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## HF Active Loop Antenna FAQs Read this before installation!

### What are the specifications?

The antenna covers 200 kHz to 70 MHz with additional extended coverage to 148 MHz.

### What DC power does it require?

The antenna needs a DC supply of 10 to 15 V capable of supplying 150 mA. A 2.5mm DC power plug is supplied with the base unit. The centre pin is positive and the outer sleeve is negative polarity.

### Is the feeder cable live?

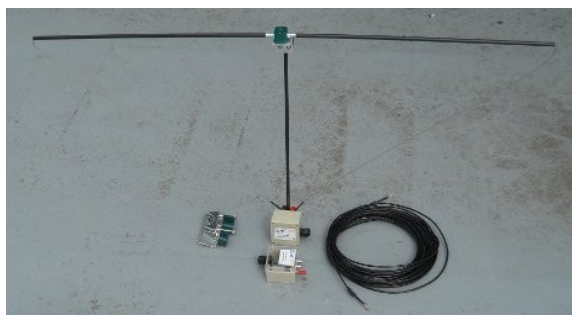
Yes, the supply voltage is fed up the feeder cable to power the low noise amplifier in the antenna. The current is limited by a large 22 ohm resistor in the base unit. Normally the red LED will glow faintly to show that the amplifier is working. If the red LED is glowing brightly then there is a short circuit in the feeder cable. The antenna uses a 20m ethernet cable to connect between the antenna head and base units.

### Where should the antenna be mounted?

For best results we recommend that the antenna is mounted outside as high as possible and as far away from other electrical wiring and cabling as possible to avoid pickup of radio interference. The loop design is excellent in rejecting local RF noise electrical fields so good results can be obtained when located in roof spaces and on balcony rails

### How can the antenna be mounted?

A mounting bracket is supplied with the antenna. A 25mm Stauff clamp is supplied for mounting to Clark Masts or Hilomasts telescopic masts. A 52mm clamp is also included for mounting on scaffold pole masts.



**Should the antenna be horizontal or vertical?**

We recommend that the antenna be mounted vertically.

**Where should the clamp go on the antenna?**

The clamp should be positioned near the base of the antenna as shown in the photo.

**What tools do I need to assemble the antenna?**

A 10 mm AF spanner and a 4 mm Allen key will be required to assemble the top section of the antenna as shown in the photo. The antenna is supplied partially assembled.

A 24 mm or 1" spanner is required to tighten the cable gland. Ensure that the nitrile rubber sleeve on the ethernet cable is slid into the cable gland so that tightening the gland makes a watertight seal.

A small Pozidriv or flat blade screwdriver is required to tighten the box lids after cable installation.

**Can I transmit with this antenna?**

The HF Active Loop Antenna is designed for receive use only. The base unit has diode limiter circuits to prevent damage from any accidental transmitting into the antenna

**Can I transmit near the antenna?**

Yes, the antenna amplifier is protected from excessive RF fields. The amplifier may be overloaded by a local transmitter a few metres away but it won't be damaged.

**Where can I get help or advice from other Cross Country Wireless Active Antenna users?**

Join the Cross Country Wireless Yahoo group:

[http://uk.groups.yahoo.com/group/cross\\_country\\_wireless/](http://uk.groups.yahoo.com/group/cross_country_wireless/)

