



Cross Country Wireless, 7 Thirlmere Grove, BOLTON, BL4 0QB, UK

Email chrism@crosscountrywireless.net

Web page <http://www.crosscountrywireless.net>

Telephone +44 (0) 1204 410626

Mobile +44 (0) 7752 391908

Yahoo group: http://uk.groups.yahoo.com/group/cross_country_wireless/

Broadband Active Antenna FAQs Read this before installation!

Important! Don't put excess load on the co-axial cable. Don't hang the feeder cable from the antenna connector. Fasten the feeder cable to your mast or structure so that it doesn't place any load on the antenna, cable or connector.

What are the specifications?

The antenna covers 200 kHz to 1400 MHz.

What DC power does it require?

The antenna needs a DC supply of 7 to 24 V capable of supplying 100 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.

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.

How can the antenna be mounted?

A 25mm Stauff clamp is supplied with the antenna. This can be bolted to a vertical plate or it can be mounted on a flat vertical wooden surface.

An aluminium bracket is also included with a 52mm clamp for mounting on a scaffold pole.

Should the antenna be horizontal or vertical?

The antenna should be mounted vertically.





Where should the clamp go on the antenna?

The clamp should be positioned near the base of the antenna. Don't clamp it more than 100 mm from the bottom of the antenna as it will screen the antenna element.

What connectors and cable do I need to connect the antenna and base unit?

A N type female connector at the antenna and a N male connector at the base unit will be required. Having gain of the amplifier in the antenna before the feeder cable allows good RF performance from low cost feeder cable such as RG-58u. If the antenna is mounted more than 50m from the antenna then RG-213u or Helix cable will be required.

Why is the cable gland not sealed around the cable?

For transportation by air we supply the antenna with the cable gland loosely fastened. Before use tighten the gland around the nitrile rubber sleeve over the cable to seal the antenna.

Can I transmit with this antenna?

The Broadband Active 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 Broadband Active Antenna users?

Join the Cross Country Wireless Yahoo group:
http://uk.groups.yahoo.com/group/cross_country_wireless/