

# Ultimate AM Broadcast Band Antenna (Model AM-2)



## Amplified Shielded Magnetic Loop

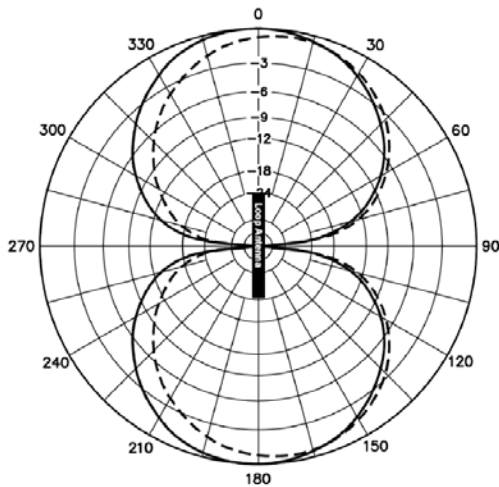
This design has long been recognized by professional broadcast engineers, the military and serious amateur radio operators as the ideal solution for Medium Wave reception with a relatively small antenna. It takes advantage of the fact that radio waves consist of two components, an electrostatic field (E-wave) and a weaker magnetic field (or H-wave). Unlike standard ferrite loops, dipoles and long-wire antennas, it's optimized to respond to the magnetic H-field component of the received signals and shielded from the electrostatic E-wave component of the received electromagnetic wave. Since most local interference (particularly AC power line radiated noise) has a large electrostatic E-wave component, it's exceptionally effective at reducing this kind of interference and making it possible to receive signals obscured by local man-made noise sources.

## Wide Dynamic Range Low-Noise Preamplifier

The internal low-noise preamplifier is an extremely wide dynamic range differential type with exceptionally low inter-modulation distortion in the presence of high level signals. This is particularly important when trying to receive distant signals when the antenna is located near much higher power transmitters. The amplifier is powered via an included 12 VDC power supply and is optimized for maximum gain in the 500 kHz – 1700 kHz AM broadcast band. Unlike other loop antennas available, no special tuning is required for reception of the entire band.

## “Figure Eight” Reception Pattern

This antenna is directional and has a “Figure Eight” reception pattern with deep nulls located at right angles to the open loop. This characteristic can also be used to help minimize interference that can be localized to a particular direction.



Loop Antenna Pattern (looking down edge – on from above antenna)

## Mounting Options & Accessories

For best results it should be located outdoors as far away as possible from local noise sources. It can be located at ground level and camouflaged in a tree or shrubbery. It will also operate inside an attic or garage attached to a wall, but should be mounted away from metallic objects that will distort the reception pattern. It includes an L-bracket fixture for mounting to poles up to two inches in diameter. It's constructed of high-strength 3/4 inch aluminum tubing capable of withstanding winds over 100 mph. All required mounting accessories are included. It is compatible with standard RG-6 cable and F-Type connectors. (For best results use quad shielded cable).

Supplied Components	
QTY	Description
1	Loop Antenna
1	L-bracket pole mount
2	Saddle clamp
2	U-bolts
1 lot	mounting bolts and washers
2	wall mount clamps
1	weather boot
1	power inserter
1	12 VDC power supply
1	twin lead to F-female adapter