

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

Email [chrism@crosscountrywireless.net](mailto:chrism@crosscountrywireless.net)  
Web page <http://www.crosscountrywireless.net>  
Telephone +44 (0) 1204 410626  
Mobile +44 (0) 7752 391908  
Groups.io: <https://groups.io/g/CrossCountryWireless>

## **VLF/LF/HF Active Vertical Antenna FAQs Read this before installation!**

### **What are the specifications?**

The antenna covers 5 kHz to 30 MHz.

### **What DC power does it require?**

The antenna needs a DC supply of 10 to 15 V capable of supplying 150 mA. A 2.1mm DC power plug is supplied with the base unit. The centre pin is positive and the outer sleeve is negative polarity.

The base unit has reverse polarity protection.

### **Is the feeder cable live?**

Yes, the supply voltage is fed up the coax 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 or connectors.

### **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 active vertical design is excellent in rejecting local RF noise electrical fields within 0.1 to 2 wavelengths but is very sensitive to noise sources within 0.1 wavelength.

### **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.

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

A 10 mm AF spanner is required to assemble the top element of the antenna as shown in the photo. The antenna is supplied partially assembled.

### **Can I transmit with this antenna?**

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

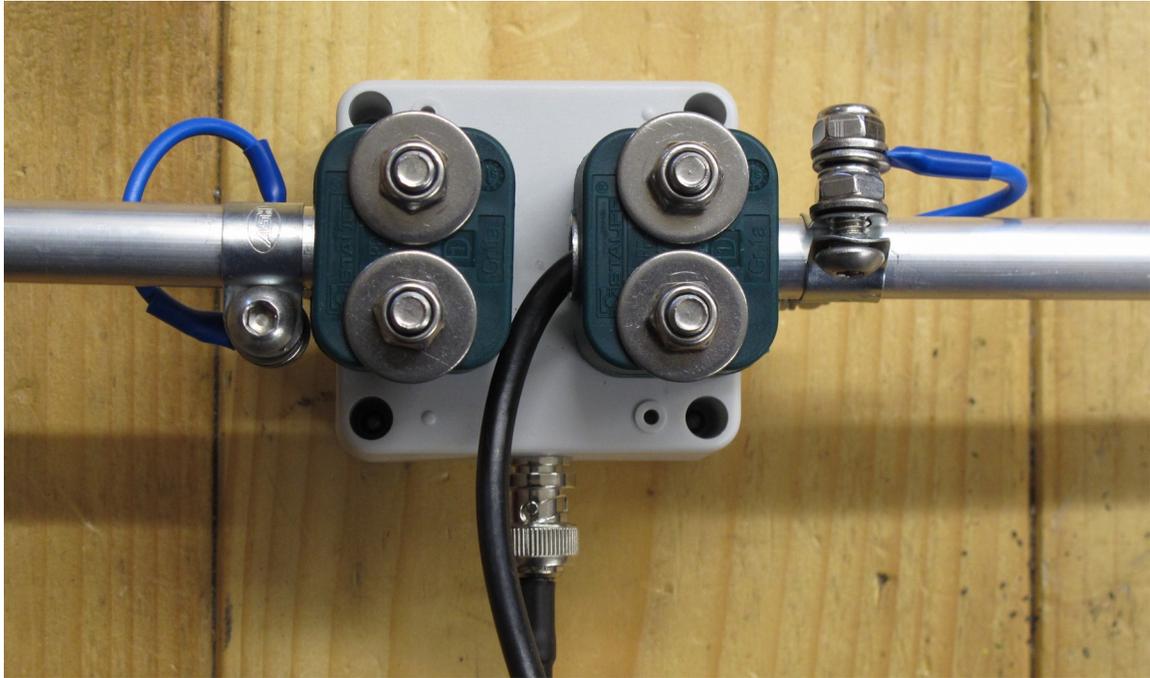


**Can I transmit near the antenna?**

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.

**Which is the antenna socket? Which is the receiver socket?**

The single BNC socket connects to the antenna and feeds DC power to it. The BNC socket next to the 2.1mm power socket connects to the receiver.



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

Join the Cross Country Wireless Groups.io group:

<https://groups.io/g/CrossCountryWireless>