



LA350 - high performance active loop aerial

The LA350 is a compact active loop aerial specifically designed to provide good reception when away from the main monitoring location or when large external aerials are not practical. Compact, but achieving high performance, featuring an internal high-gain amplifier (13.5dB) and excellent overall strong signal handling (high IP³ +30dBm).

The LA350 comprises of a small control box with front panel power switch and LED. The top of the control box has a 6.3mm jack socket to accept any one of the four elements (two supplied as standard). The rear of the control box has a 1.3mm power socket (operation is from 12V DC, centre positive) and a BNC socket for connection to a receiver. The LA350 is supplied with two elements (providing coverage from 3.0MHz to 30MHz), a BNC-BNC coax lead and AC power unit (* the power supply may not be provided in certain market areas):

- 350S 30cm loop element: 3.0 - 9.0MHz
- 350H 30cm loop element: 9.0 - 30MHz

The elements are mounted on a jack plug which enables quick & easy swapping between elements and rotation to exploit the excellent directivity of the elements in peaking and nulling signals (ideal for minimising the effects of unwanted interfering local terrestrial signals and noise), of course the directional characteristics when listening to distant sky-wave signals will not be as pronounced as local ground-wave propagation. The elements feature a High-Q poly-variable capacitor so that each element may be 'tuned' to peak the wanted frequency while achieving maximum rejection of unwanted out of band signals - valuable additional selectivity for your receiver's front-end stages.

Optional bar elements are available for the MW and LF bands:

- 350L bar element: 0.2 - 0.54MHz
- 350M bar element: 0.54 - 1.6MHz

Using the LA350 active loop aerial

Connect the power supply to the rear panel DC input socket, the LA350 requires 12V DC at 150mA (requirement being 12 - 16V DC @ 150mA, actual measurement 120mA @ 12.5V, a 9V regulator is built-into the LA350 control unit). To minimise noise, keep the power supply as far away from the LA350 and receiver as practical. If using the optional 350L & 350M elements, you may wish to consider use of a low noise regulated power supply to reduce the effects of noise from diode rectifiers.

Connect the BNC-BNC coaxial lead (supplied) between the LA350 and your receiver's aerial input. If your receiver is fitted with a connector other than BNC, an appropriate adaptor must be used. Insert one receiving element into the top panel jack socket of the LA350 cabinet. Push the red front panel power switch, the green LED will illuminate to confirm that power is connected to the control unit.

Switch on the receiver and tune to the desired frequency (checking that you are using the appropriate aerial element). Rotate the tuning capacitor of the LA350 element (clockwise and anticlockwise) until the receiver's signal strength meter (S-meter) deflects to maximum and the incoming signal sounds clearest. If your receiver does not have an S-meter simply adjust for maximum received signal. Rotate the loop element until the signal is strongest and any interfering signal is nulled. It is advisable to locate the LA350 close to a window in order to achieve the best possible reception. The LA350 is NOT intended for transmit purposes. E&OE © AOR LTD, 2001

Supplied:

LA350	Control unit
350S	30cm loop element: 3.0 - 9.0MHz
350H	30cm loop element: 9.0 - 30MHz
BNC-BNC	Coaxial patch lead
AC power supply	*

Options:

350L	Bar element: 0.2 - 0.54MHz
350M	Bar element: 0.54 - 1.6MHz



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