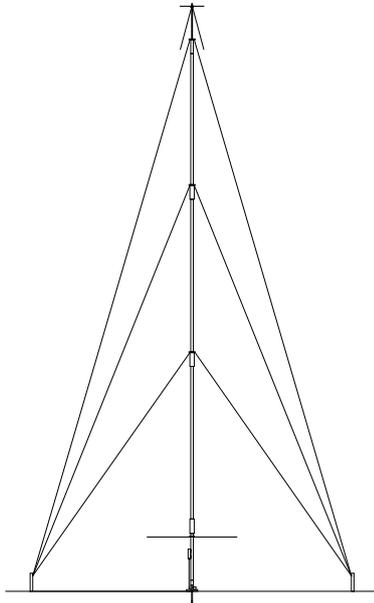




# Type BRX 1500

## Broadband 150 KHz to 1500 MHz receiving antenna system

The BRX1500 is designed to provide wideband reception of radio signals from LF through to the UHF bands. Output is provided via three 50Ω coaxial outputs in two frequency ranges: the LF, MF and HF bands, and the VHF band through to the UHF band. This system has particular application for military and para military services.



The main construction is from marine grade aluminium, nylon and stainless steel. It is supplied in sections as a semi-knockdown kit, which, when together, forms a 10m section with three sets of RF transparent guy ropes. Mounting is ideally over the ground via the swivel base mount, plate and earth spike and is easily achieved with two men and the use of the optional gin pole to “swing it up”. No special tools are needed. The system is supplied with comprehensive assembly instructions.

The principle of operation is that of a wideband system comprising three separate antennas within a single structure. Each antenna is arranged as follows:

**0.150 to 30 MHz:** A monopole fed via a broadband matching transformer and operating against ground.

**Note:** A foreshortened radial system is utilised to control HF band radiation characteristics.

**30 to 100 MHz:** An elevated centre fed vertical dipole connected via a broadband matching transformer

**100 to 1500 MHz:** An elevated broadband disccone, exhibiting broadband aperiodic qualities.

Connection is via the antenna interface unit which provides 50Ω coaxial outputs for each of the three frequency ranges. Also offered is an additional filtered HF outlet. This outlet permits improved HF performance by reducing breakthrough interference from strong MF/LF broadcast stations/beacons.

An erection kit which includes a gin pole and four triangular guy stakes is available as an option.

## Specifications

<b>Colour</b>	Standard is Bronze Olive. Optional other Colours to Order.
<b>Frequency Range</b>	0.15 to 1500 MHz
<b>Bands</b>	0.15-30 MHz, 30-1500 MHz
<b>Impedance (output)</b>	50Ω (nominal)
<b>Connection</b>	N type coaxial connectors (3) at base
<b>Earth Connection</b>	Ground spike (earth radials may be added)
<b>Polarisation</b>	Vertical
<b>Pattern</b>	Azimuth: omnidirectional; Elevation: 0.150-30 MHz and 100-1500 MHz similar to 1/4 wave monopole; 30-100 MHz similar to 1/2 wave monopole
<b>Overall Length</b>	10m (32.8ft)
<b>Wind Survival</b>	160 km/h (100 mph)
<b>Guy System</b>	3 sets (RF transparent)
<b>Guy Radius</b>	5m (20ft) recommended
<b>Base Mount</b>	Special ground plate, spike and swivel mount
<b>Total Weight</b>	40kg (88 lbs) antenna system and mount; 53kg (116.6 lbs) packed
<b>Packing</b>	The system is packed in 1 x 220mm diameter aluminium foil covered tube, 3300mm long and 1 box 360 x 360 x 190mm (the tube has two carry handles)

Specifications subject to change – Issued 07/13



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