

MFJ Apartment Antenna

Covers 40 thru 2 Meters . . . Mounts outdoor to windows, balconies, railings . . . works great indoors mounted to desks, tables, bookshelves



MFJ-1622
\$99⁹⁵
Ship Code C
New!

This new MFJ-1622 Apartment Antenna lets you operate 40 through 10 Meters on HF and 6 and 2 Meters on VHF with a single antenna!

Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. It's not a five element yagi, but you'll work your share of exciting DX!

Highly efficient air wound "bug catcher" loading coil and telescoping 5 1/2 foot radiator lets you really get out! Radiator collapses to 2 1/2 feet for easy storage and carrying.

It includes coax RF choke balun, coax feed line, counterpoise wire and safety rope.

The operating frequency is adjusted by moving the "wander lead" on the coil and adjusting the counterpoise for best SWR.

HF mini-Bugcatcher

Highly efficient base-loaded 5 1/2' bugcatcher covers 40 thru 6 Meters . . . Use simple trunk lip, mirror, luggage mount or tri-mag mount

New!



MFJ-1624 **\$79⁹⁵** Become an "HF Mobileer" almost instantly with almost no effort! Have tons of fun rag-chewing and DXing on the HF bands. Turn boring drives into fun-filled ham adventures.

It only takes minutes to attach a trunk lip mount (MFJ-347, \$39.95), mirror or luggage mount (MFJ-342, \$9.95) or tri-magnet mount (MFJ-338T, \$19.95).

Screw in your MFJ-1624 mini bugcatcher HF mobile antenna.

Throw your rig into your car, plug it in the cigarette lighter and turn the power down to 20 Watts or so (to avoid overloading your cigarette lighter; MFJ-1624 handles 300 Watts PEP).

Operate HF mobile and enjoy DXing! Bugcatcher design uses large highly-efficient air-wound inductor -- far out performs other compact HF antennas.

Exclusive built-in inductive matching network keeps SWR low. 5 1/2 foot whip collapses to 2 1/2 feet for easy storage and garages. Base loaded for minimum wind load and stress. Change bands by moving "wander lead". 3/8 by 24 inch mount.

MFJ Vertical for Antenna Restricted Areas

40, 20, 15, 10 Meters, Automatic Band Switching



MFJ-1795
\$149⁹⁵
Ship Code D

New!

Perfect for permanent or portable operation in antenna restricted areas. Hide behind trees, fences, buildings, in bushes -- only 7 to 10 feet tall (adjustable).

Low angle of radiation for DXing, omnidirectional, handles 1500 watts PEP.

Highly efficient end-loading. Entire length radiates. Low SWR.

Ground mounts with suitable ground such as MFJ-1904 Ground-Coupled Antenna Base, radials or ground rods. Or roof mount with radials.

MFJ Ground-Coupled Portable Antenna Base

Can you use a portable or semi-permanent vertical antenna that is easily carried, easy-to-setup and radiates well with low SWR?



MFJ-1904
\$99⁹⁵
Ship Code D

Shown with multi-band Hy-Gain antenna and mount, (not included).

New!

Truly portable vertical antennas have two basic problems --

1. How do you get an effective ground so your antenna will radiate well?
2. How do you support and mount a vertical antenna easily and quickly?

MFJ brings you a simple breakthrough solution that is small, easy-to-carry and radiates very well!

The MFJ Ground-Coupled Portable Antenna Base™ gives you a stable way to mount your vertical antenna and provides an effective ground by just plopping down the base and standing on it to push the legs firmly into the ground. It'll support many

multi-band verticals.

You can operate 160 Meters thru 6 Meters and above almost anywhere with an effective signal. It's perfect for traveling or for semi-permanent summer/winter homes. You can easily set it up and take down your vertical antenna for stealth operation if you live in an antenna-restricted area.

Mobile antennas on cars, trucks and other vehicles are grounded by the vehicle body acting as one plate of a capacitor coupling RF to ground. This time proven principle needs no tuning and the antenna radiates well and gives good SWR on all bands.

The capacitance to ground is proportional to the area over ground and inversely proportional to the distance between ground and the car body.

In other words, by reducing the distance between the capacitor plate (i.e. the car body) and ground, the area of the capacitor plate (the car body) can be reduced dramatically. If that distance is reduced to near zero the capacitor plate can be very small.

A 2 x 2 foot square of metal firmly against the ground can approximate the capacitance of a car to ground. This provides an effective ground for vertical antennas. A mobile antenna using this capacitance ground will perform about the same as on a car. If the antenna is made longer than a normal mobile whip -- which you can do in fixed portable operation -- the antenna performance can be far better.

The MFJ-1904 Ground-Coupled Portable Antenna Base™ is a 2x2 foot stainless steel square with reinforcing

bends that greatly strengthens it. There is a folded and tapered six-inch stainless steel leg on each corner.

Two antenna mounts let you use a variety of vertical antennas.

Two handles make carrying and removing the base fast and easy.

You can also attach radials for improved performance.

Stainless steel construction means you'll get trouble-free service for years.

The base is anchored into the ground by stepping on each corner and forcing each leg into the ground. Each stainless steel leg is designed to keep the base from tilting.

The base can support a lightweight multi-band vertical antenna -- like the all band Hy-Gain 18AVS and the bandswitching MFJ-1795 -- and provide a semi-permanent installation. You can even hide the base by covering it with dirt.

Built-in antenna mount with SO-239 coax connector and two U-bolts lets you mount most standard and homebrew vertical antennas.

Standard 3/8-inch x 24 mobile antenna mount built-in for MFJ Mobile Whips, bug catchers, Hustlers and screwdriver antennas. MFJ-1904, \$99.95, MFJ Ground Coupled Antenna Base™ only.

MFJ-1904PXX, \$119.90, MFJ Ground Coupled Antenna Base™ with your choice of one MFJ Mobile Whip, MFJ-16XXXT.

MFJ-1904HG18, \$174.90, MFJ Ground Coupled Antenna Base™ and manual band switching Hy-Gain AV-18VS for 80, 40, 30, 20, 17, 15, 12, 10 Meters.

MFJ-1904/MFJ-1795 combo, \$219.90. MFJ-1904 Ground Coupled Antenna Base™ and automatic band switching MFJ-1795 antenna for 40, 20, 15, 10 Meters.

MFJ 5/8 Wave Ground Plane

For an incredible \$24.95, you get a 300 Watt 5/8 Wave ground plane 2 Meter home station antenna. Other 5/8 wave ground planes can't work any better -- no matter how much they cost . . .

Look at all you get at an incredible \$24.95!

You get a 300 Watt 5/8 wave ground plane base antenna for 2 Meters that gives you the maximum possible calculated gain of any single element antenna.

Other 5/8 waves can't work any better -- no matter how much they cost.

You get *shunt fed matching network* for lowest possible SWR over entire 2 Meter band. Plus, it bleeds off unwanted static.

You get MFJ's *RapidTuneRadiator™* for quick accurate tuning.

You get MFJ-1750 a ceramic \$24.95 insulator for low RF loss. Ship Code A

Result? Maximum radiated power is achieved.

Easy installation to any 1 to 1 1/2 inch mast, (not included) with a single U-bolt (included).

You get strong lightweight aluminum construction that's protected by MFJ's



PermanentMolecularBonding Technology™. This super durable finish actually bonds itself to aluminum molecules -- it won't come off unless metal comes off!

You get MFJ's famous *No Matter What™* one year limited warranty.

Just \$24.95 gets you the most incredible value in a 5/8 wave base station ground plane. Remember, other 5/8 wave ground planes can't work any better.

MFJ-1750, \$24.95. 2 Meter 5/8 Wave.
MFJ-1752, \$24.95. 220 MHz 5/8 Wave.

MFJ 7 element dual band 144/440 MHz Yagi



MFJ-1768
\$79.95
Ship Code A
Get two Yagis for the price of one . . .

Put two

Yagis in the space of one with single coax feed. Get 7 elements on 440 MHz and 4 elements on 2 Meters.

Exclusive dual band balanced feed with *FerriteChoke™* decoupling prevents pattern skewing-- gives low SWR. 1/4 inch diameter driver elements give wide bandwidth.

National Bureau of Standards design is optimized for maximum gain, high front-to-back ratio, clean symmetrical pattern.

Mounts vertically for FM/Package or horizontally for SSB with single included U-bolt on 1 to 1 1/2 inch mast or tower leg.

Includes a 5 foot, 1 1/8 inch diameter boom, antenna weighs in at 2 pounds. Elements are electrically isolated from boom. High strength 6061-T6 aluminum tubing is used for the compact boom -- stays sturdy in inclement weather. Mast is not included. Get extra oomphh!

Quick assembly -- Get it up and *on-the-air* working DX in less time than going to the store to bring home a six-pack.

Portable 3 element beam for 2 Meters

Check out MFJ's portable 3 element beam for 2 Meters.

Unique design lets you set it up or take it down in seconds! Elements simply screw into the boom. It's easy to store and sturdy enough to use as your base station antenna.

The extra gain and directivity from this beam could get you through when a vertical can't. It'll make the difference between "you're breaking up . . ." and "Solid copy".

Center mount it and use it vertically on FM or horizontally for SSB. By rotating it you can minimize QRM. Unique design also lets you end mount it vertically or horizontally on the leg of a tower . . . great for Packet and *PacketCluster™*.

Its compact 2 3/4 foot boom gives you a calculated gain within 1 dB of a four element Yagi with a boom nearly twice as long. Extra thick elements maintain high gain and directivity over virtually the whole 2 Meter band. A ferrite choke balun gives you excellent feedline decoupling. Coax coupling is further reduced by mounting the SO-239 connector behind the reflector.

Has MFJ's Permanent Molecular Bonding Technology™. New coating won't come off unless the metal comes off. Weighs just 2 pounds. Boom is 30 1/2 x 1 3/4 x 1 1/4 inches. Mounts easily to mast or tower leg with single included U-bolt. Mast not included.

Take the MFJ-1763 Two Meter portable Yagi with you wherever you go and have the oomph and directivity of a beam.

Dual Band 144/440 Ground Plane



MFJ-1754
\$29.95
Ship Code A
MFJ's dual band 144/440 ground plane antenna is small, lightweight and super easy to mount to any 1 to 1 1/2 inch mast, (not included) with a single included U-bolt -- you'll have it up and operating anywhere in just minutes. Great for backpacking.

Mount it inside to get on-the-air quickly. You get extra long range on 440 MHz with a high gain halfwave over quarter wave antenna and solid 1/4 wave performance on 2 Meters.

Ground plane is sloped to give low SWR across both bands and to minimize feedline radiation. This gives you more useful radiated power, reduced TVI and noise pickup by the coax shield.

Improved 1/4 Wave Ground Plane for 2-Meters

MFJ-1740, \$19.95. Improved 1/4 Wave ground plane. Handles 300 Watts for two meters that'll bring up repeaters as well as or better than any 1/4 wave ground plane -- even if they cost twice as much. *FastTuneRadiator™*, low loss ceramic antenna insulator.

Stacked 5/8 Wave for 2 Meters

MFJ's stacked 5/8 wave radiators give you more than twice the omni-directional gain of a single 5/8 wave radiator!

Wide 10 MHz 2:1 SWR bandwidth . . . excellent ferrite choke balun feedline decoupling . . . shunt choke for bleeding off unwanted static . . . strong lightweight aluminum. Works as an excellent 6 Meter full half-wave centered antenna. Great for MFJ's 6 Meter radios!

Mounts vertically for FM/package or horizontally for SSB. Install with single U-bolt (included) to any 1 to 1 1/2 inch mast or tower leg.

MFJ-1766, \$119.95. Gives you *four* times the gain of a single 5/8 wave. 2 MFJ-1764 antennas, phasing cables. Double gain on 6M.

MFJ-1765, \$34.95. Includes phasing cables for two MFJ-1764s.



Your Choice!
\$19.95
Each
Ship Code B

MFJ-1675T - 75 Meters
MFJ-1640T - 40 Meters
MFJ-1630T - 30 Meters
MFJ-1620T - 20 Meters
MFJ-1617T - 17 Meters
MFJ-1615T - 15 Meters
MFJ-1610T - 10 Meters
MFJ-1606T - 6 Meters

MFJ HF Mobile Ham-Tenna Whips™

These MFJ monoband mobile *Ham-tenna™* Whips make HF mobiling fun and easy! They're small, lightweight, efficient & super easy-to-use.

Dual center and distributed loading lets you radiate efficiently -- you get more power out for working DX & ragchewing.

Each is ruggedly constructed. A heavy duty 4 foot, 3/8 inch diameter fiberglass rod, a nearly indestructible .125 inch diameter PH-17-7 stainless steel whip and chrome plated brass fittings will give you years of dependable service.

Its sleek, low profile construction has low wind loading and its semi-rigid fiberglass eliminates the need for springs or guys.

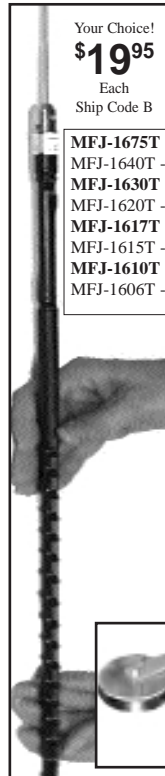
A black anti-static jacket protects the loading coil and blends with any vehicle.

The stainless steel whip is adjustable for lowest SWR. Includes Allen wrench and complete tuning and matching instructions.

Handles 250 Watts PEP. About 7 ft. tall, fully extended and collapses to 4 feet for easy storage.

Simply screws into any 3/8x24 female mount for quick band-changing.

MFJ-3381, \$39.95. *No Hole Mag Mount!* MFJ *Goliath™* Tri-Mag Mount has three incredibly super strong 5-inch magnets bolted to 1 1/8 inch wide by 1/4 inch solid aluminum crossbars. Has 17 feet coax. **Caution:** Once you put this on, it's difficult to get it off!



VHF/UHF MOBILE ANTENNAS



MFJ-1402, \$34.95.

RuffRider Junior™. Short 16 1/2" antenna is 1/4 wave on 2 meters, 1/2 wave, 3 dB gain on 440 MHz. 100 W.

MFJ-1412, \$49.95.

RuffRiderHighPower™ 40" long handles full 200 W. Great for amp! 1/2 wave, 3 dB on 2 Meters, 5/8 wave, 5.5 dB gain on 440 MHz.

MFJ-1422, \$49.95.

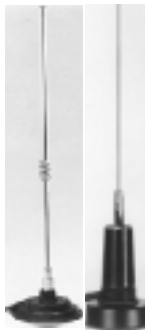
RuffRider HighGain™. 41 1/2" gives extra gain with little height. 150 Watts, 1/2 wave, 3.2 dB gain on 2Mtr, 5/8 wave, 5.7dB on 440 MHz.

MFJ-1432, \$69.95.

RuffRiderHyperGain™. 62 1/2" gives whopping 5 dB gain on 7/8 wave 2 Meters. 5/8 wave, 7.6 dB gain on 440 MHz. 150 Watts. 5" magnet recommended.

MFJ-1436, \$79.95.

RuffRiderTripleThreat™. 59 inches of stacked elements with high-Q phasing coils give you a whopping 7.2 dB gain on 440 MHz, 4.5 dB gain on 2 Meters and 2.15 dBi gain on 6 Meters. Work all your favorite bands! 150 Watts. 5" magnet mount recommended.

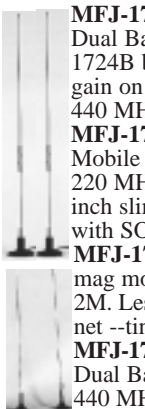


MFJ-1724B, \$16.95.

This is the world's best selling dual band 2 Meter/440 MHz magnet mount mobile antenna. *Free* BNC handheld adapter. Powerful 3 1/2 inch magnet base, scratch resistant rubber guard, 19 inches tall. 15 feet of tough coaxial line with PL-259 connector. Handles 300 Watts.

MFJ-1728B, \$29.95.

5/8 Wave 2/6 Meters Magnet Mount gives maximum possible gain. Tall *SlimLine™* radiator. Perfect for 2/6 Meter radios.



MFJ-1729, \$34.95. *Power*Gain™*

Dual Band Magnet mount. Like MFJ-1724B but gives outstanding 2.6 dB gain on 2 Meters and 6.3 dB gain on 440 MHz. 27 1/2 inch steel radiator.

MFJ-1723, \$34.95. *New! 220 MHz!*

Mobile Magnet Mount Antenna covers 220 MHz band. 2.6 dB gain, 221/2 inch slimline radiator, 12 foot coax line with SO-239 connector.

MFJ-1721, \$14.95. *UltraLite™* Mobile mag mount. RG-174U coax. 1/4 wave on 2M. Less than 2 oz. 1/8" rare earth magnet --tiny, but powerful! Thin 20" whip.

MFJ-1722, \$18.95. Similar to MFJ-1721. Dual Band *UltraLite™*. 5/8 Wave on 440 MHz. 1/4 Wave on 2 Meters.



MFJ-1734, \$39.95.

Glass mount dual band 144/440 MHz mobile. 6 inch counterpoise mounted inside lowers SWR and makes tuning easy. *Free* BNC handheld adapter. Excellent gain on 440 MHz and 2 Meters. Low SWR lets your transceiver deliver full power safely. Exclusive 26 inch stainless steel radiator minimizes wind vibration for less SWR flutter. Gives longer range and better readability. Handles 50 Watts. Includes 12 feet of tough coaxial line, cleaning pad and mounting hardware.

MFJ-1738, \$29.95. Similar to MFJ-1734, 2 Meter mobile glass mount antenna.

MFJ-916, \$29.95.

Duplexer lets you use a 2 Meter / 440 MHz antenna with separate 2 Meter and 440 MHz radios without a built-in duplexer. Diecast enclosure houses low pass networks that separate or combine 144/440 MHz signals. Low loss SO-239 and PL-259 connectors. Ports are 50 Ohms, unit handles 200 Watts PEP.



MFJ super heavy duty mobile antenna mounts



MFJ-345, \$34.95.

MFJ *RuffRider™* Trunk/Hatchback Lip Mount. Extra-wide four inch lip and large reinforcing tabs on each side safely distrib-

utes load over your vehicle's lip. 2 large set screws on each end locks your mount in place. A scratch proof rubber guard protects your vehicle's finish. Secures large VHF/UHF and medium size HF antennas. Adjustable angles. SO-239. 10 feet low loss coax has PL-259 connector. Includes Allen wrenches and protection caps. **MFJ-347, \$34.95.** Trunk Lip Mount for 3/8 inch antennas.



MFJ-340, \$34.95.

MFJ *RuffRider™* Mirror/Luggage

Pipe Clamp Mount. Mount on support rod of mirror, luggage rack or spare tire carrier of your truck, van, RV or SUV (up to 5/8 in. diameter). Secures large VHF/UHF and medium size HF antennas. 2 axis of rotation let you position your antenna to any desired angle. Serrated swivel joint locks securely in place with huge 3/8 inch set screw. Convenient thumb and finger turn knob. SO-239, 10 foot coaxial line with PL-259, Alen wrench adjustment set.



MFJ-338S/T, \$19.95.

MFJ *Goliath™* Tri-Magnet Mount has three super strong 5-inch

magnets bolted to 1 1/8 inch wide by 1/4 inch solid aluminum crossbars. 17 feet coax. Caution: once on, it's difficult to get it back off! MFJ-338S is for SO-239. MFJ-338T is 3/8".



MFJ-335BS/BM, \$19.95.

5 in. black mag mount w/17 ft. coax. SO-239(BS) or NMO(BM).

MFJ-333BS/BM, \$14.95. 3 in. black mag mount w/17 ft. coax. SO-239(BS) or NMO (BM).



MFJ-342, \$9.95. 3/8 inch threaded HF antenna pipe /mirror mount fits MFJ's HF mobile *HamTennas™* or any 3/8" style whips.

Stainless steel clamps can mount to 1/4 or 1/2" pipe. SO-239 connector w/lock washer feeds coaxial line underneath 3/8 inch connector. **MFJ-344, \$9.95.** Similar to MFJ-342, but vertical mount for 3/8 inch antennas.



MFJ-343, \$9.95.

GumDrop™ 3/8" antenna hard mount. Tough, durable plastic, rubber seal protects finish.

MFJ-341S/M, \$19.95.

Hard mount coaxial line. SO-239(S) or NMO(M).

Pulsar™ VHF/UHF Base/Repeater Antennas



MFJ's *Pulsar™* Base/Repeater Antenna series is built to last! Heavy duty fiberglass radomes and overlapping shells add strength and stability. Stainless steel hardware and waterproof joints eliminate moisture and pollution. Super high wind load resistance.

MFJ-1526, \$139.95.

Pulsar ULTRA MightyGain™ Dual Band 144/440 MHz Base/ Repeater Antenna. Our highest gain *Pulsar™* antenna.

Great 8.3 dB on 2 Meters and 11.7 dB on 440 MHz. 17 feet, shipped in two sections. SO-239 Connector, handles 200 W.

MFJ-1526N, \$139.95.

Same as MFJ-1526, has "N" connector.

MFJ-1524, \$119.95.

Pulsar Hyper MightyGain™ Dual Band 144/440 MHz Base/ Repeater Antenna. You get high gain with little height. Just 10 feet tall. Features 6.5 dB gain on 2 Meters and 9 dB gain on 440 MHz. Shipped in two sections. SO-239 connector, handles 200 Watts.

MFJ-1522, \$79.95.

Pulsar Economy priced Dual Bander™ Base/Repeater Antenna. Only

5.5 feet tall, but big on gain. Get 4.5 dB gain on 2 Meters and 7.2 dB gain on 440 MHz. Great for antenna restricted households and apartments. Easy to hide on balcony or backyard. Great price! SO-239 connector, handles 200 Watts.

MFJ-1516, \$99.95.

Pulsar VHF Base Station™. The ultimate 2 Meter Base/Repeater Station antenna! Great 7.8 dB gain is perfect for dedicated repeater or home use. 15 feet shipped in three sections. SO-239 Connector, handles 200 W.

MFJ-1536, \$119.95.

Pulsar VHF Tri-Bander™. The perfect base/repeater antenna for VHF

work. Covers 2 Meters, 6 Meters and 440 MHz. You get 2 dB gain on 6 Meters, 6 dB gain on 2 Meters and 8 dB gain on 440 MHz. Only 8.2 feet, shipped in two sections. SO-239 Connector, handles 200 W.

MFJ-1532N, \$99.95.

Pulsar VHFUHF and 1.2 GHz Tri-Bander™ Base/Repeater Antenna. You get great VHF operation plus exciting 1.2 GHz! Great 4.5 dB gain on 2 Meters, 8.3 dB gain on 440 MHz and a whopping 11.7 dB gain on 1.2 GHz. Just 5.5 feet. Easily hides on balcony, small patio. Type "N" connect, handles 200 Watts.

MFJ Radio Voice Mail . . . Simplex Repeater . . . Voice Beacon . . .



Use MFJ's all-in-one multi-purpose radio pal for . . .

MFJ-664
\$129⁹⁵
Ship Code A

Two way radio voice mail lets you and your friends/family leave and retrieve voice messages for each other.

When in radio range, stay in touch 24 hours a day no matter where you are.

You can program custom access codes and security codes so you can decide who uses your *Radio Voice Mail*.

Greatly extends radio range by using another radio as a relay.

You can have your own private, portable repeater when coordinating public events, hunting, fishing, camping, hiking, or for a multi-vehicle road trip.

During a disaster, MFJ-664 can provide emergency communications when repeaters are down.

Test your own signal quality by repeating your transmission thru another radio.

Automatically repeat recorded message continuously. Great for determining band openings, for foxhunting and for public service announcements like hamfest direc-

tions, VE exam time/place.

Non-volatile memory lets you store up to 2 full minutes of voice messages.

Your keypad can be used for remote operation with Morse code verification of functions. Has end-of-message beep and output level control for clean audio.

Use 9 Volt battery or 9-15 VDC or 110 VAC with MFJ-1312D, \$14.95. All metal cabinet is 4Wx3½Dx1½H in. 5 ounces.

Use any radio -- handheld, mobile, base, HF rigs (2 Meters, 440 MHz, business band, etc) -- with PTT or mic closure sensing. Ask about pre-wired cables for Icom, Kenwood, Yaesu, Alinco, Radio Shack, HTs, mobiles.

MFJ's handheld "Rubber Duck" antennas

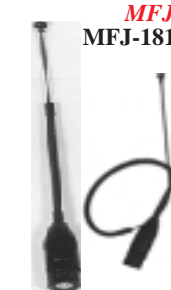
MFJ Telescopic HT Antennas

- A. MFJ-1714, \$16.95. Long Ranger™ 2 Meter 1/2 Wave. Collapsed, it performs like a rubber duck (10½ in.), fully extended (40 in.), it's an outstanding performer!
- B. MFJ-1712, \$14.95. Dual Bander 144/440 MHz. ¼ wave on 2 Meters, 5/8 wave with gain for 440 MHz. 7¼ in. collapsed, 19 in. extended.
- C. MFJ-1710, \$9.95. PocketLinear™. Pen size 3/8 wave for 2 Mtrs like a ball point pen with pocket clip. 5¼ in. collapsed, 24½ in. extended.



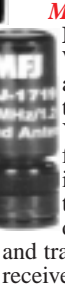
MFJ SuperFlex™ HT Antennas

- A. MFJ-1716, \$16.95. Dual band 144/440 MHz Flex duck is similar to MFJ-1717. 7½ in. length, 1/4 wave on 440 MHz and loaded 1/4 wave on 2 Mtrs. BNC. Add "S" for SMA.
- B. MFJ-1717, \$21.95. MFJ's best selling HT antenna! High gain dual band for 144/440 MHz. Low SWR, hearty 2.15 dBi gain on 440 MHz, full size 1/4 wave on 2 Meters. BNC. Add "S" for SMA. Factory tuned for low SWR.



MFJ Tri-Band 2/6/440 MHz FlexiDuck™

MFJ-1720S, \$29.95. MFJ's Triple Band HT FlexiDuck™ antenna is a whopping 19 inches tall -- it's big enough to deliver a powerful signal for 2 Meters, 440 MHz, and 6 Meters! It's a 5/8 Wave on 440 MHz to give you a hearty 3.2 dBi gain. On 2 Meters you get a 1/4 Wave antenna with 2.15 dBi gain. On 6 Meters you get an efficient full size 1/4 Wave antenna for full-size performance. Precision-tuned at the factory for low SWR. High-Q, low loss construction gives you maximum radiated power. 10 Watts. SMA Connector.



MFJ SmallWonder™ HT Antenna

MFJ-1719, \$19.95. New Small Wonder HT Antenna is truly remarkable for its size! Pound for pound, this is the best HT antenna around. You get remarkable performance from this super tiny (less than an inch tall) antenna. It's perfect for traveling and monitoring calls. It doesn't get in your way! Receives and transmits on 2 Meter/440 MHz. Also receives great signals at 1200 MHz. Choose from BNC or SMA connector. Order MFJ-1719S for SMA.



MFJ SuperFlex™ ThinDuck Antennas

- A. MFJ-1715, \$24.95. Tie it in a knot . . . when you use it, it'll bounce back in shape -- you can't break them! This MFJ-1715 12½ inch SuperFLEX™ radiator is a ½ wave on 440 MHz -- gives a hearty 2.15 dBi gain. On 2 Meters, you get an efficient full size ¼ wave antenna.
- B. MFJ-1713, \$19.95. 5½" radiator is similar to MFJ-1715 except for gain on 440 MHz. ¼ wave on 440 and efficient loaded ¼ wave on 2 Meters.



MFJ TeleFlex™ HT Antenna

MFJ-1816, \$9.95. This special HT antenna is both flexible and telescopic at the same time! It extends to improve your range, plus it takes all the bending, twisting and tugging you can dish out! Dual band, 144/440 MHz coverage with BNC connector. 6 inches long retracted, 8½ inches long extended.



MFJ Foldover Telescopic HT Antenna

MFJ-1812, \$19.95. This new dual band 144/440 MHz HT antenna combines telescopic and foldover features in a single antenna. Extends to improve your range plus it folds over to get out of the way of your gut. Helps protect it for years of dependable use. MFJ-1812 is just six inches retracted and 16 inches extended. High Q low loss construction, super durability for years of use.



MFJ 2-Meter Pocket Roll-Up Antenna

MFJ-1730, \$19.95. Roll up this 1/2 wave 2 Meter antenna and stick it in your pocket. At home, vacations, camping . . . it's easy to take it with you. Get home station performance on-the-go! Hang MFJ-1730 in the clear, plug the handy BNC connector into your handheld and enjoy some great QSOs. It's omni-directional and has significant gain over a ¼ wave. It doesn't need a cumbersome ground plane so it's convenient for indoors and works great with handhelds.



MFJ Back-of-radio 144/440 MHz Base MFJ-1717PL, \$24.95. Plug this MFJ "back-of-radio" antenna into your 2 Meter/440 MHz mobile or base rig in your shack. It may not be a ten element yagi but it'll get you out in a hurry! This fold-over dual band flexi-duck antenna with a quality PL-259 connector. Gives a hearty 2.15 dBi gain on 440 MHz and is a full-size 1/4 wave on 2 Meters. Hi-Q, low loss construction. 16½ inches, hard safety tip.



MFJ RapidBattery™ Ni-Cd/Ni-MH Chargers

MFJ-641 (K, I, Y), \$49.95. RapidBattery™ Charger has both quick and trickle charging and will charge Ni-Cad or Ni-MH batteries. Has charging status LED indicators. Automatically switches from quick to trickle charge. Compact 3½x5½x3 inches. Universal interchange-

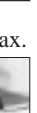


able charging slots make charging several makes of HTs fast, simple and safe. Simply change the charger slot and pop in your battery. Your MFJ Charger is supplied with one charger slot, MFJ-641(I2) for BP-131/132; (I3) for BP-173/180; (Y2) for FNB-10/11/12/17/27; (Y3) for FNB-31/33; (Y4) for FNB-40/41/V47/V49; (K) for Kenwood PB and KNB battery types.



HT Antenna Window Mount

MFJ-310, \$14.95. Gets your antenna outside where it can radiate freely -- takes away auto shielding effect and gives increased signal strength/reception. Use 144/440 MHz HT w/BNC. 10 ft. mini RG-58 coax. MFJ-312, \$9.95. Get your antenna up in-the-air! Clip this HT antenna extension cable anywhere! BNC connectors. 3½ ft mini coax.



MFJ Compact VHF/UHF SWR/Power Meters

MFJ-844, \$69.95. Compact 3¾x3x1¼ inch 144/440 MHz SWR Wattmeter has 15, 60 and 200 Watt power ranges. SO-239 Connectors.



MFJ-840, \$19.95. Reads power output of your 2 Meter HT into 50 Ohms. Check battery charge. 5 watts full scale. BNC. MFJ-841, \$39.95. Plugs between HT and antenna. Read SWR/power out to 5 Watts.



MFJ IntermodFighters™

MFJ-713, \$59.95. Use between HT/antenna to eliminate intermod. BNC. MFJ-714, \$59.95. Plugs between your mobile rig and antenna coax. SO-239 connectors. Use 12 VDC.

MFJ mini Speaker Microphones for New Yaesu, Icom, Kenwood

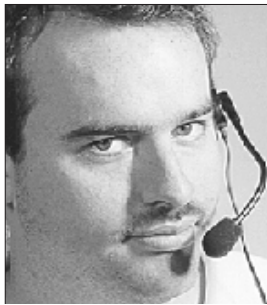


MFJ-295 (Y, I, K) **\$15⁹⁵**
 Ship Code A
Here's a top quality speaker mic that's perfect for those popular and tiny new Yaesu, Icom, Kenwood, Alinco, and ADI handheld transceivers.
Fits perfectly in your hand, but gives booming receive audio so you can monitor stations while the mic is attached to your lapel -- no more holding the speaker up to your ear!

MFJ uses a high-quality non-directional electret condenser microphone to give your Yaesu handheld crystal clear transmit audio.
The MFJ-295 Microphone has -53 dB sensitivity and 1K Ohm impedance. An excellent top-quality speaker produces 83 dB of crystal clear receive audio. Impedance is 8 Ohms.
Built-in earphone jack, top quality

PTT thumb switch, 8-position swivel lapel clip, 3 1/2 feet of durable, stretchable cord.
Made of high-impact plastic. Water resistant. All black microphone and cord. Protective bend points.
MFJ-295Y, Yaesu, Icom, single pin plugs like Yaesu VX-5R and Icom Q7A. **MFJ-295I**, Fits Icom and compatibles. **MFJ-295K**, Fits Kenwood and others.

MFJ Deluxe Headset Microphone™ adds professionalism



MFJ-288 (K, I, Y) **\$24⁹⁵**
 Ship Code A
Walking through an airport, at home, or in your car, this MFJ deluxe headset gives you the ability to carry on a private QSO while doing other things.
The mic can pick up your voice, whether booming or at a quiet whisper when placed appropriately near your mouth.
The earphone gives superb

tonal quality so even distant stations will come in loud and clear.
Made of sturdy black plastic and strong metal sliders, one size fits all!
Superb speaker and mic foaming protects the mic and speaker elements as well as making the ear fit very comfortably. You could wear this headset all day long. It's perfect for mobile use with single ear design.

Small PTT switch can be conveniently attached to your shirt or pants pocket.
Has six feet of cord from headset to plug.
MFJ-288I fits ICOM, Yaesu (not FT-50R), ADI, Alinco, Radio Shack and other compatibles.
MFJ-288K fits Kenwood and compatible handheld radios.
MFJ-288Y fits VX-5R, IC-Q7A and compatibles.

MFJ Featherweight earbud Boom Mic™ New boom mic has built-in FM Scan Radio



MFJ-293 (K/Y/I) **\$24⁹⁵**
 Ship Code A
Finally . . . a secure and comfortable earbud and boom microphone that's as small and inconspicuous as your radio! *No more*

gaudy, oversized headsets or massive handheld speakermics!
This tiny earbud features a secure and comfortable rubber flex earloop design and 5 inch flexible boom microphone that adjusts perfectly to your mouth. The ear-loop secures your earbud for a comfortable fit so there's no more worrying about it falling out of your ear.
It's perfect for monitoring your receive audio when you are in a loud environment. MFJ-293's special rubber flex earloop design adjusts to fit the right or left ear (big or small) very securely and comfortably.
Made of a sturdy black polyurethane and comfortable rubber earloop, it'll give years of dependable use. Tiny thumb-sized PTT switch is built right into the 6 feet of cord.
MFJ-293 (I) fits Icom and compatibles. MFJ-293 (K) fits Kenwood. MFJ-293 (Y) fits Yaesu FT10R/40R/ 50R/VX-1R, Icom IC-Q7A, other radios using single plug-ins.
Protected by MFJ's famous *No Matter What™* one year limited warranty. MFJ will repair or replace for one full year.

New! **MFJ-284** is the same as MFJ-293, **PLUS** it has an FM Scan Radio inside in the tiny PTT switch that receives broadcast FM stations. This relaxing feature lets you catch up on the news or listen to music or sports programs while also monitoring your HT's operating frequency!
MFJ-284 auto switches from FM radio to your HT's audio when the monitoring frequency is detected. Low/Max volume, on/off FM settings let you adjust to noisy conditions. Coin battery installed and one extra cell is included. **Order MFJ-284I** for Icom, **MFJ-284K** for Kenwood, and **MFJ-284Y** for Yaesu VX5R, Q7A series HTs.

may the force be with you!

MFJ MightyMic™ handheld speaker microphone



MFJ-294 (I, K, Y) **\$16⁹⁵**
 Ship Code A
MightyMic™ is a super speaker microphone for those tiny and popular miniaturized handheld radios on the market today like Yaesu's VX5R and Icom's Q7A.
Tiny PTT thumb switch with

speaker/microphone and lapel clip all fits between two fingers.
Tiny 19 inch retractable cord easily stretches to over 4 feet.
This is the perfect speaker/microphone for concealment. You'll look like an FBI agent when you work with this streamlined product!

An 8-position swivel lapel clip lets you position and secure the microphone to your shirt or coat comfortably.
MFJ-294I for Icom and compatibles, and older Yaesu HTs. MFJ-294Y for Yaesu newer models like VX-5R. MFJ-294K for Kenwood.

MFJ Featherweight Earphone/Mic



MFJ-292(I,K,Y) **\$17⁹⁵**
 Ship Code A
MFJ's Featherweight Earphone Microphone has an earbud earphone and a tiny thumb-size microphone/PTT switch that's built right into the cord. It's barely noticeable and so lightweight you won't even know it's there. Get crystal clear receive/transmit audio out of an ultra lightweight (30 grams) speaker. Non-directional electret condenser mic has -64 dB sensitivity, 1.1K Ohm impedance. 4 foot cord. **MFJ-292I** fits ICOM, Yaesu and compatibles; **MFJ-292K** for Kenwood; and

MFJ-292Y fits Yaesu FT-10R/40R/50R and VX-1R handheld transceivers.

MFJ Neckset Boom Microphone™

This MFJ Neckset Microphone doesn't mess up your hair! Naturally hidden from view behind your neck.
Superb speaker and mic foaming protects the mic and speaker elements as well as making the ear fit very comfortable. A mic element is attached to the neckset with flexible extension.

MFJ-282(I,K,Y) **\$24⁹⁵**
 Ship Code A
Small PTT switch can be conveniently attached to your shirt or pants pocket.
MFJ-282I fits Icom, MFJ-282K fits Kenwood, MFJ-282Y fits Yaesu VX-5R and Icom Q7A pin radios.

CLOSEOUT!
SPEAKER MICS
 MFJ-287 for Kenwood
 MFJ-286 for Kenwood
 MFJ-285W for Icom W-32
 MFJ-285WC for Alinco
 Credit Card Radio only
\$9⁰⁰ EACH!
 Ship Code A

New! MFJ Simplex Pocket Repeater™

MFJ Simplex Repeater extends range of any radio -- 2 Meter, 440 MHz, handhelds, mobile, base! Super easy-to-use . . . Just plugs in . . . Pocket-size . . . Records/Plays back 32-second messages . . .



MFJ-662
\$79⁹⁵

Ship Code A

When you and your buddy are out of radio range, this MFJ Simplex Pocket Repeater™ greatly extends your range.

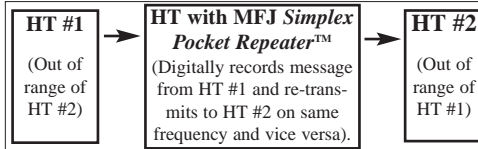
You can have your own private, portable repeater within your

neighborhood or when hunting, fishing, camping, hiking, caravanning on-the-road.

During a disaster, your MFJ-662 can provide emergency communications when repeaters are down.

You can communicate way beyond the normal range of your handheld or mobile.

Works with virtually any radios in any mode or frequency in any ham band or business band. *It's legal!*



As a simplex repeater, the MFJ-662 with another radio digitally records audio from an out-of-range HT/Mobile and then re-transmits to other HT/Mobiles.

Tiny, pocket-size 2 1/4"Wx3 3/4"Hx1D inches.

Repeats up to 32 second message. LED lights when recording. On/Off switch. 5-pin header for radio cable (connector included). Use 9 volt battery, 9-15 VDC or 110 VAC with optional MFJ-1312D, \$14.95.

Pre-Wired Cables for Icom, Kenwood, Yaesu, Alinco, Radio Shack, HTs/mobiles, \$15.95 each. See MFJ-5000 series cable with X suffix under PK-232 column on page 34. Open-end cables with radio connectors, \$9.95/\$4.95 each--See cable page.

MFJ ClearTone™ Communication Speakers

World's most popular Speaker!

MFJ-281
\$12⁹⁵

Ship Code A

Plug in this MFJ ClearTone™ speaker and bring out speech fidelity that you never knew existed.

It restores the smooth sound of sinewaves that CW naturally generates and makes it easy to copy.

The MFJ-281 ClearTone™ speaker was carefully designed to improve the intelligibility of speech in the frequency range of 600 to 4000 Hz while reducing undesirable noise, static and hum.

Handles 8 Watts. 8 Ohms, 6 ft cord, 3.5 mm mono plug. Tiny, compact 3 3/4"x3x2 1/4 inches, but booming sound!



Amplified Speech Enhancer

Optimized MFJ-384
for the 600 to 4000 Hz
Ship Code A

\$29⁹⁵

communications frequencies and features MFJs exclusive Speech Enhancement Control™ to maximize intelligibility in all modes.

Solidly constructed of heavy duty crush-resistant material. Rugged enough to withstand abusive wear and tear of portable use.

Use it as an amplified speaker or turn it off and it becomes a quality station speaker.

Quality three inch speaker with heavy duty magnet. 3 ft. cable with 3.5 mm plug. Volume control. Use 2 "C" cell batteries (not incl.) or 110 VAC optional adapter, MFJ-1306, \$14.95. 4 1/2"Wx5 3/4"Hx3 1/4"D in.



MFJ Deluxe Communications Station Speaker

MFJ brings you ultra high quality communications audio with ham radio's most advanced communications speaker.

How? By using . . . America's most modern speaker design technology, Advanced speaker cone and voice coil materials and construction, and a carefully designed, acoustically rigid cabinet.

You won't believe the clarity and depth of your audio when you hear the incredible improvements in speech intelligibility and CW tone. It also reduces listening fatigue. It'll literally transform your transceiver into a studio monitor!

The smooth, wide range response of the MFJ-385 gives you absolute faithful reproduction with no hint of unwanted resonances and sound coloration.

Speech suddenly becomes more articulate, more intelligible and easier to understand. Pure sine wave tones of CW sound like music and makes accurate copying easier and faster. It makes tuning signals in correctly easier and faster.

You'll instantly recognize your ham buddies' voices when they use their full range microphones. Handsome cabinet measures 6 1/4"Wx10Hx7D inches. Experience the full rich fidelity of SSB, AM, FM and CW that you'll never hear with your rig's built-in speaker.

MFJ-385
\$39⁹⁵

Ship Code B



Amplified ClearTone™ Speaker

MFJ-382
Deluxe ClearTone™
Ship Code A

\$39⁹⁵

is an excellent 1 Watt amplified speaker for QRP, base station HT users, or mobile operation with radios requiring more volume.

MFJ-382 gives superb, loud and powerful ClearTone™ audio. Speaker is 3 inches. Adjustable from barely audible to high volume, this rugged speaker is sturdy and compact. All metal cabinet with rubber feet. 3 1/2"x1 3/4"x4 1/2 in.

On/off button, uses 9 volt battery (not included) or 110 VAC with optional MFJ-1312D, \$14.95. Speaker cable included.



14-in-1 Ham Radio Tool

MFJ-7604,

\$4.00! This

14-in-1 pocket-size toolbox is all you need for putting up your antennas or working on rigs. Needle-nose pliers with wire cutters, jaws for gripping, flathead and Phillips screw drivers, knife, ruler, file, punch, more! Stainless steel, belt carry case.

HamGear™ HT Pouches

MFJ-18, \$29.95.



Radio chest harness hold your HT or cell phone snugly for no worries, hands-free operation. Great for

rugged action use like DX peditions, field day, biking, hiking, hamfests, search & rescue. Accessory pockets.

MFJ-15, \$14.95. Durable HT radio pocket with elastic cord and velcro closure.

HamGear™ Waistpak



MFJ-6200, \$15.95. This MFJ waistpak is the perfect hamfest, DXpedition or field day hands-free carry-all. Amazing 9 spots to put your ham radio gear, tools, accessories, refreshments.

MFJ Compact Mobile Speaker

Enjoy MFJ-280
superb audio and convenience with this economical mobile speaker.

\$19⁹⁵

Ship Code A

Just set the magnetic base on a metal surface, plug in the 3.5 mm phone plug and enjoy crystal clear receive audio!

Matches 8 and 4 ohm impedances. Handles 3 Watts. 30 inch cord. Tiny 2 1/2"x2x3 inches.



The world's most powerful multi-mode data controller!

PSK31 with MFJ-1289H

The world class MFJ-1278B with built-in "brick wall" DSP filters, GPS compatibility and ten digital modes gives you *ham radio's most powerful multi-mode* data controller with all of these popular features!

You won't believe your eyes when you see solid copy from signals completely buried in QRM! The MFJ-1278B/DSP, your transceiver and computer are all you need for exciting digital QSOs! You'll discover a whole new world of ham radio. You'll communicate in ways you never knew existed!

You'll marvel at full color FAX news photos as they come to life on your screen, and you'll see weather changes on highly detailed weather maps in all 16 gray levels. Eavesdrop on late-breaking news!

You'll have fun joining worldwide Packet networks and exchanging color SSTV pictures with your buddies.

The world's most reliable VHF/HF Packet TNC



MFJ-1270C, \$129.95, has a reputation as *the most reliable TNC in the world!*

Thousands are dedicated as digipeaters, nodes, BBS and used in all kinds of commercial applications working 24 hours a day -- many over a decade old are still in service.

All software and hardware designed for the TAPR TNC-2 standard works with the MFJ-1270C without modification, including NETROM, theNET, X1J, Rose Switch..

A true DCD circuit drastically reduces sensitivity to noise and dramatically increases completed QSOs.

MFJ Anti-Collision™ Technology prevents packet collisions and improves performance on busy channels.

32K RAM, IC sockets for easy service. 256K ROM, speaker jack, lithium battery backup, RS-232 and TTL serial ports, radio cable (you add a connector for your radio).

MFJ-1284H, \$49.95. **MultiCommHost™** for packet only. 32-bit software for true multi-tasking in windows. Includes PSK31!

MFJ TNC/Microphone Switch



MFJ-1272B/M
\$39.95

Ship code A *Switch between your TNC or Mic by pushing a button!*

Plug these pre-wired cables into your rig's microphone connector and into your TNC and you are ready to go -- no more hard-to-find connectors and wiring up cables -- no more plugging and unplugging to work voice or packet!

Works with HF, VHF and UHF radios with 8 pin mic connectors --



Pre-Wired Radio to Computer Interface Cable

Convenient pre-wired transceiver to computer interface cable has DB-9 serial interface built-in! Order Kenwood -- **MFJ-5383K**, \$49.95; ICOM -- **MFJ-5383L**, \$49.95; Yaesu -- **MFJ-5383Y**, \$49.95 (for standard 6-pin DIN), **MFJ-5383YB**, \$49.95 (for 6 pin Mini DIN). 25-pin RS-232 serial port adapter included. Newer radios may not require these cables. Check with manufacturer.



MFJ-1278B/DSP
\$389.95

Ship Code B

You'll enjoy error-free HF QSOs on PACTOR AND AMTOR and enjoy receiving packet mail in your mailbox.

Want to copy some CW? Just relax and read your screen.

MFJ-1278B/DSP gives you DSP and 11 digital modes -- PSK31, Packet, PACTOR, AMTOR, RTTY, Color SSTV, 16 Gray Level Fax/Weather FAX, ASCII, Navtex, CW, Memory Keyer and is GPS compatible. Order today, get the most powerful multi-mode data controller in ham radio!

MFJ-1278BT, \$339.95, gives you a built-in 2400 baud modem. Runs high

MFJ-1278B (no DSP)
\$309.95

Ship Code B

MFJ MultiCommHost™ Software



MFJ brings you the world's first 32 bit terminal software for MFJ's TNC family and other TAPR TNCs.

MFJ MultiCommHost™ software gives you true multitasking in Windows 95, 98, NT, 2000 and forthcoming XP! **INCLUDES PSK31!**

Uses standard Windows commands. Adds **PSK-31 support!** Syncs with popular logging programs. All modes and features are just a mouseclick away! Hotkeys, user defined macros, interface to all of the current callbook CDs, quick connects, more!

MFJ-1289H, \$79.95. **MultiCommHost™** software for MFJ Multimode TNCs.

MFJ-1284H, \$49.95. Packet only Host mode software for MFJ-1270C.

For additional information go to: <http://www.mfjenterprises.com> . . . you can download a *free* Demo Version before buying the real thing!

• For MFJ-1270/1276/1278 TNCs and TAPR TNC2 with 1.1.x firmware/BLP Host Mode.

speed packet without modifying your radio. Operate 300/1200/2400 baud packet.

Optional MFJ-1278/B Accessories MFJ-1289H, \$69.95. Host program supports all digital modes plus PSK31. Syncs with popular logging programs. Tool bar, Hotkeys, user-defined macros, more!

MFJ-1289W, \$59.95. **MultiCom™** for Windows. Control 2 TNCs at the same time in separate windows! Send, receive *true color* SSTV Scotty 1, Scotty 2, Martin 1, Martin 2, and Robot 72 pictures. Great Multi-gray level FAX pictures and weather maps, Packet BBS, **PacketCluster™**, **MFJ-43**, \$9.95. Real-time clock. **New low price!** **MFJ-44**, \$14.96. Plug-in scope tuner. **MFJ-780**, \$99.95. Plug-in DSP board.



New Low Price! MFJ-2400, \$19.95. 2400 baud packet modem. With faster communication, less congestion on crowded bands. Your TNC still gets 300/ 1200 baud for compatibility with other TNCs.

MFJ PacketOnly™ transceivers



Why tie up your expensive 2 Meter rig on a single packet channel? For an incredibly low \$149.95, you can enjoy dedicated high performance packet from 1200 to 9600 baud on 2 Meters, 24 hours a day!

MFJ's PacketOnly™ data radios are compatible with all TNCs with hardware DCDs and most TNCs with software DCDs.

Getting started couldn't be easier--just plug in an appropriate TNC cable (also available), your antenna, 12 VDC and you're ready to enjoy error-free packet!

MFJ-8621, \$149.95. Ready-to-operate on 145.01 MHz. Order other plug-in crystals for just \$24.95 per frequency.

MFJ-8621X2, \$159.95. Ready-to-use for APRS. Crystals pre-installed and transceiver precisely aligned. 145.79 MHz.

MFJ-8631, \$169.95. **PacketOnly™** 220 MHz. Has all the features of the 2 Meter version, ready-to-operate on 223.700 MHz. **MFJ-9606X**, \$169.95. Voice or packet with MFJ's new 6 Meter **FM Communicator™** Transceiver. Crystalled for 52.525 MHz calling frequency. Easy crystal re-channel.

Pre-wired Radio to TNC Cables

New accessory port cables, \$19.95 each. **MFJ-5063** (Icom HF 8 pin to TNC2s). **MFJ-5064** (IC VHF 8 pin to TNC2s). **MFJ-5065** (IC-706 13 pin to TNC2s). **MFJ-5060** (Ken, Yaesu, Azden 6 pin mini to TNC2s). **MFJ-5066** (Ken 13 pin to TNC2s).

Pre-wired Radio-to-TNC cables . . . \$15.95

TNC TYPE	All MFJ TNCs and Multimodes	KAM VHF/ KAM HF/ KPC3/ KPC9612 ²	PK-232	PK900/PK96/ PK12/DSP232 /PacComm/ other TNC-2 compatibles
Radios				
Alicino®/Strd HT	MFJ-5022	MFJ-5022YV	MFJ-5022X	MFJ-5022
Icom®/Yaesu/ RadioShack HTs	MFJ-5024	MFJ-5024YV	MFJ-5024X	MFJ-5024B
Kenwood® HTs	MFJ-5026	MFJ-5026YV	MFJ-5026X	MFJ-5026
Yaesu 8-pin	MFJ-5080	MFJ-5080YV MFJ-5080YH	MFJ-5080X	MFJ-5080Z
Icom® 8-pin	MFJ-5084	MFJ-5084YV MFJ-5084YH	MFJ-5084X	MFJ-5084Z
Kenwood/Alinco 8-pin	MFJ-5086	MFJ-5086YV MFJ-5086YH	MFJ-5086X	MFJ-5086Z
Yaesu 8-pin modular	MFJ-5080M	MFJ-5080MYV	MFJ-5080MX	MFJ-5080MZ
Icom® 8-pin modular	MFJ-5084M	MFJ-5084MYV	MFJ-5084MX	MFJ-5084MZ
Kenwood 8-pin modular	MFJ-5086M	MFJ-5086MYV	MFJ-5086MX	MFJ-5086MZ
Radio Shack 8-pin modular	MFJ-5088M	MFJ-5088MYV	MFJ-5088MX	MFJ-5088MZ

1. does not include IC-W2A
2. does not include 2500
3. does not include 25A, 255A

4. does not include IC-100H, IC-2700H
5. YV for KAM VHF port, YH for KAM HF port. Other Kenronics use YV
6. YV for KP9612 1200 baud port
7. YH models for KPC9612 9600 baud port
8. Excludes DJ-100, 120T, 200, 500

Tap into Secret Shortwave Signals

Turn mysterious signals into exciting text messages with this MFJ MultiReader™

Ever wonder what those mysterious chirps, whistles, and buzzing sounds are on the shortwave bands?

MFJ-462B
\$179⁹⁵
Ship Code A

Much of it is RTTY, ASCII, CW and AMTOR (FEC) signals passing commercial, military, diplomatic, weather, aeronautical, maritime, amateur and other traffic.

Tap into these "secret" signals

Plug this self-contained MFJ MultiReader™ into your shortwave receiver's earphone jack. Then watch these mysterious signals turn into exciting text messages as they scroll across an easy-to-read LCD display. No computer, interface, special cables or other equipment is needed.

Eavesdrop on the world!

Eavesdrop on the latest breaking news as press agencies from all over the world relay them on RTTY -- it's like having a private wire service in your home. Copy RTTY weather stations from Antarctica, Mali, Congo and many others.

Listen to military traffic passing from Panama, Cyprus, Peru, etc. Catch diplomatic, research, commercial and maritime traffic. Listen to maritime users, diplomats and amateurs send and receive error free



messages using various forms of TOR (Telex-Over-Radio).

Monitor Morse code communications from hams, military, commercial, aeronautical, diplomatic and maritime coastal stations from all over the world.

There's plenty of exciting non-voice traffic on shortwave that'll keep you fascinated . . . traffic you can't read unless you have a decoder.

Printer monitors 24 hours a day

MFJ's exclusive TelePrinterPort™ lets you monitor any station 24 hours a day by printing their transmissions. Plug your Epson compatible printer into the MFJ-462B printer port and you're ready to print.

MFJ MessageSaver™

Save several pages of text in 8 K of memory for later review or re-reading.

High Performance Modem

Consistently get solid copy from MFJ's

high performance PLL (phaselock loop) modem technology. Digs out weak signals buried in noise and even tracks slightly drifting signals. Mark and space tones are copied to give you greatly improved decoding under adverse conditions.

Easy to use, tune and read

Just push a button to select modes and features from a menu. A precision tuning indicator makes tuning your receiver for best copy on all modes quick and easy.

The 2 line 16 character LCD display has contrast adjustment. One line comes in at speed of signal, second line is delayed so you catch every exciting word!

Copies standard shifts and speeds

Copy most standard shifts and speeds in all modes. MFJ's AutoTrak™ automatic Morse Code speed tracking helps MFJ-462B to track and decode high speed CW.

MultiReader™ Accessories

Use 12 VDC or use 110 VAC with MFJ-1312D AC adapter, \$14.95. MFJ-462B measures 6 1/4 W x 2 1/2 H x 6 1/4 D inches.

MFJ-5162, \$5.95. Receiver cable connects MFJ MultiReader™ to your radio's external speaker (3.5mm jack).

MFJ-5412, \$9.95. Printer Cable is 25-pin cable for Epson compatibles.

Multimode Computer Interfaces -- Decode RTTY/ASCII/CW and more!

MFJ-1213, \$49.95.

Computer interface includes JVFAX and HamComm software.

Receives and decodes multimode digital data with your rig. Color FAX/SSTV pictures, Baudot, ASCII, AMTOR, ARQ/FEC, SITOR, NAVTEX, SHIP and SYNOP.



MFJ-1214PC, \$149.95.

Complete package receives

and transmits RTTY, ASCII, CW, also WeFAX weather maps with all 16 gray levels. Complete package includes software, power supply & cables.

MFJ-1224, \$99.95. Turns

IBM compatible into a RTTY/ASCII/CW station

for transmit/receive with HF/VHF rig. Has tuning indicator, normal/reverse switch. MFJ-1285, \$19.95. DOS software for MFJ-1224. MFJ-1225, \$69.95. Receive only unit. MFJ-1285B, \$19.95, DOS software for MFJ-1225.



MFJ Micro ATV Transmitter

Transmits Live Pictures on TV Cable Channels!

Just add antenna, TV set and a 9V battery to give you a complete Amateur TV station!

This tiny MFJ Micro ATV Transmitter™ lets you transmit a high quality Amateur Television video signal on 433.97 MHz (cable channel 58, 59, or 60). All you need to do is plug in an antenna and a video source -- your camcorder, camera, VCR or other source.

With an antenna and a TV set (or down converter/ TV) tuned to cable channel 58, 59, or 60, you'll have a complete ATV video station.

The MFJ-8708 puts out a solid 50-100 mW signal, capable of transmitting up to 1.8 miles with a 3-element beam. By using a suitable UHF power amplifier and high-gain antenna, you can enjoy two way ATV communications over many, many miles with fellow ATV hams.

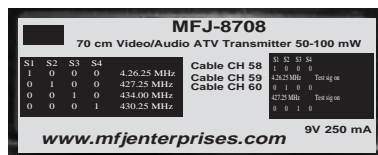
Show your shack, rigs, antennas, family, vacation trips, hamfests. Give live seminars, lectures, demos. Put ATV on your radio controlled model airplanes, cars, boats, rockets. Great for RACES, sporting



MFJ-8704
\$119⁹⁵
Ship Code A

MFJ-8708
\$159⁹⁵
Ship Code A

New!



events like races, ballgames, parades, hat cam. Wear a tiny video camera on your hat and you can transmit a hamfest live as it happens and record it remotely.

It's super easy-to-use. To transmit video simply connect video to the RCA phono connector and antenna to the BNC connector and connect a 9 volt battery or other 9 VDC source.

You can use any standard NTSC or PAL composite video (1V pk-pk) source.

The MFJ Micro ATV Transmitter™ can <http://www.mfjenterprises.com>

only be operated by a Technician class or higher licensed Radio Amateur. All transmissions must be directed to at least one other licensed Radio Amateur.

Warning: For Amateur Radio Use only.

Order MFJ-8704, \$119.95. Cable Channel 59 video only. Weight only 1 ounce, less battery.

Order MFJ-8708, \$159.95, 4 channel, Cable channels 58, 59, 60 and test channel. Weight only 1 1/2 ounces, less battery. Has audio and video inputs.

Indoor tuned Active SWL Antenna, 0.3 to 30 MHz

MFJ invented the tunable active antenna! New technology uses dual gate MOSFET and a gigahertz bandwidth buffer.

MFJ invented the tunable active antenna! Numerous copies have been made without success -- including most recent ones.

Why? Because MFJ has made continuous improvements where others have not. The MFJ-1020C has been completely re-designed with new technology.

New technology uses a dual gate MOSFET and a gigahertz bandwidth buffer.

It improves gain and selectivity, reduces noise and

intermod, and is NOT prone to self-oscillations that can severely damage your receiver.

With the MFJ-1020C tuned indoor active antenna you'll rival reception of outside wire antennas hundreds of feet long and pick up signals loud and clear from all over the world.

The prestigious *World Radio TV Handbook* says MFJ-1020 is a "fine value . . . fair price . . . best offering to date . . . performs very well indeed."

MFJ-1020C
\$79⁹⁵

Ship Code A



MFJ's unique tuned circuitry minimizes intermod, improves selectivity and reduces noise outside the tuned band.

You can also use it as a tuned preselector with an external antenna.

It covers 0.3 to 30 MHz including VLF, AM broadcast, all shortwave and all amateur radio bands.

MFJ-1020C has Tune, Band, Gain, On-Off/Bypass controls and SO-239 coax connectors. Use 9 volt battery, 9-18 VDC or 110 VAC with MFJ-1312D, \$14.95.

Measures a compact 5x2x6 inches. Includes telescoping whip.

54" Outdoor Active Antenna

"World Radio TV Handbook"

MFJ-1024
\$139⁹⁵

Ship Code B



says MFJ-1024 is a "first rate, easy-to-operate active antenna . . . quiet . . . excellent dynamic range . . . good gain . . . very low noise factor . . . broad frequency coverage . . . excellent choice . . ."

Mount it outdoors away from electrical noise for maximum signal

and minimum noise. Has convenient mounting holes for easy installation. MFJ-1024 covers 50 KHz to 30 MHz.

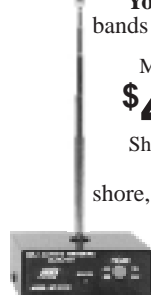
Receives strong clear signals. 20 dB attenuator, gain control, ON LED. Switch selects two receivers and auxiliary or active antenna. Control unit is 6x3x5 inches. Remote unit has 54 inch telescopic whip, 50 feet of coax and connector. 3x2x4 inches. Use 12 VDC or 110 VAC with MFJ-1312D, \$14.95.

Compact 0.3 to 200 MHz antenna

Your ham band only antenna does great in the ham bands . . . but plug this MFJ all band active antenna into your radio and hear strong clear signals from all over the world from 300 KHz to 200 MHz -- including low, medium, shortwave and VHF bands.

MFJ-1022
\$49⁹⁵

Ship Code A



You'll enjoy up-to-the-minute international shortwave newscast, ship-to-shore, airline, commercial RTTY and others.

It also improves weak noisy scanner radio reception from high to low band VHF -- hear signals you couldn't hear before.

A J-310 FET handles strong signals and noiseless feedback circuit gives you excellent low noise reception. 4.5 GHZ MRF-901 transistor lets you receive really weak signals well into VHF. Take it anywhere -- it's so tiny it fits in your pocket!

Has on/off switch, power on LED, SO-239 coax connector and detachable 20 inch telescoping antenna. Uses 9 volt battery or 110 VAC with MFJ-1312D, \$14.95. 3x1 1/4x4 inches.

MFJ high dynamic range Passive Preselector can't overload

Protects your receiver from overload damage, greatly reduces intermod, blocking and cross-modulation

MFJ-1048
\$119⁹⁵

Ship Code A



MFJ's new Passive Preselector has extremely **NEW!** high dynamic range!

It improves the performance of nearly any HF or shortwave receiver/transceiver. It vastly improves the most expensive receivers. Especially helpful to those with broadband front-ends that are prone to overload.

Protects your sensitive receiver input from damage (including switching diodes and attenuator resistors) caused by very strong signals from multi-transmitter,

multi-band operation -- contests, field-day, nearby hams, CBers, TV/FM/AM stations.

It eliminates phantom signals by suppressing strong out-of-band signals that cause intermod, blocking and cross modulation. Completely eliminates second order intermod problems caused by strong out-of-band shortwave broadcast signals mixing and producing unwanted in-band signals.

MFJ's unique Hi-Q series tunable circuit gives you superb performance. The tunable series tuned circuit works into a very low impedance formed by broadband toroid transformers.

Has narrow bandwidth, excellent stop-band attenuation, very low loss, constant bandwidth and gain over each band. Excell-

ent attenuation in adjacent contest bands.

The entire 1.6 to 33 MHz HF band is covered in five overlapping bands.

An air variable tuning capacitor, 1.8 to 1 tuning range and a vernier reduction drive gives you precision tuning.

An RF sense transmit/receive switch with adjustable time delay automatically bypasses your MFJ-1048 when you transmit. Also has PTT line T/R switching. Plugs between antenna and transceiver.

Fully shielded metal enclosure. Tough black finish. 7 1/2x2 1/2x3 3/4 in. Use 12 VDC or 110 VAC with MFJ-1312D, \$14.95.

MFJ-1046, \$99.95. Same as MFJ-1048 but less RF sense/PTT line bypass.

MFJ All Band Transceiver/Preselector

MFJ-1040B
\$99⁹⁵

Ship Code A



Lets you copy weak signals. Rejects out-of-band signals, images. 1.8 to 54 MHz. Up to 20 dB gain. Gain control. Dual gate MOSFET, bipolar transistors for low noise, high gain. 20 dB attenuator. Connect 2 antennas, 2 receivers. Coax and phone jacks. Automatic bypass when transmitting to 350 watts. Delay. Jack for Push-to-talk. 9-18 VDC or MFJ-1312D, \$14.95.

MFJ-1045C
\$69⁹⁵

Ship Code A



MFJ-1045C, \$69.95. No attenuator, Transceiver auto bypass, delay or Push-to-talk.

Receiver Antenna Tuner/Preamplifier

MFJ-959C
\$99⁹⁵

Ship Code B



Don't miss rare DX due to signal power loss between your receiver and antenna. The MFJ-959B provides proper impedance matching so you can transfer maximum signal from antenna to receiver. Covers 1.6 to 30 MHz. 20 dB preamp with gain control boosts weak stations. 20 dB attenuator prevents overload. Select from 2 antennas and 2 receivers. Measures 9x2x6 inches. Use 9-18 VDC or 110 VAC w/ optional MFJ-1312D, \$14.95.

MFJ-956 LW/MW/SW Preselector/Tuner

MFJ-956, \$49.95. Boost favorite stations while reject- ing images, intermod and phantom signals.

Greatly im-proves reception from .15-30 MHz, especially below 2 MHz. Tuner bypass/ground receiver positons. Compact 2x3x4 in.



MFJ Shortwave Regenerative Receiver Kit

Remember hunching over your regenerative receiver for hours with a pair of phones pressing uncomfortably against your ears?

You could hear just about anything that fancy superhets could hear. Sure, you had to play around with the regeneration control just right and have a steady hand to tune but you could hear 'em . . .

Don't you wish you could relive some of this fun and excitement of your youth -- share some of it with your kids and grandkids? Well, you can -- with the MFJ-8100 World Band Shortwave Radio Kit.

Spend a fun evening with your child or grandchild and help him put this simple kit together. When the two of you finish,

MFJ-8100K
\$69.95
Ship Code A



watch him glow with excitement as he tunes the world bands -- just like you did -- and remember for life. It might even inspire him into a career in electronics.

This baby performs. A RF stage really picks up the weak ones and it goes into regeneration smoothly without pops or dead spots. Stations all over the world will come in loud and clear with a 10 ft wire antenna.

With a 10 foot wire antenna, you'll be amazed at what you can hear -- stations all over the world will come in loud and clear.

Listen to international shortwave broadcasts, hams on SSB and CW, WWV, RTTY, packet and much more. Covers all or part of 75/80, 49, 40, 30, 31, 20, 25, 22, 19, 17, 16, 15, 13 Meters in five bands.

Range A covers: 3.51-4.31 MHz, Range B: 5.95-7.40 MHz, Range C: 9.56-12.05 MHz, Range D: 13.21-16.4 MHz, and Range E: 17.6-22 MHz.

Has vernier reduction drive, bandswitch, volume/RF gain controls, uses 9V battery and built into a rugged aluminum cabinet.

Two earphone jacks let you and your child or grandchild listen together with your Walkman style earphones or plug-in speakers. Measures 7x6x2 1/2 inches.

Order one as a special gift or for yourself: **MFJ-8100K, \$69.95** kit; **MFJ-8100W, \$89.95**, wired and tested unit.

MFJ Shortwave Radio Communication Headphones



MFJ-392B
\$19.95
Ship Code A
MFJ-392B is perfect for amateur radio and shortwave radio listening. Great for all modes -- SSB, FM,

AM, data and CW. Each earphone has an individual volume control.

Superb padded headband and *ear cushioned* design makes listening extremely comfortable. You'll forget they're even there as you listen to stations all over the world!

High-performance driver unit reproduces enhanced communication sound. Signals never sounded so *crystal clear!*

MFJ-392B will bring out speech fidelity you never knew existed. Has free 1/4 inch

phono adaptor.

Near zero loss on signal transmission from the gold plated plug and cord. Super lightweight earphones (8 ounces) come with 9 feet of cord -- lets you easily move about and still listen to your radio.

MFJ-392B handles 450 mW and has a frequency response of 100-24,000 Hz. Impedance is 16 Ohms at 1 KHz, sensitivity is 102 dB/mW. Works in mono or stereo mode. MFJ's *No Matter What*™ warranty.

MFJ 21 Band Shortwave World Receiver MFJ Airband or Marine/Weather Digital Receivers

NEW!



MFJ-8121
\$39.95
Ship Code A
MFJ's new World Band Receiver lets you travel the world from your armchair

... for an incredibly low \$39.95!

Listen to BBC news from London, live music from Paris, soccer matches from Germany, cultural programs and more!

Introduce your children to the *real* cultures of the world as other nations tell it live on world band radio.

Built-in telescopic antenna (6 inches retracted, 26 inches fully extended) and a *Sony*® integrated circuit from Japan brings

in stations loud and clear all over our world.

Multicolored tuning dial makes it easy to tune to your favorite station. An LED tuning indicator turns bright red when your desired station is tuned in.

Detailed World Time Zone and frequency charts are permanently silkscreened on the back panel. Informs for quick band changes and lets you decide where to explore next.

Large built-in 3 inch speaker gives you plenty of room filling volume. Speaker is disconnected when you use your earphones.

MFJ-8121 operates on 6 VDC or four easy-to-install "AA" batteries (not included). Super compact size (4 1/2"Hx7Wx1 1/2"D inches) and a handy wrist carrying strap lets you take it with you anywhere to use any time! **Optional AC power supply, MFJ-1306, \$14.95. Great for hotel travels!**



Weather Digital Receivers

MFJ-8218, \$39.95. PLL Digital Auto

Tuning with frequency up/down buttons, 30 preset memories -- 10 for the Air-Band! Last station tuned in is retained automatically!

MFJ-8218 has a built-in (mono) speaker, built-in telescopic antenna, Low Battery Warning Indicator, Key-Lock Function, more.

MFJ-8218 receiving frequency range is **AIR:** 108.000-140.000 MHz in 25 kHz steps.

Uses two AA batteries (not incl.) or has 3 VDC jack for external power source. Super tiny -- fits in the palm of your hand easily!

MFJ-8214, \$39.95. Digital tuning LCD marine/Weather Receiver.

2 Meter Repeater Monitor Receiver Kit

MFJ-8400K
\$79.95
Ship Code A

MFJ-8400W
\$99.95
Ship Code A

MFJ-8400K has a low noise, high gain RF preamp that gives you an excellent 0.1 microvolt sensitivity -- lets you hear weak signals loud and clear.

An air variable tuning capacitor with a velvet smooth 8:1 reduction drive makes tuning easy and comfortable with no noticeable drift.

Dual conversion superhet receiver with sharp ceramic filters, crystal controlled second oscillator gives great selectivity, stability.

A 19 inch 1/4 wave telescopic whip antenna is included. External groundplane or Yagi can be plugged in so you can reach out and pull in distant stations and outlying repeaters.

Has tune, squelch, volume controls, built-in speaker, high quality components with glass epoxy PC board and attractive all metal cabinet. Uses 9 volt battery, 9-12 VDC or 110 VAC with optional MFJ-1312B, \$14.95. Measures 4 1/4"Wx2Hx4D inches.



World Band Explorer™ radio Converter



MFJ-306
\$89.95
Ship Code A

This MFJ-306 World Band Explorer™ converts your AM/FM car radio into a World Band receiver at the push of a

button. Unlike local FM and AM radio stations that fade out after a few miles, enjoy shortwave throughout your entire trip.

MFJ-306 covers the entire 19, 25, 31, and 49 Meter international shortwave broadcast bands. On these bands, you'll hear stations from all over the world at various times of the day and year -- including Europe, Middle East, Asia, Australia, America and more!

It's easy to install. Just unplug your car radio antenna and plug it into the MFJ-306. Then insert the MFJ-306 cable into your radio antenna jack and connect 12 VDC.

Measures just 5x1 1/2x3 1/2 inches -- small enough to fit anywhere in your vehicle. Push button selects world band or AM/FM radio. Excellent sensitivity and selectivity when used with your automotive receiver. Standard Motorola antenna plug and jack.

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New Question Pools! MFJ Publishing guarantees that you'll pass your written exam on your first try . . . if you don't pass we'll refund your money in full* . . . you can't lose!

*Send copy of receipt, proof of failure to MFJ within 30 days of failing and we'll refund the purchase price of your MFJ QuickStudy™. Limit 1 per license class.

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Ham Radio License Guide

Features...

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New question pool effective July 1, 1998

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MFJ-3211-Technician	MFJ-3213-General	MFJ-3215-Extra
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MFJ-3211 Use minimum amount of study time so you can start enjoying the hobby right away.

MFJ-3213 MFJ's Each MFJ license guide has all of the exact questions given on the written exam. Each question on the exam has a multiple choice answer. But why take the extra time to study the wrong answers? It'll just add to the confusion and doesn't help you pass the exam. MFJ gives you only the correct answers. When you take the exam the answer jumps out at you -- no confusion, nothing to clutter the mind. It's an instant correct answer because you only studied the right answer.

MFJ-3215 MFJ QuickStudy™ License Guide and MFJ guarantees that you'll pass the written exam on your very first try or you get your money back*.

Technician, General, or Extra Class
Ship Code A

See above.

What is MFJ's QuickStudy™ concept? The objective is to pass the exam and get your license with a

Study the material thoroughly a few times, pass the test and enjoy the friendship of ham radio -- it couldn't be simpler.

MFJ QuickStudy™ License Guides are available for all classes Technician, General and Extra Classes. These books only cover the written part of the test, not the five word-per-minute code exam.

MFJ-3211, Technician, MFJ-3213 General Class, MFJ-3215 Extra Class, \$9.95 each.

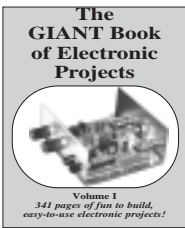
Antenna book by L.B. Cebik, W4RNL



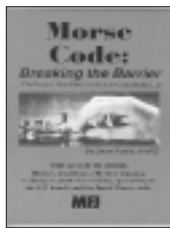
MFJ-3306, \$19.95. By L.B. Cebik, W4RNL. This practical level antenna book for technicians, amateur radio operators, and students provides direct and clear information on the theory of "antennas from the ground up". The reader will obtain a set of rational expectations based on as much clarity as a non-mathematical treatment of antennas can provide. This book is based upon the kinds of questions the author receives from folks struggling to set up or improve an antenna within the limitations of modern yard sizes and budgets. Scattered among the chapters will be a compendium of typical antenna patterns for common antennas on all of the HF bands. Setting reasonable expectations for antenna performance is the main goal of this book. W4RNL has written each chapter as if he were sitting with the reader, trying to anticipate questions that would be asked at each point along the way. This text is as technically sound as a non-mathematical treatment will permit. Practical antenna work for the amateur seeking good, basic, and simple designs rarely calls for a set of derivations from Maxwell's elegant laws.

MORE GREAT MFJ SELECTIONS

Packet Radio is Made Easy!
MFJ-32, \$12.95. By Buck Rogers, K4A-BT. Packet for beginners!
PROH: Packet Radio Operators Handbook MFJ-3036, \$12.95. By Buck Rogers, K4ABT.
Oscar Satellite Review MFJ-31, \$7.95. By Dave Ingram, K4TWJ.
Golden Classics of Yesteryear MFJ-30, \$9.95. By Dave Ingram, K4TWJ. Collins, Heathkit, more!
Wonderful World of Ham Radio MFJ-35, \$7.95. All about ham radio. Great start for kids!
Fox Hunt Adventure MFJ-3101, \$7.95. Relive a sense of mystery!
Troubleshooting Antennas and Feedlines MFJ-3301, \$12.95. By Ralph Tyrrell, W1TF.
Easy-Up Antennas for Radio Listeners & Hams MFJ-38, \$16.95. By Ed Noll, W3FQJ.
Shortwave Listener's Guide for Apartment and Condo Dwellers MFJ-36, \$9.95. By Ed Noll, W3FQJ. Complete shortwave book. Antennas, receivers, etc.
Ham Radio Communications Circuit Files MFJ-37, \$9.95. By Ed Noll, W3FQJ. Many fun weekend projects!
Modern Amateur's Mobile Handbook MFJ-33, \$12.95. By Dave Ingram, K4TWJ.
Radio Components Handbook MFJ-3508, \$29.95. By Italian author Guido Silva, I2EO.
FET Principles, Experiments and Projects MFJ-3504, \$16.95. By Ed Noll, W3FQJ. Classic projects for a few hours or weekend!
73 Dipole & Long Wire Antennas MFJ-3302, \$12.95. By Ed Noll, W3FQJ. Classic antenna book covers long wires!
73 Vertical, Beams, Triangle Antennas MFJ-3303, \$12.95. By Ed Noll, W3FQJ. Antenna classic covers verticals, beams!



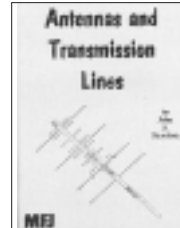
MFJ-3501, \$19.95. Over 30 different kit projects, schematics, part placement. Fun ham radio, shortwave, transmitters, etc.



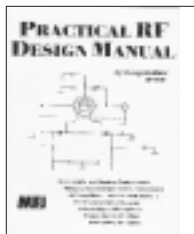
MFJ-3400, \$19.95. The Koch Method: the fastest most effective way to code proficiency. Fantastic CW history account. More!



MFJ-3506, \$19.95. Legendary textbook from the late Doug DeMaw emphasizes the practical aspect of magnetic core material.



MFJ-3305, \$19.95. 320 pages, 37 short concise chapters. Underlying theory, powerful techniques, projects and more!



MFJ-3507, \$19.95. Another DeMaw classic! Proven techniques in transmitter and amplifier design. Many, many circuit examples that have been proven to work!



MFJ-3509, \$19.95. Everything you need to know about Ladder Crystal Filters. Generous references, computer programs and more! By John Pivnichny, N2DCH.



MFJ-3510, \$19.95. A classic QRP Project book from Australian author Drew Diamond. Paddyboard circuit construction, air wound coils, test equipment and more!



MFJ-3502, \$12.95. Edward Noll helps you build your own QRP rig while getting acquainted with solid state technology. 52 fun QRP projects in 8 chapters. Classic Noll!

AL-80B . . . 1 kW PEP output!

Ameritron doubles average SSB power!
AL-80B kilowatt output desktop linear can double your average SSB power out with high-level RF processing -- runs cooler because its classic 3-500 tube completely turns off between words!



AL-80B
\$1299
Suggested Retail

load controls make tuning precise and easy. Rapidly retune to your favorite frequency.
Step-Start Inrush Protection™
Step-Start Inrush Protection™ stops damaging inrush current with a start up sequence that's easy on your tube and power supply components.

Multi-Voltage Power Transformer
Excessive line voltage stresses components and causes wear out. Low line voltage causes a "soft tube" effect -- low output/signal distortion.

Our exclusive *Multi-Voltage Power Transformer™* lets you optimize for different line voltage. Select from 14 different primary voltages from 90-140 VAC & 205-250 VAC.

The *high voltage secondary* can be wired to reduce plate voltage for efficient operation below 400 Watts for use outside the USA.

Dual Illuminated Cross-Needle Meters

Ameritron's dual illuminated cross-needle meters give you *four separate meters* to monitor your operating conditions -- you can tell right away if something is wrong.

Grid and plate current and forward PEP output power are *continuously* monitored to show improper loading/abnormal conditions.

The fourth meter can be switched to monitor your classic 3-500 tube DC plate voltage, reflected PEP power and the SWR of your antenna, ALC voltage to your rig and the grid current that starts ALC action -- get a clear picture of your AL-80B.

QSK Compatible

The fast open frame T/R (transmit/receive) relay in the AL-80B switches nearly as fast as some vacuum relay QSK T/R switches.

For *lightning fast* QSK operation use the optional external electronic PIN diode QSK-5 T/R switch or the internal QSK-5PC.

Plus much, much more!

Operate/Standby switch lets you run barefoot, but can instantly switch to full power if you need it.

Has transmit LED; 12 VDC, 200 mA accessory jack; 12 VDC keying relay for solid state and tube rigs; tough, nearly indestructible Lexan over-aluminum front panel. Two year limited warranty.

Made in the USA. Ameritron is the proven leader in high power amplifiers.

Call your dealer for your best price!

Ameritron's AL-80B kilowatt output desktop linear can double your average SSB power output with high-level RF processing using Ameritron's exclusive *Dynamic ALC™*.

You get cooler operation because the AL-80B's exclusive *Instantaneous RF Bias™* completely turns off the classic 3-500 tube between words. It saves hundreds of watts wasted as heat.

You get a full kilowatt PEP output from a whisper quiet desktop linear. It's a compact 8½Hx14Dx15½ inches and plugs into your nearest 120 VAC outlet. Covers all bands 160-15 Meters, including WARC and MARS (10/12 Meters mod with license).

You get 800 Watts output on CW, 500 Watts output on RTTY, an extra heavy duty power supply, genuine 3-500 tube, nearly 70% efficiency, tuned input, Pi/Pi-L output, inrush current protection, multi-voltage transformer, dual Cross-Needle meters, QSK compatibility, two-year warranty, made in USA, plus much more!

Dynamic ALC™ doubles average SSB power

The AL-80Bs exclusive *Dynamic ALC™* gives you high-level low-distortion RF processing. When activated, it can more than double your average SSB power and produce up to 6 dB improvement in intelligibility. Maximizes your talk power without distortion/splatter.

A convenient front panel control lets you adjust output power level.

Instantaneous RF Bias™ eliminates heat

The AL-80Bs exclusive *Instantaneous RF Bias™* completely turns off the classic 3-500 tube (except filaments) between words and dots and dashes. It eliminates hundreds

of watts wasted as heat to gives cooler operation, longer component life.

Gutsy Heavy Duty Power Supply

The guts of the AL-80B is its *heavy duty* power supply. A 26 pound transformer using a high silicone steel core, computer grade capacitors, heavy duty bleeders and ten 3 amp, 1000 Volt power rectifiers give you a stiff 2700 volts fully loaded. Many amplifiers using two 3-500s use such small power supplies they don't deliver much more power output than the AL-80B.

70% Efficiency

The AL-80B is built on a rugged steel chassis. It has a separate RF compartment that's fully shielded to keep RF from leaking out. This keeps RFI and TVI to a minimum.

Superb RF design and layout, Hi-Q tank circuit and commercially rated RF power components give you nearly 70% plate efficiency over the entire operating range. Your power goes into your antenna instead of heating up your amplifier.

A whisper quiet internal fan draws in cool air over power supply components and pressurizes the classic 3-500 tube compartment to remove heat for longest life.

Tuned input lets your rig deliver full output

50 Ohm broadband Pi-Network *tuned input* is used. Even fussy solid state transmitters will deliver full power!

Pi/Pi-L Output Network

A carefully designed Pi/Pi-L output network using the optimum Q for each band gives exceptionally smooth tuning, extremely wide matching range, full band coverage and peak performance at all power levels.

Ball bearing vernier reduction drives with logging scales on both the plate and

<http://www.ameritron.com>

AL-811 . . . 600 WATTS . . . \$649!

More hams use Ameritron AL-811 amplifiers than any other amplifier in the world . . . The AL-811 has earned a worldwide reputation for legendary quality, flawless performance, proven reliability and superb customer service . . .



Ameritron's AL-811 linear amplifier gives you plenty of power to bust through QRM!

You get a quiet desktop linear that's so compact it'll slide right into your operating position -- you'll hardly know it's there . . . until QRM sets in. And you can conveniently plug it into your nearest 120 VAC outlet -- no special wiring needed.

You get three tough 811A transmitting tubes, extra heavy duty power supply, all HF band coverage, pressurized ventilation, tuned input, dual illuminated meters, adjustable ALC and much more for an incredible \$649!

The First 600 Watts makes the difference

The AL-811 gives you 600 Watts PEP output -- that's nearly 2 full S-units over your barefoot rig.

That could mean the difference between hearing, "You're Q-5 armchair copy" and "Sorry, can't copy you, too much QRM."

Now you won't have to stand aside while the "big guns" steal your DX. You'll be able to log some of those stations first.

All Band, All mode Coverage

AL-811 covers all HF bands. There's no compromise on WARC and most MARS bands -- you get a 100% rated output.

Operate AL-811 on all modes. Get 600 Watts output PEP SSB and 500 Watts output CW. You even get 300 Watts on continuous carrier modes like RTTY, SSTV, and FM.

Low cost 811A tube resists failure -- First, they're constructed with wide-

ly spaced elements that minimize the chance of elements touching and causing a short -- even if the plate gets hot enough to melt.

Second, they use a directly heat-

supply is its heavy duty power transformer with a high silicon steel core weighing a hefty 17 pounds.

A full wave bridge using 52.5 ufd of total capacitance (four 210 ufd, 450 volt capacitors) produces 1500 Volts under full load and 1700 Volts no load. That's excellent high voltage regulation!

Rectifier diodes are rated for a massive surge current of 200 amps--won't blow even if you accidentally short the high voltage supply.

Wire wound, 7 Watt, 50 K Ohm equalizing resistors safely protect each filter capacitor -- not 2 Watt, 100 K Ohm carbon composition resistors that can open and cause filter capacitors to explode or fail.

The Ameritron AL-811 power supply is built tough so you get peak performance year after year.

band and built with top quality RF components.

The result is peak performance over each band, wide impedance matching range and exceptionally smooth tuning with efficiencies close to 70%. Even 3:1 SWR load won't damage tubes or tank components.

A ball bearing vernier reduction drive makes plate tuning safe, precise and easy.

Quiet pressurized ventilation keeps your tubes safely cooled

A quiet blower pressurizes the cabinet with a large volume of air flow. It keeps the 811A tube temperature well below the tube manufacturer's rating -- even with a key down carrier at 400 Watts output -- without the overwhelming noise of oversized fans.

Two illuminated meters

Two illuminated meters give you a clear picture of your AL-811 operating conditions so you can tell right away if something is wrong.

The Grid Current meter continuously checks for improper loading. The other meter switches between high voltage and plate current to warn of abnormal conditions.

Ameritron exclusive Adapt-A-Volt™ power transformer

Too high line voltage stresses components and causes them to wear out and fail. Too low line voltage causes a "soft tube" effect -- low output and signal distortion.

Ameritron's exclusive Adapt-A-Volt™ power transformer has a special buck-boost winding that lets you compensate for stressful high line voltage and performance robbing low line voltage.

Your components last longer and gives you peak performance -- regardless of your line voltage.

Plus much, much more . . .

An Operate/Standby switch lets you run barefoot, but you can instantly switch to full power if needed.

A transmit LED tells you when your rig is keying your AL-811.

A 12 VDC keying relay makes it compatible with all solid state and tube rigs. A back-pulse cancelling diode protects the rig keying circuit.

Shielded RF compartment. One year limited warranty. Compact 16Dx13³/₄Wx8H inches. 30 pounds. UPS shippable. Shipped with transformer installed and wired for 120 VAC. Draws 8 amps at 120 VAC. Export AL-811X wired for 240 VAC. Includes 10 and 12 meters.

800 WATTS . . . \$799!

Ameritron gives you four 811A tubes, 800 Watts for the same price as the competitor's 3 tube 600 Watt unit . . .

Why settle for less power and pay more money?



Only the Ameritron AL-811H gives you four fully neutralized 811A transmitting tubes. You get absolute stability and superb performance on higher bands that can't be matched by un-neutralized tubes.

Ameritron mounts the 811A tubes vertically -- not horizontally -- to prevent hot tube elements from sagging and shorting out. Potentially damaging horizontal tube mounting requires special 811A tubes to retard sagging and shorting.

Quiet, powerful computer grade blower draws in plenty of cool air. It pressurizes the cabinet and efficiently cools your 811A tubes. Our air flow is so quiet, you'll hardly know it's there -- unlike noisy, oversized blowers.

Efficient, full size size heavy duty tank coils, full height computer grade capacitors, heavy duty silicon power transformer, slug tuned input coils, operate/standby switch, transmit LED, ALC, dual meters, QSK compatibility with Ameritron's QSK-5 plus much, much more!

ed thoriated tungsten filament cathode that prevents the electron emitting layer from instantly stripping off -- even if mistuning causes a sudden, severe current overload.

The Ameritron AL-811 is excellent for the newcomer because it's tough enough to withstand momentary mistuning. And the tubes are so inexpensive that you can replace one for mere pocket change.

The Ameritron advantage: Extra heavy duty power supply gives you peak performance year after year

The heart of the AL-811 power

Tuned input provides excellent load for any rig

A Pi-Network tuned input provides a 50 Ohm load for your rig. Even fussy solid state rigs can deliver their full drive to the AL-811.

Low loss slug tuned coils -- tunable from the rear panel -- let you optimize performance. High quality low drift silver mica capacitors maintain proper tuning.

Output tank:

Optimum Q on each band

The low loss pi-network output tank of the AL-811 has been carefully designed for optimum Q on each

QSK-5 Pin Diode Transmit/Receive Switch . . . \$349

World's most advanced Transmit/Receive Switch. Gives high power QSK operation from your linear amplifier. Self-contained, connects externally to most HF amps. Handles 2.5 kW PEP, 2 kW CW. Six times faster than vacuum relay.



ATP-100 AMP Tuning Pulser . . . \$49⁹⁵

Pulse tuning safely tunes up your amp for full power output and best linearity. Keeps average power to low safe level to prevent overheating, tube damage, power supply stress and premature component failure. ATP-102, \$59⁹⁵, similar, variable pulser and delay.



ICP-120/240 Inrush Current Protector . . . \$79

Stops power-up inrush current and absorbs momentary high voltage spikes to your amp. This start up sequence is easier on your tube & power supply components. Avoids replacing expensive tubes and parts. 120 or 240 VAC models.



Add-on Electronic Bias System for AL-82/1200/1500 Amps

EBS-1, \$39.95. EBS reduces heat by reducing quiescent current to low values during periods when exciter output falls below 100 mW. Features remote detector board. **EBS-1H, \$49.95,** for other amps, call 662-323-8211 for details.

No Tune Solid State Amplifiers

Ideal mobile amplifier -- uses 13.8 VDC mobile electrical system, very compact, extremely quiet, 500 Watts output, continuous 1.5-22 MHz coverage, instant bandswitching, no tuning, no warm up, SWR protected.



ALS-500M
\$799

Suggested Retail
antenna has excessively high reflected power or if bandswitch is set lower than exciter frequency -- virtually eliminates damage because of operating error; has Load fault LED indicator.

ALS-500M, \$799.

Ideal mobile amplifier uses 13.8 VDC at 75 amps mobile electrical system, very compact 3 1/2 x 9 x 15 inches fits easily in your auto, extremely quiet, 500 Watts out, 1.5-22 MHz coverage, instant bandswitch-

ing, no tuning, no warm up, no tubes. SWR Protection. Uses four rugged 2SC2879 high power linear RF power transistors. Load fault protection disables and bypasses amplifier if

No tuning, no fuss, no worries -- just turn on and operate . . . incredibly low \$1299 includes AC power supply, 600 Watts output, continuous 1.5-22 MHz coverage, instant bandswitching, no warm up, no tubes to baby and more!



ALS-600
\$1299

Suggested Retail

antenna or have high SWR. Over Power protection takes over if power exceeds safe level, output power is automatically reduced to prevent amplifier damage.

ALS-600, \$1299. No tuning, no fuss, no worries -- just turn it on and operate. Includes AC power supply, 600 Watts output, continuous 1.5-22 MHz coverage, instant band switching, fully SWR protected, extremely quiet, very compact. Both separately measure 6x9 1/2 x 12 inches .

SWR Protection prevents amp damage if you switch to the wrong band, use wrong

AMERITRON offers the best selection of FULL legal limit amplifiers

AMERITRON's legal limit amplifiers use a super heavy duty Hypersil[®] power transformer capable of 2500 Watts!

Ameritron's most powerful



AL-1500
\$2995
Suggested Retail

Ameritron's super powerful amplifier uses

the herculean Eimac[®] 8877 ceramic tube. It's so powerful that 65 watts drive gives you the full legal output -- and it's just loafing because the power supply is capable of 2500 Watts PEP. It also features time delay starting to protect the tube and over-current shut-off to remove the drive if mistuned. Commercial grade diecast ball bearing blower provides quiet operation at full rated airflow to maximize tube life.

Ameritron's Toughest Amp

AL-1200
\$2545
Suggested Retail

Ham radio's toughest tube -- the Eimac[®] 3cx1200A7 is in ham radio's toughest amplifier! It has a 50 Watt control grid dissipation. It also has the same super heavy duty power supply that's in our AL-1500 amplifier that loafs at full power. A 3CX1200A7 has the lowest quantity history of field replacement of any modern transmitting tube that we use. It has the ruggedness and power handling of ceramic tubes combined with the long-life of thoriated tungsten filaments.



Ameritron's Classic Amp

AL-82
\$2445
Suggested Retail

This classic linear gives you full legal

output using a pair of 3-500s. Examine the features and component ratings of the AL-82 and compare it to any competing amplifier using two 3-500ZGs. Most competing linears using 3-500s can't give you 1500 Watts because their lightweight power supplies can't use these tubes to their full potential. Our AL-82 amplifier has the same in the AL-1500 and AL-1200 -- powerful stuff!



AL-800H . . . 1500 Watts!



AL-800
\$1775
Single Tube
Suggested Retail
AL-800H
\$2595
Two Tubes

Output Power: 1250 Watts PEP, single 3CX800A7. 1500 W plus, two 3CX800A7s. All Band Operation: 160-15 Meters including WARC bands. User modifiable for

12 and 10 Meters with license. **Genuine Eimac[™] tube(s):** Model AL-800 has single Eimac 3CX800A7; Model AL-800H has two Eimac 3CX800A7s. **Tuned Input Circuit:** Adjustable slug-tuned input circuit. **Output network:** Pi/Pi-L gives you smooth tuning and wide matching range. **Tube Protection:** Grid current limiting circuit protects your tubes. **ALC Control:** Front panel adjustable, true ALC control. **Vernier Reduction Drives:** Tuning and loading reduction drives make adjustments smooth and easy. **Hefty power supply:** 32 lb. grain orientated, silicone steel core transformer.

AL-572 . . . 1300 Watts!



AL-572
\$1395
Suggested Retail

You get 1300 Watts PEP SSB nominal power out on amateur bands 160-15 Meters. Four rugged 572B

tubes give you near legal limit power and instant 3 second warm-up time.

These four fully neutralized tubes have a heavy duty Graphite Anode, low loss white ceramic base, superior Titanium Getter and legendary quality and ruggedness.

Ameritron's exclusive Parasitic Killer[™] effectively suppresses all parasitic oscillations.

This whisper quiet desktop linear plugs into your nearest 120 VAC outlet -- no special wiring needed.

Typically get 1300 Watts PEP SSB, 1000 Watts CW continuous, 1000 Watts 1/2 hour PEP two-tone test on all amateur bands from 160-15 Meters (WARC bands and 10 Meters at reduced performance.