **$119.95**

WMT-58012-1288

Digital Modes + Rig Control Interface!

West Mountain Radio RIGblaster Advantage

Connect the RIGblaster Advantage to your radio's microphone connector, and a computer USB connector and you'll have access to over 100 existing and future ham radio sound card software programs! You'll also get over 20 exciting modes that radio could not otherwise operate. The Advantage also links your computer software and radio using CAT, CI-V or DB9 interfaces cables.

WMT-58012-1288 RIGblaster Advantage **$189.95**

RIGblaster Cables and Accessories

To maximize the potential of your RIGblaster, there are adapters, kits and accessories.

Part Number	Description	Price
WMT-58107-971	RIG Control Cable for CI-V (Icom and Ten-Tec) Radios	$9.95
WMT-58108-972	CAT Cable for Yaesu FT-100/100D/817/857/897	$9.95
WMT-58108-974	CAT Cable for Yaesu FT-736/747/767/990/1000	$9.95
WMT-58214-1295	RIGblaster DB9F to DB9F Serial Cable	$9.95
WMT-58111-975	Instant Setup Quick Connector Kit for Icom, Yaesu, Kenwood	$19.95
WMT-58126-990	USB to R232 Radio Interface Cable	$23.95
WMT-58136-1000	4-/8-Pin to RJ-45 Conversion Kit	$18.95
WMT-58137-1001	AC Power Supply for RIGblaster M8, Plus, Pro	$14.95
WMT-58140-1010	Replacement Sound Card Software CD-ROM	$9.95

RIGblaster Digital Mode Interface Cables

New!

These cables connect your RIGblaster to your radio. There are cables available for many specific models and digital modes. There are even cables that can actually key your CW jack on your radio for true FSK/RTTY transceiver inputs.

Part Number	Description	Price
WMT-58112-976	8-Pin Mic to Sound Card, 36"	$18.95
WMT-58112-977	8-Pin Mic to Sound Card, 72"	$18.95
WMT-58112-978	4-Pin Mic to Sound Card	$18.95
WMT-58115-979	RJ-45 Modular, 36"	$9.95
WMT-58115-980	RJ-45 Modular, 72"	$14.95
WMT-58118-982	RJ-11 Modular	$18.95
WMT-58119-1374	3-Plug Cable for Wouxun-KWD, Set-Up Connector	$32.95
WMT-58119-1431	3.5mm TRRS Cable for Elecraft K3	$18.95
WMT-58119-1432	RS-232, DB9F, for Kenwood	$9.95
WMT-58120-984	Stereo 3.5mm for Keyboard CW, with 1/4" Adapter	$9.95
WMT-58129-993	8-Pin DIN, 36"	$18.95
WMT-58102-966	8-Pin DIN, 6"	$9.95
WMT-58129-994	9-Pin DIN, for Icom FSK Input	$9.95
WMT-58129-995	13-Pin DIN, for Icom FSK Input	$18.95
WMT-58131-996	RCA to Stereo 3.5mm	$18.95
WMT-58131-997	6-Pin Mini-DIN	$18.95
WMT-58131-998	4-Pin DIN, for RTTY	$18.95
WMT-58131-999	13-Pin DIN, for Kenwood FSK Input	$18.95

More cables are available at DXEngineering.com.

USB to RS232 Radio Interface Cable

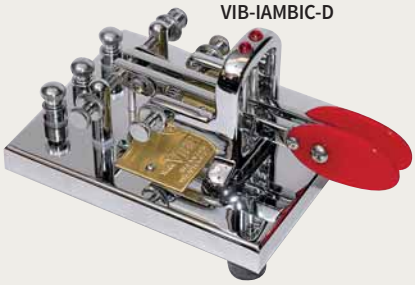
New!

Give RS232 connectivity to your computer. Go from USB to RS232 male OR female with the included adapter. A link to all the drivers you'll need is at DXEngineering.com.

WMT-58206-1009 USB to RS232 Radio Interface Cable **$33.95**

VIB-VIBROKEYER-D

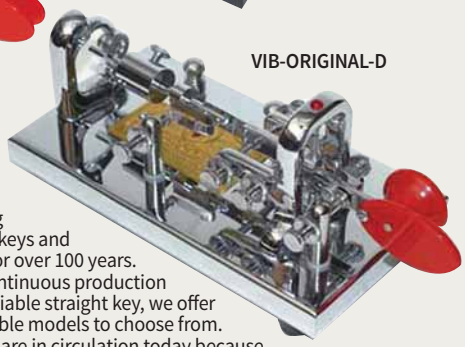
VIBROPLEX


VIB-IAMBIC-D

VIB-HK-STD

VIB-CODEWARR-JR

VIB-IAMBIC-D


VIB-ORIGINAL-D

Vibroplex Keys and Accessories

Vibroplex has been a leading manufacturer of quality CW keys and amateur radio accessories for over 100 years. From the Original Bug (in continuous production since 1905) to the always-reliable straight key, we offer a wide selection of dependable models to choose from. Over 300,000 Vibroplex keys are in circulation today because of their durability and unwavering performance.

Keys

VIB-BLRACER-STD	Blue Racer	$199.95
VIB-CODEWARR-JR	Black Code Warrior Jr.	$99.95
VIB-IAMBIC-S	Iambic Paddle Standard	$149.95
VIB-IAMBIC-D	Iambic Paddle Deluxe	$189.95
VIB-IAMBIC-P	Iambic Paddle Presentation	$269.95
VIB-IAMBIC-G	Iambic Paddle Gold	$289.95
VIB-VIBROKEYER-S	Vibrokeyer Single Paddle Standard	$149.95
VIB-VIBROKEYER-D	Vibrokeyer Single Paddle Deluxe	$189.95
VIB-VIBROKEYER-G	Vibrokeyer Single Paddle Gold	$299.95
VIB-ORIGINAL-S	Original Bug Standard	$189.95
VIB-ORIGINAL-D	Original Bug Deluxe	$239.95
VIB-ORIGINAL-P	Original Bug Presentation	$299.95
VIB-ORIGINAL-G	Original Bug Gold	$369.95
VIB-HK-STD	Straight Key Standard	$149.95
VIB-HK-DELUXE	Straight Key Deluxe Chrome	$189.95
VIB-HK-GOLD	Straight Key Gold	$299.95

Accessories

VIB-DC-VIBRO	Dust Cover for HK/Iambic/Vibrokeyer	$32.95
VIB-DC-ORIG	Dust Cover for Original Bug	$33.95
VIB-DC-RACER	Dust Cover for Racer	$29.95
VIB-DC-BY	Dust Cover for Bencher BY Series	$32.95
VIB-405-CCS	Contact Cleaner Abrasive Strip	$4.95
VIB-CP-2	2-Conductor Cable 1/4" Plug (Bug or Hand Key)	$9.95
VIB-CP-3	3-Conductor Cable 1/4" Plug (Paddles)	$9.95
VIB-CP-3-3-5MM	3-Conductor Cable 3.5mm Plug (Paddles)	$9.95
VIB-COFFEMUG	Vibroplex Coffee Mug	$8.95

VIB-DC-VIBRO

VIB-COFFEMUG

VIB-CP-2

KENT KMK
KENT MORSE KEYS GERMANY

New!

Straight Keys

Engineered to the strictest standards, these Kent Keys are precision-machined from solid brass. They feature silver plated contacts and ball race bearings for tight and smooth operation. You can easily fine-tune these keys by using the knurled-head adjustment screws.

You can select from the SK-1 Key, with a beautifully finished wood base, or the KT-1 Key, with a steel base and a sleek black finish.

KMK-KT-1	Straight Key, Wood Base	$178.95
KMK-SK-1	Straight Key, Steel Base	$154.95

KENT KMK
KENT MORSE KEYS GERMANY

New!

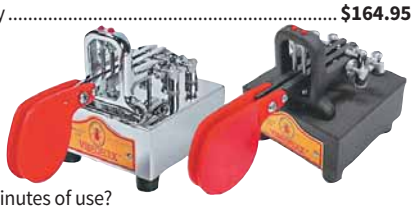
Single and Double Paddle Keys

Made with versatility in mind, these keys can be adjusted to your precise operating style. Thanks to the paddles' unique spring design, you can change left and right spring tension separately. Adjustment is easy, with large knurled screws.

Like all Kent Keys, the mechanisms are machined from solid brass and use a quality ball race bearing. A heavy steel base keeps the paddles stable and the intuitive gap settings ensure a positive "feel."

KMK-SP-1	Single Paddle Key	$159.95
KMK-TP-1	Twin Paddle Key	$164.95

VIBROPLEX



Vibrocube

How many times have you had to reposition your paddles after a few minutes of use? Smaller, lightweight paddles can slide around your table, causing frustration and aggravating delays. Vibroplex tackles this problem head-on with the Vibrocube. These heavy-duty paddles tip the scales at over six pounds! They're made of steel, zinc and brass for a durable and stable iambic paddle—ideal for the enthusiastic CW user.

VIB-VIBROCUBE-D	Vibrocube Deluxe	$289.95
VIB-VIBROCUBE-SU	Vibrocube Standard Upgraded	$219.95
VIB-VIBROCUBE-S	Vibrocube Standard	$189.95

BENCHER, INC.

Bencher Keys and Accessories

Equip your station with the performance of Bencher keys and accessories. All Bencher products are fabricated and assembled by skilled professionals in the USA, using the finest materials for superior performance and durability.

Keys

BNR-RJ-1	Hand Key, Black Base	$139.95
BNR-RJ-2	Hand Key, Chrome Base	$159.95
BNR-BY-1	Iambic Paddle, Black Base/Chrome Parts	$119.95
BNR-BY-2	Iambic Paddle, Chrome Base and Parts	$154.95
BNR-ST-1	Single Lever Paddle, Black Base/Chrome Parts	$129.95
BNR-ST-2	Single Lever Paddle, Chrome Base and Parts	$154.95

Accessories

BNR-EZ-1	4' Hook-Up Cable Kit, 1/8" & 1/4" plugs	$12.95
BNR-YA-1	Low Pass Filter, 1.8 to 29.7 MHz	$129.95
VIB-DC-BY	Dust Cover for BY Paddles	$32.95

MFJ

MFJ-464 CW Keyer/Reader

Build your ultimate CW station! You can send CW or load messages with your paddle, keyboard or your computer's serial port. The MFJ-464's AutoTrak feature locks on, tracks and displays CW up to 99 WPM. Using this keyer is easy, thanks to its large LCD screen, intuitive interface and internal speaker. You can repeat messages, adjust from normal to Farnsworth spacing, insert pauses and even embed commands to automatically change weight or speed.

MFJ-464	CW Keyer/Reader Unit	$189.95

RTR-1A Antenna Receive Interface

If you have a standard transceiver without a separate receive input port; but you want to enjoy the advantages of a separate receive antenna, DX Engineering has the perfect solution. Connect an external receive-only antenna to your transceiver with this interface, or add a TX/RX switch to your older gear, insert a receive preamplifier and add interfacing antennas to phasing or noise cancelling systems. The RTR-1A also provides failsafe protection to the unswitched receive antenna port on your expensive transceiver.

This Active Receive Interface handles 200 watts, supports full break-in CW and uses a patented* low-noise receive antenna limiter circuit. It is RoHS-compliant and well suited for use from 1.8 MHz to 30 MHz.

DX Engineering's Active Receive Interface is an invaluable accessory for your shack, allowing you to expand and improve your antenna connection systems. All the details on this innovative unit are at DXEngineering.com.

DXE-RTR-1A Receive Antenna Interface **$159.95**

***US Patent 8,175,546**

Receive Feedline Current Choke

The Receive Feedline Current Choke (RFCC) is the most effective solution to common-mode noise or unwanted signal ingress in receiving systems available. It provides thousands of ohms isolation between the input and output coaxial shield connections while passing desired signals, including DC or low frequency AC control signals. The RFCC has extremely high isolation impedance, which effectively blocks common-mode noise or unwanted signals, even in the presence of very poor grounding. The RFCC is effective from 300 kHz to 30 MHz. It comes with standard type F female connectors, although it can be used in any 50 to 75 Ω receiving system.

DXE-RFCC-1 Receive Feedline Current Choke, 50/75 Ω, 0.3-30 MHz **$69.95**

Feedpoint Voltage Coupler

- Inject control voltages onto feedline
- Injects +/- 12 Vdc or 12 Vac
- For use with DXE-RBS-1P Reversible Beverage System or Remote 2-Position Switch DXE-RLS-2
- AC supply included

DXE-FVC-1 Feedpoint Voltage Coupler **$89.95**

Time Variable Sequence Unit

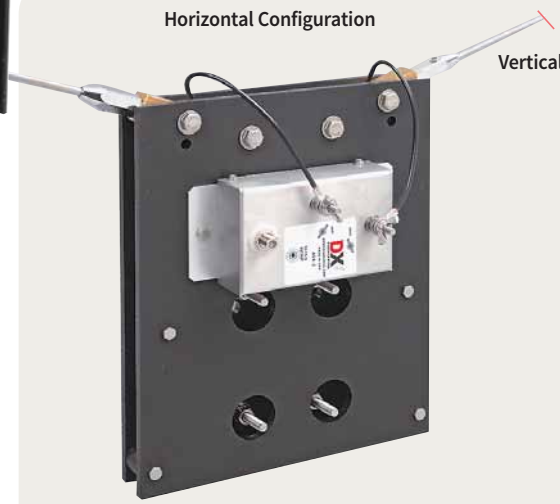
Protect your active antennas, transmit/receive relays and other equipment with the DX Engineering Sequencer. You have full control of the timing between your rig and amplifier. This microprocessor-controlled device provides 0-30 milliseconds of delay in 2 millisecond steps to as many as five outputs tied to the key-in line. You can sequence the switching of critical devices such as the transmit/receive relay, amplifier, and exciter.

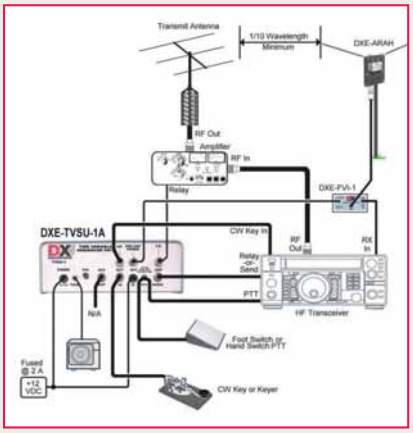
In addition, the DXE-TVSU-1A has an internal side tone generator for CW. You listen to what you are keying while it is being held in the bucket brigade delay for transmit after the programmed delay. The side tone is adjustable from 300 to 1000 Hz in 50 Hz steps.

Benefits

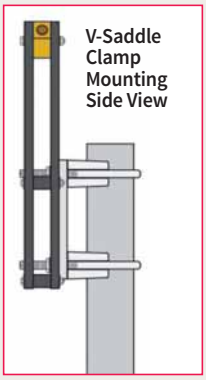
- Control timing on PTT turn-on, hang delay of PTT, hang delay of amplifier, hang delay of antenna relay, and turn-on delay of auxiliary output
- Dip switch settable delays of 0-30 milliseconds in 2 millisecond steps
- Side tone generator that follows input of keyer or hand key, not transmitter
- Side tone can be programmed for 300-1000 Hz in 50 Hz steps, adjustable volume
- Supports CW full break-in
- Allows use of our Active Receive Antennas in close proximity to transmit antennas

DXE-TVSU-1A Time Variable Sequence Unit **$199.95**





< ARAH system located between 1/10-wavelength and 1/2-wavelength from the transmitting antenna, connected to a transceiver with a receive input using the DXE-TVSU-1A Time Variable Sequencer Unit for proper switching.



Active Receive Antenna Systems

DX Engineering's Active Receive Antenna Systems offer excellent receiving performance using a 102" whip antenna. The unique design is vastly superior to traditional active antennas in both signal handling and feedline decoupling. You get significantly better weak signal reception.

Available in vertical or horizontal dipole configurations, the systems include a non-conductive mounting plate, clamps, active matching system, and the 102" stainless steel whip elements. The horizontal dipole element uses two 102" whips for an overall length of 210"; the vertical configuration uses a single whip. Whip antennas have excellent wind survival and are very inconspicuous.

When space is limited, use the DXE-ARAV3-1P or DXE-ARAH3-1P in conjunction with the DXE-TVSU-1 to provide for operation within 1/10-wavelength of a transmit antenna. The active antennas have relay protection to prevent overload of the transmit signal. The DXE-TVSU-1A sequencer controls switching times to ensure the receive system is protected before transmit power is applied. Use the DXE-ARAV3-4P, DXE-TVSU-1A and DXE-RFS-2 to provide four-square operation within 1/10-wavelength of a transmit antenna.

The vertical configuration can be used as a single element or in combination with DX Engineering's RFS-2 Receive Four-Square Antenna System to build a broadband directional array that can be switched in four directions to peak the signal or null out noise. Vertical configurations are for suburban or rural locations with low levels of ground wave propagated noise. The dipole configuration makes a very sensitive, horizontally polarized receiving antenna. Horizontal polarization can greatly reduce ground wave propagated noise in congested urban environments. Light weight and low wind resistance reduces support requirements. The output connector is a Type F, allowing use of readily available high performance CATV feedlines and connectors .

Features

- Sensitive—weak signal sensitivity rivaling full size antennas
- Wide bandwidth—100 kHz to 30 MHz
- Excellent strong signal handling—outstanding third order intercept of +30 dBm
- Reduced noise—quiet FET followers and high feedline shield isolation
- Easy mounting and installation—pre-drilled mounting plate and universal clamps

DXE-ARAH3-1P Active Receive Antenna, Horizontal Configuration with Relay **$349.95**

DXE-ARAV3-1P Active Receive Antenna, Vertical Configuration with Relay **$248.95**

DX Engineering Receive 8 Circle Packages

These packages are built around the DX Engineering Receive 8 Circle Array Controller and the EC-RCA8 Receive Eight Circle Control Console. They are designed to be used with eight identical, symmetrically-spaced vertical elements—active or passive—to provide switching for an eight-direction receiving antenna system. (Passive elements will generally provide you with a monoband receiving system).

The Receive 8 Circle system uses time-delay phasing (rather than conventional narrow-band, frequency dependent phasing) to provide eight 45 degree-spaced directional patterns. The time-delay phasing is directivity-optimized to produce wider and deeper rear nulls and a narrower main lobe. The result is greatly reduced noise and undesirable signals for a superior front-to-rear ratio (F/R). Better control of phase and currents provides a cleaner pattern than found on vertical antenna transmit arrays.

The system also offers greater reliability in receiving applications. The RC8 controller uses sealed relays—sized for receiving applications—with oxidation-resistant silver contacts. Most transmitting four-square switches use large open-frame relays with exposed brass contacts, which can lead to contamination, oxidation, and poor conductivity.

The DXE-RCA8B-SYS-2P Controller and Switch Package includes:

- DXE-RC8B-1 Receive 8 Circle Array Controller
- DXE-EC-RCA8 Receive 8 Circle BCD Control Console
- DXE-SSVC-2P Stainless Steel V-Clamp for mounting the RC8B to a 1-2" O.D. post

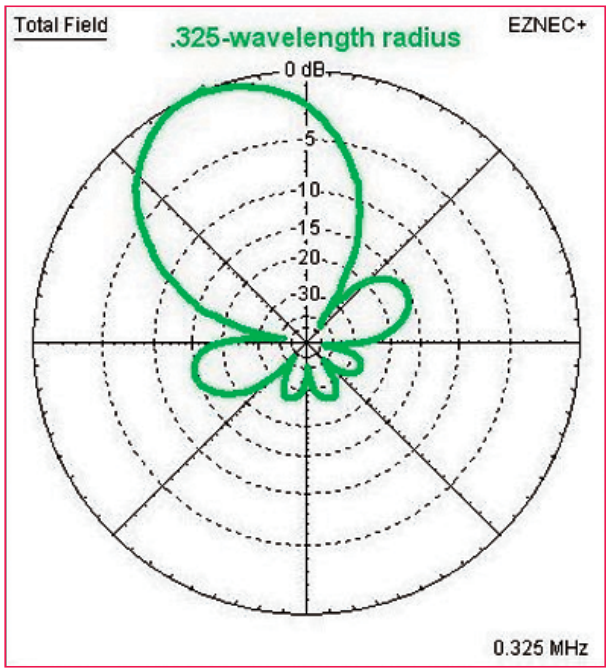
The DXE-RCA8B-SYS-3P Electronics Package
Includes everything from DXE-RCA8-SYS-2P, plus:

- Eight DXE-AVA2 Active Voltage Amplifiers with internal disconnect relays
- DXE-RPA-1 Receiver Preamplifier, 0.3-35 MHz
- Custom-made delay line—75 Ω F6 flooded coaxial cable with Snap-N-Seal® connectors installed

The DXE-RCA8B-SYS-4P Complete Electronics Package
Includes everything from DXE-RCA8-SYS-2P, plus:

- DXE-ARAV3-8P Active Receive Antenna Array Package (see below)
- Two DXE-F6-1000 F6 flooded coax cable, 75 Ω (1,000' each)
- DXE-CPT-659 Coax Cable Prep Tool
- DXE-SNS-CT1 Snap-N-Seal® crimp tool for 75 Ω coax
- DXE-SNS6-25 Snap-N-Seal® connectors for F6 coax, 25 pieces

DXE-RCA8B-SYS-2P Receive 8 Circle Controller and Switch Package **$498.95**
DXE-RCA8B-SYS-3P Receive 8 Circle Electronics Package..... **$1,497.95**
DXE-RCA8B-SYS-4P Receive 8 Circle Complete System Package..... **$2,575.00**



DXE-RFS-SYS-4P
Complete Package

Receive Four-Square System

- W8JI design
- Excellent directivity in a small space for better signal-to-noise ratio
- Switchable in four 90 degree spaced directions
- Reduced susceptibility to high angle signals compared to EWE, Flag, Pennant, or K9AY arrays
- Operates from 100 kHz to 30 MHz
- Each complete system package includes four active vertical antennas, RFS-2 switch, CC-8A controller, 1,000 feet of F6 flooded cable, connectors and tools
- TVSU-1 Time Variable Sequencer Unit included to protect active antennas installed as close as 1/10-wavelength from transmitting antenna

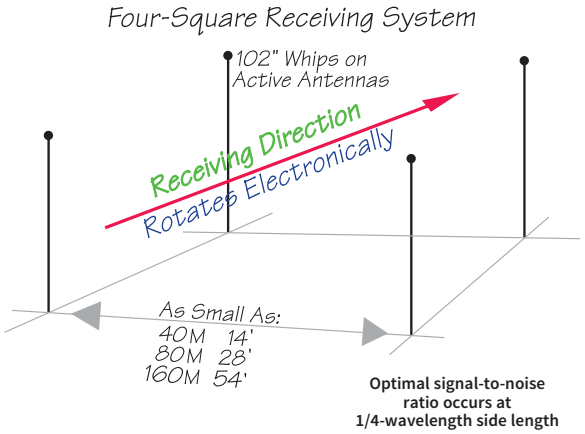
DXE-RFS-SYS-4P Receive Four-Square System Package **$1,650.00**
DXE-RFS-SYS-2P Four-Square Controller and Switch Package..... **$343.95**
DXE-RFS-SYS-3P Four-Square 160/80/40M Electronics Package **$799.00**
DXE-EC-4 Four-Square Controller, 4-Position BCD Output..... **$89.95**
DXE-TVSU-1A Time Variable Sequencer Unit **$199.95**

System components also available individually.

Complete Electronically Steered Receiving System

- More than 5 S-units of front-to-back on optimized systems
- Works best on 160M, 80M and 40M
- Like having a rotatable Beverage antenna
- Fits in YOUR yard!
- Easily installed—no radials required

Want to know what people are saying aboout this system?
Visit: www.eham.net/reviews/detail/5336



DXE-ARAV3-8P Active Receive Antenna Array Package

The DX Engineering Active Receive Antenna Array Package contains eight DXE-ARAV3-1P Active Receive Antennas. They offer excellent receiving performance from 100 kHz to 30 MHz while using only 102" whips as the vertical elements. This results in significantly better weak signal reception due to lower spurious signal interference and reduced noise. The package also includes mounting blocks, wiring, and mounting clamps.

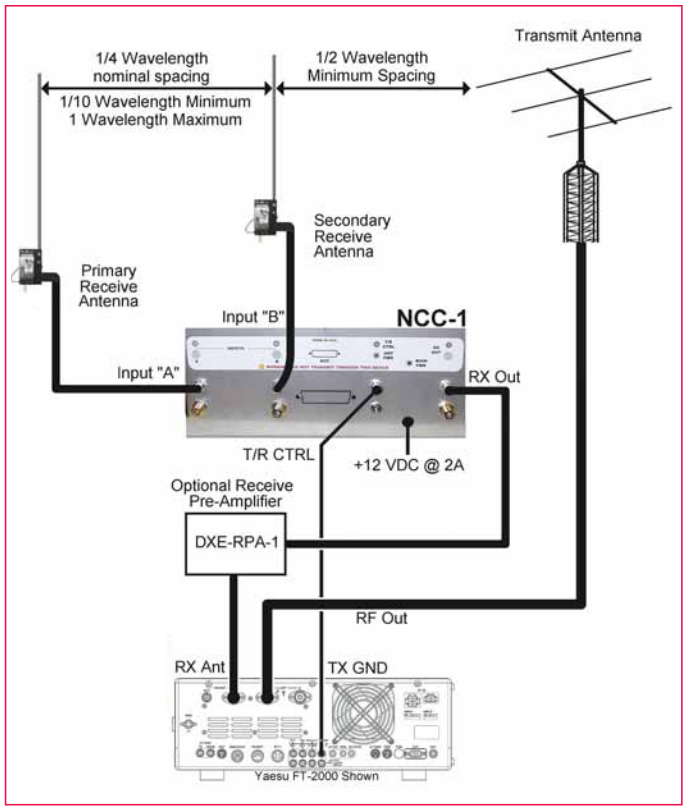
DXE-ARAV3-8P Active Receive Antenna Array Package..... **$1,991.60**

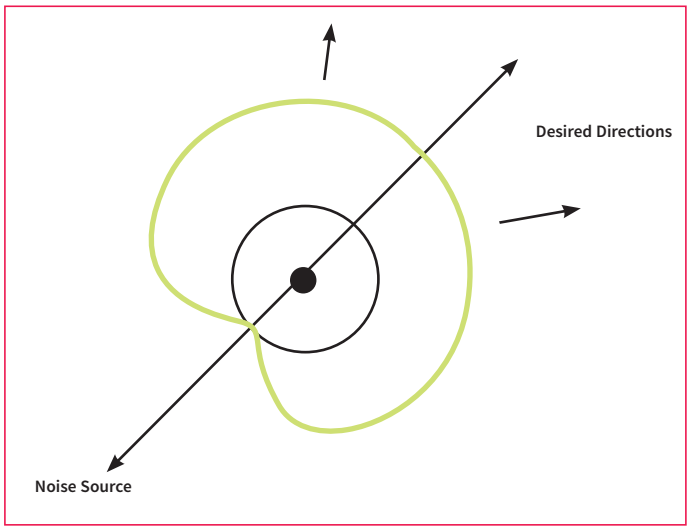
Typical Installation for DX Engineering NCC-1

This diagram shows the DX Engineering NCC-1 in a station with a single transceiver that has a separate receive antenna port. The two active receive antennas are shown deployed in the recommended position. The DX Engineering RPA-1 Preamplifier is normally not needed as most of today's transceivers have built-in preamps to compensate for overall lower signal levels obtained from small receive-only antennas. **What is most important is the NCC-1's ability to improve the overall signal-to-noise ratio and null out interference from other directions.**

The diagram shows the transceiver keying line set up to allow the NCC-1 to shut off the power to the DXE Active Receive Antennas, which have an internal relay which grounds the antenna for protection from TX RF.

The DX Engineering NCC-1 can be used with many receiving antenna combinations including Single and Reversible Beverages, Receive Four-Square Arrays, K9AY Loops, and more. It will increase the directivity of any properly spaced combination of two similar antennas as long as the signal levels are within the range of the balancing controls.



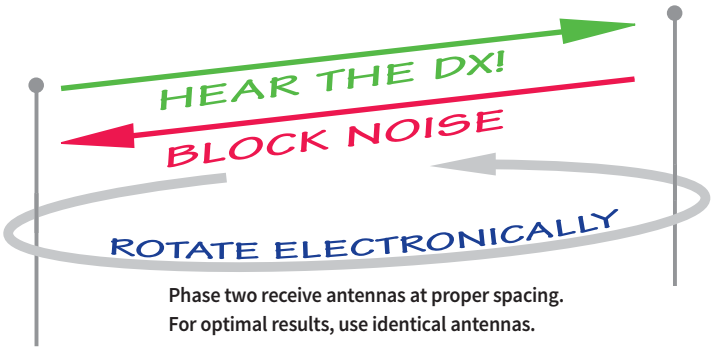


Receive Antenna Variable Phasing Controller & Noise Canceller

Allows control of signal level and phasing of two receive antennas—see specifications below. It is available separately for those who want to design their own variable receive antenna system.

DXE-NCC-1 Receive Antenna Variable Phasing Controller **$599.95**

See NCC-1 specifications below.



Phase two receive antennas at proper spacing.
For optimal results, use identical antennas.

Electronically Rotatable Receive Antenna System

Phased receive-only antenna systems are used to create a directional pattern which can peak desired signals and remove interfering signals. Variable phase nulling allows an operator to improve reception by electronically reducing a stronger interfering signal arriving from a different direction. It also can dramitically reduce noise.

This system includes two Active Receiving Vertical Antennas and the DXE-NCC-1 Receive Antenna Variable Phasing Unit. It combines the two verticals to produce a steerable directional array.

The system improves your reception of weak DX by:

- Combining two omni-directional antennas to produce an adjustable directional pattern
- Reducing overload from a strong signal in a different direction
- Reducing interference from distant signals or noise in a different direction
- Nulling directional strong signals to hear weak stations on the same frequency

Features

- Vertical antenna elements only 102" long
- Ideal for Amateur Radio or Shortwave listening
- Antenna elements are grounded when power is turned off
- Use with DXE-TVSU-1A sequencer for best protection before transmitting

NCC-1 Phasing Unit Specifications

- Usable Frequency Range: 300 kHz to 30 MHz
- Optimum Performance Range: 500 kHz to 15 MHz
- Third Order Output Intercept: +32 dBm each input, +38 dBm both inputs combined
- Gain Flatness: +/- 1 dB over complete phase rotation
- Gain: Adjustable from 0 dB to -40 dB
- Available Phase Rotation: >360 degrees between 500 kHz and 15 MHz
- Power: NCC-1 +13 Vdc nominal @ 1A minimum (2A recommended)
- Antenna Port Power: 10-30 Vdc @ 300 mA maximum, TX muting available

DXE-AAPS3-1P Active Antenna Phasing System.....**$1,099.95**

Noise Cancelling Signal Enhancers

Made to combat strong sources of RFI, either from other stations or unusual noise, these enhancers help boost the signals you want while attenuating the signals you don't. More powerful than a basic noise blanker, the enhancers can negate or cancel all types of noise and interference. They both cover 1.8 to 30 MHz with 290 degrees of phasing; the deluxe version adds an attachable indoor whip. For all the details, visit DXEngineering.com.

MFJ-1025 Noise Cancelling Signal Enhancer **$169.95**
MFJ-1026 Deluxe Noise Cancelling Signal Enhancer..... **$189.95**

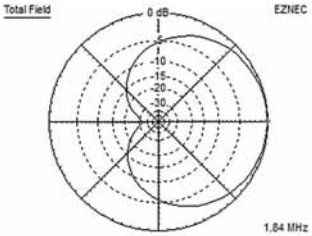
DX Engineering is Now Your Exclusive Hi-Z Dealer

DX Engineering is happy to bring you quality HF Directive Receiving Arrays from Hi-Z Antennas. For over five years, Hi-Z Antennas has been engineering and perfecting antenna designs with one goal in mind: creating superior products. Now, through an exclusive partnership, you get high-quality Hi-Z Antennas with the customer service you expect from DX Engineering. For all of Hi-Z's products, visit DXEngineering.com.

New!

Certain Hi-Z system products are being manufactured and sold as permitted under the terms of a certain License Agreement among PDS Electronics, Inc. dba DX Engineering, as the Licensor, and Hi-Z Antennas and Lee Strahan, as the Licensees.

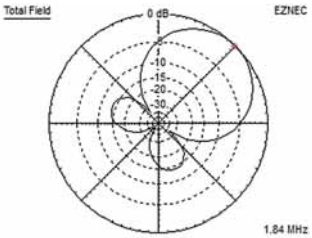
3-Element 4-Direction Systems



This receiving antenna system's L configuration makes it perfect for small lots. It uses three shortened elements that still provide 4-direction switching. A typical 50 foot layout of 20 foot tall elements and Hi-Z amplifiers can provide 30 dB of front to back ratio on 160 meters. This system is well suited for the 160, 80 and 40 meter bands, yet can still receive below the broadcast band to 30 MHz. It requires 13.8 Vdc via a 4-conductor cable: 13.8V, GND, CTRL1 and CTRL2.

HIZ-2-3 3-Element 4-Direction System **$439.00**

3-Element Triangular Array Systems



These 3-element receive phased vertical arrays offer excellent performance with a small footprint. Their scalable design means you get six switchable directions and you can configure for best RDF or F/B Ratio. Since there's no sequencing, the systems thrive in high-RF fields—ideal for those running QRO nearby. (These are also great contesting setups.)

These systems operate on the 160, 80 and 40 meter bands but can be used from below the broadcast band to over 30MHz. A typical 50 foot triangular layout of 20 foot tall elements and Hi-Z amplifiers can provide 30 dB of front to back ratio on 160 meters. They use 13.8 Vdc and a 6-conductor control cable.

HIZ-3-LV2-40 3-Element, 6-Direction System, 40' Spacing **$705.00**

HIZ-3-LV2-50 3-Element, 6-Direction System, 50' Spacing **$705.00**

4-Element Array Systems

This new and unique circuit configuration uses Tri-Phase combining for extra accurate phasing and amplitude stability. This improves performance while also minimizing these systems' footprints. You configure them for optimal RFD and F/B ratio and select from four possible receive directions. Their unique design makes them great options for high-RF areas.

The systems cover 160, 80 and 40 meters, from below the broadcast band to over 30 MHz. A typical 80 foot square layout of 20 foot tall elements and Hi-Z amplifiers can provide 30 dB of front to back ratio on 160 meters.

They take 13.8 Vdc via 4-conductor cable, and you can easily upgrade to the Hi-Z 4-8 Pro.

HIZ-4-LV2-60 4-Element, 4-Direction System, 60' Spacing **$809.00**

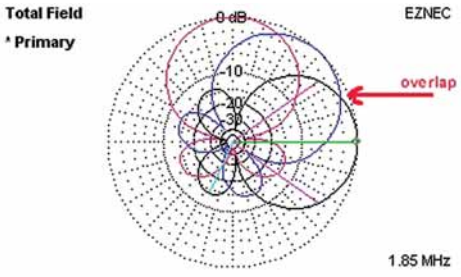
HIZ-4-LV2-80 4-Element, 4-Direction System, 80' Spacing **$809.00**

8-Element Array Systems

These ultra high-performance monoband arrays feature excellent performance in a small space. All the elements are active in a circle, to provide stellar receive capabilities in eight directions. The F/B Ratio of the Hi-Z 8-element array outperforms long Beverage and various loop antennas. The Hi-Z 8A has a preamp external (post) phase controller, making any necessary filter insertion easy. The systems use 13.8 Vdc and a 7-conductor control cable.

HIZ-8A-LV2-80-1 8-Element, 8-Direction System, 80M, 100' Spacing **$1,488.00**

HIZ-8A-LV2-160-2 8-Element, 8-Direction System, 160M, 200' Spacing **$1,488.00**



4-8PRO 8-Element Tri-Band Array System

Using a new and unique circuit configuration, these antennas are essentially two interleaved Hi-Z 4S systems. They feature Tri-Phase combining to give you super-accurate phasing and amplitude stability, as well as the least attenuation at all eight overlap points.

A typical 113 foot diameter layout of 20-24 foot tall elements and Hi-Z amplifiers can provide 30 dB of front to back ratio with 8 directions. These systems perform well in high-RF fields. They cover 160, 80 and 40 meters, and are powered by 13.8 Vdc through a 5-conductor control cable.

HIZ-4-8P-LV2-85 8-Element 8 Direction System, 85' spacing..... **$1,303.00**

HIZ-4-8P-LV2-113 8-Element 8 Direction System, 113' spacing..... **$1,303.00**

Vertical Antennas

The perfect addition to your Hi-Z system, these aluminum telescopic vertical antennas are easy to build and install. Each antenna collapses to just six feet tall and is made to withstand the elements. They include an earth mount, jumper wires for amplifier hookup, and a weather resistant cover for your amplifier.

HIZ-AL18 17.5' Vertical Antenna..... **$131.00**

HIZ-AL24 23.25' Vertical Antenna..... **$137.00**

Antenna Amplifier PLUS-6

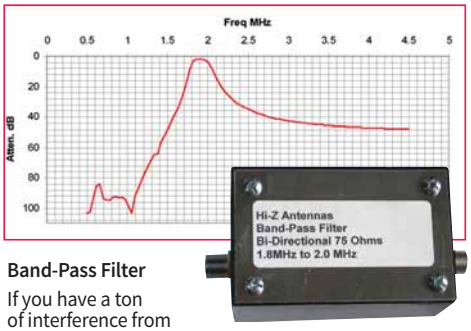
This weatherproof and ruggedized amplifier is the same unit found in Hi-Z's receiving arrays and can be used on non-resonant high impedance vertical elements. It has built-in common-mode isolation and provides 75 Ω matched output impedance. This is the increased gain model, offering Plus-6 0 dB with a 75 Ω output impedance. The amplifier requires 13.8 Vdc.

HIZ-PLUS6-AMP High Impedance Amplifier..... **$104.00**

75 Ω Inline Preamplifier

This 75 Ω cable amplifier provides a precision termination point for typical antenna array controllers/ combiners. You'll find this same preamp on Hi-Z's 160 and 80 meter receiving antennas. It is connects to the output of an array controller and provides 15 dB of voltage amplification. External connection requires +13.8 Vdc at .04 amps.

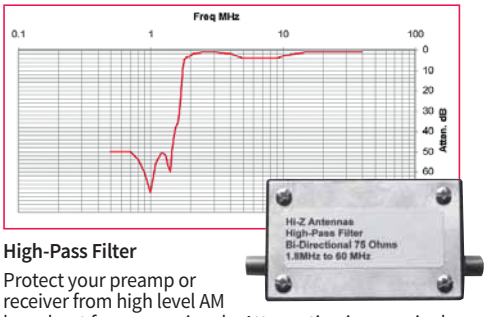
HIZ-PRE-AMP Inline 75 Ω Preamplifier **$80.00**



Band-Pass Filter

If you have a ton of interference from nearby high-power AM broadcast stations, here's your answer. This 75 Ω band pass filter gives you 35 dB of attenuation at 1600 KHz and much more at lower frequencies with an insertion loss of about 2 dB in the pass band. The band-pass 3 dB corners are at 1.8 MHZ and 2.0 MHz.

HIZ-BPF Band-Pass Filter, 1.8 to 2.0 MHz **$48.00**



High-Pass Filter

Protect your preamp or receiver from high level AM broadcast frequency signals. Attenuation is a nominal 30 dB at 1630 KHz and much more at lower frequencies. Insertion loss is an average 2 dB in the pass band. The lower frequency corner is –3 dB at 1.8 MHz.

HIZ-HPF High-Pass Filter, 1.8 to 60 MHz **$48.00**

S-9 Signal Source

Troubleshoot and verify that your complex multiple-element receiving arrays are working correctly. This self-contained oscillator connects directly to 50 or 75 Ω coax or antenna systems. It is useful for measuring controller output to verify all array elements are working. This unit requires a 9V battery, and there's an LED indicator that ensures there's enough battery life to take accurate measurements.

HIZ-SIGNALSOURCE RF Signal Source **$65.00**

Vertical Feedline Current Choke

When quarter-wave antennas are constructed over a good radial system, they have a feedpoint impedance of about 36 Ω and currents are equal between the vertical section and the radial system. If the radial system is less than ideal—due to short radials, too-few radials or poor soil conductivity—the antenna system will try to use the feedline shield as part of the radial system. This leads to a loss in the efficiency and a higher take-off angle. Often the current introduced on the shield of the feedline causes RFI at the operator position.

Placing a vertical feedline current choke (VFCC) at the base of the quarter-wave antenna forces the currents to equalize between the vertical section and the radial system, even if the radial system is less than ideal. The balanced terminals of the VFCC should be connected directly to the base of the antenna and radial plate with appropriate lengths of low-inductance tinned copper braid.

The DX Engineering VFCC is supplied with an insulated mounting shelf to isolate the feedline shield from ground. Purchase the optional V-Saddle Clamp for mounting the VFCC to pipe up to 2 inches O.D.

- Equalizes vertical and ground currents
- Improves signal efficiency
- Lowers radiation angle

DXE-VFCC-H05-A	Vertical Feedline Current Choke Kit, 2/5 kW, HF	**$134.95**
DXE-VFCC-H10-A	Vertical Feedline Current Choke Kit, 5/10 kW, HF	**$189.95**
DXE-SSVC-2P	V-Saddle Clamp, for 1" to 2" O.D. Pipe	**$11.95**

LDG-RBA-4-1

LDG-RBA-1-1

LDG-ALK-2

RBA Series Baluns

LDG Electronics designed these baluns to let you easily connect ladder line and long wire antennas to LDG's automatic antenna tuners. For more versatility, these baluns can operate without an LDG tuner and may be used with any of your long random or ladder line antenna projects.

LDG-RBA-4-1	4:1 Voltage Balun	**$27.95**
LDG-RBA-1-1	1:1 Current Balun	**$28.85**

Accessories

LDG-ALK-2	Audio/Linear/Key 2-Port Switch	**$49.95**

Visit DXEngineering.com to learn more about LDG baluns and accessories!

RU Series 4:1 UNUN

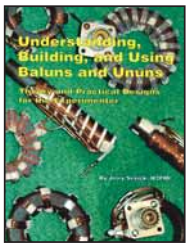
New!

If you're using 50 Ω coax to feed your 43 foot vertical antenna, then this UNUN is essential to create a perfect match. Rated at 200 watts, it will easily tame your resonant verticals and will come in handy whenever you need a 4:1 match for an antenna project.

LDG-RU-4-1	RU-4:1 UNUN	**$27.95**

CQ Magazine Publications

W2FMI Understanding Baluns and Ununs



W2FMI Jerry Sevick's compilation of balun performance and design criteria. It offers clear explanations to prompt further discussion of theory and applications.

CQM-SEVICKBALUNS	W2FMI Understanding Baluns and Ununs	**$19.95**

B4KC Current Baluns

Palstar B4KC Current Baluns are available in both 1:1 and 4:1 ratios. They're intended for indoor use on Lo-Z antenna applications for center-fed wire antennas with open wire and twin lead transmission lines. B4KC Baluns feature steatite insulators and a large 3.25" ferrite core with Teflon® 12-gauge wire. Rated up to 4,000 watts, these are useful additions to your antenna.

PAS-B4KC-4-1	4:1 Current Balun	**$89.95**
PAS-B4KC-1-1	1:1 Current Balun	**$89.95**

Broadband Ferrite Balun

This balun matches your 50 Ω direct coax-fed, hairpin/beta matched or trap tri-band Yagi antenna. It can couple into any 50 Ω balanced system, like dipoles, multiband doublets and beam antennas. The BN-86 Balun handles 800 watts SSB and 1,500 watts CW, while covering the 80 to 10 meter bands. Using stainless steel hardware, this sturdy boom-mounted balun will give you years of reliable service.

HGN-BN-86	Broadband Ferrite Balun	**$79.95**

BN-4000B Broadband Beam Current Balun

This 1:1 balun provides the proper current path between unbalanced coax and your balanced antenna feedpoint. It's compatible with 50 Ω direct coax-fed, hairpin/beta matched and trap tri-band Yagi antennas. Using ferrite beads over a short length of coax, the BN-4000B effectively chokes the flow of RF on the outside of your coax shield. You can use this balun from 160 meters all the way to 6 meters. It handles 2,000 watts of continuous duty.

HGN-BN-4000B	Broadband Beam Current Balun	**$109.95**

Permatex® Neutral Cure RTV Sealant

Have you ever sealed a piece of electronic gear with ordinary RTV sealant, only to open it later to find that the component had become corroded? It wasn't moisture that caused the corrosion—it was the RTV. Ordinary RTV gives off acetic acid when it cures (that's the vinegar smell); it's the acid that causes the corrosion. DX Engineering has located a Neutral Cure RTV that is non-corrosive and safe for sealing baluns and other electronic gear that will be out in the weather. Applies just like "normal" RTV, dries in one hour and cures in 24 hours at 70 degrees F.

UMI-82180	Permatex Neutral Cure RTV, 3.35 oz. Tube, Black	**$5.99**

Hazardous, limited to domestic UPS Ground shipping only.

50 and 75 Ω Choke Baluns

Choke baluns ensure that RF does not flow on the outside shield of feedlines, phasing lines, etc. COMTEK SYSTEMS' baluns feature 100 Amidon beads on a length of RG-400 PTFE double-shielded silver coax terminated with Silver PTFE PL-259 UHF connectors. Assembled baluns are covered with 3M heat shrink tubing. RF bead kits are available if you wish to assemble your own chokes.

COM-CFC-50	50 Ω Balun, Assembled	**$93.95**
COM-CFC-50K	50 Ω Balun, Kit	**$69.95**
COM-CFC-75	75 Ω Balun, Assembled	**$94.95**
COM-RFB-160	RF Choke Bead Kit, 160M	**$89.95**
COM-RFB-80	RF Choke Bead Kit, 80M	**$84.95**
COM-RFB-40	RF Choke Bead Kit, 30 and 40M	**$67.95**
COM-RFB-20	RF Choke Bead Kit, 10, 15 and 20M	**$38.95**

Accessories

DXE-RADP-3	Stainless Steel Radial Plate with 20 Bolt Sets	**$54.50**
DXE-SSVC-2P	V-Saddle Clamp, Fits 1" to 2" Tube	**$11.95**

Jerry Sevick W2FMI-inspired COMTEK Baluns

COMTEK SYSTEMS

COMTEK Baluns

COMTEK Baluns were inspired by the writings of Jerry Sevick W2FMI, published in his book *Understanding, Building and Using Baluns and Ununs.* COMTEK baluns are value-engineered to provide maximum performance at minimum cost while providing a superb, efficient match between unbalanced coax and balanced antennas.

- Design inspired by Jerry Sevick W2FMI with modern improvements from DX Engineering's in-depth balun R&D
- Unique high voltage compensating capacitors for unequalled SWR bandwidth
- Outstanding ferrite mix coated toroid core with special design to accommodate close coupling without excessive stress
- Exceptionally high and consistent common-mode impedance across the specified band width provides isolation where it is needed most
- Special wire size selection and Teflon®-insulated wire sleeves provide exact impedance matching and superb insulation, unlike common Thermaleze® wire
- Typical insertion loss is less than 0.2 dB
- Power handling from 3 kW continuous to 7 kW intermittent, depending on model May be used to 54 MHz with reduced ratings
- Gasketed SO-239 connectors are silver plated with Teflon® insulation.
- All hardware is Stainless Steel. Studs are 1/4"-20
- COMTEK Baluns are sealed in a weatherproof 4" x 4" x 2" NEMA box which makes an excellent outdoor enclosure

1:1 Dual Wire/Single Core

COM-BAL-11130E	3 kW, 1.8 to 54 MHz, Side Eyebolts	**$56.95**
COM-BAL-11130ET	3 kW, 1.8 to 54 MHz, Side/Top Eyebolts	**$56.95**
COM-BAL-11130S	3 kW, 1.8 to 54 MHz, Side Studs	**$56.95**
COM-BAL-11130T	3 kW, 1.8 to 54 MHz, Top Studs	**$56.95**

1:1 Coax/Single Core

COM-BAL-11150E	5 kW, 1.8 to 54 MHz, Side Eyebolts	**$61.95**
COM-BAL-11150ET	5 kW, 1.8 to 54 MHz, Side/Top Eyebolts	**$61.95**
COM-BAL-11150S	5 kW, 1.8 to 54 MHz, Side Studs	**$61.95**
COM-BAL-11150T	5 kW, 1.8 to 54 MHz, Top Studs	**$61.95**

1:1 Dual Wire/Dual Core

COM-BAL-11140T	5 kW, 1.8 to 54 MHz, Top Studs	**$78.95**
COM-BAL-11140S	5 kW, 1.8 to 54 MHz, Side Studs	**$78.95**

1:1 Coax/Dual Core

COM-BAL-11150DS	5 kW, 1.8 to 54 MHz, Side Studs	**$78.95**
COM-BAL-11150DT	5 kW, 1.8 to 54 MHz, Top Studs	**$78.95**

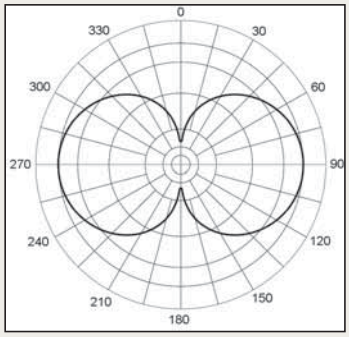
4:1 Dual Wire/Single Core

COM-BAL-41130E	3 kW, 1.8 to 54 MHz, Side Eyebolts	**$66.95**
COM-BAL-41130ET	3 kW, 1.8 to 54 MHz, Side/Top Eyebolts	**$66.95**
COM-BAL-41130T	3 kW, 1.8 to 54 MHz, Top Studs	**$66.95**
COM-BAL-41130S	3 kW, 1.8 to 54 MHz, Side Studs	**$66.95**

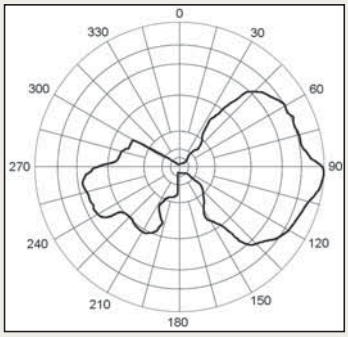
4:1 Dual Wire/Dual Core

COM-BAL-41150T	5 kW, 1.8 to 54 MHz, Top Studs	**$93.95**
COM-BAL-41150S	5 kW, 1.8 to 54 MHz, Side Studs	**$93.95**
COM-BAL-41150E	5 kW, 1.8 to 54 MHz, Side Eyebolts	**$93.95**

Contact DX Engineering Customer Support to discuss your application or for recommendations.



Balanced Current



With No Balun

W2FMI Series Baluns

When properly connected to balanced antenna loads like symmetrical dipoles, unbalanced coaxial feedlines must have exactly equal and opposite currents on the shield and center conductors. COMTEK baluns are value-engineered to provide maximum performance at minimum cost while providing a superb, efficient match between unbalanced coax and balanced antennas.

Balanced current distribution along the halves of the antenna assures correct pattern shape and antenna efficiency. Current baluns add common-mode isolation between the antenna and coaxial feedline.

The expected figure-8 dipole azimuth pattern cannot be achieved unless RF current is flowing equally on both halves of the dipole. The COMTEK current baluns force equal current to flow and prevent high values of common-mode feedline current. This eliminates pattern distortion, unpredictable performance, RFI, and noise pickup from nearby sources like TV sets and computers.

Baluns come in ratios for effective SWR matching between the 50 Ω coaxial transmission line and the antenna feedpoint based on the feedpoint impedance. COMTEK baluns have been designed to provide the lowest possible SWR match across the specified frequency range.

Current baluns isolate or add impedance to unwanted common-mode current paths, reducing or controlling common-mode current. Current baluns are the best choice in almost all situations because they work better in most real-world systems by isolating the input and output connections.

Contrary to some published information, a high common-mode impedance across a wide frequency range is absurd, if not unachievable. The highest impedance values are most useful at lower frequencies, while lesser impedance values are more than adequate at the high end of the HF range. In most cases, baluns are installed as close as possible to a balanced-to-unbalanced transition point.

4:1 High Power UNUN for Non-Resonant Vertical Antennas

Using non-resonant multi-band antennas? This UNUN helps your antenna system operate at maximum efficiency by minimizing transmission line losses caused by SWR. You can add this UNUN to any 43 foot antenna system; it covers 1.8-30 MHz and can handle 2 kW CW/5 kW SSB.

Mounting and feedpoint connection kits are available separately; or you can purchase everything together for a complete installation package.

DXE-UN-43	High Power 4:1 UNUN	**$104.95**
DXE-UN-BRKT	UNUN Mounting Kit	**$22.95**
DXE-TCB-UNFK	UNUN to Vertical Feedpoint Connection Kit	**$9.50**
DXE-UN-43-R	Complete Package with UNUN, Mounting and Feedpoint Kits	**$129.95**

Balun Mounting and Installation Solutions

Mounting your balun correctly is critical to maintaining its reliability. Here are several options to ensure your balun is ready to face Mother Nature.

Balun or Choke Mounting Kit

The DXE-VFCC-BRKT is the same bracket kit supplied with our Vertical Feedline Current Chokes. It also works well with several other models. The kit includes the stainless steel bracket and insulated shelf. You can mount it to a standard 4x4 or 6x6 wooden post with basic wood screws. If you're using this kit to mount your balun to 1 to 2 inch O.D. pipe, you'll want to use a durable clamp; we recommend our V-Saddle Clamp.

DXE-VFCC-BRKT	Balun or Choke Mounting Kit	**$19.95**
DXE-SSVC-2P	V-Saddle Clamp	**$11.95**

Balun Dipole Adaptor Bracket

If you're mounting your balun or feedline choke to a wire dipole antenna, the Balun Dipole Adapter Kit is the ideal solution. It suspends your balun with the antenna and includes all necessary mounting hardware. Be sure to use durable rope that can support the added weight; check out the Double-Braided Polyester Rope from Synthetic Textile Industries, found on page 76.

DXE-BDAB-1P	Balun Dipole Adapter Kit	**$24.95**

DXE-BMB-4P

DXE-BMB-1P

Balun Mounting Bracket Kits

Select from several mounting options that match your Yagi boom, tower leg or mast's diameter. Each kit contains the appropriate stainless steel clamps and hardware, plus the aluminum bar mounting bracket. They're the perfect mounting method for any DX Engineering balun in a formed aluminum enclosure.

DXE-BMB-1P	Mounting Kit, with .75" to 1.5" Clamps	**$24.95**
DXE-BMB-2P	Mounting Kit, with 1.56" to 2.25" Clamps	**$24.95**
DXE-BMB-3P	Mounting Kit, with 2.31" to 3" Clamps	**$24.95**
DXE-BMB-4P	Mounting Kit, Made for COMTEK Baluns	**$17.95**

Cable Strain Relief Brackets

Mounting your balun or choke is only part of the equation—you still need to make sure your coaxial cables are secure and free from the stress of gravity. Our Cable Strain Relief Brackets will help prevent the cable from pulling from your PL-259 connector.

DXE-CSR8X-1	Cable Strain Relief Assembly, for RG-8X Cable	**$15.50**
DXE-CSR213-1	Cable Strain Relief Assembly, for RG-213/U Cable	**$15.50**

Find the Full Specs on Every DX Engineering Balun at DXEngineering.com, or Call Us and We'll Find the Perfect Match for Your Application!

Maxi-Core® High Power Transmission Line Transformers and Baluns

Ensure that your antenna system is operating optimally. These units have perfected the unbalanced-to-balanced transition, giving you the strongest signal your antenna is capable of producing in both transmit and receive situations. In addition to increased performance and coverage, these baluns reduce the electrical stress on your expensive equipment.

They cover the 1.8 to 30 MHz frequency range and with increased operating bandwidth compared to other baluns. Depending on the application, the baluns use ceramic insulators, stainless steel hardware and PTFE/silver SO-239 connectors.

Each balun is housed in either a lightweight, formed aluminum enclosure for basic outdoor use or in a cast aluminum gasketed enclosure suitable for extreme environments.

Part Number	Application	Ratio	Power (CW/SSB)	Enclosure	Price
DXE-BAL050-H05-A	Dipole, Yagi	1:1	2/5 kW	Formed Aluminum	**$99.95**
DXE-BAL050-H10-A	Dipole, Yagi	1:1	5/10 kW	Formed Aluminum	**$109.95**
DXE-BAL050-H11-C	Dipole, Yagi	1:1	10/10+ kW	Cast Aluminum	**$139.95**
DXE-BAL100-H11-C	Vertical Loop	2:1	10/10+ kW	Cast Aluminum	**$149.95**
DXE-BAL200-H10-A	Yagi, LPDA, Horizontal Loop	4:1	5/10 kW	Formed Aluminum	**$119.95**
DXE-BAL200-H11-C	Yagi, LPDA, Horizontal Loop	4:1	10/10+ kW	Cast Aluminum	**$144.95**
DXE-BAL300-H10-A	Folded Dipole	6:1	5/10 kW	Formed Aluminum	**$139.95**
DXE-BAL450-H10-A	450 Ω Antenna	9:1	5/10 kW	Formed Aluminum	**$139.95**
DXE-BAL600-H10-A	Terminated Loop	12:1	5/10 kW	Formed Aluminum	**$139.95**
Special Balun Applications for Use with an Antenna Tuner					
DXE-BAL050H10AT	Multi-Band Dipole	1:1	5/10 kW	Formed Aluminum	**$119.95**
DXE-BAL050H11CT	Multi-Band Dipole	1:1	10/10+ kW	Cast Aluminum	**$144.95**
DXE-BAL200H10AT	Multi-Band Vertical, Off Center-Fed Dipole	4:1	5/10 kW	Formed Aluminum	**$129.95**
DXE-BAL200H11CT	Multi-Band Vertical, Off Center-Fed Dipole	4:1	10/10+ kW	Cast Aluminum	**$149.95**

Maxi-Core® Special Line Transformers

If you need a long low loss feedline for your HF antennas, this pair of transformers may be able to save you some money. Instead of running a length of expensive coax, these transformers let you use 450 Ω ladder line as an affordable alternative. Simply run your ladder line and connect a transformer to each end, then connect your 50 Ω coax to each transformer, linking your antenna to your transceiver.

More details on this cost-effective solution can be found at DXEngineering.com.

DXE-BAL450H10-BP	Special Line Transformers, Pair	**$299.95**

Maxi-Core® Feedline Current Choke

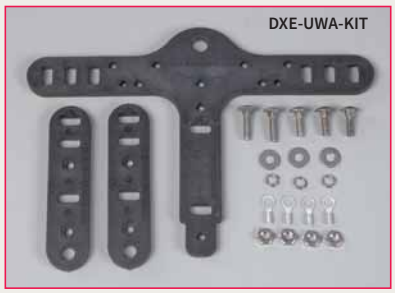
Fend off RF Interference and reduce the noise level in your 50 Ω coaxially-fed antenna system. It improves your transceiver's efficiency by maximizing the transmit power going to your antenna. In addition to eliminating RFI, this current choke can also overcome a less-than-optimal ground system.

The DXE-FCC0050-H05-A handles 2 kW and is compatible with vertical, Yagi and log periodic antennas. It offers higher common-mode impedance, higher power handling, and lower loss than other chokes. The Maxi-Core® Feedline Current Choke covers 160 to 6 meters and is an excellent way to combat poor feedline isolation.

DXE-FCC050-H05-A	Feedline Current Choke	**$87.95**

Rugged Construction—Maximum Reliability!

DXE-UWA8X-KIT


DXE-UWA-KIT

DXE-UWA213-KIT

DX ENGINEERING

Universal Wire Antenna Kits

DX Engineering's three Universal Wire Antenna (UWA) Kits offer the right combination of parts and hardware to create a wide variety of antenna designs. You can create any type of wire antenna, including single band, multi-band, multi-frequency and folded dipole, doublet and inverted-vee, off-center fed, Windom, Zepp, long wires, rhombic, vee beam, and loop antennas.

The kits feature the new EZ-BUILD™ Center-T insulator and end insulators. The insulators have a unique patented design that features a serpentine wire grip for insulated DX Engineering Antenna Wire and DX Engineering's high strength, high power 300 Ω ladder line. The serpentine wire connection grip is strong enough to support the antenna wires without looping or wrapping the wire ends. This allows fast and easy field adjustments of antenna length without soldering!

The insulators are made of a lightweight, high strength, UV-protected material. The center-T insulator is designed to serve as a feedpoint and strain relief for antennas made with either wire or ladder line, which may be fed with either ladder line or coaxial cable. The center-T insulator can be the main support point for the antenna feedpoint by using the top center hole to attach a support rope. It also serves as the mounting and support point for any DX Engineering Balun.

The DXE-UWA8X-KIT and DXE-UWA213-KIT kits include a new strain relief bracket and P-clamps with neoprene cushions that grip the coaxial cable without deforming it, taking the weight of the hanging cable off of the connector. Each kit also includes crimp-on ring terminals for ladder line and antenna wire, and connection hardware.

DXE-UWA-KIT	Universal Wire Antenna Kit	**$19.95**
DXE-UWA8X-KIT	Universal Wire Antenna Kit for RG-8X	**$39.95**
DXE-UWA213-KIT	Universal Wire Antenna Kit for RG-213	**$39.95**
DXE-UWA-END-KIT	End Insulators, Package of 8	**$12.00**

STI

Antenna Support Rope

SYN-DBR-187-100 SYN-DBR-94-100

Synthetic Textile Industries' double-braided Dacron/Polyester ropes are not weakened by decay or mildew and provide excellent resistance to abrasion. The color-sealed, black polyester yarn used in the braided jacket also protects the cord from damage due to ultra-violet light. It is available in a variety of diameters and lengths.

SYN-DBR-94-100	3/32" Diameter Rope, 100' Roll	**$8.95**
SYN-DBR-94-1000	3/32" Diameter Rope, 1,000' Roll	**$51.95**
SYN-DBR-125-100	1/8" Diameter Rope, 100' Roll	**$11.95**
SYN-DBR-125-1000	1/8" Diameter Rope, 1,000' Roll	**$76.95**
SYN-DBR-187-100	3/16" Diameter Rope, 100' Roll	**$16.95**
SYN-DBR-187-350	3/16" Diameter Rope, 350' Roll	**$44.95**
SYN-DBR-187-500	3/16" Diameter Rope, 500' Roll	**$63.95**
SYN-DBR-312-100	5/16" Diameter Rope, 100' Roll	**$18.95**
SYN-DBR-312-500	5/16" Diameter Rope, 500' Roll	**$91.95**
SYN-DBR-437-500	7/16" Diameter Rope, 500' Roll	**$189.95**

DXE-WA-070

DXE-WA-260

Ladder-Line Fed Dipole Antennas

The DX Engineering multi-band dipoles are rugged yet lightweight. Each model resonates at the low end of the band specified. They are usable to 30 MHz with a wide range tuner and come complete with the wire elements, ladder feedline, center-T support and end insulators.

- Elements: 14 AWG copper, PVC jacket for flexibility and strength
- Feedline: 100 feet, 18 AWG, 300 Ω ladder line, UV-resistant, 0.88 VF
- Hardware: stainless steel
- Center-T support and end insulators: High impact, UV-resistant material, black
- Power Rating: 1,500 W

DXE-WA-260	Antenna, 260' Long for 160M and Up	**$59.95**
DXE-WA-135	Antenna, 135' Long for 80M and Up	**$49.95**
DXE-WA-070	Antenna, 70' Long for 40M and Up	**$49.95**

DMN-W8010

DIAMOND ANTENNA

New!

DMN-W735

Wire Dipole Antennas

Complete kits that get you on the HF bands quickly. They include an SO-239 connector for easy hookup, a center insulator, and all necessary wire/cable. You don't need a tuner with these antennas, though some trimming may be required to get an improved SWR. They handle 1,200 watts.

The W735 Wire Dipole Antenna provides 80 and 40 meter coverage with an 85 foot cable. The W8010 gives you the 80, 40, 20, 15, and 10 meter bands with a 63 foot cable.

DMN-W735	Dual-Band Wire Dipole Antenna	**$119.95**
DMN-W8010	Five-Band Wire Dipole Antenna	**$144.95**

MFJ

Zepp Wire Antennas

MFJ-1748

MFJ's Zepp Wire Antennas are easy to hang up so you get on the air quickly. They feature custom fiberglass SO-239 mounts, 7-strand/14-gauge copper wire and glazed ceramic insulators. There's no need for soldering or cutting, and these super-durable antennas give you excellent performance on several popular bands.

MFJ-6115	15M End-Fed Zepp Wire Antenna	**$32.95**
MFJ-6117	17M End-Fed Zepp Wire Antenna	**$34.95**
MFJ-6120	20M End-Fed Zepp Wire Antenna	**$35.95**
MFJ-6130	30M End-Fed Zepp Wire Antenna	**$39.95**
MFJ-6140	40M End-Fed Zepp Wire Antenna	**$44.95**
MFJ-1748	80M End-Fed Zepp Wire Antenna	**$69.95**
MFJ-1742	20M Double-Zepp Extended Wire Antenna	**$79.95**

hy-gain

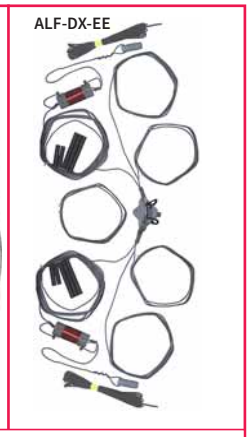
Center Insulator for Multi-Band Doublets with SO-239

This weatherproof, lightweight, high strength center insulator is used for connecting coaxial feedline to a doublet-type antenna. The insulator can be hung from a supporting mast. It has an SO-239 connector to attach to coaxial cable with a matching PL-259 connector.

HGN-C-1C	Center Insulator for Multi-Band Doublets	**$29.95**

ALF-DX-CC

ALF-DX-DD


ALF-DX-EE

ALF-DX-LBPLUS

ALF-DX-LB

ALF-DX-B

ALF-DX-A

Alpha Delta Wire Antennas

Multi-Band Dipole Wire Antennas

These complete resonant antennas include DELTA-C center insulator and end insulators, ISO-RES coils, and separate wires for different bands. All wires are attached to the center insulator. An ARC-PLUG™ static electricity protector is built in. Stainless steel hardware and 12-gauge solid copper wire ensure long life. Antennas are shipped fully assembled. No antenna tuners are necessary, except for 15 meter band with DX-CC.

ALF-DX-CC	80-10 Meter Parallel Dipole	**$159.95**
ALF-DX-DD	80-40 Meter Single Dipole	**$129.95**
ALF-DX-EE	40-10 Meter Parallel Dipole	**$139.95**
ALF-DX-LB	160-80-40 Meter Single Wire Dipole	**$159.95**
ALF-DX-LBPLUS	160-10 Meter Parallel Dipole	**$189.95**
ALF-SEP	Replacement ARC-PLUG protector	**$15.95**

Multi-Band Sloper Wire Antennas

These antennas provide good DX performance for limited space installations by combining the DX firepower of a quarter-wave sloper with the wide bandwidth of a half-wave dipole antenna. A built-in ARC-PLUG™ static electricity protector is included. Because the installation of sloper antennas depends on your available mounting circumstances, the use of a wide range antenna tuner is recommended for best performance.

ALF-DX-A	Twin Sloper, 160/80/40 Meter	**$99.00**
ALF-DX-B	Sloper, 160/80/40/30 Meter	**$109.95**
ALF-SEP	Replacement ARC-PLUG Protector	**$15.95**

SWL Antennas

Fully assembled for fast, easy installation, these antennas are optimized to provide best broadband receiving performance from the AM broadcast band through 30 MHz. The antennas include ISO-RES inductors, solid copper wire elements and the exclusive DELTA-C center insulator with a built-in ARC-PLUG™ static electricity protector. Stainless steel hardware and 12-gauge solid copper wire ensure long life.

ALF-DX-SWL	SWL Sloper Antenna, 60'	**$119.95**
ALF-DX-ULTRA	SWL Parallel Dipole, 80'	**$159.95**
ALF-SEP	Replacement ARC-PLUG Protector	**$15.95**

MFJ Wire Antennas

G5RV All-Band HF Antenna

MFJ-1778

The world-famous G5RV antenna is a multi-band center-fed dipole with a 1,500 watt capacity. Designed as a 3/2-wavelength antenna for 14 MHz, it provides reasonable performance on many other bands. The antenna covers all bands from 160 to 10 meters when used with an antenna tuner. At 102 feet long, the G5RV is shorter than an 80 meter dipole. At 52 feet long, the MFJ-1778M Junior G5RV Antenna is half the size of the MFJ-1778 yet still covers 40 through 10 meters with tuner. It also handles 1,500 watts.

MFJ-1778	G5RV All-Band HF Antenna	**$44.95**
MFJ-1778M	G5RV Junior Antenna	**$39.95**

OCFD 40/20/10/6 Meter Dipoles

These antennas are CAD designed and engineered for low SWR, high efficiency, wide bandwidth, and frequency agility on all four of amateur radio's most interesting DX bands. The antennas are cut to length and preassembled—just connect your feedline. They're lightweight and easy to install.

MFJ-2010	OCFD UltraLite Dipole, 300 Watts	**$59.95**
MFJ-2012	OCFD PowerLite Dipole, 1.5 kW	**$79.95**

Collinear Array Wire Antennas

Classic antennas updated for the 21st century. If you can find two nearby trees, you can have a booming signal on many popular bands. These super-durable antennas give you almost 2 dB of gain for worldwide coverage. They are bi-directional, extremely quiet and can handle a whopping 1,500 watts. Just hang these wire antennas anywhere from 1/4- to 3/4-wavelengths above ground and start DXing the world.

MFJ-6215	15M Collinear Array Wire Antenna	**$39.95**
MFJ-6217	17M Collinear Array Wire Antenna	**$43.95**
MFJ-6220	20M Collinear Array Wire Antenna	**$44.95**
MFJ-6230	30M Collinear Array Wire Antenna	**$48.95**
MFJ-6240	40M Collinear Array Wire Antenna	**$56.95**
MFJ-6415	15M Collinear Array Wire Antenna, 4-Element	**$89.95**
MFJ-6417	17M Collinear Array Wire Antenna, 4-Element	**$91.95**
MFJ-6420	20M Collinear Array Wire Antenna, 4-Element	**$99.95**

Dipole Antennas

Choose a Dipole Antenna from MFJ, and get effective yet reliable coverage in an antenna that's easy to use. Check out MFJ's lineup and select the dipole antenna that best suits your needs, and you can always visit DXEngineering.com for more specs.

MFJ-1776B	6M Folded Dipole Antenna	**$34.95**
MFJ-1770B	10M Folded Dipole Antenna	**$34.95**
MFJ-1770C	15M Dipole Antenna	**$34.95**
MFJ-1771B	17M Dipole Antenna	**$34.95**
MFJ-1772B	20M Dipole Antenna	**$34.95**
MFJ-1773B	30M Dipole Antenna	**$34.95**
MFJ-1774B	40M Dipole Antenna	**$34.95**
MFJ-1779A	160M Dipole Antenna, 26 5' Wire	**$69.95**
MFJ-1779C	20-6M Dipole Antenna, 35' Wire	**$29.95**
MFJ-17754	40-20M Dipole Antenna, 42' Wire	**$59.95**
MFJ-17758	80-40M Dipole Antenna, 85' Wire	**$89.95**
MFJ-1779B	80-40M Dipole Antenna, 135' Wire	**$43.95**
MFJ-2010	40/20/10/6M Ultra-Lite Off-Center Fed Dipole Antenna, 66' Wire	**$59.95**
MFJ-2012	40/20/10/6M Power-Lite Off-Center Fed Dipole Antenna, 66' Wire	**$79.95**
MFJ-2014	75/40M Power-Lite Off-Center Fed Dipole Antenna, 122' Wire	**$89.95**
MFJ-2299	20M-FM Broadcast Adjustable Multi-Band Telescopic Dipole Antenna	**$119.95**

MFJ

Desktop/Remote 4-Position Antenna Transceiver Switch

New!

A switch that you operate on your desk or from across the hall. It handles 1,500 watts, covers 1 to 60 MHz (lowest SWR from 1 to 30 MHz), and is made for 50 Ω antenna systems. All unused ports are grounded automatically and the switch features an ultra-fast gas tube lightning surge protector to protect your radio. **This switch is remotely operated through an RJ-45 cable by the MFJ-4724RC remote (sold separately).**

MFJ-4724 Desktop/Remote 4-Position Antenna/Transceiver Switch **$139.95**

6-Port Antenna Switches

New!

These switches are designed for 1.8 to 30 MHz. They handle 2,000 watts and antenna loads from 50 to 75 Ω. The unused terminals are grounded automatically, allowing for static discharge and lightning/RF protection.

The deluxe switch uses two ceramic rotary switches; one lets you select your antenna, the other your radio. That means you can use the switches independently with their two common ports. The deluxe version is perfect for inputting your antenna tuner, wattmeter or other linear device.

MFJ-1700C

MFJ-1701 6-Port Antenna Switch **$69.95**

MFJ-1700C Deluxe 6-Port Antenna Switch..... **$99.95**

Manual Antenna Switches

MFJ antenna switches have precision-machined, low loss components for reliable service. Mount one of these antenna switches and you will have more than the convenience of instantly selecting any of four antennas or center ground positions. They come complete with replaceable lightning surge protection that helps to protect against distant lightning-induced surges and static. When these antenna switches are in the center position, all connectors are disconnected and grounded. If the switch is turned to an active connector, the other connectors are automatically grounded. The active connector is automatically protected with the replaceable lightning/surge protector. MFJ antenna switches utilize heavy cast metal construction and a ball bearing drive for smooth switching.

Additional features include:

- Handles 2.5 kW PEP
- Extremely low SWR
- Isolation: greater than 60 dB at 30 MHz, greater than 50 dB at 500 MHz
- Negligible insertion loss
- 50 Ω Impedance

MFJ-1702 2-Position Antenna Switch..... **$19.95**

MFJ-1702C 2-Position Antenna Switch with Grounding..... **$39.95**

MFJ-1704 4-Position Antenna Switch with Grounding..... **$79.95**

MFJ-2702 1 GHz/2 kW 2-Position Antenna Switch, SO-239 Connector; **$32.95**

MFJ-2702N 3 GHz/2 kW 2-Position Antenna Switch, N-Connector **$40.95**

RigExpert®

Professional Quality Antenna Analyzers

New!

DX Engineering carries powerful antenna analyzers from RigExpert. RigExpert makes exceptional measuring and test equipment for both communications professionals and Amateur Radio enthusiasts. They're designed for testing, checking, tuning, or repairing antennas and antenna feedlines.

These analyzers are packed with features; so if you want to learn more and see detailed specs, please visit DXEngineeering.com. Whether you're building, experimenting or repairing your gear, count on an antenna analyzer from RigExpert to give you precise, accurate and reliable data.

DAIWA

Manual Antenna Switches

Perfect for switching one radio between two antennas (or two radios between one antenna), these rugged switches offer excellent isolation and auto-grounding of the unused terminal for extra protection.

Daiwa's CS-2011GII has a frequency range up to 2 GHz, 50 dB of isolation at 1 GHz and an insertion loss below 1.2 dB at 1.2 GHz. Gold plated Type N connectors make for easy installation.

The CS-201A has a frequency range up to 600 MHz, 60 dB of isolation at 600 MHz and an insertion loss under .2 dB. This switch features SO-239 connectors.

DWA-CS-201GII Manual Coax Switch, 2 GHz **$48.95**

DWA-CS-201A Manual Coax Switch, 600 MHz..... **$32.95**

DIAMOND ANTENNA

Wideband Coax Switches

Maximum Performance without Compromise!

Diamond Antennas offers an extensive line of station accessories: duplexers/triplexers, switches, dummy loads, and lightning protection. Maximize your installation; Diamond Antennas has the gear to help you do it.

Part Number	Description	Price
DMN-CX210A	Wideband Coax Switch, 1,500 W Max. DC-1000 MHz, SO-239	**$49.95**
DMN-CX210N	Wideband Coax Switch, 1,500 W Max. DC-1000 MHz, Type N Connector	**$79.95**
DMN-CX310A	Wideband Coax Switch, 3-Position. DC-800 MHz, SO-239	**$89.95**

AMERITRON®

RCS-4 Remote Antenna Switch

The Ameritron RCS-4 is a Four-Position Remote Antenna Switch which is powered through the coax cable. The relay switch box may be tower, mast or wall mounted—the control console is located at your operating position. It features bright LED indicators, a steel enclosure, 50 ms switching time, and SO-239 connectors. It uses three heavy-duty 10 ampere contact relays on a rugged G-10 fiberglass circuit board. The RCS-4 operates from 120 Vac power source, and covers 1.8 to through 30 MHz at 1,500 watts.

AME-RCS-4 1.5 kW Four Position RF Switch **$149.95**

ALPHA DELTA COMMUNICATIONS, INC.

ALF-D4

Manual Antenna Switches

Alpha Delta antenna switches have precision-machined, low loss components for reliable service. Grounded unselected antenna ports and ARC-PLUG™ lightning surge protectors provide the final line of protection.

ALF-DELTA-2B 2-Position Coax Switch, SO-239 Connector **$59.95**

ALF-DELTA-2B-N 2-Position Coax Switch, N-Connector **$75.95**

ALF-DELTA-4B 4-Position Coax Switch, SO-239 Connector **$89.95**

ALF-DELTA-4B-N 4-Position Coax Switch, N-Connector **$99.95**

ALF-ASC-4B 4-Position Desk Console Switch, SO-239 Connector..... **$149.95**

ALF-ASC-4B-N 4-Position Desk Console Switch, N-Connector..... **$159.95**

ALF-D4 Replacement ARC-PLUG **$9.95**

LIMITED TIME OFFER:

Orders Over $99 Ship Free

See page 58 for details.

DXE-RR2X8B SO2R RF Antenna Switch

The RR2X8 is a dual-input, 8-port coaxial line switch for use in low- to medium-power RF antenna systems, like those typically used in a single-operator/two-radio (SO2R) environment. It has the same high port-to-port isolation and reliability as DX Engineering's famous RR8-series single-input, 8-port remote antenna switches.

- Dual-input, 8-port, 4 kW key-down
- Excellent port-to-port isolation—greater than 70 dB at 30 MHz worst case
- High RF-tolerant UHF connectors
- Enclosed 16 ampere RF relays
- Safe 12-volt relay operation
- 16 MOVs for surge protection on control lines
- 16 RF bypass capacitors
- High-impact, RF-shielded cover
- Includes one DXE-SSVC-2P Stainless Steel V-Clamp for mounting

The DXE-RR2X8B is designed to interface with a customer-supplied logical switching unit, which should provide protection against hot switching and prevent the master or slave from attempting to select the same output port at the same time.

Manual operation is possible with two separate 1-of-8, control consoles such as the DX Engineering CC-8A or EC-8. In this case, care must be exercised as the master transceiver takes precedence over the slave when attempting to use the same antenna port.

DXE-RR2X8B SO2R RF Antenna Switch **$595.00**

CC-8A Deluxe Control Console

The CC-8A is a flexible 8-position controller for DX Engineering RR8 Series Antenna Switches or any product that uses a 12/24 Vdc, 1-of-8 or BCD control format. The powdercoated metal housing features an on/off switch, ergonomic selector knob, and eight front-panel LEDs (with adjustable brightness) to indicate switch position. Stainless steel base plate. Operates from 12 Vdc or 24 Vdc source.

DXE-CC-8A Deluxe Control Console **$169.95**

EC-8 Control Console

The EC-8 is a versatile 8-position controller for DX Engineering RR8A Series Antenna Switches, or any other product that uses a 12/24 Vdc, 1-of-8 control format. The powdercoated metal housing features an on/off switch with green power LED and an ergonomic selector knob with scratchpad areas to mark the switch position function. Stainless steel base plate. Operates from a 12 Vdc source.

DXE-EC-8 8-Position Control Console **$89.95**

EC-4 Control Console

The DXE-EC-4 is a flexible, four-position controller used to control the DX Engineering Receive Four-Square series or any other product using a four-position (three wire plus ground) BCD control format. It features a powdercoated housing with an ON/OFF switch and green LEDs with scratchpad areas to mark the switch position function. It requires 12 Vdc for operation.

Additional Features:

- Stainless steel housing
- Non-skid feet
- Four green position-indicating LEDs
- An internal automatic resettable fuse
- Includes a 2.1mm power plug for +12 Vdc power connection

DXE-EC-4 4-Position Control Console **$89.95**

COM-CW3

DXE-CW8-HD

Multi-Conductor Control Wire

DXE-CW9	Shielded Control Wire, 9-Conductor	per foot **$0.32**
DXE-CW9-1K	Shielded Control Wire, 9-Conductor, 1,000 Foot Spool	**$229.00**
DXE-CW9S	Shielded Control Wire, 9-Conductor Stranded	per foot **$0.36**
DXE-CW8	Control Wire, 8-Conductor	per foot **$0.48**
DXE-CW8-HD	Control Wire, 8-Conductor, Heavy-Duty	per foot **$0.89**
DXE-CW8-HD-1000	Control Cable, 8-Conductor, Heavy-Duty, 1,000 Foot Spool	**$835.75**
COM-CW3	Cable, 3-Conductor	per foot **$0.25**
COM-CW4	Cable, 4-Conductor	per foot **$0.28**

DX Engineering's Symmetrical Design—Highest Reliability and Performance!

DXE-RR8B-HP-P

Remote Antenna Switches

Installation of these remote antenna switches is hassle-free. There's no need to remove the cover to install the control cable—it plugs in with an external connector. You can use inexpensive CAT-5 cable to connect between the relay switch and the controller at the operator position.

The DX Engineering RF Switch also provides great SWR and superior port-to-port isolation.

DX Engineering RF Switches have a port-to-port isolation of greater than 60 db for ALL ports, not just the best port. This is the finest port isolation of all the coax switches we have tested—and we have tested ALL of the major brands. In fact, one particular major manufacturer's switches tested as low as 30 dB. None of the tested switches have a port-to-port isolation as high as DX Engineering's switches.

This is one component in your station that should be the very best!

Features

- Fully RF-shielded with UV-resistant high-impact cover
- Can select individual or multiple ports for stacking cover, stainless steel mounting bracket and hardware and phased array applications
- Lightning protection standard
- Safe 12-volt relay operation
- Solderless, removeable plug for easy installation of control wire
- Unused antenna ports can be jumpered for open control line with no disassembly or shorted to ground
- Can be wired without disassembly

The DXE-RR8B-HP uses 16 relays (2 per port) in a star arrangement to provide greater than 70 dB of port-to-port isolation. It is designed to switch coaxial lines in RF systems operating up to 5 kW continuous duty. The DXE-RR8B-SD is the largest switch in the RR8B series, designed to switch coaxial lines in high power RF systems up to 10 kW continuous duty.

Specifications

- Port Isolation (Worst Case): 70 dB (RR8B-HP), 60 dB (RR8B-SD)
- Sealed RF Relays: 20 amps (HP), 25 amps (SD)
- Power Rating (<2:1 SWR at 30 MHz): 7 kW ICAS/5 kW CCS (HP), 10 kW ICAS/CCS (SD)
- Control Voltage: 10-14 Vdc/100 mA (HP), 10-14 Vdc/160 mA (SD)
- Loss (HP): <0.03 dB below 60 MHz, <0.25 dB below 150 MHz
- Loss (SD): <0.03 dB below 30 MHz, <0.16 dB below 60 MHz
- Impedance: 50 Ω
- Control Line: 8-wire plus ground, #24 up to 1,000' (DXE-CW9S)

DXE-RR8B-HP
5 kW Key-Down RF Switch

- Highest isolation
- 5 kW rating
- Usable to 150 MHz

DXE-RR8B-SD
10 kW Key-Down RF Switch

- 10 kW rating
- Usable to 60 MHz
- Excellent isolation

DXE-RR8B-SD

Single-Input 8-Port RF Switches and Console Combos

DXE-RR8B-HP	5 kW Key-Down Switch	**$349.00**
DXE-RR8B-HP-P1	5 kW Key-Down Switch with CC-8A Console	**$505.00**
DXE-RR8B-HP-P2	5 kW Key-Down Switch with EC-8 Console	**$415.00**
DXE-RR8B-SD	10 kW Key-Down Switch	**$435.00**
DXE-RR8B-SD-P1	10 kW Key-Down Switch with CC-8A Console	**$595.00**
DXE-RR8B-SD-P2	10 kW Key-Down Switch with EC-8 Console	**$505.00**

Accessories

AME-RCS-12C	Ameritron Automatic Antenna Switch Controller	**$239.95**
AME-DB-13D	Ameritron Cable, RCS-12C to Icom 706/7000/718	**$22.95**
AME-DB-7DI	Ameritron Cable, RCS-12C to Icom ACC2	**$22.95**
AME-DB-7DK	Ameritron Cable, RCS-12C to Kenwood TS-2000/570/870;	**$22.95**
AME-DB-8MK	Ameritron Cable, RCS-12C to Kenwood TS-480	**$22.95**
AME-DB-8DY	Ameritron Cable, RCS-12C to Yaesu 8-Pin Band Data	**$22.95**
DXE-RLY-HP	SPDT 5 kW Sealed RF Relay, Board-Mount	**$9.95**
DXE-RLY-SD	SPDT DM/DB 10 kW RF Relay, Board-Mount	**$19.95**
DXE-CW9S	Shielded Control Wire, 9-Conductor Stranded	per foot **$0.36**

Super Hi-Q Loop Antennas

If you're short on space, but don't want to compromise on performance, look to MFJ's line of Super Hi-Q Loop Antennas. These compact loops have a 36 inch diameter, which means they'll fit in apartments, attics, small lots and RVs. The Hi-Q Loop Antennas include a controller with auto band selection, and no control cables are necessary.

Included with each antenna is MFJ's "Super Remote," which gives you a built-in cross-needle SWR/wattmeter that lets you quickly tune to your exact frequency. The antennas handle 150 watts and, depending on the model, they cover the WARC bands.

MFJ-1786	Super Hi-Q Loop Antenna with Remote, 30-10M, 120 Vac....	**$419.95**
MFJ-1786X	Super Hi-Q Loop Antenna with Remote, 30-10M, 220 Vac....	**$419.95**
MFJ-1788	Super Hi-Q Loop Antenna with Remote, 40-15M, 120 Vac....	**$469.95**
MFJ-1788X	Super Hi-Q Loop Antenna with Remote, 40-15M, 220 Vac....	**$469.95**

Mini-Loop Antenna Kits and Tuners

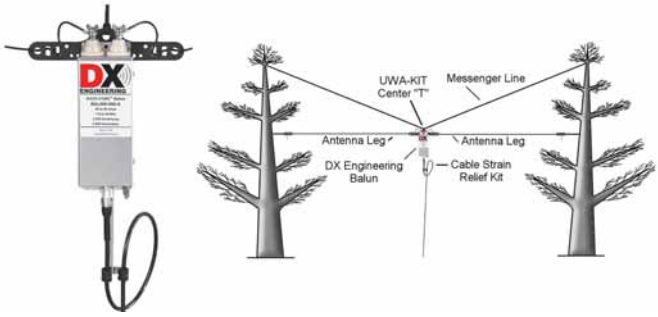
These PVC Cross Loop Antenna kits are the perfect compliment to MFJ's 933/935C/936B loop tuners. The 4.5 x 4.5 foot PVC cross mounts break down to fit in a suitcase or duffle bag—making them perfect for portable multi-band operation.

MFJ-57B	Loop Antenna Kit, 20-15 Meters.....	**$29.95**
MFJ-58B	Loop Antenna Kit, 60-10 Meters.....	**$49.95**
MFJ-933	Loop Tuner, 150 Watts, 5.3-30 MHz.....	**$179.95**
MFJ-935B	Loop Tuner, 150 Watts, Current Meter, 5.3-30 MHz	**$199.95**
MFJ-936B	Loop Tuner, 150 Watts, Current/SWR/Wattmeter, 5.3-30 MHz.....	**$249.95**

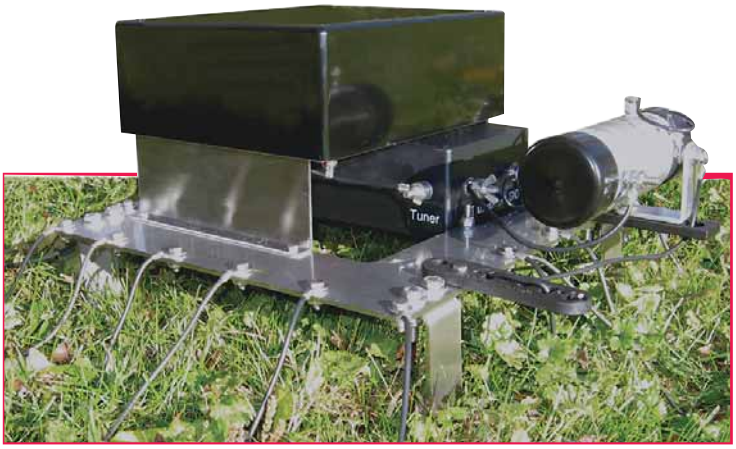
Tech Support: DXEngineering.com/TechArticles

Looking for guidance on your next project?

Need advice to optimize your amateur radio operation? Ask our ham radio experts a tech question, search our huge FAQ archive, or browse our library of technical articles.

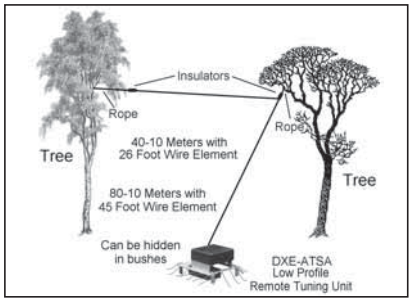


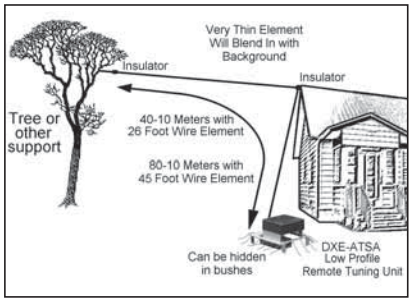
The DXE-BAL050-H05-A 1:1 balun is shown installed with the optional DXE-UWA-KIT Universal Wire Antenna Center-T (U.S. Patent No. 7,764,244) insulator



Auto Tuned Stealth Antenna (ATSA)

Great for EMCOMM—Assemble and Deploy in Minutes!





Do you live in an area where antennas are not allowed? DX Engineering has designed a complete antenna system that allows Amateur Radio operators living under the shadow of HOA-controlled areas to get on the air easily. Even with a short 26 foot wire antenna, you can typically be on the air on all bands 40 meters and up. With only 45 feet of wire you can be on all bands from 80 through 10 meters! That's because the unique ATSA MatchBoxx™ module lets you use almost any length wire—no more "forbidden" lengths as with other end-fed systems.

Most small, physically short antennas exhibit narrow bandwidth, limiting your operating frequency range on the lower bands to 50 to 100 kHz with acceptable SWR. The ATSA's integral auto tuner always delivers the lowest possible SWR at any operating frequency with no operator adjustments necessary. Just change bands and the ATSA antenna will follow you!

The very low profile Remote Tuning Unit [RTU] is easily hidden, even in small bushes or shrubs. Just "plant" the RTU with supplied spikes and lay out the minimum length radials. The only thing visible is the wire antenna element, which can be made from small diameter wire for a near-zero visual impact. You can further camouflage the RTU with a plastic boulder or other items available at most landscaping stores.

The DX Engineering ATSA system is completely self-contained; even the required 12 Vdc power is carried by the coax. The ATSA will automatically match your coax to the antenna at any HF frequency within seconds. The complete system includes the RTU, stainless steel radial plate and hardware, radial wire, antennas wire, and two insulators. It's everything you will need to get on the air and operating right under their noses.

- Automatic bandswitching—tunes for lowest SWR
- Handles 200 watts SSB/CW
- Connect 12 Vdc power and RF through single coax feedline

DXE-ATSA-1	ATSA Multi-Band HF Antenna System.....	**$489.00**
DXE-SA80-AOK	Stealth Antenna 80M Tuning Coil Add-On Kit	**$49.95**

DIAMOND ANTENNA

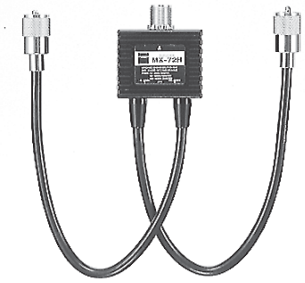
DMN-MX324

DMN-MX3000N

DMN-MX72D

DMN-MX62M

DMN-MX72H



DMN-MX72N

DMN-MX2000

DMN-MX3000

COMET

CMA-CF-4160I

CMA-CF-4160J

CMA-CF-4160K

CMA-CF-4160N

Diamond Duplexers

Part Number	Port*	Frequency	FM	PEP	Loss	Isolation	Mix Connector	Port Connector	Price
DMN-MX62M	LPF HPF	1.6-56 MHz 76-470 MHz	200 W 200 W	600 W 600 W	.2 dB .3 dB	50 dB 50 dB	SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$69.95**
DMN-MX610	LPF HPF	1.3-30 MHz 49-470 MHz	200 W 200 W	600 W 600 W	.2 dB .25 dB	45 dB 45 dB	SO-239	PL-259, No Cable	**$69.95**
DMN-MX72D	LPF HPF	1.6-30 MHz 140-150 MHz 400-600 MHz	400 W 150 W 100 W	1,000 W 400 W 250 W	.1 dB .1 dB .2 dB	60 dB 60 dB 60 dB	SO-239 SO-239	PL-259, No Cable PL-259, No Cable	**$46.95**
DMN-MX72H	LPF HPF	1.6-30 MHz 140-150 MHz 400-600 MHz	400 W 150 W 100 W	1,000 W 400 W 250 W	.1 dB .1 dB .2 dB	60 dB 60 dB 60 dB	SO-239 SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$49.95**
DMN-MX37	LPF HPF	1.6-470 MHz 900-1300 MHz	—	100 W 50 W	.25 dB .45 dB	45 dB 45 dB	Type N Female	PL-259, 12" 5D Cable Type N Male, 12" 5D Cable	**$59.95**
DMN-MX72N	LPF HPF	1.6-30 MHz 140-150 MHz 400-460 MHz	400 W 150 W 100 W	1,000 W 400 W 250 W	.1 dB .1 dB .1 dB	60 dB 60 dB 60 dB	SO-239 SO-239	PL-259, 12" 5D Cable Type N Male, 12" 5D Cable	**$49.95**
DMN-MX72A	LPF HPF	1.6-30 MHz 140-150 MHz 400-460 MHz	400 W 150 W 100 W	1,000 W 400 W 250 W	.1 dB .1 dB .1 dB	60 dB 60 dB 60 dB	Type N Female Type N Female	PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$54.95**

Diamond Triplexers

Part Number	Port*	Frequency	FM	PEP	Loss	Isolation	Mix Connector	Port Connector	Price
DMN-MX324	LPF BPF HPF	1.6-150 MHz 220-225 MHz 400-550 MHz	400 W 300 W 250 W	800 W 600 W 500 W	.3 dB .4 dB .4 dB	40 dB 40 dB 40 dB	SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$89.95**
DMN-MX2000	LPF BPF HPF	1.6-60 MHz 110-170 MHz 300-950 MHz	400 W 400 W 250 W	800 W 800 W 500 W	.15 dB .2 dB .25 dB	60 dB 60 dB 60 dB	SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable PL-259, 12" 5D Cable	**$83.95**
DMN-MX2000N	LPF BPF HPF	1.6-60 MHz 110-170 MHz 300-950 MHz	400 W 400 W 250 W	800 W 800 W 500 W	.15 dB .2 dB .25 dB	60 dB 60 dB 60 dB	SO-239	PL-259, 12" 5D Cable PL-259, 12" 5D Cable Type N Male, 12" 5D Cable	**$79.95**
DMN-MX3000	LPF BPF HPF	1.6-160 MHz 350-500 MHz 850-1300 MHz	400 W 200 W 100 W	800 W 400 W 200 W	.2 dB .3 dB .4 dB	55 dB 55 dB 55 dB	Type N Female	PL-259, 12" 5D Cable PL-259, 12" 5D Cable Type N Male , 12" 5D Cable	**$79.95**
DMN-MX3000N	LPF BPF HPF	1.6-160 MHz 350-500 MHz 850-1300 MHz	400 W 200 W 100 W	800 W 400 W 200 W	.2 dB .3 dB .4 dB	55 dB 55 dB 55 dB	Type N Female	PL-259, 12" 5D Cable Type N Male, 12" 5D Cable Type N Male , 12" 5D Cable	**$85.95**

Comet Duplexers

New!

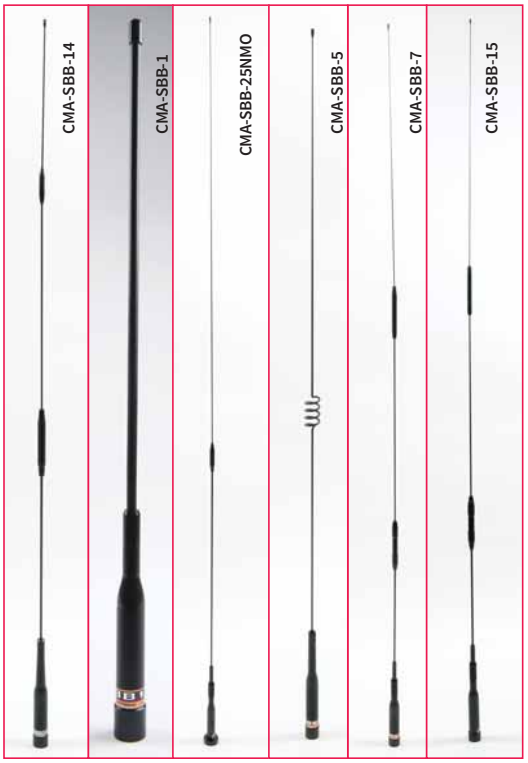
Part Number	Port*	Frequency	PEP	Loss	Isolation	Mix Connector	Port Connector	Price
CMA-CF-4160I	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB 60 dB	SO-239	UHF Male, PL-259 Type N Male	**$48.95**
CMA-CF-4160J	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB 60 dB	SO-239	UHF Female, SO-239 UHF Female, SO-239	**$53.95**
CMA-CF-4160K	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB 60 dB	SO-239	UHF Male, PL-259 UHF Male, PL-259	**$48.95**
CMA-CF-4160N	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB 60 dB	Type N Female	Type N Female Type N Female	**$58.95**
CMA-CF-416A	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB 60 dB	SO-239	PL-259 PL-259	**$49.95**
CMA-CF-416B	LPF HPF	1.3-170 MHz 350-540 MHz	800 W 500 W	.1 dB .2 dB	60 dB 60 dB	SO-239	PL-259 Type N Male	**$49.95**

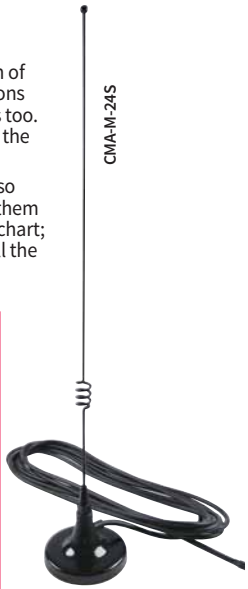
*LPF: Low Pass Filter, BPF: Band Pass Filter, HPF: High Pass Filter

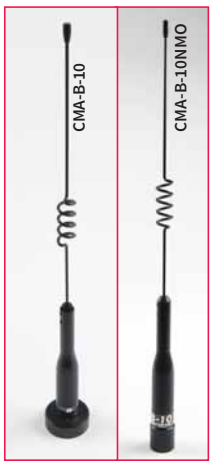
Mobile Antennas

Comet lets you take your show on the road with a vast selection of effective, reliable and durable mobile antennas. There are options for every common band, plus dual-band and tri-band antennas too. Comet also gives you several different antenna styles to ensure the installation in your vehicle stays clean and unobtrusive.

In addition to use in your vehicle, these mobile antennas are also great for Field Day or EMCOMM. Their rugged durability makes them portable, even in less-than-ideal conditions. Take a look at the chart; it is easy to find one that's perfect for your needs. You can get all the specs at DXEngineering.com.







Tri-Band

Part Number	Description	Height	Band(s)	Gain	Price
CMA-SBB-14	Tri-Band Mobile Antenna Black, Fold-Over, UHF Base	43"	6 Meter 2 Meter 70cm	— 3.5 dBi 6 dBi	**$59.95**
CMA-SBB-14NMO	Tri-Band Mobile Antenna Black, Fold-Over, NMO Base	43"	6 Meter 2 Meter 70cm	— 3.5 dBi 6 dBi	**$67.95**
CMA-SBB-15	Tri-Band Mobile Antenna Black, Fold-Over, UHF Base	61"	6 Meter 2 Meter 70cm	2.4 dBi 4.5 dBi 7.2 dBi	**$84.95**
CMA-SBB-224	Tri-Band Mobile Antenna Black, Fold-Over, UHF Base	36"	2 Meter 1.25 Meter 70cm	2.1 dBi 3.5 dBi 6 dBi	**$79.95**
CMA-SBB-224NMO	Tri-Band Mobile Antenna Black, Fold-Over, NMO Base	36"	2 Meter 1.25 Meter 70cm	2.1 dBi 3.5 dBi 6 dBi	**$78.95**
CMA-SBB-97	Tri-Band Mobile Antenna Black, Fold-Over, Type N Base	39"	2 Meter 70cm 1.2 GHz	3.0 dBi 6.8 dBi 9.6 dBi	**$79.95**

Monoband

Part Number	Description	Height	Band	Gain	Price
CMA-SBB-123	Monoband Mobile Antenna Black, Type N Mount	24"	23cm	7.2 dBi	**$54.95**
CMA-R-2000	Monoband Mobile Antenna Chrome, Type N Mount	19.25"	33cm	5.1 dBi	**$42.95**
CMA-TA-3	Monoband Mobile Antenna Black, Type N Mount	26"	33cm	6.2 dBi	**$59.95**
CMA-SBB-25	Monoband Mobile Antenna Black, UHF Mount	57"	2 Meter	4.1 dBi	**$48.95**
CMA-SBB-25NMO	Monoband Mobile Antenna Black, NMO Mount	57"	2 Meter	4.1 dBi	**$48.95**

Dual-Band

Part Number	Description	Height	Band(s)	Gain	Price
CMA-B-10	Dual-Band Mobile Antenna Black, UHF Mount	12"	2 Meter 70cm	— 2.1 dBi	**$42.95**
CMA-B-10NMO	Dual-Band Mobile Antenna Black, NMO Mount	12"	2 Meter 70cm	— 2.1 dBi	**$42.95**
CMA-SBB-1	Dual-Band Mobile Antenna Black, UHF Mount	16"	2 Meter 70cm	1.5 dBi 2.1 dBi	**$42.95**
CMA-SBB-1NMO	Dual-Band Mobile Antenna Black, NMO Mount	16"	2 Meter 70cm	1.5 dBi 2.1 dBi	**$42.95**
CMA-SBB-2	Dual-Band Mobile Antenna Black, UHF Mount	18"	2 Meter 70cm	2.1 dBi 3.8 dBi	**$42.95**
CMA-SBB-2NMO	Dual-Band Mobile Antenna Black, NMO Mount	18"	2 Meter 70cm	2.1 dBi 3.8 dBi	**$42.95**
CMA-SS-460SB	Dual-Band Mobile Antenna Black, UHF Spring Mount	18"	2 Meter 70cm	2.1 dBi 3.8 dBi	**$43.95**
CMA-SS-460SBNMO	Dual-Band Mobile Antenna Black, NMO Spring Mount	18"	2 Meter 70cm	2.1 dBi 3.8 dBi	**$43.95**
CMA-M-24B	Dual-Band Mobile Antenna, Magnet Mount, 12' Coax, PL-259	19.5"	2 Meter 70cm	1.7 dBi 4.1 dBi	**$39.95**
CMA-M-24M	Dual-Band Mobile Antenna, Magnet Mount, 12' Coax, Male BNC	19.5"	2 Meter 70cm	1.7 dBi 4.1 dBi	**$39.95**
CMA-M-24S	Dual-Band Mobile Antenna, Mag Mount, 12' Coax, Male SMA	19.5"	2 Meter 70cm	1.7 dBi 4.1 dBi	**$39.95**
CMA-M-24SJ	Dual-Band Mobile Antenna, Mag Mount, 12' Coax, Female SMA	19.5"	2 Meter 70cm	1.7 dBi 4.1 dBi	**$39.95**
CMA-SS-680SB	Dual-Band Mobile Antenna Black, UHF Spring Mount	27"	2 Meter 70cm	2.1 dBi 4.1 dBi	**$46.95**
CMA-SS-680SBNMO	Dual-Band Mobile Antenna Black, NMO Spring Mount	27"	2 Meter 70cm	2.1 dBi 4.1 dBi	**$46.95**
CMA-HP-32FHN	Dual-Band Mobile Antenna, Fold-Over, UHF Mount	35"	2 Meter 70cm	3 dBi 5.5 dBi	**$89.95**
CMA-SBB-5	Dual-Band Mobile Antenna Black, Fold-Over, UHF Mount	38"	2 Meter 70cm	3 dBi 5.5 dBi	**$58.95**
CMA-SBB-5NMO	Dual-Band Mobile Antenna Black, Fold-Over, NMO Mount	38"	2 Meter 70cm	3 dBi 5.5 dBi	**$58.95**
CMA-CSB-750A	Dual-Band Mobile Antenna, Fold-Over, UHF Mount	42"	2 Meter 70cm	3.6 dBi 6.1 dBi	**$74.95**
CMA-CSB-770A	Dual-Band Mobile Antenna, Fold-Over, UHF Mount	50"	2 Meter 70cm	4.4 dBi 6.9 dBi	**$89.95**
CMA-SBB-7	Dual-Band Mobile Antenna, Black, Fold-Over, UHF Mount	55"	2 Meter 70cm	4.5 dBi 7.2 dBi	**$79.95**
CMA-SBB-7NMO	Dual-Band Mobile Antenna, Black, Fold-Over, NMO Mount	55"	2 Meter 70cm	4.5 dBi 7.2 dBi	**$79.95**
CMA-CSB-790A	Dual-Band Mobile Antenna Fold-Over, UHF Mount	62"	2 Meter 70cm	5.1 dBi 7.7 dBi	**$99.95**

COMET™

Mobile Antenna Mounts

You've invested a lot of time and money in your mobile antenna, now make sure it stays put with a genuine Comet Antenna Mount. Comet gives you several mounting options and many require no drilling, so there are no unsightly holes to cover up. Whatever your antenna size may be, there's a quality mount available for it. Some mounts come in kit form, complete with cable assemblies and connectors. Others allow you the freedom to choose how to connect your antenna. Drive safe and operate freely, knowing your antenna is secured right where it's supposed to be, by choosing a Comet Antenna Mount.

Part Number	Description	Base Type	Includes	Price
CMA-3D4M	Standard Mobile Lip-Mount Cable Assembly	UHF (SO-239)	Mount, 13' of Coax, O-Ring, SO-239/ PL-259 Cable Connectors	**$27.95**
CMA-3D4N	Standard Mobile Lip-Mount Cable Assembly	Type N	Mount, 13' of Coax, O-Ring, SO-239/ PL-259 Cable Connectors	**$29.95**
CMA-3D5M	Standard Mobile Lip-Mount Cable Assembly	UHF (SO-239)	Mount, 16.5' of Coax, O-Ring, SO-239/ PL-259 Cable Connectors	**$29.95**
CMA-5D4N	Mobile Mount Cable Assembly	Type N	Mount, 13' of Coax, O-Ring, Type N Cable Connectors	**$34.95**
CMA-CK-3-3-8-24	Deluxe Mobile Mount Cable Assembly	3/8"-24 Receptacle	Mount, 16' of Coax, O-Ring, SO-239/ PL-259 Cable Connectors	**$42.95**
CMA-CK-3M	Deluxe Mobile Mount Cable Assembly	UHF (SO-239)	Mount, 9.75' of Coax, O-Ring, SO-239/ PL-259 Cable Connectors	**$35.95**
CMA-CK-3M5	Deluxe Mobile Mount Cable Assembly	UHF (SO-239)	Mount, 16' of Coax, O-Ring, SO-239/ PL-259 Cable Connectors	**$42.95**
CMA-CK-3NMO	Deluxe Mobile Mount Cable Assembly	NMO	Mount, 9.75' of Coax, O-Ring, NMO/ PL-259 Cable Connectors	**$42.95**
CMA-CK-5N	Deluxe Mobile Mount Cable Assembly (for RS-730)	Type N	Mount, 16' of Coax, O-Ring, Type N Cable Connectors	**$44.95**
CMA-CM-5M	Mobile Antenna Magnet Mount	UHF (SO-239)	Magnet Mount, Base, 13' of Coax, PL-259 Connectors, Rubber Boot	**$24.95**
CMA-CP-5M	Mobile Antenna Adjustable Lip Mount	UHF (SO-239)	Mount, 16' of Coax, SO-239 and PL-259 Cable Connectors	**$69.95**
CMA-CP-5NMO	Mobile Antenna Adjustable Lip Mount	NMO	Mount, 16' of Coax, NMO and PL-259 Cable Connectors	**$69.95**
CMA-CR-5M	Standard Cable Assembly	UHF (SO-239)	Mount, 16' of Coax, SO-239 and PL-259 Cable Connectors	**$21.95**
CMA-CT-5M	Mobile Antenna Trunk Lid Mount	UHF (SO-239)	Mount, 16' of Coax, Gasket, SO-239/ PL-259 Cable Connectors	**$39.95**
CMA-HD-5-3-8-24	Mobile Antenna Adjustable Lip Mount	3/8"-24 Receptacle	Mount, 16' of Coax, Rubber Pad, Set Screws, PL-259 Connector	**$69.95**
CMA-HD-5M	Mobile Antenna Adjustable Lip Mount	UHF (SO-239)	RS-840 Bracket, CK-3M5 Cable Assembly	**$69.95**
CMA-LD-5M	Mobile Antenna Small Adjustable Lip Mount	UHF (SO-239)	Mount, 16' of Coax, Rain Cap, SO-239/ PL-259 Cable Connectors	**$55.95**
CMA-MG-4N	Mobile Antenna Magnet Mount (2.5 GHz)	Type N	Magnet Mount, 13' of Coax, Rain Cap, Type N Cable Connector	**$54.95**
CMA-RS-660U	Mobile Antenna Adjustable Roof Rack Mount	—	Mount (SO-239 Connector Required)	**$37.95**
CMA-RS-520	Mobile Antenna Light-Duty Adjustable Lip Mount	—	Mount (SO-239 Connector Required)	**$28.95**
CMA-RS-720	Mobile Antenna Med.-Duty Adjustable Lip Mount	—	Mount (SO-239 Connector Required)	**$29.95**
CMA-RS-720NMO	Mobile Antenna Med.-Duty Adjustable Lip Mount	—	Mount (NMO Connector Required)	**$29.95**
CMA-RS-730	Mobile Antenna Heavy-Duty Adjustable Lip Mount	—	Mount (Connector Required)	**$32.95**
CMA-RS-840	Mobile Antenna Heavy-Duty Adjustable Lip Mount	—	Mount (Connector Required)	**$36.95**

MFJ

Mobile Antennas

Durable, powerful, mobile. MFJ gives you excellent, high-performance mobile antennas that will stand up to miles of use. Whatever band you choose, MFJ Mobile Antennas are designed with the serious operator in mind. For complete specs for any MFJ mobile antenna visit DXEngineering.com.

Mobile HamTenna Whip, 3/8"-24

MFJ-1606T 6M **$14.95**
MFJ-1610T 10M **$14.95**
MFJ-1615T 15M **$14.95**
MFJ-1617T 17M **$14.95**
MFJ-1620T 20M **$14.95**
MFJ-1640T 40M **$14.95**
MFJ-1675T 75M **$19.95**
MFJ-348T Trunk/Hatchback Mount for MFJ-1600 Series **$39.95**

2M/70cm Mobile Antenna

MFJ-1722 UltraLite Magnet Mount, BNC, 20" **$14.95**
MFJ-1722S UltraLite Magnet Mount, SMA, 20" **$14.95**
MFJ-1734 Glass Mount, with Coax, 26" **$44.95**
MFJ-1724B Magnet Mount, BNC HT Adapter, 26" **$24.95**
MFJ-1729 Magnet Mount, BNC HT Adapter, 27.5" **$39.95**
MFJ-1412 200 Watts, 40" **$29.95**
MFJ-1412B 200 Watts, Black Finish, 40" **$29.95**
MFJ-1414 200 Watts, 58.5" **$19.95**
MFJ-1422 150 Watts, 41.5" **$34.95**
MFJ-1422B 150 Watts, Black Finish, 41.5" **$32.95**
MFJ-1432 150 Watts, 62.5" **$49.95**
MFJ-1432B 150 Watts, 62.5" **$46.95**
MFJ-1402 RuffRider, Short-Style **$29.95**
MFJ-1402B RuffRider, Short-Style, Black Finish **$27.95**

Mobile Antennas from MFJ

MFJ-1723 1.25M Mobile Antenna, Magnet Mount, SO-239 and BNC, 22.5" **$37.95**
MFJ-1721 2M Mobile Antenna, UltraLite Magnet Mount with Coax, 20" **$12.95**
MFJ-1738 2M Mobile Antenna, Glass Mount, SlimLine Radiator, 27" **$34.95**
MFJ-1728B 2M/6M Mobile Antenna, Magnet Mount, BNC HT Adapter **$26.95**
MFJ-1434 2M/1.25M/70cm Mobile Antenna, RuffRider Triple Threat, 38" **$64.95**
MFJ-1436 6M/2M/70cm Mobile Antenna, RuffRider Triple Threat, 59" **$59.95**
MFJ-1438 10M/6M/2M/70cm Mobile Antenna, 150 Watts, 52" **$89.95**
MFJ-1456 HF/6M/2M/70cm Mobile Antenna, Fold-Over Design **$129.95**

More HF Mobile Antennas from MFJ

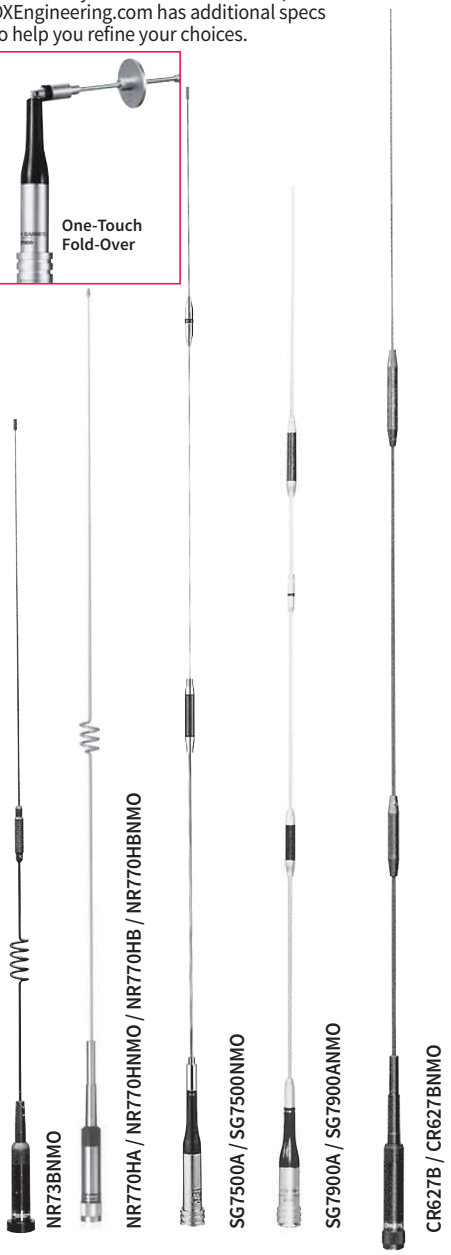
MFJ-2620T 20M Mobile Base-Loaded HF Whip, Adjusts from 22" to 54" **$28.95**
MFJ-2640T 40M Mobile HF Antenna, Low-Profile, Adjusts from 22" to 54" **$28.95**
MFJ-1624 40M-6M Mobile Antenna, Variable HF, Adjusts from 2.5" to 5.5" **$89.95**

International Shipping is Quick and Easy! See Page 58 for Details

DIAMOND ANTENNA

Mobile Antennas

Diamond offers you an extensive line of mobile antennas, so you can easily find one suited for your exact demands. These antennas are the ideal fusion of price, quality and versatility. Whether your priority is based on gain, height, power or aesthetics, there's a Diamond Antenna that's perfect for you. Check out the chart, DXEngineering.com has additional specs to help you refine your choices.



Supergainer Antennas

If you want an effective mobile wideband antenna that offers great performance without a lot of tuning and adjustment headaches, then Diamond's Supergainer series is perfect. These wideband antennas feature 24K gold plated connector pins for excellent continuity, and the fold-over design is invaluable if you face low overhead obstructions like garages or parking decks.

DMN-SG7000A 2M/70cm Wideband Antenna, UHF, 18.5" **$69.95**

DMN-SG7500A 2M/70cm Wideband Antenna, Radial-less, UHF, 40.6" **$69.95**

DMN-SG7500NMO 2M/70cm Wideband Antenna, Radial-less, NMO, 41" **$72.95**

DMN-SG7900A 2M/70cm Wideband Antenna, Radial-less, UHF, 62.2" **$99.95**

DMN-AZ507RSP 2M/70cm SlimGainer, Radial-less, UHF, 27.5" **$46.95**

Part Number	Description	Height	Band(s)	Gain	Price
	Monoband				
DMN-HF6FX	Mobile Antenna, UHF Mount	44"	6 Meter	2.1 dBi	**$69.95**
DMN-M685S	Mobile Antenna, UHF Mount	52.4"	6 Meter	2.1 dBi	**$31.95**
DMN-M685SNMO	Mobile Antenna, NMO Mount	52.4"	6 Meter	2.1 dBi	**$31.95**
DMN-HF6CL	Mobile Antenna Fold-Over, UHF Mount	86.6"	6 Meter	2.15 dBi	**$59.95**
DMN-M285S	Mobile Antenna Trim-to-Tune, UHF Mount	50"	2 Meter	3.4 dBi	**$31.95**
DMN-M285SNMO	Mobile Antenna Trim-to-Tune, NMO Mount	50"	2 Meter	3.4 dBi	**$31.95**
DMN-NR22L	Mobile Antenna Fold-Over, UHF Mount	96.8"	2 Meter	6.5 dBi	**$64.95**
DMN-NR140BNMO	Mobile Antenna Fold-Over, NMO Mount	36.2"	1.25 Meter	3.8 dBi	**$46.95**
DMN-NR124NMO	Mobile Antenna Fold-Over, NMO Mount	25"	23cm	8.4 dBi	**$54.95**
DMN-NR124N	Mobile Antenna Fold-Over, Type N Mount	25"	23cm	8.4 dBi	**$49.95**
	Dual-Band				
DMN-AZ504FXH	Mobile Antenna UHF Mount	15.5"	2 Meter 70cm	— 2.1 dBi	**$39.95**
DMN-AZ504SP	Mobile Antenna Spring Base, UHF Mount	15.5"	2 Meter 70cm	— 2.1 dBi	**$39.95**
DMN-CR270A	Mobile Antenna UHF Mount	17"	2 Meter 70cm	2.1 dBi 3.4 dBi	**$42.95**
DMN-NR72BNMO	Mobile Antenna NMO Mount	13.8"	2 Meter 70cm	2.1 dBi	**$39.95**
DMN-MR73SJ	Mobile Antenna with Mini Mag-Mount, Coax, SMA Male	19.5"	2 Meter 70cm	2.1 dBi 3.4 dBi	**$26.95**
DMN-MR73SMA	Mobile Antenna with Mini Mag-Mount, Coax, SMA Female	19.5"	2 Meter 70cm	2.1 dBi 3.4 dBi	**$26.95**
DMN-MR75SJ	Mobile Antenna with Mini Mag-Mount, Coax, SMA Male	20"	2 Meter 70cm	2.5 dBi 3.4 dBi	**$36.95**
DMN-MR75S	Mobile Antenna with Mini Mag-Mount, Coax, SMA Female	20"	2 Meter 70cm	2.5 dBi 3.4 dBi	**$36.95**
DMN-MR77	Mobile Antenna with Mini Mag-Mount, Coax, UHF Male	20"	2 Meter 70cm	2.1 dBi 3.4 dBi	**$37.95**
DMN-MR77SJ	Mobile Antenna with Mini Mag-Mount, Coax, SMA Female	20"	2 Meter 70cm	2.1 dBi 3.4 dBi	**$37.95**
DMN-MR77SMA	Mobile Antenna with Mini Mag-Mount, Coax, SMA Male	20"	2 Meter 70cm	2.1 dBi 3.4 dBi	**$37.95**
DMN-NR73BNMO	Mobile Antenna Radial-less, NMO Mount	33.5"	2 Meter 70cm	2.1 dBi 5.3 dBi	**$54.95**
DMN-NR770HNMO	Chrome Mobile Antenna Radial-less, NMO Mount	38.2"	2 Meter 70cm	3 dBi 5.5 dBi	**$53.95**
DMN-NR770HBNMO	Black Mobile Antenna Radial-less, NMO Mount	38.2"	2 Meter 70cm	3 dBi 5.5 dBi	**$53.95**
DMN-NR770HA	Chrome Mobile Antenna Radial-less, UHF Mount	40.2"	2 Meter 70cm	3 dBi 5.5 dBi	**$48.95**
DMN-NR770HB	Black Mobile Antenna Radial-less, UHF Mount	40.2"	2 Meter 70cm	3 dBi 5.5 dBi	**$53.95**
DMN-NR770HRKS	Mobile Antenna w/Coax Adhesive-Mount, SMA/UHF Adapter	40.2"	2 Meter 70cm	3 dBi 5.5 dBi	**$109.95**
DMN-NR7900A	Mobile Antenna Fold-Over, UHF Mount	57"	2 Meter 70cm	3.7 dBi 6.4 dBi	**$84.75**
DMN-SG7900ANMO	Mobile Antenna Fold-Over, NMO Mount	62"	2 Meter 70cm	5 dBi 7.6 dBi	**$114.95**
	Tri-Band				
DMN-CR320A	Mobile Antenna Fold-Over, UHF Mount	37.4"	2 Meter 1.25 Meter 70cm	2.1 dBi 3.8 dBi 5.5 dBi	**$79.95**
DMN-CR320BNMO	Mobile Antenna Fold-Over, NMO Mount	37.4"	2 Meter 1.25 Meter 70cm	2.1 dBi 3.8 dBi 5.5 dBi	**$79.95**
DMN-CR627B	Mobile Antenna Fold-Over, UHF Mount	60"	6 Meter 2 Meter 70cm	2.1 dBi 4.5 dBi 7.2 dbi	**$94.95**
DMN-CR627BNMO	Mobile Antenna Fold-Over, NMO Mount	60"	6 Meter 2 Meter 70cm	2.1 dBi 4.5 dBi 7.2 dbi	**$94.95**
DMN-NR2000NA	Mobile Antenna Fold-Over, Type N Mount	39"	2 Meter 70cm 23cm	3.1 dBi 6.3 dBi 9.7 dBi	**$84.95**
	New! Quad-Band				
DMN-CR8900A	Mobile Antenna, for Yaesu FT-8900/8900R, SO-239, Not Recommended for Magnet Mounts	50"	10 Meter 6 Meter 2 Meter 70cm	2.1 dB 2.1 dB 2.1 dB 5.5 dB	**$99.95**

Get Your Gear Faster. If you get your order in by 10 pm ET and the parts are in stock, DX Engineering will ship it immediately. We carry thousands of items, that means you'll get your order as quickly as possible. If you don't like to wait, count on us to get your order out quickly.

Screwdriver Antenna Controllers

AMERITRON®

Perfect for adjusting your motorized screwdriver antenna, these units connect between your mobile transceiver and antenna. You can program and store your settings, allowing you to quickly change setups.

These interfaces have an intuitive display, a stall protector to avoid burning out your motor and a Dead-OnSTOP function to eliminate overshoot. There's even a nifty AutoPark feature that bottoms-out your antenna so it doesn't bash into low overhangs and garages.

New!

A sensor is required for the counter and automatic operation.

AME-SDC-102	Universal Controller	**$129.95**
AME-SDC-103	Controller for Icom Radios with CIV Interface	**$149.95**

K400 Series Trunk and Hatchback Mounts

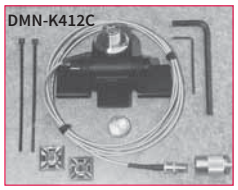
DMN-K400

The K400 Series features deluxe heavy-duty mounts that are ideal for large VHF/UHF and medium-sized HF antennas—including many popular screwdriver antennas. These strong mounts are adjustable, so you can install them vertically or horizontally without drilling any holes in your vehicle's body.

DMN-K400	Trunk/Hatchback Mount	**$39.95**
DMN-K400-3-8C	K400 Mount, 6.5' Coax, 3/8"-24 Base/Mini UHF Cable Connector	**$73.95**
DMN-K400C	K400 Mount, 6.5' Coax, SO-239 Base/Mini UHF Cable Connector	**$73.95**
DMN-K400CNMO	K400 Mount, 6.5' Coax, NMO Base/Mini UHF Cable Connector	**$73.95**
DMN-K400S	K400 Mount, 13.6' Coax, SO-239 Base/ SMA Male Cable Connector	**$79.95**
DMN-K400SNMO	K400 Mount, 13.6' Coax, NMO Base/SMA Male Cable Connector	**$79.95**

K412 Series Trunk and Hatchback Mounts

DMN-K412SNMO



DMN-K412C

These mounts are similar to Diamond's K400 series, but are tailored for medium-duty applications. K412 Series Trunk and Hatchback mounts are perfect for medium-sized HF antennas under 45 inches.

DMN-K412C	K412 Mount, 6.6' Coax, SO-239 Base/Mini UHF Cable Connector	**$59.95**
DMN-K412CNMO	K412 Mount, 6.6' Coax, NMO Base/Mini UHF Cable Connector	**$59.95**
DMN-K412S	K412 Mount, 13.6' Coax, SO-239 Base/SMA Mable Cable Connector	**$69.95**
DMN-K412SNMO	K412 Mount, 13.6' Coax, NMO Base/SMA Mable Cable Connector	**$69.95**

Weather Cap

Keep your exposed SO-239 connector free of corrosion and debris, and ensure that your antenna mount is always ready when you need it. It's great to use when you remove your antenna before going through a car wash.

DMN-31005	Weather Cap	**$3.35**

New!

DMN-C213

DMN-C101

DMN-C110

Hole Mount Cable Assemblies

Whether used as stand-alone antenna mounts or cable extensions, these assemblies will help you create a clean installation. They feature slim 1/8 inch diameter PTFE coax and mini UHF connectors, allowing you to easily thread these mounts through holes, between panels and around corners.

DMN-C101	6.5' Coax, SO-239 Base/Mini UHF Cable Connector	**$37.95**
DMN-C10138CKIT	6.5' Coax, 3/8"-24 Base/Mini UHF Cable Connector	**$44.95**
DMN-C101NMO	6.5' Coax, NMO/Mini UHF Cable Connector	**$37.95**
DMN-C211	6.5' Coax, SO-239/Mini UHF Cable Connector, C110 Ext. Cable	**$49.95**
DMN-C213SMA	13.6' Coax, SO-239/SMA Male Cable Connector	**$44.95**
DMN-C213SNMO	13.6' Coax, NMO/SMA Male Cable Connector	**$44.95**

K9000 Series Mobile Motor Drive Mounts

DIAMOND ANTENNA

DMN-K9000LRM

DMN-K9000LRMO

Raise and lower your dual-band mobile antenna with the touch of a button. A 12V cigarette lighter plug-powered manual switch allows you to tilt your antenna up and down—perfect for garages or low overpasses. A 20 foot long DC power cord is included to complete your setup. These mounts are compatible with antennas that are under 45 inches tall, and don't require a ground. They are designed to mount securely to your luggage rack/tubing or trunk/hatch lip.

DMN-K9000LRM	Mobile Drive Mount for Small, Tubular Luggage Rack	**$104.95**
DMN-K9000LRMO	Mobile Drive Mount for Large, Oversize Luggage Rack	**$104.95**
DMN-K9000TM	Mobile Drive Mount for Trunk Lid or Hatchback	**$104.95**

HRKS Adhesive Backed Antenna Mount

If you don't want to drill a hole or put a mag-mount on your car, Diamond offers an adhesive backed antenna mount that securely adheres to glass, steel, fiberglass—virtually any smooth, flat surface. When it's time to remove the mount, just use some fishing line to "saw" it off without a trace. This two-piece adjustable mount has an SO-239 antenna base, 13.6 feet of coax ending in an SMA male connector and an SMA female to PL-259 adapter.

DMN-HRKS	Adhesive Backed Antenna Mount	**$69.95**

Magnet Mounts

DMN-SPM35

A magnet mount that stays put! These deluxe mounts feature powerful magnets housed in a heavy four to six inch diameter base. The deluxe model can even hold antennas up to 50 inches tall. If you need a magnet mount that you can set-and-forget, Diamond gives you plenty of choices.

DMN-DPK4NM-N	Magnet Mount, 13' Coax, Type N, for 45" Antenna Max	**$52.95**
DMN-K702M	Magnet Mount, Deluxe Low-Profile, PL-259, for 50" Antenna Max	**$49.95**
DMN-SPM35	Magnet Mount, 13' Coax, PL-259, for 45" Antenna Max	**$44.95**
DMN-SPMNMO	Magnet Mount, 13' Coax, NMO, for 45" Antenna Max	**$49.95**

DMN-K702M

Heavy-Duty Trunk Mounts

If you're running a high-gain VHF/UHF mobile antenna, Diamond's Heavy Duty Trunk Mounts are perfect for your setup. With an adjustable range of 0-9 degrees, a super strong screw-type installation and weatherproof construction, these are versatile, worry-free mounts. The aerodynamic styling will look great on your trunk, too.

DMN-K600M	Trunk Mount, 10' Coax, SO-239 Base/ PL-259 Cable Connector	**$59.95**
DMN-K600S	Trunk Mount, 10' Coax, SO-239 Base/ SMA Male Cable Connector	**$62.95**

K515, K540 and K550 Series Luggage Rack Mounts

DMN-K540

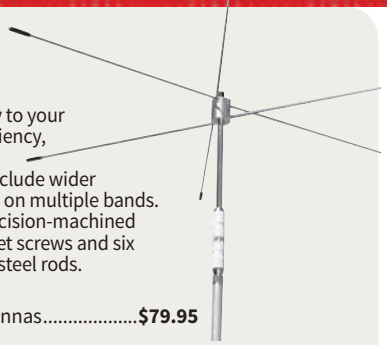
DMN-K515SNMO

DMN-K550KM

Ideal for your vehicle's luggage rack, these mounts clamp securely for a stable connection. The K540 Series can even clamp to your long mirror arm or any 1/2 to 7/8 inch tubing. Every model includes a handy fold-down feature, so you can lower your antenna for garages and parking decks. All three series are well suited for lightweight and medium-sized antennas. Diamond's K515 Series is recommended for antennas under 50 inches tall, and the K550 Series is great for antennas under 45 inches.

DMN-K515S	K515 Mount, 13.6' Coax, SO-239 Base/SMA Male Cable Connector	**$69.95**
DMN-K515SNMO	K515 Mount, 13.6' Coax, NMO Base/SMA Male Cable Connector	**$69.95**
DMN-K540	Luggage Rack Mount	**$35.95**
DMN-K540KM	K540 Mount, 13' Coax, SO-239 Base/PL-259 Cable Connector	**$59.95**
DMN-K550	Luggage Rack Mount	**$44.95**
DMN-K550KM	K550 Mount, 13' Coax, SO-239 Base/PL-259 Cable Connector	**$69.95**

Hot Rodz® Capacity Hat for Hustler Mobile Antennas



This fully adjustable system attaches directly to your Hustler HF antenna. Hot Rodz improves efficiency, allowing the use of a smaller loading coil for a given frequency band. Other benefits include wider bandwidth and the ability to use a single coil on multiple bands. The Hot Rodz Capacity Hat comes with a precision-machined 6061-T6 aluminum hub with stainless steel set screws and six each of 6 inch, 12 inch, and 24 inch stainless steel rods.

DXE-HR-1P Hot Rodz Capacity Hat for Hustler Mobile Antennas **$79.95**

Hot Rodz® Capacity Hat for Screwdriver Antennas

This fully adjustable system attaches directly to any screwdriver antenna. Hot Rodz allows you to remove the long whip from your antenna while increasing efficiency, so you can use less coil for any given frequency. The Hot Rodz Capacity Hat comes with a 22 inch tall mast, and six each of the 6 inch, 12 inch and 24 inch stainless steel rods.

DXE-HR-2P Hot Rodz Capacity Hat for Screwdriver Antennas **$99.95**

Hot Rodz® Capacity Hat Components

Increase the efficiency of your own shortened antenna by building your own Hot Rodz Capacity Hat system. Visit DXEngineering.com for complete details.

DXE-HRHUB-1P	Hot Rodz Hub, Smooth Bore with Set Screws	**$27.50**
DXE-HRHUB-2P	Hot Rodz Hub, Threaded Bore	**$29.95**
DXE-RODZ-48P	Hot Rodz 48" Stainless Steel Rods	**$29.95**
DXE-RODZ-36P	Hot Rodz 36" Stainless Steel Rods	**$23.75**
DXE-RODZ-60P	Hot Rodz 60" Stainless Steel Rods	**$31.25**
DXE-RODZ-72P	Hot Rodz 72" Stainless Steel Rods	**$34.95**

Dual Impedance Antenna Transformer

This unbalanced to unbalanced (UNUN) impedance transformer matches a 50 Ω to 25 Ω or 12.5 Ω connection. Use it to get a better match between a feedline and a typical mobile antenna. It works well with Hot Rodz® Capacity Hat-equipped antennas.

DXE-MM-1 Dual Impedance Antenna Transformer **$109.95**

RFI Suppression Beads

DX Engineering has selected the best RFI suppression beads for reducing cable-conducted ignition, fuel injector, or other electrical noise in your mobile HF installation. We have observed a 3 S-unit improvement in many cases using these beads. The beads snap around wire or cable, and are useful in your home installation as well. The combo pack has four of the 0.275 inch diameter beads and two each of the 0.525 inch and 0.750 inch diameter beads.

DXE-CSB-COMBO	RFI Suppression Beads Combo Pack	**$35.95**
DXE-CSB-275P	0.275" RFI Suppression Beads, Pack of 10	**$23.25**
DXE-CSB-525P	0.525" RFI Suppression Beads, Pack of 5	**$22.25**
DXE-CSB-750P	0.750" RFI Suppression Beads, Pack of 5	**$25.80**

NCG Antenna Mount Adapters

Stretch your mobile antenna budget by using NCG Antenna Mount Adapters. Instead of buying a new mount for your new antenna, You can repurpose your existing mount using these adapters. Made from top quality materials, these no-compromise mounts will speed up new antenna installs.

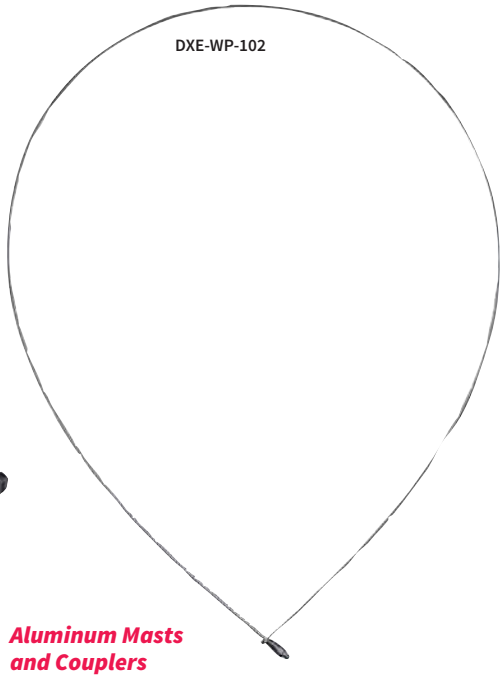
NCG-AD-10N	Antenna Mount Adapter, Type N Female to NMO	**$17.95**
NCG-AD-15M	Antenna Mount Adapter, NMO to SO-239	**$17.95**
NCG-AD-25M	Antenna Mount Adapter, Converts SO-239 Mount to NMO	**$14.95**
NCG-AD-35M	Antenna Mount Adapter, SO-239 to 3/8"-24	**$17.95**

Hustler Standard and Super Resonators and Parts

Individual Hustler Resonators are available for 10, 12, 15, 17, 20, 30, 40, 75, and 80 meters. The standard resonators can handle 400 watts Peak Envelope Power (PEP). The Super Resonators can handle 1 kW PEP and have slightly more bandwidth. They are available for 40 and 80 meters.

Use these resonators with Hustler's mounts, mobile masts, and other accessories to build a custom mobile antenna. Use DX Engineering Hot Rodz™ capacity hats and other accessories with these resonators to improve antenna efficiency.

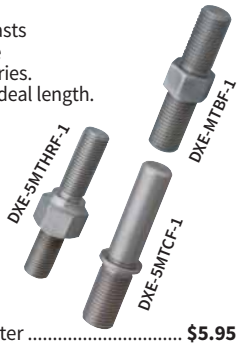
HSR-RM-10	10 Meter Hustler HF Resonator, 150-250 kHz	**$18.95**
HSR-RM-12	12 Meter Hustler HF Resonator, 100-150 kHz	**$18.95**
HSR-RM-15	15 Meter Hustler HF Resonator, 100-150 kHz	**$18.95**
HSR-RM-17	17 Meter Hustler HF Resonator, 120-150 kHz	**$25.95**
HSR-RM-20	20 Meter Hustler HF Resonator, 80-100 kHz	**$25.95**
HSR-RM-30	30 Meter Hustler HF Resonator, 50-60 kHz	**$28.95**
HSR-RM-40	40 Meter Hustler HF Resonator, 40-50 kHz	**$29.95**
HSR-RM-40S	40 Meter Super HF Resonator, 50-80 kHz	**$41.95**
HSR-RM-75	75 Meter Hustler HF Resonator, 50-60 kHz	**$32.95**
HSR-RM-75S	75 Meter Super HF Resonator, 50-60 kHz	**$57.95**
HSR-RM-80	80 Meter Hustler HF Resonator, 25-30 kHz	**$32.95**
HSR-RM-80S	80 Meter Super HF Resonator, 50-60 kHz	**$57.95**
HSR-3774-1	Replacement Ferrules for Hustler Resonators	**$0.95**
HSR-49-04-40S	Whip Replacement for DXE-RM-40S Super Resonator	**$5.75**
HSR-49-04-80S	Replacement Whip/Corona Ball for 75 and 80 Meter Super Resonators	**$8.35**



Aluminum Masts and Couplers

DX Engineering 1/2 inch O.D., 0.084 inch wall aluminum masts are available in lengths from 24 to 72 inches. Both ends are tapped to standard 3/8"-24 threads to fit common accessories. Couple two masts together with our fittings to make your ideal length.

Fittings are available to add resonators or a Hot Rodz® Capacity Hat to the top of the antenna.



DXE-MT-24	24" Aluminum Mast	**$19.95**
DXE-MT-36	36" Aluminum Mast	**$23.95**
DXE-MT-48	48" Aluminum Mast	**$27.95**
DXE-MT-54	54" Aluminum Mast	**$28.95**
DXE-MT-60	60" Aluminum Mast	**$31.95**
DXE-MT-72	72" Aluminum Mast	**$35.95**
DXE-5MTCF-1	Coupler, 3/8"-24 at Both Ends, Hex Center	**$5.95**
DXE-MTBF-1	Coupler, 3/8"-24 at Both Ends, Hex Center with Shoulder	**$6.95**
DXE-5MTHRF-1	Coupler, 3/8"-24 End and Smooth End	**$4.95**
DXE-WP-102	Mobile Whip Antenna, 102", 3/8"-24 Mount	**$24.99**
HSR-QD-2	Hustler Stainless Steel Quick Disconnect, 3/8"-24	**$24.95**
HSR-MO-2	Hustler 54" Folding Mast for Fender/Bumper Mount	**$36.95**
HSR-MO-4	Hustler Non-Folding Mast, 22" Total Length	**$24.95**

Use the HSR-QD-2 Quick Disconnect to quickly disconnect one mast from another. The HSR-MO-2 Folding Mast allows quick change of Hustler resonators.

Mobile Antenna Mounts

HSR-SSM-2	Heavy-Duty Stainless Steel Ball Mount, 2" Diameter	**$32.95**
HSR-SSM-3	Stainless Steel Spring, 3"	**$29.95**
HSR-L-14-144	12' RG-58/PL-259 to Lugs, Coax to Ball Mount	**$9.95**
HSR-VP-1	Tri-Band Adapter for HF Mobile Antenna	**$8.95**
HSR-QD-2	Stainless Steel Quick Disconnect, 3/8"-24	**$24.95**
HSR-RSS-2	Stainless Steel "Resonator" Impact Spring	**$14.95**
HSR-MBM	Super Magnetic Mount, 16' coax, 3/8"-24 Antenna	**$24.95**

Recreational Vehicle Mount

This mount is designed for a vertical side panel or roof installation, ideal for larger vehicles. It swivels 180 degrees and will accept most flexible antennas up to 55 inches long with 3/8"-24 bases. The mount includes a grommet for panel pass-through and 17 feet of RG58/U with a PL-259 connector.

HSR-RVM Recreational Vehicle Mount.....**$23.95**

Replacement Trap Caps

Use these genuine Hustler parts as trap caps on your BTV Series HF antenna.

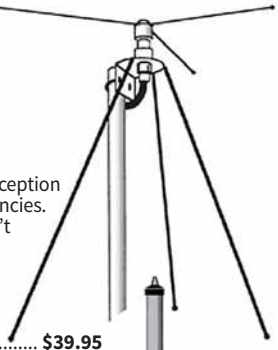
HSR-TRAPCVR-P Replacement Trap Caps, Set of 4.....**$13.95**

HUSTLER New!

Discone Base Station Scanner Antenna

Match this antenna to your scanner and get excellent reception on public service, aircraft, mobile and telephone frequencies. It's vertically polarized, covers 40 to 950 MHz and doesn't need adjusting. The antenna is 54 inches high with an 18 inch diameter. A 50 foot cable with a BNC male connector is included.

HSR-DCL-B Discone Base Station Antenna **$39.95**



New!

Extreme Duty 2 Meter Base Antenna

The ultimate 2 meter antenna, perfect for serious operators and club stations. This antenna can handle 600 watts and provides 8.1 dBi of gain with 4 MHz of Bandwidth. The heavy duty, 19.5 foot fiberglass radome will withstand wind gusts up to 140 mph.

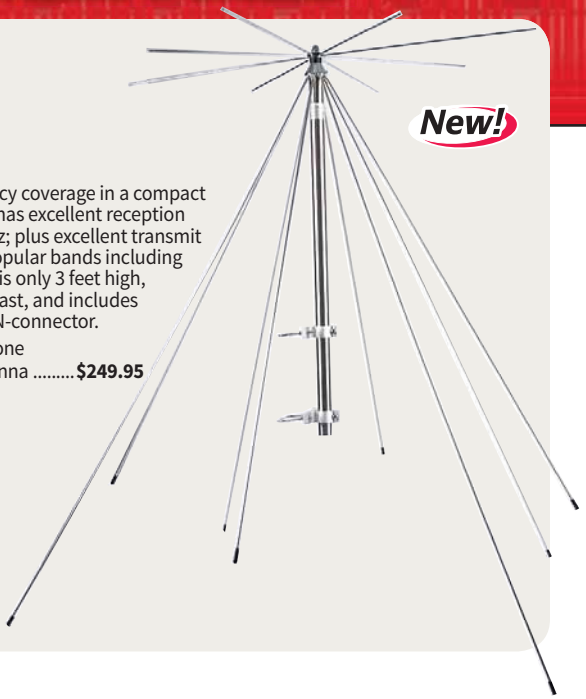
HSR-HX6-14448 Extreme Duty 2M Base Antenna..... **$999.95**

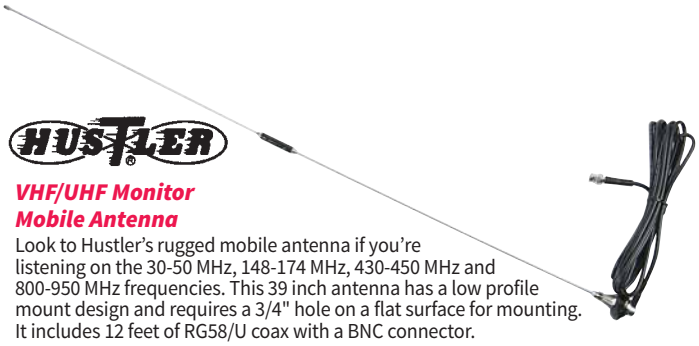
ICOM

Discone Antenna

Get super-wide frequency coverage in a compact package. This antenna has excellent reception from 100 MHz to 2.3 GHz; plus excellent transmit capabilities on many popular bands including 2M, 70cm, and 23cm. It is only 3 feet high, mounts to any 2 inch mast, and includes 49 feet of coax with an N-connector.

ICO-AH-8000 Discone Antenna **$249.95**





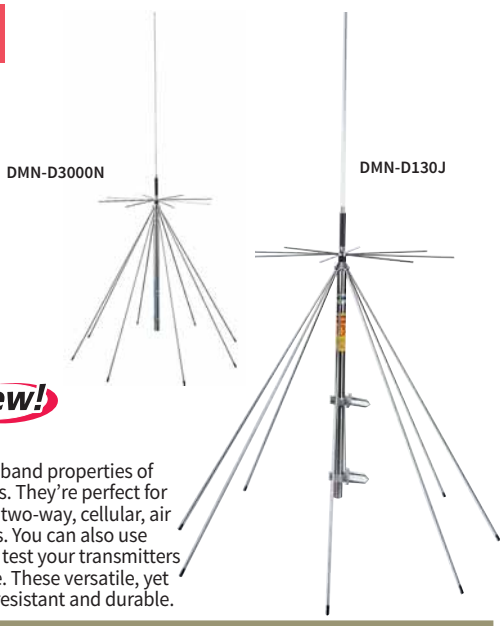
HUSTLER

VHF/UHF Monitor Mobile Antenna

Look to Hustler's rugged mobile antenna if you're listening on the 30-50 MHz, 148-174 MHz, 430-450 MHz and 800-950 MHz frequencies. This 39 inch antenna has a low profile mount design and requires a 3/4" hole on a flat surface for mounting. It includes 12 feet of RG58/U coax with a BNC connector.

HSR-MOR-B Mobile Monitor Antenna **$24.95**

DIAMOND ANTENNA



New!

Mobile/Base Discone Antennas

Take advantages of the wideband properties of Diamond's Discone Antennas. They're perfect for Amateur Radio, commercial two-way, cellular, air traffic and utility frequencies. You can also use these as "shop" antennas to test your transmitters with one run of coaxial cable. These versatile, yet compact antennas are rust-resistant and durable.

Part Number	Description	Height	TX Frequency	RX Frequency	Price
DMN-D130J	Super Discone, SO-239, Base	66.9"	50-1300 MHz	25-1300 MHz	**$104.95**
DMN-D130NJ	Super Discone, Type N, Base	66.9"	50-1300 MHz	25-1300 MHz	**$104.95**
DMN-D3000N	Super Discone, Type N, Base	66.9"	50-1200 MHz	25-3000 MHz	**$129.95**
DMN-D220	Mobile* Discone, SO-239, Scanner	35.5"	144-1300 MHz	100-1300 MHz	**$109.95**

*Designed for Diamond's K400S, K400C, K600M, and K600S Mobile Mounts

Vertical VHF/UHF Antennas

Reach out further and get maximum performance with Comet Antennas. These antennas all feature durable construction, so they are ideal for rough-weather environments. There are fiberglass and aluminum options for many applications and every antenna comes with Comet's superior quality, coverage and gain. The complete specs on every Comet Antenna can be found at DXEngineering.com.

CMA-GP-21	23cm UHF Base Vertical, 14.9 dBi Gain, 8'	**$159.95**
CMA-KP-20	33cm UHF Base Vertical, 9.2 dBi Gain, 8'	**$119.95**
CMA-CA-712EF	70cm Base Vertical, 9 dBi Gain, 10.5'	**$109.95**
CMA-CA-F72GF	70cm Base Vertical, 5.5 dBi Gain, 3.5'	**$109.95**
CMA-CA-F72GFL	70cm Base Vertical, Tunable, 5.5 dBi Gain, 3.5'	**$105.95**
CMA-CA-SUPER22	1.75M Base Vertical, 6.6 dBi Gain, 8'	**$159.95**
CMA-CA-F22GF	2M Base Vertical, SO-239, 5.5 dBi Gain, 8.9'	**$149.95**
CMA-CA-F22GFN	2M Vertical Antenna, Type N, 5.5 dBi Gain, 8.9'	**$149.95**
CMA-CFM-95SL	Tunable LPFM Broadcast Antenna, 3.4 dBi Gain, 7.7'	**$112.95**
CMA-GP-1	2M/70cm Base Vertical, 3/6 dBi Gain, 4'	**$74.95**
CMA-GP-3	2M/70cm Base Vertical, 4.5/7.2 dBi Gain, 5.9'	**$99.95**
CMA-GP-6	2M/70cm Base Vertical, 6.5/9 dBi Gain, 10.1'	**$149.95**
CMA-GP-9	2M/70cm Base Vertical, SO-239, 8.5/11.9 dBi Gain, 18.5'	**$199.95**
CMA-CX-333	2M/1.75M/70cm Base Vertical, 6.5/7.8/9 dBi Gain, 10.4'	**$179.95**
CMA-GP-95	2M/70cm/23cm Base Vertical, 6/8.6/12.8 dBi Gain, 8'	**$169.95**
CMA-GP-98	2M/70cm/23cm Base Vertical, 6.5/9/13.5 dBi Gain, 9.7'	**$189.95**
CMA-GP-15	6M/2M/70cm Base Vertical, 3/6.2/8.6 dBi Gain, 7.9'	**$169.95**

S9V Series Vertical Antennas

New!

Tough, yet lightweight non-resonant verticals, these multi-band antennas will quickly get you on several popular bands. They handle 1,500 watts and use wire pigtail connections.

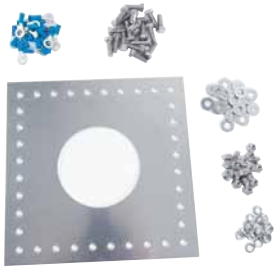
Installation is easy: simply slide the bottom antenna tube over a properly sized and mounted pipe. You can also roof-mount these antennas with a basic tripod setup. They're ideal for both permanent and temporary stations.

For peak performance, you'll need a proper radial setup for these antennas. Depending on the application, a 1:1 choke or a 4:1 balun is recommended. DXEngineering.com can tell you all the details.

Part Number	Band Coverage	Height	Mounting Pipe Size	Price
LDG-S9V18	20 to 6 Meters	18'	1" O.D.	**$49.95**
LDG-S9V31	40 to 6 Meters	31'	1.625" O.D.	**$99.95**
LDG-S9V43	80 to 6 Meters	43'	1.9" O.D.	**$199.95**

Aluminum Radial Plate

New!



Get your HF vertical performing at it's fullest potential with this radial plate. It creates the grounding point for your radials and contributes to proper antenna counterpoise. You can also use it to ground your remote tuner, balun or length of coax.

The plate is an 8" x 8" square and includes 20 stainless steel bolt sets.

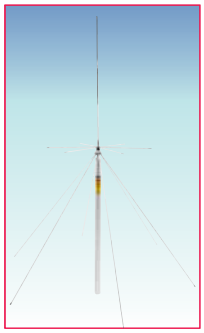
LDG-S9RP Aluminum Radial Plate.....**$39.95**

HF/VHF Vertical Antenna

If you have too little space or too much regulation in your neighborhood, Comet comes through with a powerful and compact all-in-one antenna. It is easy to set up, with no need for radials, tuning or adjustments. Yet, this antenna gives you a VSWR under 1.6:1 from 3.5 MHz to 57 MHz! Its under 24 feet tall too, which will keep the neighbors happy.

CMA-CHA-250B HF/VHF Vertical Antenna **$399.95**

DS-150S Discone Base Antenna



If you're living in an apartment where space is limited or in a community where larger antennas are frowned upon, then this compact antenna will let you stay in the game. It is less than five feet high and three feet wide, but covers 25 to 1300 MHz (receive). Transmitting is possible on the 6M, 2M, 70cm and 33cm bands, plus 1.2 GHz without a tuner. This antenna could be the perfect solution for your scanner or VHF/UHF transceiver.

CMA-DS-150S Discone Base Antenna.....**$95.95**

VHF/UHF Beam Antennas

Comet offers you two stellar Yagi antennas, one for the 6M band and one for the 23cm band. They're compact and lightweight, and have stainless steel hardware so they're rugged enough to last for years. Installation is easy, and the CYA-1216E comes pre-assembled.

CMA-CYA-1216E 23cm Beam Antenna, 5.25' Boom, 16-Element, 16.6 dBi Gain.....**$139.95**

CMA-CA-52HB4 6M Wideband Beam Antenna, 10.5' Boom, 4-Element, 10.5 dBi Gain.....**$129.95**

Wi-Fi Antennas

For exceptional performance at 2.4 GHz, Comet offers three exceptional options. Full details on coverage and dimensions are at DXEngineering.com.

Comet's GP-24R High Gain Wi-Fi Access Point Antenna delivers a whopping a 12 dBi of gain in a narrow elevation pattern. It provides excellent coverage because it reaches out directly towards the horizon.

Designed to meet strict coverage requirements, the GP-24-3R and GP-24SR antennas are well suited for Wi-Fi, MESH, Base or repeater installations. They have a heavy-duty fiberglass radome, with stainless steel clamps.

CMA-GP-24R High Gain Wi-Fi Access Point Antenna.....**$149.95**

CMA-GP-24-3R Omnidirectional 2.4 GHz Base Antenna, 70" Tall **$159.95**

CMA-GP-24SR Omnidirectional 2.4 GHz Base Antenna, 39" Tall **$99.95**

MESH 2.4 GHz Base Vertical Antenna

As activity on the 13cm band continues to grow, Comet Antennas offers you an antenna that lets you get in on the action. This antenna is less than two feet long, yet gives you 7.4 dBi of gain and over 100 MHz of bandwidth at 2:1 SWR. Whether you're developing your Wi-Fi network, working the 13cm band or just experimenting, this antenna is exactly what you need to get started.

CMA-SF-245R MESH 2.4 GHz Base Vertical Antenna.....**$59.95**

HF Dipole Antennas

Comet understands that you may not have acres of land for your antenna installation. With that in mind, Comet offers offer you two powerful dipole antennas.

The CHV-5X is a multi-band dipole that allows you to tune each band independently. These compact, lightweight antennas can be arranged in a horizontal V-shape or a ground-plane setup. This is also a great antenna for portable/emergency operations.

The H-422 is a broadband antenna made from aluminum tubing with stainless steel hardware for added durability. A 2.5 kW Balun is included to make setup easy. It is tailored to the 40M, 20M, 15M and 10M bands. The 40M band can be tuned independently.

CMA-CHV-5X Rotatable Dipole Antenna **$319.95**

CMA-H-422 Rotatable Trapped Dipole Antenna **$349.95**

CA-2X4SR Mobile Vertical Antennas

These antennas are built to assist search and rescue volunteers who need voice communications on the Ham, land mobile and FRS frequency ranges. With these 40" antennas you get remarkable coverage, with 3.8 dBi gain on 2M and 6.2 dBi gain on 70cm. Plus, you'll be able to transmit and receive in both bands. Made for the field, these are the ideal mobile antennas for EMCOMM.

CMA-CA-2X4SR 2M/70cm Broadband Mobile Antenna, UHF Base **$69.95**

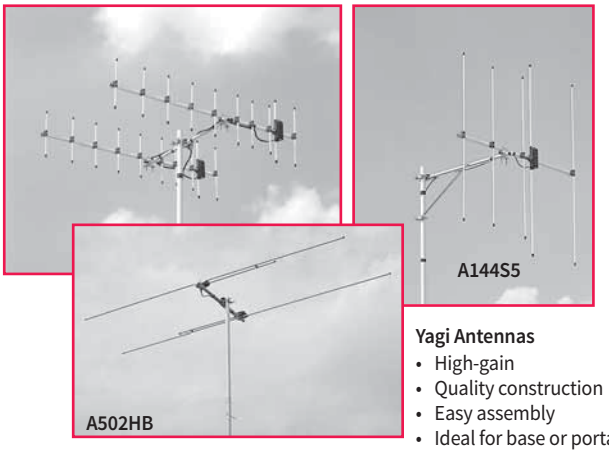
CMA-CA-2X4SRNMO 2M/70cm Broadband Mobile Antenna, NMO Base **$69.95**

2.4 GHz Mobile Vertical Antenna

You can use this antenna on the 13cm Amateur band, or in MESH or Wi-Fi applications. With 7.4 dBi of gain, you'll get great mobile coverage and, since it is the same antenna used by the Marine Corps, you know it will stand up to the strain of high-speed and high-vibration mobile use. The 18 inch monoband antenna can handle up to 50 watts of power.

CMA-SF-245SPR-R 2.4 GHz Mobile Vertical Antenna.....**$59.95**

DIAMOND ANTENNA



Yagi Antennas
- High-gain
- Quality construction
- Easy assembly
- Ideal for base or portable use
- Factory adjusted—no tuning required

Yagi Beam Base Antennas

Part Number	Band	Elements	Boom Length	Power Rating	Gain	Price
DMN-A502HB	6 Meter	2	2.5'	400 Watts	6.3 dBi	**$89.95**
DMN-A144S5	2 Meter	5	3.1'	100 Watts	9.1 dBi	**$59.95**
DMN-A430S10	70cm	10	3.9'	100 Watts	13.1 dBi	**$69.95**
DMN-A430S15	70cm	15	7.4'	100 Watts	14.8 dBi	**$89.95**

Ruggedized Base/Repeater Antennas

X510HDM

This is Diamond Antenna's best base station repeater antenna. It is pre-tuned to achieve maximum gain in both the 2 meter and 70 centimeter amateur bands and has a wide frequency bandwidth. Features include a heavy-duty fiberglass radome, overlapping outer shells for added strength, stainless steel mounting hardware and radials, and waterproof joint couplings.
- Band: 2 meter/70 centimeter
- Gain (dB): 8.3/2 meter, 11.7/70 centimeter
- Watts: 330 (2 meters)/250 (70 centimeter)
- Connector: UHF
- Weight: 5 lbs.
- Length 17.2 feet
- Max Wind Rating: 90 mph

DMN-X510HDM **$179.95**

X50NA

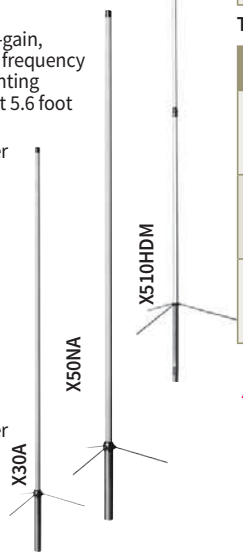
An excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application. Features include a wide frequency bandwidth, heavy-duty fiberglass radome, stainless steel mounting hardware and radials, and a Type N cable connection. Compact 5.6 foot height for easy mounting and installation.
- Frequency: 144-148 MHz/2 meter, 440-450 MHz/70 centimeter
- Gain: 4.5 dB/2 meter, 7.2 dB/70 centimeter
- Power Rating: 200 watts maximum
- Wind Rating: 135 mph (no ice)

DMN-X50NA.....**$94.95**

X30A

The X30A works well in areas where height and/or antenna restrictions are an issue. Features include a wide frequency bandwidth, heavy-duty fiberglass radome, stainless steel hardware, and a UHF cable connection. Compact 4.5 foot height for easy installation.
- Frequency: 144-148 MHz/2 meter, 440-450 MHz/70 centimeter
- Gain: 3.0 dB/2 meter, 5.5 dB/70 centimeter
- Power Rating: 150 watts maximum
- Wind Rating: 135 mph (no ice)

DMN-X30A.....**$69.95**



BB7V Multi-Band HF Vertical Antenna

This lightweight (4.5 lb.) antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has six telescoping sections that nest in each other—collapsed length is 5 feet, extends to 22 feet when fully deployed. The sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. Ideal for users with antenna restrictions or travelers wanting a quick and easy wideband antenna solution.

DMN-BB7V Multi-Band HF Vertical Antenna.....**$399.95**

More Diamond Base/Repeater Antennas—Find Complete Specs at DXEngineering.com

Multi-Band Resonant Vertical Antennas (1.4" to 2.4" O.D. Mast Required)

Part Number	Bands	Height	Power Rating	Price
DMN-BB7V	10/12/15/17/20/30/40/60/80M	22'	250 Watts	**$399.95**
DMN-CP725H	6/10/15/40M	11.8'	Up to 500 Watts	**$359.95**
DMN-CP5H	6/10/15/20/40M	11.7'	500 Watts	**$379.95**
DMN-CP6AR	6/10/15/20/40/80M	15.1'	200 Watts	**$419.95**

Monoband Base/Repeater Antennas (1.25" to 2.4" O.D. Mast Required)

Part Number	Band	Height	Power Rating	Gain	Price
DMN-CP62	6 Meter	22.0'	200 Watts	5.5 dBi	**$54.95**
DMN-CP22E	2 Meter	8.9'	200 Watts	6.5 dBi	**$54.95**
DMN-F22A	2 Meter	10.5'	200 Watts	6.71 dBi	**$94.95**
DMN-F23H	2 Meter	15'	350 Watts	7.8 dBi	**$139.95**
DMN-F718A	70cm	15'	250 Watts	11.5 dBi	**$199.95**
DMN-F1230AII	23cm	11.5'	100 Watts	13.8 dBi	**$169.95**
DMN-G200	2.4-2.5 GHz (Wi-Fi)	4.83'	10 Watts	11 dBi	**$204.95**

Dual-Band Base/Repeater Antennas (1.25" to 2.4" O.D. Mast Required)

Part Number	Bands (Connector)	Height	Power Rating	Gain	Price
DMN-X30A	2M/70cm (SO-239)	4.5'	150 Watts	3 dBi (2M) 5.5 dBi (70cm)	**$69.95**
DMN-X50A	2M/70cm (SO-239)	5.6'	200 W (2M) 250 W (70cm)	4.5 dBi (2M) 7.2 dBi (70cm)	**$94.95**
DMN-X50NA	2M/70cm (Type N)	5.6'	200 W (2M) 250 W (70cm)	4.5 dBi (2M) 7.2 dBi (70cm)	**$94.95**
DMN-X200A	2M/70cm (SO-239)	8.3'	200 Watts	6 dBi (2M) 8 dBi (70cm)	**$124.95**
DMN-X300A	2M/70cm (SO-239)	10'	200 Watts	6.5 dBi (2M) 9 dBi (70cm)	**$139.95**
DMN-X300NA	2M/70cm (Type N)	10'	200 Watts	6.5 dBi (2M) 9 dBi (70cm)	**$139.95**
DMN-X510HDM	2M/70cm (SO-239)	17.2'	330 W (2M) 250 W (70cm)	8.3 dBi (2M) 11.7 dBi (70cm)	**$179.95**

Tri-Band Base/Repeater Antennas (1.25" to 2.4" O.D. Mast Required)

Part Number	Bands	Height	Power Rating	Gain	Price
DMN-V2000A	6M/2M/70cm	8.3'	150 Watts	2.1 dBi (6M) 6.2 dBi (2M) 8.4 dBi (70cm)	**$159.95**
DMN-X3200A	2M/1.25M/70cm	10.5'	100 W (2M) 100 W (1.25M) 200 W (70cm)	6 dBi (2M) 7.8 dBi (1.25M) 8 dBi (70cm)	**$179.95**
DMN-X6000A	2M/70cm/23cm	10.5'	100 W (2M) 100 W (1.25M) 60 W (23cm)	6.5 dBi (2M) 9 dBi (70cm) 10 dBi (23cm)	**$174.95**

A144S5 Base Station Yagi Beam Antennas

These are terrific Yagi beam antennas for the 2 and 6 meter bands. They're lightweight, easy to install and give you excellent performance. These high-gain Yagi antennas are ideal for both base and portable installations. Plus, they're factory-adjusted, so you don't need to worry about tuning.

DMN-A144S5 2 Meter, 5-Element Base Station Yagi Beam Antenna **$59.95**

DMN-A502HB 6 Meter, 2-Element Base Station Yagi Beam Antenna **$89.95**

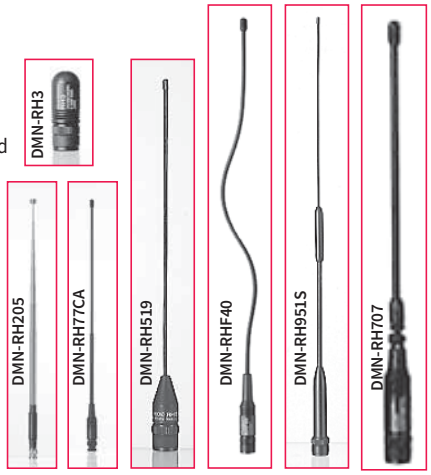
Improve the Reach of Your HT with a Gain-Increasing Antenna!

DIAMOND ANTENNA

HT Antennas

The rubber duckie antenna packaged with your HT may be keeping your handheld from operating at its full potential. Knowing this, Diamond Antenna brings you single, dual and triple band antennas that offer better performance. As proof, Diamond rates its antennas against the original HT manufacturer's antenna to show you a relative gain improvement over your HT's (or scanner's) stock performance.

Whether you want a simple replacement for a broken HT antenna or you are looking for significantly improved reception, Diamond Antennas has a solution.



Part Number	Description	Length	Gain	Price
DMN-RH205	Monoband, Telescopic, BNC Male, 10 W Power Rating	52.8"	9 dB	**$26.95**
DMN-RH3	Dual-Band, Stubby, BNC Male, 10 W Power Rating	1.7"	—	**$26.95**
DMN-RH519	Dual-Band, Flexible, BNC Male, 10 W Power Rating	7.75"	3 dB	**$24.95**
DMN-RH707	Dual-Band, Flexible, BNC Male, 10 W Power Rating	8.25"	3 dB	**$29.95**
DMN-RH77CA	Dual-Band, Flexible, BNC Male, 10 W, Extended Receive to 900 MHz	15"	6 dB	**$22.95**
DMN-RHF10	Dual-Band, Flexible Stubby, BNC Male, 6W Power Rating, 118-900 MHz Receive	2.75"	—	**$21.95**
DMN-RHF40	Dual-Band, Flexible, BNC Male, 10 W, Extended Receive to 900 MHz	16"	6 dB	**$27.95**
DMN-SRH519	Dual-Band, Flexible, SMA Male	7.75"	3 dB	**$26.95**
DMN-SRH77CA	Dual-Band, Flexible, SMA Male, 10 W, High Gain & Extended Receive to 900 MHz	15"	6 dB	**$22.95**
DMN-SRJ77CA	Dual-Band, Flexible, SMA Female, 10 W, Extended Receive to 900 MHz	15"	6 dB	**$24.95**
DMN-SRHF10	Dual-Band, Super-Flexible Stubby SMA Male, 6 W Power Rating	2.75"	—	**$21.95**
DMN-SRHF40	Dual-Band, Super-Flexible, SMA Male, 10 W, Extended Receive to 900 MHz	16"	6 dB	**$26.95**
DMN-RH951S	Tri-Band, Flexible, BNC Male, 10 W Power Rating	14"	6 dB	**$44.95**
DMN-SRH320A	Tri-Band, Flexible, SMA Male , 10 W Power Rating	13.75"	4 dB	**$46.95**
DMN-SRH805	Tri-Band, Stubby, SMA Male, 6 W Power Rating	1.75"	—	**$26.95**
DMN-SRH815	Tri-Band, Flexible, SMA Male, 6 W Power Rating	6"	3 dB	**$31.95**
DMN-SRH940	Tri-Band, Flexible, SMA Male, 10 W Power Rating	18"	2.1 dB	**$39.95**
DMN-SRH999	Quad-Band, Flexible, SMA Male, 10 W Power Rating	19.5"	4 dB	**$54.95**
DMN-RH789	Dual-Band, Scanner Antenna, Telescopic BNC Male, 10 W, 85-300 MHz and 300-1100 MHz	31.7"	—	**$32.95**
DMN-SRH789	Dual-Band, Scanner Antenna, Telescopic SMA Male, 10 W, 85-300 MHz and 300-1100 MHz	31.7"	—	**$32.95**

COMET

HT Antennas

Maximize your HT or scanner performance. Comet's HT antennas offer significant gain improvements over your original antenna and are super-rugged, making them perfect for use in the field. Many have extended receive capabilities—visit DXEngineering.com for all of the specs.

Available in multiple connector types, sizes and band coverage, Comet Antennas are excellent replacement antennas for your scanner or HT.

Part Number	Description	Length	Gain	Price
CMA-BNC-24	Dual-Band, Flexible, BNC Male, 20 W Power Rating	17"	2.1 dBi (2M) 3.5 dBi (70cm)	**$24.95**
CMA-CH-32	Dual-Band, Stubby, BNC Male, 10 W Extended Receive Ranges	1.75"	3.2 dBi (70cm)	**$29.95**
CMA-CH-75	Dual-Band, Flexible, BNC Male, 20 W Extended Receive Ranges	15"	3.2 (70cm)	**$25.95**
CMA-SH-55	Dual-Band, Flexible, BNC Male, 10 W Power Rating	15"	1.5 dBi (2M) 3.2 dBi (70cm)	**$33.95**
CMA-SMA-209J	Dual-Band, Stubby, SMA Female, 5 W Power Rating	3"	—	**$21.95**
CMA-SMA-24	Dual-Band, Flexible, SMA Male, 20 W Power Rating	15.75"	2.1 dBi (2M) 3.5 dBi (70cm)	**$24.95**
CMA-SMA-24J	Dual-Band, Flexible, SMA Female, 20 W Power Rating	17"	2.1 dBi (2M) 3.5 dBi (70cm)	**$24.95**
CMA-SMA-501	Dual-Band, Stubby, SMA Male, 10 W Extended Receive Ranges	1.75"	—	**$29.95**
CMA-SMA-503	Dual-Band, Flexible, SMA Male, 10 W Extended Receive Ranges	8.5"	—	**$29.95**
CMA-SMA-503J	Dual-Band, Flexible, SMA Female, 10 W Extended Receive Ranges	6.75"	—	**$29.95**
CMA-HT-224	Tri-Band, Flexible, SMA Male, 10 W, Extended Receive Ranges	11"	1.3 dBi (2M) 1.4 dBi (1.25M) 1.8 dBi (70cm)	**$47.95**
CMA-SH-95	Tri-Band, Flexible, BNC Male, 10 W, Extended Receive 100-1200 MHz	14.5"	1.5 dBi (2M) 2.1 dBi (70cm) 5.5 dBi (23cm)	**$34.95**
CMA-SMA-3	Tri-Band, Flexible, SMA Male, 10 W, Extended Receive Ranges	9.75"	1.2 dBi (2M) 1.7 dBi (70cm) 3.4 dBi (33cm)	**$39.95**
CMA-SMA-703	Tri-Band, Flexible, SMA Male, 10 W, Extended Receive Ranges	6.5"	3.4 dBi (23cm)	**$31.95**
CMA-BNC-W100RX	Scanner Antenna, Telescopic, 8" Collapsed Height, BNC Male	40"	—	**$32.95**
CMA-SMA-W100RX	Scanner Antenna, Telescopic, 8" Collapsed Height, SMA Male	40"	—	**$28.95**
Maldol				
MLD-NS-146	2M HT Antenna, BNC Male Connector,	4"		**$11.95**
MLD-MH-209	2M/70cm HT Antenna, BNC Male Connector,	3"		**$23.95**
MLD-MH-209SMA	2M/70cm HT Antenna, SMA Male Connector,	3"		**$23.95**

MIRAGE

Mirage In-Shack and Mast-Mounted Preamplifiers

These preamplifers are designed to enhance your antenna system's receive performance. They're available as single unit in-shack components, or as two-piece mast-mounted units with RF Line voltage control—ideal for high-performance installations.

Quick Specs

- Ultra low-noise GaAsFETs with switchable gain
- Automatic RF switching
- Handle up to 100 watts bypass
- KP-1 series are single unit inline preamplifiers
- KP-2 series use seperate RF Line voltage control and preamp units

MIR-KP-1-10M	In-Shack Preamplifier, 10 Meter	**$139.95**
MIR-KP-1-6M	In-Shack Preamplifier, 6 Meter	**$139.95**
MIR-KP-1-2M	In-Shack Preamplifier, 2 Meter	**$139.95**
MIR-KP-1-220	In-Shack Preamplifier, 220-225 MHz	**$139.95**
MIR-KP-1-440	In-Shack Preamplifier, 430-450 MHz	**$139.95**
MIR-KP-2-10M	Mast-Mounted Preamplifier, 10 Meter	**$179.95**
MIR-KP-2-6M	Mast-Mounted Preamplifier, 6 Meter	**$179.95**
MIR-KP-2-2M	Mast-Mounted Preamplifier, 2 Meter	**$184.95**
MIR-KP-2-220	Mast-Mounted Preamplifier, 220-225 MHz	**$179.95**
MIR-KP-2-440	Mast-Mounted Preamplifier, 430-450 MHz	**$184.95**

ICOM

AH-4 Antenna Tuner

Icom's AH-4 antenna tuner lets you automatically tune a 23 foot or longer wire antenna for portable or mobile HF/50 MHz use. The PTT tune function makes changing bands easy, too.

ICO-AH-4	Antenna Tuner	**$289.95**
ICO-OPC-136	AH-4 Control Cable, 16.4'	**$32.95**

DXE-RPA-1 Receive Preamplifier

This is the best HF low-noise amplifier available. The DXE-RPA-1 is optimized for a 0.3-35 MHz operating range. The push-pull amplifier design and robust components enable it to withstand high signal levels and operate when you need it most. The dynamic range of the DXE-RPA-1 is better than most receivers.

The DXE-RPA-1 is suitable for indoor or outdoor installation, with the option of being powered through the coaxial feed. The metal housing provides shielding and improved lifespan. The unit uses an RCA type phono jack and a Type F connector for the input and output connections, and has a relay that automatically bypasses the amplifier when DC power is removed.

Benefits

- Push-pull operation eliminates harmonic distortion
- High quiescent current increases ability to handle signals without distortion or overload
- Meticulous craftsmanship and durable components provide superior dynamic range
- RCA phono jack and type F connector ease installation
- Simplified switching—automatic bypass relay eliminates gain when DC power is off
- 10-18 Vdc power through coaxial feed or separate supply jack
- 10-18 Vdc through coax enables remote operation at antenna

Specifications

- Gain: 16 dB, 0.3-35 MHz (+1.5/-1.5 dB over this range)
- Output Third Order Intercept: 43 dBm
- Noise Figure: 3.5 dB
- One dB Compression: +26 dBm (~0.4 W output)
- 500 Hz BW IM3 Dynamic Range: 110 dB or greater
- Power Requirement: 10-18 Vdc @ 140 mA maximum
- Dimensions: 5.75" W x 3.875" D x 1.375" H

DXE-RPA-1	Receiver Preamplifier, 0.3-35 MHz	**$123.95**

MFJ

MFJ HT Antennas

By upgrading your HT's original-equipment antenna, you can get significant coverage gains. MFJ offers some great options to increase the gain of your handlheld. These durable antennas are well suited to field conditions.

Part Number	Description	Length	Price
MFJ-1710	Monoband, Pocket Linear, Telescopic, Pen-Sized, 3/8-Wave on 2 Meter, 5.25" Collapsed	24.5"	**$9.95**
MFJ-1714	Monoband, Telescopic, 1/2-Wave on 2 Meter, BNC	40"	**$16.95**
MFJ-1714S	Monoband, Telescopic, 1/2-Wave on 2 Meter, SMA	40"	**$15.95**
MFJ-1712	Dual-Band, Telescopic, 1/4-Wave on 2 Meter, 5/8-Wave on 70cm, 7.25" Collapsed, BNC	19"	**$14.95**
MFJ-1712S	Dual-Band, Telescopic, 1/4-Wave on 2 Meter, 5/8-Wave on 70cm, 7.25" Collapsed, SMA	19"	**$14.95**
MFJ-1713	Dual-Band, Thin Whip, BNC, 1/4-Wave on 2 Meter and 70cm	5.5"	**$16.95**
MFJ-1713S	Dual-Band, Thin Whip, SMA, 1/4-Wave on 2 Meter and 70cm	5.5"	**$16.95**
MFJ-1715	Dual-Band, Superflex, Long Thin Whip, 1/4-Wave on 2 Meter, 1/2-Wave on 70cm, BNC	12.5"	**$19.95**
MFJ-1715S	Dual-Band, Superflex, Long Thin Whip, 1/4-Wave on 2 Meter, 1/2-Wave on 70cm, SMA	12.5"	**$19.95**
MFJ-1716	Dual-Band, Flexible, Loaded 1/4-Wave on 2 Meter, 1/4-Wave on 70cm, BNC	7.5"	**$14.95**
MFJ-1716S	Dual-Band, Flexible, Loaded 1/4-Wave on 2 Meter, 1/4-Wave on 70cm, SMA	7.5"	**$14.95**
MFJ-1717	Dual-Band, Flexible, 1/4-Wave on 2 Meter, 1/2-Wave on 70cm, BNC	15.75"	**$18.95**
MFJ-1717S	Dual-Band, Flexible, 1/4-Wave on 2 Meter, 1/2-Wave on 70cm, SMA Male	15.75"	**$18.95**
MFJ-1717SF	Dual-Band, Flexible, 1/4-Wave on 2 Meter, 1/2-Wave on 70cm, SMA Female	15.75"	**$17.95**
MFJ-1718S	Tri-Band, Flexible, SMA, 2M/1.25M/70cm	17"	**$23.95**
MFJ-1719	Tri-Band, Midget Duck, BNC, 2M/70cm/33cm	1"	**$14.95**
MFJ-1719S	Tri-Band, Midget Duck, SMA, 2M/70cm/33cm	1"	**$14.95**
MFJ-1719SF	Tri-Band, Midget Duck, SMA, Female 2M/70cm/33cm	1"	**$14.95**
MFJ-1720S	Tri-Band, Flexible, SMA 1/4-Wave on 6M, 1/4-Wave on 2M, 5/8- Wave on 70cm	19"	**$29.95**

MFJ-1713

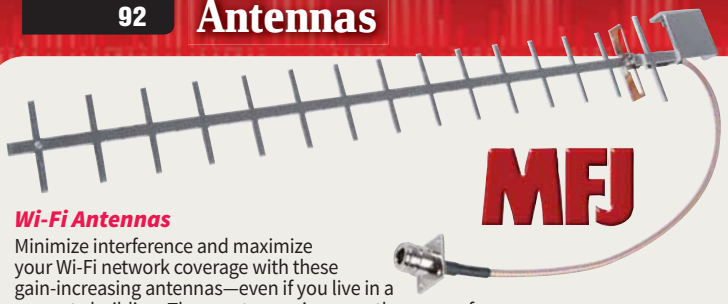
DIAMOND ANTENNA

New!

SMA to BNC Antenna Adapter

Designed for your HT, this mount is a great way to unlock more antenna choices for your BNC-equipped handheld. It has a female SMA connector on one end and a male BNC connector on the other.

DMN-BNCJ-SMAP	SMA to BNC Adapter	**$9.95**



Wi-Fi Antennas

Minimize interference and maximize your Wi-Fi network coverage with these gain-increasing antennas—even if you live in a concrete building. These antennas increase the range of your Wi-Fi devices and are great tools to take advantage of free Wi-Fi hotspots.

Eliminate the frustration of spotty Wi-Fi coverage by upgrading your antenna—visit DXEngineering.com for complete specs.

MFJ-1800	Wi-Fi Antenna, Type N Connector, 15 dBi Gain	**$29.95**
MFJ-1801	Wi-Fi Antenna, with Housing, Indoor/Outdoor, 15 dBi Gain	**$61.95**
MFJ-1802	Wi-Fi Antenna, Wide Area, 150 Degree Beamwidth, 8 dBi Gain	**$43.95**
MFJ-1804	Wi-Fi Antenna, Bi-Quad, 45 degree Beamwidth, 12 dBi Gain	**$52.95**

Short Wave Listening Active Antennas

Open your ears to the world with these tunable active antennas. MFJ's SWL antenna designs set the standard by which other antennas are judged. You will get the best possible performance from an antenna that will last for decades.

The MFJ-1020C covers 300 kHz-40 MHz, including VLF, AM Broadcast, shortwave and all amateur bands. It requires 9 Vdc (battery or AC adapter) and includes a telescopic whip.

MFJ's 1022 has a frequency range of 300 kHz to 200 MHz, including low and medium shortwave bands, plus VHF. It requires 9 Vdc (battery or AC adapter) and includes a telescopic whip.

For an excellent outdoor antenna, look to the MFJ-1024. It covers 50 kHz to 30 MHz with excellent dynamic range and low noise floor. It includes the control unit and has convenient mounting holes for easy installation.

MFJ-1020C	Indoor SWL Active Antenna	**$91.95**
MFJ-1022	Indoor SWL Active Antenna	**$69.95**
MFJ-1024	Outdoor SWL Active Antenna	**$149.95**

Apartment Antennas

Renters need DX, too. MFJ comes to your rescue with powerful, compact and easy to install/uninstall antennas.

The MFJ-1622 lets you work 40 through 10 meters on HF, plus 6 and 2 meters on VHF—all using a single antenna. The universal mounting clamp attaches easily to window frames and outside railings, or inside clamped to a table or bookshelf. The radiator collapses to just 2.5 feet for easy storage. An RF choke balun, coax feed line, counterpoise wire and safety rope are included.

MFJ-1621

MFJ's 1795 is the perfect HF antenna if you don't have the room (or a neighborhood friendly enough) for a full size vertical. Adjustable from seven to ten feet, this antenna features a low angle of radiation and can handle 1,500 watts PEP. You can mount it on the ground (with a suitable ground) or any flat surface, including your roof.

The MFJ-1795W is a similar to the 1795, but covers the WARC Bands (12/17/30/60 meters).

MFJ-1621	Apartment Antenna, HF	**$99.95**
MFJ-1622	Apartment Antenna, 40M-2M	**$99.95**
MFJ-1795	Apartment Antenna, Vertical, HF	**$169.95**
MFJ-1795W	Apartment Antenna, Vertical, WARC	**$149.95**

Antenna Whips and Kit

Great for screwdriver antennas, these stainless steel whips hold up in the harshest environments. Every whip features a 3/8"-24 connector for easy installation.

The MFJ-1964K Antenna Kit combines all of the critical pieces to make an excellent portable antenna for the 10 through 60 meter bands. It includes an MFJ-1954 10 foot telescopic whip antenna, an MFJ-404-0008 coil, six silver plated tap clips and a chassis mount SO-239 connector.

MFJ-1964K	Portable Antenna Kit	**$49.95**
MFJ-1964	Antenna Whip, 6'	**$26.95**
MFJ-1966	Antenna Whip, 9'	**$25.95**

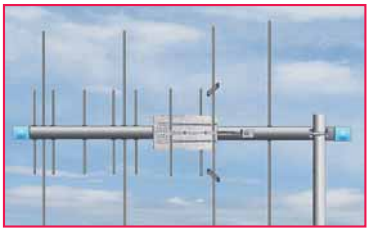
MFJ-1763

MFJ-1760

MFJ-1764

Yagi/Beam Antennas and Accessories

MFJ gives you several Yagi antenna options that offer impressive gain while being lightweight and durable, eliminating the need for big, unsightly installations. Please visit DXEngineering.com for more detailed specs on each Yagi antenna and accessory.

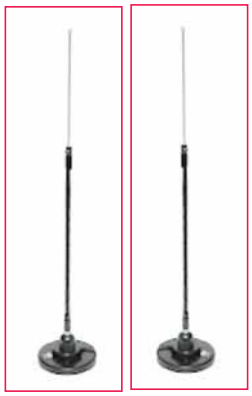


MFJ-1768

MFJ-1763	2M 3-Element Portable Yagi Antenna, 1 dBi Gain, 33" Boom	**$54.95**
MFJ-1761	6M Add-On for Most Yagi/Dipole Antennas	**$27.95**
MFJ-1762	6M Yagi Antenna, 72" Boom	**$99.95**
MFJ-1764	6M/2M Super Gain Beam Antenna, 23" Boom	**$59.95**
MFJ-1766	6M/2M Double Gain Beam (Two MFJ-1764 Antennas)	**$109.95**
MFJ-1760	2M/70cm 3-/4-Element Yagi Antenna, 8 dBi/6 dBi Gain, 45" Boom	**$79.95**
MFJ-1768	2M/70cm Yagi Antenna, 8 dBi/6 dBi Gain	**$99.95**

HF Mini-Stick Antennas

You can use these mighty antennas in your mobile or base rig to get on the HF bands. They all feature a standard 3/8"-24 mounting point and base. Their small, unobtrusive size coupled with an integrated magnet mounts open up a world of installation possibilities.



MFJ-2306T	6M HF Mini-Stick with Whip	**$19.95**
MFJ-2310T	10M HF Mini-Stick with Whip	**$19.95**
MFJ-2312T	12M HF Mini-Stick with Whip	**$19.95**
MFJ-2315T	15M HF Mini-Stick with Whip	**$19.95**
MFJ-2317T	17M HF Mini-Stick with Whip	**$19.95**
MFJ-2320T	20M HF Mini-Stick with Whip	**$19.95**
MFJ-2340T	40M HF Mini-Stick with Whip	**$19.95**
MFJ-2360T	60M HF Mini-Stick with Whip	**$19.95**
MFJ-2375T	75M HF Mini-Stick with Whip	**$19.95**

School's In Session

Unless you're a teenager, you don't know everything. This is especially true in Ham radio. Technology is always marching forward and you have to keep up. At DXEngineering.com there's a huge tech library with articles, FAQs, manuals and videos. Plus, if you're dealing with a specific issue, call us and we can help.

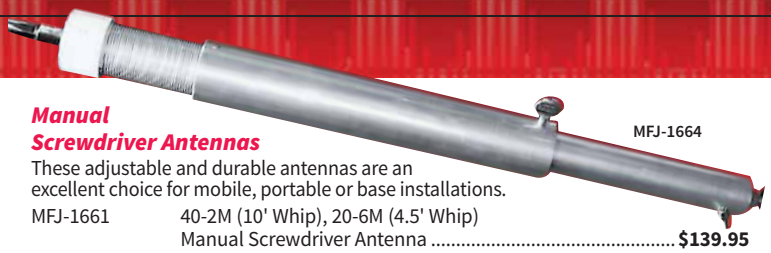
Pulsar VHF/UHF Antennas

Send a powerful signal and bring in distant stations with MFJ Pulsar VHF/UHF Antennas.

Well suited for base or repeater use, these antennas feature MFJ's exclusive PulsePEAK. That means you get a super-low angle of radiation pointed directly at the horizon, which results in maximum gain and excellent long-range performance. These antennas feature fiberglass radomes, stainless steel hardware and waterproof joints for years of dependable service.

MFJ-1516

MFJ-1516	2M Base/Repeater Antenna, 7.8 dB Gain, 15'	**$99.95**
MFJ-1522	2M/70cm Base Antenna, 4.5/7.2 dB Gain, 5.5'	**$79.95**
MFJ-1524	2M/70cm Base Antenna,6.5/9 dB Gain, 10'	**$104.95**
MFJ-1526	2M/70cm Base Antenna, 8.3/11.7 dB Gain, SO-239, 17'	**$139.95**
MFJ-1526N	2M/70cm Base Antenna, 8.3/11.7 dB Gain, Type N, 17'	**$139.95**
MFJ-1532N	2M/70cm/1.2 GHz Base Antenna, 4.5/8.3/11.7 dB Gain, 5.5'	**$84.95**
MFJ-1536	6M/2M/70cm Base Antenna, 2/6/8 dB Gain, 8.2'	**$119.95**
MFJ-1538	6M/2M/1.25M/70cm Base Antenna, 2.15/6.2/7.2/8.4 dB Gain	**$119.95**


MFJ-1664

Manual Screwdriver Antennas

These adjustable and durable antennas are an excellent choice for mobile, portable or base installations.

MFJ-1661	40-2M (10' Whip), 20-6M (4.5' Whip) Manual Screwdriver Antenna	**$139.95**
MFJ-1662	40-2M (4.5' Mobile/10' Fixed Whip) Manual Screwdriver Antenna	**$149.95**
MFJ-1664	80-6M (10' Whip), 40-6M (4.5' Whip) Manual Screwdriver Antenna	**$169.95**
MFJ-1668	(4.5' Mobile/10' Fixed Whip) Manual Screwdriver Antenna;	**$159.95**

MFJ-1740

Ground Plane Antennas

Work plenty of DX, even with low power. These antennas use a ground-isolated radial system that eliminates common mode current paths while reducing feedline radiation. They're made of strong yet lightweight aluminum that resists the elements to provide years of service.

MFJ-1740	1/4 Ground Plane Antenna, 2M/1.25M/70cm	**$29.95**
MFJ-1750	5/8 Ground Plane Antenna, 2M..	**$34.95**
MFJ-1752	5/8 Ground Plane Antenna, 2M/1.25M	**$34.95**
MFJ-1754	Ground Plane Antenna, 2M/70cm	**$39.95**
MFJ-1756	Ground Plane Antenna, Omni, 6M	**$89.95**

Vertical Antennas

All MFJ Vertical Antennas give you the perfect blend of reliability, reach and durability. Regardless what model you choose, you know that once erected, your MFJ Vertical Antenna will give you years of trouble-free service.

MFJ-1792	80/40M Super Vertical Antenna, 33', 1,500 Watts PEP	**$189.95**
MFJ-1793	80/40/20M Super Vertical Antenna, 5.5', 1,500 Watts PEP	**$199.95**
MFJ-1796	2/6/10/15/20/40M Vertical Antenna, 12', 1,500 Watts PEP	**$219.95**
MFJ-1796W	12/17/30/60M WARC Band Vertical Antenna, 12', 1,500 Watts PEP	**$199.95**
MFJ-1798	80-2M 10-Band Vertical Antenna, 20', 1,500 Watts PEP	**$329.95**

MFJ-1792

Box Fan Portable Loop Antennas

Here's an ingenious design that gives you the ultimate portable antenna! No bigger than a typical household box fan, these antennas are protected from the elements and feature external handles, so you can carry one practically anywhere. They cover 14-30 MHz and you have excellent control over the tuning capabilities.

MFJ-1780	Box Fan Portable Loop Antenna	**$299.95**
MFJ-1780X	Box Fan Portable Loop Antenna, 240 Vac	**$259.95**

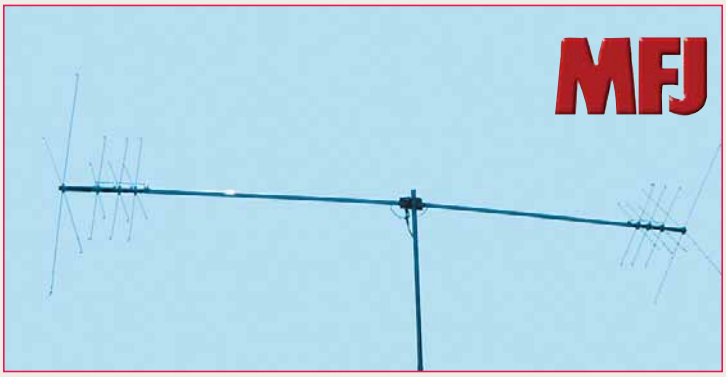
MFJ-1780

Extra-Long Telescopic Antennas

If you're building a dipole, screwdriver, base or mobile antenna, MFJ offers you a great starting point. Made from stainless steel with standard 3/8"-24 mounts, these antennas are also perfect for travelling, DXpeditions, vacations and Field Day.

MFJ-1954	Telescopic Antenna, 10'	**$29.95**
MFJ-1977	Telescopic Antenna, 12'	**$44.95**
MFJ-1979	Telescopic Antenna, 17'	**$59.95**

MFJ-1977



Rotatable Dipole Antennas

These inconspicuous antennas aren't much bigger than a traditional TV antenna, yet they give you incredible coverage. MFJ builds these antennas to withstand the full fury of Mother Nature, with aircraft-strength aluminum and solid fiberglass insulators. They are fully rotatable so you can focus your signal and really work some DX.

For great coverage on the 20, 15, 10 and 6 meter bands, look to MFJ's 1769 Rotatable Dipole.

The MFJ-1775 lets you operate on the 40, 20, 15, 10, 6 and 2 meter bands, an you can run the full 1,500 watts SSB/CCW on all HF bands. The 1775W lets you operate on the WARC bands: 12, 17, 30 and 60 meter.

Take advantage of great propagation during the low sunspot cycle with the MFJ-1785. This low-profile antenna gets you on the 80, 40 and 20 meter bands.

MFJ-1769	Rotatable Dipole Antenna, 4-Band	**$249.95**
MFJ-1775	Rotatable Dipole Antenna, 6-Band	**$239.95**
MFJ-1775W	Rotatable Dipole Antenna, WARC	**$219.95**
MFJ-1785	Rotatable Dipole Antenna, 3-Band	**$369.95**

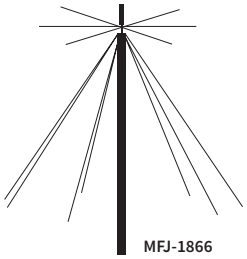
MFJ-2206

Mini-Dipole Antennas

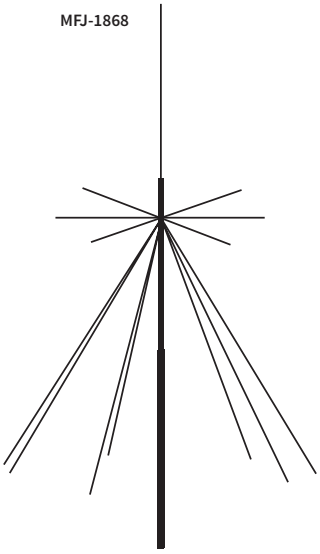
When you need a lightweight, isolated dipole antenna that won't break the bank, look to MFJ's versatile Mini-Dipoles. Perfect for temporary installations or when space is limited, you can focus the antenna's orientation to get the best signal. Two HF sticks are included, along with the MFJ-347 Mini-Dipole mount.

MFJ-2206	6M Mini-Dipole Antenna	**$42.95**
MFJ-2210	10M Mini-Dipole Antenna	**$42.95**
MFJ-2215	15M Mini-Dipole Antenna	**$42.95**
MFJ-2217	17M Mini-Dipole Antenna	**$42.95**
MFJ-2220	20M Mini-Dipole Antenna	**$42.95**
MFJ-2230	30M Mini-Dipole Antenna	**$42.95**
MFJ-2240	40M Mini-Dipole Antenna	**$42.95**
MFJ-2275	75M Mini-Dipole Antenna	**$49.95**

VHF Discone Antennas


MFJ-1866

MFJ-1868



MFJ's ultra wide-band Discone Antennas are designed for scanners, but you can use them to test several transmitters. The 1868 covers a receive range of 25-1300 MHz with a transmit range of 50-1300 MHz—making them ideal for 2, 4 and 6 meter operation. It includes an SO-239 connector, 50 feet of coax, stainless steel elements, and mounting hardware

The 1866 model is similar to the MFJ-1868, except that it transmits from 144 to 1290 MHz and does not include the coax or hardware.

MFJ-1866	VHF Discone Antenna	**$49.95**
MFJ-1868	VHF Discone Antenna, Installation Kit	**$64.95**

HF/VHF Antenna Analyzer

This compact, battery-powered RF impedance analyzer combines four basic circuits: a 1.8-170 MHz variable frequency oscillator, a frequency counter, a 50 Ω RF bridge, and an eight-bit microcontroller. The analyzer makes a wide variety of useful antenna or impedance measurements, including coaxial cable loss and distance to an open or short.

Primarily designed for analyzing 50 Ω antenna and transmission line systems, the unit also measures RF impedances between a few ohms. and several hundred ohms. It also functions as a signal source and frequency counter. The frequency range is 1.8 to 170 MHz in six overlapping bands. Requires 10 AA batteries for portable operation (not included).

MFJ-259B HF/VHF Antenna Analyzer..... **$239.95**
MFJ-98 Accessory Pack—Includes: Dip Meter Coil (MFJ-66), AC adapter (MFJ1312D), and Carrying Pouch (MFJ-39C)..... **$59.95**

HF/VHF/UHF Antenna Analyzer

This analyzer gives you all the basic RF diagnostic functions and measurements like capacitance, inductance, field strength and frequency. It also displays SWR, complex impedance, and impedance magnitude simultaneously. You can also generate test signals, analyze coax, test baluns and transformers.

Using this analyzer is easy and intuitive. Detailed instructions are included and the 10:1 vernier drive makes fine-tuning a breeze. The dial lock keeps you from accidentally detuning in the middle of a measurement. This analyzer incorporates several diagnostic tools into one piece of equipment, so it's a great tool for the shack and the field.

MFJ-266B HF/VHF/UHF Antenna Analyzer...**$299.95**

MFJ-731

MFJ-66

MFJ-29C

Accessories for your HF/VHF/UHF MFJ Antenna Analyzer

Part Number	Description	Price
MFJ-1312D	AC Adapter 12 Vdc Output at 500mA	$15.95
MFJ-66	Dip Meter Coil	$24.95
MFJ-731	Tunable RFI Filter	$99.95
MFJ-917	Balanced Line Adapter	$29.95
MFJ-29C	Carrying Pouch for MFJ-209/249/259B	$24.95
MFJ-39C	Carrying Pouch for MFJ-269/269PRO	$24.95

CAA-500 Antenna Analyzer

Comet Antennas' CAA-500 Antenna Analyzer offers impressive frequency coverage, dual analog meters with precision needles and two antenna connection jacks. It can scan your specified frequency range in seconds, allowing for quick SWR adjustments. SWR and impedance are displayed simultaneously, so you can easily determine resonant frequency. Powered by six AA cells (not included), this antenna analyzer provides up to 14 hours of operation—perfect for your next Field Day!

CMA-CAA-500 Antenna Analyzer..... **$388.95**

HF/VHF/UHF Analyzers

These compact RF impedance analyzers combine six basic circuits: a variable oscillator, frequency counter, frequency multiplier, 50 Ω RF bridge, a twelve-bit A-D converter, and microcontroller. They perform a wide variety of useful antenna and RF impedance measurements, including coaxial cable loss and electrical distance to an open or short.

Primarily designed for analyzing 50 Ω antenna and transmission line systems, these units also measure RF impedances between a few ohms and several hundred ohms. An easily accessed, user-controlled Zo setting in the function menu allows changing SWR and other SWR functions (return loss, reflection coefficient, match efficiency, etc.) to any normalized impedance value between 5 and 600 Ω.

The analyzer also functions as a non-precision signal source and frequency counter. The operating frequency range extends from 1.8 to 170 MHz in six overlapping bands, and includes SWR measurements on 415-470 MHz. Requires 10 AA batteries for portable operation (not included).

The operating range for the Pro RF Analyzer is 1.8 to 170 MHz in six overlapping bands, with SWR measurements from 430 to 520 MHz.

MFJ-269 HF/VHF/UHF Analyzer.....**$319.95**
MFJ-269PRO Pro RF Analyzer **$349.95**
MFJ-98 Accessory Pack with Dip-Meter Coil, AC Adapter, and Carrying Pouch.....**$59.95**

Step Attenuator

New!

Useful in several receiving or testing situations, this unit can reduce RF signals in 1 dB increments up to a total of 81 dB of attenuation. You can reduce out-of-band signals and cross-modulation. And if you like to Fox Hunt, use it to reduce signal and calibrate your S-meter. It's a handy calibration device for a range of test equipment, with BNC female connectors and includes SO-239 adapters. It's rated at 0 to 170 MHz, and is usable to 500 MHz.

MFJ-762 Step Attenuator.....**$89.95**

New!

Power Line Noise Finder

Quickly pinpoint electrical noise caused by power lines, leaky insulators, corroded ground lines, arcing transformers and industrial machinery. The noise finder is also handy for sniffing out common household noise sources like dimmer switches, TVs and power tools. It's sensitive down to 1 uV and the finder's 100 kHz wideband IF gives you excellent noise sampling. Plug in your headphones and quickly troubleshoot aggravating RFI.

MFJ-856 Power Line Noise Finder **$159.95**

Precision Antenna Phase Meter

Using low power, high-speed, dual comparator circuits, this unit measures phase on any frequency from 1 to 50 MHz. With a 1-volt peak-to-peak RF signal from your antenna analyzer/signal generator, you can read a precision phase measurement from +/- 180 degrees without guessing polarity.

MFJ-222 Precision Antenna Phase Meter.....**$149.95**

Low Pass TVI/RFI Filter

This filter suppresses TVI, RFI, and other interference, squashing unwanted harmonics. Your HF signal will pass though with a .5 dB insertion loss. This filter will handle a full 1,500 watts, and it covers 1.8 to 30 MHz with an SWR below 1.3:1 into 50 Ω cable.

MFJ-704 Low Pass TVI/RFI Filter **$59.95**

ZM30 Antenna Analyzer

Palstar's ZM30 Antenna Analyzer measures the SWR of an antenna system across a range of frequencies. This advanced analyzer can be set to sweep across a range of frequencies, or it can provide stable output on any single frequency from 1 MHz through 30 MHz, making the ZM30 an advanced antenna system measurement tool.

This analyzer also serves as an L/C meter, measuring the values of capacitors and inductors within their reactance range of plus or minus 600 Ω impedance. Plus, the ZM30 can be used as a high-resolution signal generator or VFO with frequency steps down to 10 Hz and an output of 2V peak-to-peak. More information is available at DXEngineering.com.

Frequency Generation & Control

- 1 to 30 MHz
- Source Impedance: 50 Ω
- Stability: +/- 50 ppm
- Spectral Purity: Harmonics down >-35 dB beyond 30 MHz
- Step Size: User-configurable increments of 10 Hz, 100 Hz, 1 kHz, 10 kHz, and 100 kHz

Usable Measurement Range

- SWR: 1.0 to 9.9
- Impedance: approx. 5 to 600 Ω
- RF Output: 2 Volts p-p (typical)
- Power Supply: External: 9 to 16 Vdc
  Internal: Eight AA cells, alkaline or Ni-MH

PAS-ZM30 Antenna Analyzer..... **$379.95**

Make Sure You're Ready for Field Day!

SUM-530517 SUM-530502

New!

Work Gloves

Protect your hands during set-up and teardown with these durable and comfortable gloves. Made from synthetic leather, these gloves feature a rubber-reinforced palm to withstand harsh wear. More colors and sizes available, visit DXEngineering.com for the complete lineup.

SUM-530501	Work Gloves, Black, Medium, Pair	**$10.97**
SUM-530517	Work Gloves, Black, Medium, Textured Grip, Pair	**$15.97**
SUM-530502	Work Gloves, Black, Large, Pair	**$10.97**
SUM-530518	Work Gloves, Black, Large, Textured Grip, Pair	**$15.97**

New!

Folding Canopies

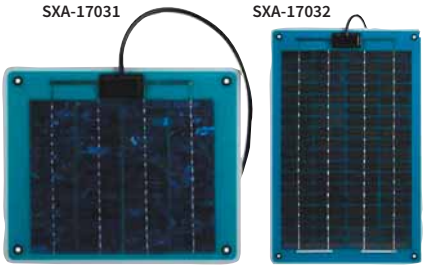
Ideal for Field Day, Hamfests or Portable Operations

Shield yourself—and your equipment—from the wrath of Mother Nature. Set-up is a breeze: these canopies unfold in seconds, with no tools or loose parts. Everything is self-contained and portable with the included storage/carrying case. The frame is made to resist rust with a powdercoat finish and the polyester fabric canopy will combat both rain and sun. The canopy measures 10' x 10' and is 10' high.

OTE-200005	Folding Canopy, Blue	**$159.97**
OTE-200006	Folding Canopy, Red	**$159.97**
OTE-200007	Folding Canopy, White	**$159.97**

New!

SXA-17031 SXA-17032



samlexamerica

Solar Trickle Chargers

Keep batteries ready to go at a moment's notice. The chargers are ideal for cars, boats, RVs, or any 12-volt battery that sits unused for extended period of time. They plug right into a cigarette lighter socket—just make sure the socket remains on with the vehicle's key out. They're small and portable, so you can carry them into the field or install them in a remote shed or outbuilding that may not have an AC line.

These are the perfect way to keep your Field Day or EMCOMM battery charged during the offseason.

SXA-17031	Solar Trickle Charger, 4.8 Peak Watts, 0.30A Output	**$85.95**
SXA-17032	Solar Trickle Charger, 9.5 Peak watts, 0.56A Output	**$122.95**

New!

DX Engineering Folding Chair

Made from water-resistant poly-canvas, this durable chair is designed for heavy-duty use. This folding chair supports 350 lbs. and is big enough to be comfortable! It is made with super-strong and water-resistant 600 denier poly-canvas and has an H.T. or beverage holder in one arm (Brown 807s, anyone?)

It's perfect for extra seating on the deck or in the yard. When you're looking for a new camp-type folding chair, remember this rugged, large DX Engineering Folding Chair, exclusively from DX Engineering!

DXE-FC-1BK	DX Engineering Folding Chair with Carry Case	**$19.97**

Accessories not included.

New!

Performance Tool

Portable Organizers

Here's a great way to keep your connectors, terminals, adapters and hardware neat and organized—whether in your shack or in the field. These portable organizers have clear windows to make it easy to see your inventory, with rugged latches to keep things secure. Both organizers have removable dividers to make perfectly sized compartments for your gear.

In addition to being portable, the WMR-W54018 can be mounted to the wall of your shack or trailer.

WMR-W54018	Organizer with 30 Drawers	**$17.97**
WMR-W54037	See-Though Organizer with 26 Compartments	**$10.55**

Performance Tool

New!

Folding Cart

Haul your Field Day equipment with ease in this handy cart. It's 16 inches tall, 18 inches wide and 15 inches deep, yet folds down small enough to stuff in your trunk. It unfolds in seconds, has an extendable handle and smooth-rolling rubber tires. This cart can also be used to transport your Hamfest treasures!

WMR-W54001	Folding Cart	**$21.97**

Portable Organizers with Removable Bins

Hornak New!

These innovative toolboxes let you store your important small accessories in bins that pull out—a handy feature when you're working at your bench and need quick access to parts. Whether you're using nuts, bolts, LEDs, caps, resistors, or any small component, these boxes can help your workspace stay uncluttered. They're also stackable, so you'll be able to stow them away to maximize space in your shack

HMS-HA01122238	Organizer with 22 Removable Bins, 2.375" Deep	**$10.97**
HMS-HA01112425	Organizer with 12 Removable Bins, 4.250" Deep	**$16.97**

New!

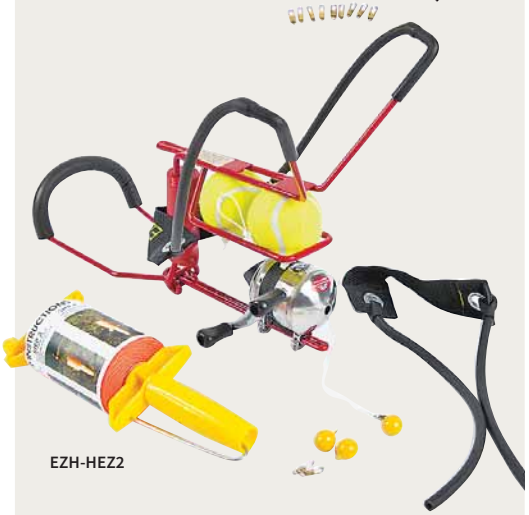
Digital 1200 Battery Charger

OPTIMA BATTERIES THE ULTIMATE POWER SOURCE™

A battery charger for the 21st century! This charger can recover deeply discharged batteries and extend battery life. It features an LCD display and intuitive GUI that indicates charging status, plus an integrated work light. The Digital 1200 even includes a USB part to charge your smart phone and other USB-powered devices. It accepts 100 to 120 Vac, has up to 14.9 Vdc output and can be used for flooded and AGM batteries—find all the specs at DXEngineering.com.

ULT-150-34178	Digital 1200 Battery Charger	**$199.99**

EZH-EZHSSK1



EZH-HEZ2

Wire Antenna Hanging Tools

EZ HANG Antenna Launcher & Cable Installer

No more ladders, no more climbing trees—these durable wire antenna launching tools make it easy for you to hang your antenna from the safety of terra firma. In addition to heavy lead weights, they use tennis ball weights; so you won't damage anything if your aim is a bit off.

The Square Shot has a 300 foot spool of 10-pound-test line, an EZ winder with 500 feet of 155-pound-test line, and an easy hang custom band set. The Hyper Shot takes everything included with the Square Shot, and dials up enough power to clear trees up to 100 feet high!

Make sure to check local laws regarding slingshots before you pull back the band on an EZ Hang kit.

EZH-EZHSSK1 Square Shot Kit **$89.95**

EZH-HEZ21 Hyper Shot Kit **$104.95**

Stainless Steel Digital Caliper

SUMMIT RACING EQUIPMENT

The only way to make precise outside, inside, step and depth measurements, this ultra-accurate caliper is made to provide years of service. A large LCD screen makes it easy to use. The caliper also features SAE-to-metric conversion, an on/off switch, locking thumb wheel and an instant zero setting.

SUM-900001 Stainless Steel Digital Caliper..... **$24.97**

DREMEL

200 Series 15-Piece Rotary Tool Kit

Cut metal, drill holes, sand surfaces, deburr tubing, bevel edges—much has been said about how useful a Dremel Tool can be. This kit is the ideal way to get started. It includes a Dremel tool and accessory organizer. You also get mandrels, sanding drums, grinding stones, polishing tip, felt wheel and a fiberglass-reinforced cut-off wheel. The tool has two speeds and uses a motor with replaceable brushes for an extended life. This kit will show you why the Dremel has become a ubiquitous fixture in workshops across the planet.

DRE-F0130200AE 200 Series 15-Piece Rotary Tool Kit **$49.97**

TITAN™

Vaper Electric Heat Gun

Ditch the old "cigarette lighter" method and seal your heat shrink tubing the safe and correct way. You can use it for heat shrink tubing, plastic welding and even paint stripping. This durable gun has two speed settings and two temperature settings to ensure your connections will be sealed right—so you can stop burning your fingertips.

TTN-22400 Vaper Electric Heat Gun..... **$17.97**

Battery Disconnect Switch

SUMMIT RACING EQUIPMENT

This switch gives you a quick way to positively shut off power from your battery. This combats unwanted drain, while helping to ensure that your battery remains charged until you need it. Rated for 20 amps continuous, it will also handle short duration surge loads of 125 amps.

SUM-G1432 Battery Disconnect Switch..... **$20.97**

Analog Voltmeter Gauges

SUMMIT RACING EQUIPMENT

Keep a close eye on your 12-volt DC power with these precise gauges. With a 10- to 18-volt sweep, these 2.625" diameter backlit gauges will work great in your car, shack or portable rig.

SUM-G2939 Analog Voltmeter Gauge, White Face **$18.97**

SUM-G29119 Analog Voltmeter Gauge, Black Face..... **$25.97**

Infrared Digital Laser Pyrometer

SUMMIT RACING EQUIPMENT

Ensure that your expensive equipment is operating at a safe temperature. Just point this pyrometer at the area you'd like to measure, pull the trigger and you instantly get a readout accurate within 3 percent! It has a backlit LCD display and can measure temperatures from 0 to 500 degrees F.

SUM-G1054 Infrared Digital Laser Pyrometer..... **$53.97**

Rubber Grommet Assortment Kits

SUMMIT RACING EQUIPMENT

A must-have if you're routing wires and cable through sheet metal; these kits are great for panels, firewalls, enclosures and equipment cases. They contain grommets in assorted sizes and include a handy storage case to keep things organized.

SUM-890091 Grommet Kit, 82 Pieces, from .125" to .688" I.D. **$18.97**

SUM-890090 Grommet Kit, 48 Pieces, from .5" to 1" I.D..... **$15.97**

Solderless Nylon Terminal Kit

SUMMIT RACING EQUIPMENT

A great kit to have in your shack, this kit includes connectors that are tougher, better insulated and more corrosion-resistant than ordinary store-bought ones. You get 180 connectors for 22- to 18- and 12- to 10-gauge wire ranges, all packaged in a neat storage case.

SUM-890093 Solderless Nylon Terminal Kit **$26.97**

Shrink Sleeve Assortment

SUMMIT RACING EQUIPMENT

Way better than standard vinyl heat-shrink tubing (which can crack and tear), this tubing is made with professional-grade polyolefin. That helps it better withstand both time and the elements. This kit includes over sixty 6 inch tubes ranging from 1/8" to 3/4" I.D., all housed in a compartmentalized case, so everything stays neat and tidy.

SUM-890092 Shrink Sleeve Assortment..... **$19.97**

Step-Drill Bits

SUMMIT RACING EQUIPMENT

These high-speed bits are perfect for adding precise holes to your equipment's chassis, enclosure or cabinet. Made to cut cleanly through sheet metal, these bits are driven more smoothly than traditional bits and automatically deburr the hole as it is drilled.

SUM-900029 Drill Bit, 11 Steps from 3/4" to 1 3/8" Diameter, 1/2" Drive **$29.97**

SUM-900025 Drill Bit, 7 Steps from 1/8" to 1/2" Diameter, 3/8" Drive **$15.97**

DX ENGINEERING

New!

Zip Ties

Quite possibly the most versatile tools in your shack, you can use these ties for cable management, field repairs, securing gear and more. They are made in UV-resistant black and come in several sizes. Sold in packs of 100.

DXE-1860-100 Zip Ties, 4" **$4.95**

DXE-1861-100 Zip Ties, 8" **$5.95**

DXE-1862-100 Zip Ties, 11" **$8.95**

DXE-1863-100 Zip Ties, 14" **$9.95**

Coax Cable Strippers for 50 Ω Cable

These DX Engineering strippers prepare 50 Ω coax cable for installation of a PL-259 connector.

- Work on foam or solid dielectric cable
- Precision, two-step operation
- No nicks or scratches to conductor
- Premium, long-lasting cutter blades

DXE-UT-8213	Coax Cable Stripper for RG-8, RG-213, 9913, LMR400, and Similar Size Cable	**$42.95**
DXE-UT-808X	Coax Cable Stripper for RG-8X and Belden 9258 Cable	**$42.95**
DXE-UT-RB-HD*	Heavy-Duty Replacement Blades, 2 Per Pack	**$18.95**

***Also fits Cablematic UT-8000**

Connector Assembly Tools

These assembly tools allow simple threading of connector sleeves onto the vinyl jacket of RG-8/U, RG-213/U, LMR-400 and other similar size cables. The DXE-UT-80P assembly tool is for PL-259 connectors, and the DXE-UT-80N assembly is for two-piece Type N connectors. Assembly is simple. Strip the cable with the DXE-UT-8213 Cable Stripping Tool, then use the appropriate connector assembly tool and thread the connector body onto the stripped cable end. A visual guide at the end of the tools allows easy viewing of the cable center conductor for proper depth. You get a perfect and easy connector installation every time!

DXE-UT-80P	Connector Assembly Tool for PL-259 Connectors	**$22.95**
DXE-UT-80N	Connector Assembly Tool for 2-piece Type N Connectors	**$22.95**

SO-239 Mounting Bracket and Connector

If you're building (or repairing) your own gear, then you've probably needed to improvise several SO-239 connector mounting solutions. Here is a 90 degree bracket that you can use to install an SO-239 practically anywhere. It's the perfect match for the DX Engineering Chassis-Mount SO-239 connector. The connector also works well in any hole-mount/chassis mount location.

DXE-SO239BKT-1	SO-239 Mounting Bracket	**$4.95**
DXE-SO239D-1	Chassis Mount SO-239 Connector	**$5.50**

SO-239 Connector Installation Tool Kit

This versatile tool kit will help you install chassis or bulkhead mount SO-239 coax connectors. It includes a special stainless steel wrench. One end has a 3/4 inch semi-box wrench with a pass-through for coaxial cable—perfect for tightening the large nut used to mount bulkhead connectors. The other end is a 3/16 inch box wrench for tightening mounting nuts with SO-239 hardware. Also included is a multi-purpose 6-in-1 screwdriver/nutdriver tool with the following bits:

- 1/4 inch nutdriver
- 1/4 inch flathead
- 3/16 inch flathead
- 5/16 inch nutdriver
- #1 Phillips
- #2 Phillips

DXE-T001	SO-239 Connector Installation Tool Kit	**$9.95**

More Soldering Irons Online

New!

You'll find a huge range of American Beauty soldering irons available at DXEngineering.com. Visit DXEngineering.com and you'll be able to select the perfect iron for your bench.

American Beauty

Heavy Duty Soldering Irons

Well suited for assembly line electronic production, these irons can handle constant use. They feature an innovative compression-wound heating element that maintains a constant temperature.

AMB-3138-100	Heavy Duty Iron, 100 Watts	**$107.95**
AMB-3138-150	Heavy Duty Iron, 150 Watts	**$107.95**
AMB-3158-200	Heavy Duty Iron, 200 Watts	**$149.95**

Pencil-Style Soldering Irons

Professional quality irons, priced for the hobbyist. You can rely on them to provide consistent temperatures for all of your projects. They're comfortable and maneuverable, ideal for tight chassis and precise solder joints.

AMB-3108-20	Pencil-Style Iron, 20 Watts	**$58.95**
AMB-3110-30	Pencil-Style Iron, 30 Watts	**$54.95**
AMB-3112-60	Pencil-Style Iron, 60 Watts	**$55.95**

Alligator Heat Sinks

AMB-HS-B	Alligator Heat Sink with Comfortable Pinch Pads	**$9.95**
AMB-HS-A	Alligator Heat Sink, Micro Size for Delicate Parts	**$9.95**
AMB-HS-C	Alligator Heat Sink, with 4mm Banana Plug Socket	**$9.95**

Paragon Lead-Free Soldering Tips

If you need a precise point for a PCB or high heat transfer for a chassis tab, American Beauty has tips that are reliable and provide excellent heat transfer. These lead-free tips can handle the higher temperatures required for lead-free solder. They feature a solid copper core and are RoHS-compliant. Can't find the one you need? There's a good chance it's at DXEngineering.com.

Part Number	Tip Style	Fits Iron Series	Price
AMB-43C	Chisel	3138, 3138X	**$13.95**
AMB-43CU	Chisel	3138, 3138X	**$13.95**
AMB-43D	Diamond	3138, 3138X	**$13.95**
AMB-43S	Screwdriver	3138, 3138X	**$13.95**
AMB-43SBC	Blunt Chisel	3138, 3138X	**$13.95**
AMB-43TC	Turned-Down Chisel	3138, 3138X	**$13.95**
AMB-44C	Chisel	3158, 3158X	**$25.95**
AMB-44D	Diamond	3158, 3158X	**$25.95**
AMB-44S	Screwdriver	3158, 3158X	**$25.95**

Soldering Supplies and Accessories

AMB-480	Solid Tip Cleaner, Vertical Sponge	**$12.95**
AMB-481	Solid Tip Cleaner, Sponge Well Dip	**$14.95**
AMB-573	Soldering Iron Cradle, for Ergo-Iron	**$12.95**
AMB-SS-8	Solder Sucker Bulb	**$9.75**
AMB-CS-ABKIT	Maintenance Kit for All Irons	**$35.95**
AMB-9273-150	150 W Heating Element for 3138 Series	**$40.95**
AMB-CS-38KIT	Maintenance Kit for 3/8" Irons	**$24.95**
AMB-CS-58KIT	Maintenance Kit for 5/8" Irons	**$29.95**

PANAVISE®

New!

PVP-201 PVP-209 PVP-301

Vises

PVP-381

PanaVise Vises are ideal for electronic technicians and hobbyists. Several styles are available and there are accessories to expand your vise for specialized uses.

Each PanaVise Vise uses a patented split-ball design, so you can move the vise head in practically any position. You'll be able to manipulate your project to the easiest approach angle, which helps avoid accidental "whacks" with your soldering iron.

PVP-301	Original PanaVise, Nylon Jaws, 2.25" Jaw Width, Standard Base	**$49.49**
PVP-381	Original PanaVise, Nylon Jaws, 2.25" Jaw Width, Vacuum Base	**$67.49**
PVP-396	PanaVise, Wide Opening Head, 6" Jaw Width, Neoprene Jaws	**$62.99**
PVP-201	PanaVise Jr. Mini-Vise, 2.875" Jaw Width, Standard Base	**$26.99**
PVP-209	PanaVise Jr. Mini-Vise, 2.875" Jaw Width, Vacuum Base	**$31.49**

Vise Buddy Jr.

Quickly transform your standard bench vise into a precision vise. The Vise Buddy slips into your bench vise and lets you work with precision components without damaging them. Made from thermal, reinforced plastic, the jaws open to 2.875 inches and are controlled by a single plastic knob.

PVP-207	Vise Buddy Jr.	**$20.99**

PVP-324

PVP-350

Work Centers

These modular PanaVise Work Centers are all-in-one solutions for your workbench.

The Electronics Work Center includes the 315 Circuit Board Holder, 300 Standard Base, 312 Parts Tray Base Mount, and a 371 Solder Station. The Base is compatible with all 300 series vise heads.

Designed for holding bigger, heavier projects, the Multipurpose Work Center has extra-wide jaws that open a full 9 inches. It also features a large base that keeps the vise head steady.

PVP-324	Electronics Work Center	**$89.99**
PVP-350	Multipurpose Work Center	**$89.99**

Vise Accessories and Replacement Parts

PVP-333	Rapid Assembly Circuit Board Holder, 10" Jaw Width	**$87.99**
PVP-352	High-Heat Jaw Pads (Pair), Handle 500° F	**$11.49**
PVP-376	Vise Head with Oversized (9" Wide) Jaws	**$53.99**

Installation Inspiration.

So, your landlord (or significant other) doesn't want you poking a bunch of holes in your walls to install that new antenna? Here is your answer: Use your windows or vents as passages to complete your connections—without turning your walls into Swiss cheese. These accessories are also ideal for temporary installations. Find more installation solutions at DXEngineering.com.

Window Feed-Thru Jumper

This 16 inch long feed-through lets you slip a flexible cable underneath your window sash. It handles 100 W (PEP), has an SWR under 1.3:1 (below 500 MHz) and uses two SO-239 connectors.

With a nominal loss of .5 dB up to 500 MHz, it's a solution that will please everyone.

CMA-CTC-50M Feed-Thru Jumper **$54.95**

Through Window/ Door Cable Set

Pass this set through the narrow openings of a window, door, or even a vent. This 20 inch cable has an SO-239 connector at each end to make installation easy. It can handle up to 150 watts with a VSWR less than 1.2:1 at up to 500 MHz and an insertion loss lower than 1.7 dB.

DMN-MGC50 Through Window/ Door Cable Set **$53.95**

Universal Window Feedthrough Panel

Excellent for multiple connections, this panel fits between your sash and window sill. From there, use the bulkhead-style connectors to run cable into your station. It's 48 inches wide and has four SO-239 connectors, an N-connector, balanced line terminal, random wire terminal, an F-connector and a power terminal.

MFJ-4603 Universal Window Feedthrough Panels **$89.95**

Precision Shear Side Cutters

These DX Engineering Precision Shear Side Cutters are the perfect tool for trimming loose strands of copper braid, trimming individual strands of the center conductor.

- Low-profile, general purpose cutter
- Superior blade bypass shear cutting action
- Better cuts with half the effort
- Greatly reduced mechanical shock delivered to the work
- Flush cuts soft wire up to 20 AWG (0.8mm)

DXE-170M Precision Shear Side Cutters..... **$7.95**

300 and 450 Ω Ladder Line

DX Engineering's 300 and 450 Ω Ladder Line is rated for full legal transmit power. The 300 Ω ladder line is constructed of 18-gauge conductors with 19 strands of copper clad steel wire, resulting in a velocity factor of 0.88. It is ideal for use with multi-band dipoles or other multi-band antennas.

The 450 Ω ladder line is constructed of 16-gauge conductors with 19 strands of copper clad steel wire. It is ideal for use with our Reversible Beverage Antenna system DXE-RBS-1P. The wire makes the line strong enough for long horizontal runs between supports. Actual impedance is a nominal 400 Ω with a nominal velocity factor of 91%.

300 Ω Ladder Line

DXE-LL300-1C	Ladder Line, 100'	**$41.00**
DXE-LL300-2C	Ladder Line, 200'	**$75.00**
DXE-LL300-3C	Ladder Line, 300'	**$115.00**
DXE-LL300-4C	Ladder Line, 400'	**$147.00**
DXE-LL300-5C	Ladder Line, 500'	**$169.00**

450 Ω Ladder Line

DXE-LL450-5C	Ladder Line, 500' Spool	**$245.00**
DXE-LL450-CTL	Ladder Line per foot	**$0.45**
DXE-LL450-1K	Ladder Line, 1,000' Spool	**$449.99**
DXE-LL-INS	Ladder Line Supports for 450 Ω line, 25 Per Pack	**$9.75**
DXE-LLC-1P	Ladder Line Coupler for 450 and 300 Ω Ladder Line	**$4.95**

75 Ω F6 Style, Direct-Bury Coax

We recommend using a high quality 75 Ω "flooded" F6 type coax. Flooded style cables have the distinct advantage of automatically sealing small accidental cuts or lacerations of the jacket. Flooding also prevents shield contamination and allows the cable to be direct-buried. This low-loss cable features dual shields and an 85% velocity factor.

We recommend using Snap-N-Seal® connectors to ensure a high quality, weather resistant feedline connection. The proper tools must be used to install these connectors.

DXE-F6-CTL	F-6 Style Direct-Bury Coax per foot	**$0.19**
DXE-F6-1000	F-6 Style Direct-Bury Coax, 1,000' Spool	**$149.95**
DXE-SNS-CT1	Snap-N-Seal Compression Tool	**$52.00**
DXE-CPT-659	Coax Cable Stripper for F-6 Cable	**$24.30**

Custom Cable Assemblies with connectors available—call for details.

Coaxial Cable Strippers

These strippers are simple to use and they deliver a professional, repeatable prep job every time. They feature an adjustable blade that is easy to replace. No special cartridge necessary.

DXE-15030	Stripper for CATV and RG-58/59/62/66	**$13.95**
DXE-15035	Stripper for RG-8, RG-213 and 400MAX	**$19.95**

RG-8X BNC Jumper Cable Assemblies

These male BNC jumper cables feature secure, crimped connectors and tube-shrink seals, which make them impervious to the elements. They are Hi-Pot tested. In addition to 50 Ω assemblies, there are 75 Ω assemblies available as well.

DXE-8XDB002	RG-8X BNC Jumper Cable, 2'	**$14.25**
DXE-8XDB003	RG-8X BNC Jumper Cable, 3'	**$14.75**
DXE-8XDB006	RG-8X BNC Jumper Cable, 6'	**$15.75**
DXE-8XDB012	RG-8X BNC Jumper Cable, 12'	**$17.75**
DXE-8XDB025	RG-8X BNC Jumper Cable, 25'	**$21.75**
DXE-8XDB050	RG-8X BNC Jumper Cable, 50'	**$32.75**

Klein-Kurve Wire Stripper/Cutter

The Klein-Kurve wire strippers are ideal for stripping solid (10-18 AWG) and stranded (12-20 AWG) wire cleanly and easily. The 7 1/8 inch strippers also have precise shear-type blades to neatly cut copper wire, easy-to-read markings on both sides, and extra-soft grips and curved handles for comfort.

KLE-11055 Klein-Kurve Wire Stripper/Cutter **$17.16**

3/4 Inch Crimping/Cutting Tool

This Klein crimping and cutting tool crimps insulated and non-insulated connectors. The crimping die is marked for insulated and non-insulated solderless terminals and connectors, and accommodates 10-22 AWG wires. The tool has a specially hardened wire cutter in the nose, a tapered nose design for working in confined spaces, a hot-riveted joint for smooth action, and plastic-dipped, cushioned handles for comfort.

KLE-1005 Crimping/Cutting Tool..... **$26.02**

Automatic Wire Stripper/ Crimper/Cutter

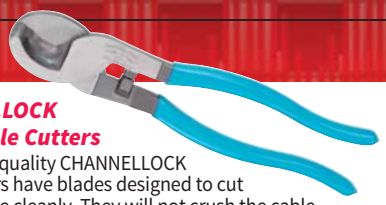
This DXE-Approved Wire Stripper uses a spring-loaded design to make quick work of wires ranging from 24- to 10-gauge. Just insert the wire, squeeze the handle, and listen for the click. That's the sound of another perfect wire stripping job performed in about 2 seconds—a fraction of the time it takes your pocket knife to do the same job. An adjustable wire length guide helps you make uniform strips, and the built-in wire cutter and crimper help you complete your wiring job.

SUM-900031 Automatic Wire Stripper/ Crimper/Cutter **$18.97**

Antenna Adapter Cable

Make quick, in-shack hookups easier. This 4 foot cable has a male SMA connector on one end and a SO-239 connector on the other. This cable is perfect for hooking up a scanner or your HT.

DMN-C104SMA Adapter Cable..... **$16.95**



CHANNELLOCK Coax Cable Cutters

These high-quality CHANNELLOCK cable cutters have blades designed to cut coaxial cable cleanly. They will not crush the cable like diagonal side cutters—the cut end of the cable is cleanly cut, ready for stripping and connector assembly. The cutters are made from polished, high carbon drop forged steel and are carefully balanced with broader handles for better leverage and extra comfort. The cutters can handle aluminum up to 4/0-gauge and soft copper cable up to 2/0-gauge.

CNL-911 CHANNELLOCK Coax Cable Cutters **$18.97**

Coax Cable Prep Kits

These kits package the most commonly used coax cable prep tools together. The rugged cases have foam inserts precut for the tools plus extra compartments for other tools, connectors, etc. The case is also available separately.

Basic Prep Kit

- Stripping tool for RG-213 cable
- Coaxial cable shears • Case
- Assembly tool for PL-259 connectors

DXE-UT-KIT1-D Basic Prep Kit **$99.95**

Complete Prep Kit

- Stripping tool for RG-213 cable
- Stripping tool for RG-8X cable
- Assembly tool for PL-259 connectors
- Assembly tool for 2-piece N connectors
- Coaxial cable shears
- Precision braid trimmers
- Case
- One Pack of Replacement blades for stripping tools

DXE-UT-KIT2-D Complete Prep Kit..... **$174.95**

DXE-UT-CASE Case Only for Coax Tools..... **$22.95**

Utility Tool Cases

If you want a universal case, these Utility Models have low-density convoluted foam that conforms to the contents. They have snap latches and can be padlocked for extra security.

DXE-SW-CASE Tool Case, 13" x 9.6" x 3" **$13.95**

DXE-SW2-CASE Tool Case, 15" x 12" x 3.5" **$11.95**

Snap-N-Seal Watertight Connectors

Snap-N-Seal is an environmentally sealed Type F coax connector system. Designed for harsh environments, the connectors have a unique, 360 degree radial compression system that offers the signal leakage protection required for high performance receive systems.

The quad-sealed system prevents moisture from migrating into the connection, and 360 degree radial compression provides superior RF integrity (-95dB typical, 60% bonded foil cable).

- Easy cable preparation
- Connector to cable retention: 40 lbs. minimum
- Superb impedance match to 1 GHz
- Manufactured of high quality 360 brass, cadmium plated with iridescent clear chromate coating for maximum corrosion resistance
- UV-resistant plastic and O-rings provide a reliable environmentally sealed connector

Normal crimping tools or pliers will not work on Snap-N-Seal connectors—an installation tool like DX Engineering's DXE-SNS-CT1 is required.

DXE-SNS6-25 Snap-N-Seal Connector for F6 cable, 25 pieces **$25.50**

DXE-SNS-CT1 Compression Tool for Snap-N-Seal Connectors **$52.00**

DXE-CPT-659 Coax Cable Stripper for RG-6 and RG-59 ..... **$24.30**

DX ENGINEERING®

A Complete Crimping Solution.
For Coaxial Cable and Powerpole® Connectors.

Ultra-Crimp

New!

Ultra-Crimp Tool Connector Kit

Made precisely for coaxial and Powerpole® connectors, this kit is filled with the exact prep tools and dies you'll need to make full-ferrule connections. The kit comes with the Ultra-Crimp Tool, shears, braid trimmer, Allen wrench and case. It also includes crimp dies for RG-8U, RG-8X, LMR-400, and LMR-240 cable, plus a crimp die for Powerpole 15A, 30A and 45A connectors.

The Ultra-Crimp Tool, interchangeable dies and specialized carrying case are also available separately.

DXE-UT-KIT-CRIMP Ultra-Crimp Connector Kit **$113.95**

DXE-UT-CRIMP Ultra-Crimp Tool with RG-8U Die Set..... **$38.95**

DXE-UT-CRIMP-PWR Ultra-Crimp Tool with Powerpole® Die Set **$38.95**

DXE-UT-CRIMP-8X Ultra-Crimp Tool with RG-8X Die Set **$38.95**

DXE-UT-DIE-8U Crimp Tool Die, for RG-8U Sized Cable..... **$14.49**

DXE-UT-DIE-8X Crimp Tool Die, for RG-8X and RG-58U Sized Cable..... **$14.49**

DXE-UT-DIE-PP Crimp Tool Die, for Powerpole® 15A, 30A, 45A Contacts **$14.49**

DXE-CRIMP-CASE Crimp Connector Tool Case **$22.95**

DXE-UT-DIE-8U

DXE-UT-DIE-8X

DXE-UT-DIE-PP

F-Connector 75 Ω Cable Prep Tool Kit

- Stripping tool for F6 cable
- Snap-N-Seal® watertight F-Connectors (25 total)
- SNS connector compression tool
- Coaxial cable shears
- F-Connector tightening tool
- Case

DXE-UT-KITF Prep Kit for F6 Cable **$149.95**

DXE-F6-CASE Case Only..... **$22.95**

DX Engineering F-Connector Tightening Tool

This tool installs and removes F connectors in high density and hard to reach locations. It helps ensure proper connections to reduce the possibility of loose connector related problems. It is the only tool that works with bent coax. Only finger force is required.

DXE-CIT-1 F-Connector Tightening Tool..... **$9.99**

3M™

Scotch® Super 33+ Vinyl Electrical Tape

Scotch Super 33+ is highly conformable and stretchable, suitable for all weather applications. The tape combines a PVC backing with excellent electrical insulating properties to provide primary electrical insulation for splices (up to 600V) as well as protective jacketing. It is recommended as a protective overwrap for 3M Tremflex™ Rubber Splicing Tape when used for RF connector weatherproofing.

TRM-06132 Scotch Super 33+ Vinyl Electrical Tape..... **$6.97**

3M Temflex™ 2155 Rubber Splicing Tape

3M Temflex 2155 Rubber Splicing Tape is a conformable, self-fusing rubber electrical insulating tape. Designed for low voltage electrical insulating and moisture sealing applications, the rubber-based tape is capable of operating in temperatures up to 80 degrees C. It is compatible with synthetic cable and wire insulations and is not corrosive to aluminum or copper conductors. For outdoor use, the tape should be protected from UV deterioration with an overwrap of Scotch Super 33+ Vinyl Electrical Tape.

DXE-3M2155 3M Temflex 2155 Rubber Splicing Tape **$5.95**

DXEngineering.com is loaded with detailed photos, specs, instruction sheets, and more!

COMET™

Adapter Cables

Get your gear up and running quickly. These RG-188 adapter cables let you connect various types of equipment and antennas without significant insertion loss. Find more adapters at DXEngineering.com.

Part Number	Connector 1	Connector 2	Length	Price
CMA-HB-05	SMA Male	BNC Female	18"	**$14.95**
CMA-HM-05	BNC Male	SO-239	18"	**$14.95**
CMA-HM-05JSJ	SMA Female	SO-239	18"	**$15.95**
CMA-HS-05	SMA Male	SO-239	18"	**$11.95**
CMA-HS-10	SMA Male	SO-239	39"	**$17.95**

Premium Copper Antenna Wire

Use DX Engineering antenna wire to achieve top performance and long-life, trouble-free operation. This insulated copper wire is UV-resistant and lays out easily, unlike the wire that is commonly available at the "big box" stores which coils and kinks. It will last much longer in contact with the environment than bare wire. It is available in pre-cut lengths for easy dipole assembly, or in bulk lengths of 500 and 1,000 feet.

- Heavy #14 AWG stranded copper antenna wire
- UV-resistant insulation
- Reduces precipitation static
- Long, reliable life

DXE-ANTW-75 #14 Insulated Antenna Wire, 40M & Up, 75' **$11.45**
DXE-ANTW-150 #14 Insulated Antenna Wire, 80M & Up, 150' **$20.95**
DXE-ANTW-300 #14 Insulated Antenna Wire, 160M & Up, 300' **$39.95**
DXE-ANTW-500 #14 Insulated Antenna Wire, Multiple Antennas, 500'..... **$74.95**
DXE-ANTW-1000 #14 Insulated Antenna Wire, Multiple Antennas, 1,000'... **$142.95**

COM-CW3

DXE-Q75-10-4P

Hybrid Array Cables

DXE-Q75-160-4P Hybrid Array Cable, 160M, DXE-11U, PL-259 Connectors **$446.95**
DXE-Q75-80-4P Hybrid Array Cable, 80M, DXE-11U, PL-259 Connectors **$259.95**
DXE-Q75-40-4P Hybrid Array Cable, 40M, DXE-11U, PL-259 Connectors **$169.95**
DXE-Q75-30-4P Hybrid Array Cable, 30M, DXE-11U. PL-259 Connectors **$152.95**
DXE-Q75-20-4P Hybrid Array Cable, 20M, DXE-11U, PL-259 Connectors **$142.95**
DXE-Q75-15-4P Hybrid Array Cable, 15M, DXE-11U, PL-259 Connectors **$133.95**
DXE-Q75-10-4P Hybrid Array Cable, 10M, DXE-11U, PL-259 Connectors **$131.95**

Accessories

COM-CW4 4-Conductor Control Cable ..... per foot **$0.28**
COM-VFA-1 Vertical Feedpoint Assembly **$15.95**
COM-VFA-4 Vertical Feedpoint Assembly, Set of 4 ..... **$49.95**
DXE-RADP-3 Stainless Steel Radial Plate with 20 Bolt Sets **$54.50**
DXE-SSVC-2P V-Saddle Clamp, Fits 1" to 2" Tube **$11.95**

Rotator Accessories

DXE-UBK-HYG-1 Replacement U-Bolt (single) Kit for Hy-Gain HAM-Series/CD-45 ..... **$4.50**
DXE-UBK-HYG-2 Replacement U-Bolt (single) Kit for Hy-Gain T2X Rotor **$5.50**

Multi-Conductor Control Wire

DXE-CW9 Shielded Control Wire, 9-Conductor ..... per foot **$0.32**
DXE-CW9-1K Shielded Control Wire, 9-Conductor, 1,000' Spool **$229.00**
DXE-CW9S Shielded Control Wire, 9-Conductor Stranded ..... per foot **$0.36**
DXE-CW8 Control Wire, 8-Conductor ..... per foot **$0.48**
DXE-CW8-HD Control Wire, 8-Conductor, Heavy-Duty ..... per foot **$0.89**
DXE-CW8-HD-1000 Control Cable, 8-Conductor, Heavy-Duty, 1,000' Spool **$835.75**
COM-CW3 Cable, 3-Conductor ..... per foot **$0.25**
COM-CW4 Cable, 4-Conductor ..... per foot **$0.25**

You'll find the Rotators & Controllers on pages 56-57.

Amphenol® Connex New!

AMP-182130-10

AMP-112116

AMP-112533

AMP-172100

AMP-172102

AMP-172135

AMP-182100

AMP-182102

AMP-182115-10

Crimp Connectors

All your precision Ham gear doesn't mean much if you're not using the proper coaxial cable connections. DX Engineering carries Amphenol Connex crimp connectors to ensure your gear is operating at its full potential. Depending on the type, these crimp connectors feature nickel or silver plated bodies, gold or silver plated center pins and PTFE insulators. Find even more details and options, along with the proper crimping/stripping tools, at DXEngineering.com.

Part Number	Connector	For Cable Type	Price
AMP-112116	BNC Male	RG-58/LMR-195	**$1.59**
AMP-112533	BNC Male	RG-8X/LMR-240	**$1.78**
AMP-172100	Type N Male	RG-58/LMR-195	**$4.01**
AMP-172102	Type N Male	RG-8/RG-213/RG-393	**$4.35**
AMP-172102H243	Type N Male	DXE-8U/DXE-400MAX/LMR-400	**$3.91**
AMP-172135	Type N Male	RG-8X/LMR-240	**$4.38**
AMP-182100	PL-259	RG-58/LMR-240	**$4.14**
AMP-182102	PL-259	RG-8/RG-213/RG-393	**$3.95**
AMP-182115-10	PL-259	RG-8X/LMR-240	**$4.50**
AMP-182130-10	PL-259	DXE-8U/DXE-400MAX/LMR-400	**$4.50**

75 Ω F6 Style, Direct-Bury Coax

We recommend using a high quality 75 Ω "flooded" F6 type coax. Flooded style cables have the distinct advantage of automatically sealing small accidental cuts or lacerations of the jacket. Flooding also prevents shield contamination and allows the cable to be direct-buried. This low-loss cable features dual shields and an 85% velocity factor.

We recommend using Snap-N-Seal® connectors to ensure a high quality, weather resistant feedline connection. The proper tools must be used to install these connectors.

DXE-F6-CTL F-6 Style Direct-Bury Coax ..... per foot **$0.19**
DXE-F6-1000 F-6 Style Direct-Bury Coax, 1,000' Spool **$149.95**
DXE-SNS-CT1 Snap-N-Seal Compression Tool **$52.00**
DXE-UCS-659 Coax Cable Stripper for F-6 Cable **$24.30**

Custom Cable Assemblies with connectors available—call for details.

Always the Best Cable at the Lowest Price

Made to DX Engineering's Rigid Specifications.
Available in full spools or cut to your custom length.

DX® ENGINEERING

Bulk Cable	Impedance	Length	Price
Low-Loss Mini-8 Cable			
DXE-8X	50 Ω	per foot	**$0.31**
DXE-8X-1000	50 Ω	1,000'	**$259.99**
Low-Loss Cable			
DXE-213U	50 Ω	per foot	**$0.89**
DXE-213U-500	50 Ω	500'	**$409.99**
DXE-11U	75 Ω	per foot	**$0.52**
Premium Low-Loss Cable			
DXE-400MAX	50 Ω	per foot	**$0.82**
DXE-400MAX-500	50 Ω	500'	**$364.99**
Low-Loss Foam Cable			
DXE-8U	50 Ω	per foot	**$0.79**
DXE-8U-500	50 Ω	500'	**$359.99**
Highly Flexible Cable			
DXE-58AU	50 Ω	per foot	**$0.29**
Flooded Jacket Cable			
DXE-F6-CTL	75 Ω	per foot	**$0.19**
DXE-F6-1000	75 Ω	1,000'	**$149.95**

Order your in-stock parts by 10 pm ET and they'll ship today!

Low-Loss Long Line Transformer Kit

At last—an ultra-low loss, cost effective, long line feedline system for 50 Ω HF antennas! This transmission line alternative is designed to be used over long runs where coaxial cable losses and cost become prohibitive. The kit consists of a pair of special high power 450 Ω balanced to 50 Ω unbalanced line transformers that can be used at each end of any length of 450 Ω parallel wire transmission line. This allows you to create a cost-effective, low-loss, very long feedline to connect a 50 Ω HF transmitter or transceiver to a distant matched 50 Ω HF antenna system.

Typical system loss over 1,000 feet is 1 dB or less at 10 MHz!

The special Maxi-Core™ high-power matching transformers include internal current chokes. They provide exceptional common-mode current isolation between their 450 Ω balanced line terminals and their unbalanced 50 Ω coaxial cable connections over a wide frequency range. High common-mode isolation from internal chokes, along with the carefully balanced matching transformers, significantly reduces stray signal reception and feedline radiation when compared to other less-sophisticated matching methods.

- 1.8 MHz through 30 MHz—broadband for the widest range of applications
- 5 kW continuous/10 kW intermittent power rating for maximum dependability
- Top quality Teflon® SO-239 connectors
- Ceramic insulators with stainless steel connection hardware for the 450 Ω ladder line
- Transmission line available separately

DXE-BAL450H10-BP	Special Line Transformer, Pair	**$299.95**
DXE-LL450-5C	450 Ω Ladder Line, 500' Spool	**$245.00**
DXE-LL450-1K	450 Ω Ladder Line, 1,000' Spool	**$449.99**
DXE-LL-INS	Ladder Line Supports, 25 Per Pack	**$9.75**
DXE-LLC-1P	Ladder Line Coupler	**$4.95**

Coaxial Connector Adapters

DX Engineering has a selection of assorted adapters for connecting cables with different type connectors.

UHF Right Angle Adapter
DXE-532 ..... **$5.95**

UHF Tee Adapter
DXE-533 ..... **$7.95**

UHF Female Barrel Adapter
DXE-536 ..... **$2.95**

UHF Double Male Adapter
DXE-538 ..... **$4.95**

N Tee Adapter, All Female
DXE-1011-1 ..... **$11.95**

N Right Angle Adapter
DXE-1012-1 ..... **$10.95**

N Double Female Barrel Adapter
DXE-1013-1 ..... **$7.95**

N Male to UHF Female Adapter
DXE-1035-1 ..... **$7.95**

N Female to UHF Male Adapter
DXE-1036-1 ..... **$5.95**

N Male to BNC Female Adapter
DXE-1037-1 ..... **$6.95**

N Double Female Bulkhead Adapter
DXE-1023 ..... **$7.95**

BNC Double Female Barrel Adapter
DXE-1134 ..... **$2.95**

BNC Female to F Male Adapter
DXE-1144 ..... **$4.95**

BNC Male to UHF Female Adapter
DXE-1136 ..... **$5.95**

BNC Female to UHF Male Adapter
DXE-1137 ..... **$5.95**

BNC Male to F Female Adapter
DXE-1155 ..... **$3.95**

F Double Female Bulkhead Adapter
DXE-1477 ..... **$1.95**

N Female to BNC Male Adapter
DXE-1038-1 ..... **$7.95**

DXE-532

DXE-533

DXE-536

DXE-538

DXE-1011-1

DXE-1012-1

DXE-1013-1

DXE-1035-1

DXE-1036-1

DXE-1037-1

DXE-1023

DXE-1134

DXE-1144

DXE-1136

DXE-1137

DXE-1155

DXE-1477

DXE-1038-1

Silver/PTFE Coax Connectors

This superior PL-259 connector uses silver plated outer and inner conductors and a PTFE insulator. The connector has very low loss and high electrical breakdown. It fits directly on RG-8, RG-213, LMR-400, 9913 and other cables with a nominal .400 inch O.D. jacket size.

Use a DXE-UG175 reducer with this connector to fit RG-58A/U and/or LMR195 coax, and a DXE-UG176S reducer to fit RG-8X coax.

DXE-PL-259	PL-259 Connector	**$2.75**
DXE-N1001-S	N Male Connector, 2-Piece	**$6.95**
DXE-UG176S	RG-8X Reducer for PL-259, Silver Plated	**$0.75**
DXE-UG175S	RG-58 Reducer for PL-259, Silver Plated	**$0.75**

Chassis Mount SO-239 Connectors

DX Engineering offers Amphenol and non-Amphenol brand SO-239 chassis mount connectors. The connectors come with the correct bolts, flat washers, star washers and Nylok locking nuts. These will fit the DX Engineering Radial Plate perfectly.

DXE-112-KIT	SO-239 with Silver Plating and PTFE Insulation	**$6.45**
DXE-83-798-KIT	Amphenol SO-239 with PTFE Insulation	**$8.95**
DXE-83-1R-KIT	Amphenol SO-239 with PBT Insulation	**$7.95**
DXE-VC-0612	Black Vinyl Cap for SO-239, Pack of 20	**$5.75**
DXE-T001	Installation Tool Kit for SO-239/Bulkhead Connectors	**$9.95**

Female Bulkhead Connector

This high-quality bulkhead connector uses silver plated outer and inner conductors and a PTFE insulator. The connector has very low-loss and high electrical breakdown. It comes with two nuts to secure the connector to our Radial Plate or other flat surface. The connector ensures the radial ground system, the antenna ground, and the feedline shield are common. It can also be used for joining two pieces of coax with male PL-259s together.

DXE-363-SST	Bulkhead Connector with SO-239 Socket	**$6.95**
DXE-T001	Installation Tool Kit for SO-239/Bulkhead Connectors	**$9.95**

About RF Connectors

Many different types of coaxial RF connectors are used in laboratory and radio-communications applications. The connectors listed here are the most common types used by Amateur Radio operators:

Type N—This cable connector is found in many UHF and higher applications up to about 10 GHz. It is designed to present constant impedance from end-to-end of a length of transmission line. Most transmit and receive communications applications use the 50 Ω version to match the impedance of commonly used RF coaxial cables and equipment. The Type N has a threaded outer coupling to ensure it mates positively and securely.

UHF—One of the first coaxial connectors, this is also known as a PL-259 (a carry-over from an old military designation). The UHF designation has been applied since the days when 30 MHz was considered UHF. The connector has an SO-239 socket and a threaded outer coupling to ensure that it mates positively and securely.

The perceived drawback of the UHF connector is that it is not a true 50 Ω connector, allowing a non-constant impedance connection. While this limits its use to frequencies up to about 300 MHz, the UHF connector is an ideal, low-cost solution for HF applications. Because the basic junction is simple, many low-cost, low-quality versions are available.

DX Engineering has selected the best silver plated, PTFE insulated connectors to assure the best performance for your HF, VHF and UHF applications.

Part & Manufacturer Index

Find it Fast.

As you flip through these pages, you've probably noticed that we've added dozens of new products to help equip your shack and installations. But all of these new products and pages add up quickly. To help you navigate through it all, we've created this handy index. Plus, if you want to just see everything that's new to this catalog, check out the back cover. There's another index there that only includes the newest products.

We've added so much new gear that we couldn't cram it all in here—the catalog would be so huge that it couldn't fit in your mailbox! Visit DXEngineering.com to see everything we carry, including all the products that were too new to make it in by our catalog deadline. We're always adding new products, tools and gear to improve your on-air experience, so check back often to see the latest.

If there's something you need from a manufacturer we carry, but it's not listed here or online, call us: 1-800-777-0703. Special ordering anything from our manufacturers is hassle-free.

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DX Engineering #1 Rated High Performance Cable and Assemblies

All DX Engineering cable assemblies use high-quality coaxial cable. Each assembly is 100% Hi-Pot/high voltage-tested to guarantee a quality cable you can count on in the most severe operating environments.

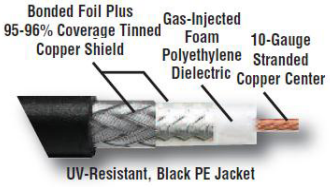
DXE-8U cable has a PVC jacket and is normally recommended for indoor applications or protected areas where ultraviolet contamination is unlikely to occur. DXE-RG-8U is no longer a government MIL-spec cable, which means cable construction can vary by manufacturer. When in doubt, use DXE-213U cable.

DXE-213U has a non-contaminating PVC jacket and solid PE dielectric for long life in most outdoor applications.

DXE-8X (sometimes called Mini-8) is a low-loss foam dielectric cable somewhat smaller than DXE-RG-8U. It is suitable for most HF applications where less than maximum power is used. Its high flexibility makes it ideal for short, in-shack jumper cables.

DX Engineering's special DXE-400MAX cable has a low-loss, gas-injected foam polyethylene dielectric, a bonded tape foil covered by a braided copper shield, and a special low density polyethylene jacket for outdoor use and direct-burial.

DXE -400MAX Low -Loss Cable



Gas-Injected Foam Won't Absorb Water

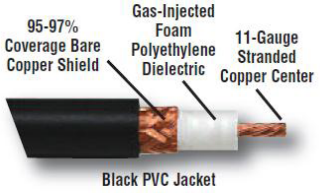
- Low-loss, gas-injected foam polyethylene dielectric bonded foil covered by a braided copper shield
- .405" low-density polyethylene jacket is UV resistant, ideal for outdoor use
- Direct-bury

Attenuation/ 100 ft.	Power Rating	Efficiency %
0.3 dB @ 5 MHz	6.9 kW	93 %
0.5 dB @ 10 MHz	4.8 kW	90 %
0.8 dB @ 30 MHz	2.8 kW	83 %
1.1 dB @ 50 MHz	2.1 kW	79 %
1.8 dB @ 150 MHz	1.2 kW	65 %
3.3 dB @ 450 MHz	0.7 kW	47 %

Velocity Factor: 84% (0.84)

Minimum Bend Radius: 6" Repeated Bends, 2.5" Fixed Install

DXE -8U Low -Loss Foam Dielectric Cable



Gas-Injected Foam Won't Absorb Water

- Low-loss, gas-injected foam polyethylene dielectric
- .405" high-flex PVC jacket
- Low-loss foam dielectric
- Braided copper shield

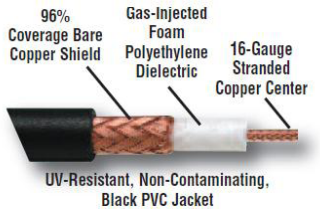
Attenuation/ 100 ft.	Power Rating	Efficiency %
0.3 dB @ 5 MHz	5.4 kW	93 %
0.5 dB @ 10 MHz	4.1 kW	90 %
0.9 dB @ 30 MHz	2.2 kW	81 %
1.2 dB @ 50 MHz	1.8 kW	77 %
2.2 dB @ 150 MHz	1.0 kW	60 %

Velocity Factor: 81% (0.81)

Minimum Bend Radius: 6" Repeated Bends, 2.5" Fixed Install

DXE -8X Low -Loss Foam Dielectric Cable

(also known as RG-8X or Mini-8)



Gas-Injected Foam Won't Absorb Water

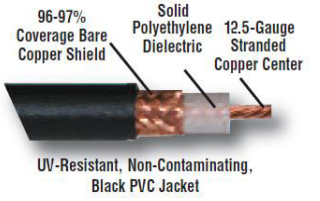
- Low-loss, gas-injected foam polyethylene dielectric
- Very flexible; ideal for short, in-shack jumper cables
- .242 Type II jacket, non-contaminating and UV-resistant, for outdoor use
- Direct-bury

Attenuation/ 100 ft.	Power Rating	Efficiency %
0.6 dB @ 5 MHz	3.0 kW	86 %
0.9 dB @ 10 MHz	2.2 kW	81 %
1.4 dB @ 30 MHz	1.2 kW	69 %
2.0 dB @ 50 MHz	0.9 kW	62 %
3.8 dB @ 150 MHz	0.4 kW	42 %

Velocity Factor: 82% (0.82)

Minimum Bend Radius: 2.4"

DXE -213U MIL -Spec Cable



Solid Dielectric Won't Absorb Water

- Solid Polyethylene Dielectric
- .405 Type II-A jacket is non-contaminating and UV-resistant, suitable for outdoor use
- Direct-bury
- Braided copper shield

Attenuation/ 100 ft.	Power Rating	Efficiency %
0.4 dB @ 5 MHz	4.9 kW	90 %
0.6 dB @ 10 MHz	3.4 kW	87 %
1.0 dB @ 30 MHz	2.0 kW	79 %
1.3 dB @ 50 MHz	1.5 kW	73 %
2.4 dB @ 150 MHz	0.9 kW	57 %

Velocity Factor: 66% (0.66)

Minimum Bend Radius: 5"

DXE-400MAX Low-Loss

DXE-400MAXDU003	3 Feet	**$20.95**
DXE-400MAXDU006	6 Feet	**$23.95**
DXE-400MAXDU009	9 Feet	**$26.95**
DXE-400MAXDU012	12 Feet	**$28.95**
DXE-400MAXDU018	18 Feet	**$30.95**
DXE-400MAXDU025	25 Feet	**$43.95**
DXE-400MAXDU050	50 Feet	**$68.95**
DXE-400MAXDU075	75 Feet	**$96.95**
DXE-400MAXDU100	100 Feet	**$118.95**
DXE-400MAXDU125	125 Feet	**$147.95**
DXE-400MAXDU150	150 Feet	**$178.95**
DXE-400MAXDU175	175 Feet	**$206.95**
DXE-400MAXDU200	200 Feet	**$236.95**
DXE-400MAX	Per Foot	**$0.82**
DXE-400MAX-500	500' Spool	**$364.99**

DXE-8U Low-Loss Foam Dielectric

DXE-8UDU002	2 Feet	**$18.95**
DXE-8UDU003	3 Feet	**$19.45**
DXE-8UDU006	6 Feet	**$22.45**
DXE-8UDU009	9 Feet	**$24.95**
DXE-8UDU012	12 Feet	**$27.45**
DXE-8UDU018	18 Feet	**$29.45**
DXE-8UDU025	25 Feet	**$42.45**
DXE-8UDU050	50 Feet	**$67.45**
DXE-8UDU075	75 Feet	**$95.45**
DXE-8UDU100	100 Feet	**$117.45**
DXE-8UDU125	125 Feet	**$146.45**
DXE-8UDU150	150 Feet	**$176.45**
DXE-8UDU175	175 Feet	**$204.45**
DXE-8UDU200	200 Feet	**$233.45**
DXE-8U	Per Foot	**$0.79**
DXE-8U-500	500' Spool	**$359.99**

DXE-8X, Low-Loss Foam Dielectric

DXE-8XDU1-5	1.5 Feet	**$15.95**
DXE-8XDU002	2 Feet	**$16.95**
DXE-8XDU003	3 Feet	**$17.95**
DXE-8XDU006	6 Feet	**$18.95**
DXE-8XDU012	12 Feet	**$23.95**
DXE-8XDU015	15 Feet	**$24.95**
DXE-8XDU018	18 Feet	**$25.95**
DXE-8XDU025	25 Feet	**$28.95**
DXE-8XDU050	50 Feet	**$36.95**
DXE-8XDU075	75 Feet	**$43.95**
DXE-8XDU100	100 Feet	**$53.95**
DXE-8XDU150	150 Feet	**$78.95**
DXE-8X	Per Foot	**$0.31**
DXE-8X-1000	1,000' Spool	**$259.99**

DXE-213U MIL-Spec

DXE-213UDU003	3 Feet	**$19.95**
DXE-213UDU006	6 Feet	**$22.95**
DXE-213UDU012	12 Feet	**$27.95**
DXE-213UDU018	18 Feet	**$29.95**
DXE-213UDU025	25 Feet	**$42.95**
DXE-213UDU050	50 Feet	**$67.95**
DXE-213UDU075	75 Feet	**$95.95**
DXE-213UDU100	100 Feet	**$117.95**
DXE-213UDU125	125 Feet	**$146.95**
DXE-213UDU150	150 Feet	**$172.95**
DXE-213UDU175	175 Feet	**$205.95**
DXE-213UDU200	200 Feet	**$233.95**
DXE-213U	Per Foot	**$0.89**
DXE-213U-500	500' Spool	**$409.99**

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The Amateur Radio universe is expanding faster than ever with the advent of digital modes. DX Engineering is growing with it, adding products from new manufacturers to keep your station on the leading edge of technology.

New!

To help you see what's new, we've included this handy index that only includes our NEW products. We're always growing and our catalog can't always keep up, so visit DXEngineering.com to see the latest.

New Product Index

New!

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