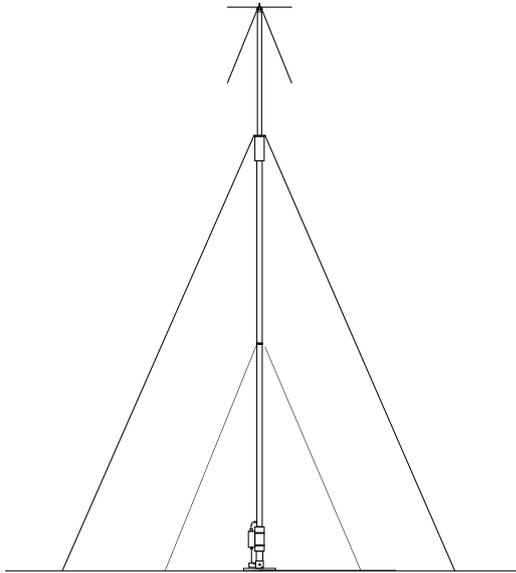




Type BRX 1500C

Compact 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 where site area is restricted or roof top mounting is preferred. Output is provided via three 50Ω coaxial outputs in three frequency ranges: the LF, MF and HF bands, the VHF band and the VHF/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 6m section with one set of RF transparent guy ropes. Mounting is ideally over the ground via the base plate and earth spike and is easily achieved with two men. 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.
- 30 to 100 MHz: An elevated centre fed vertical dipole connected via a broadband matching transformer
- 100 to 1500 MHz: An elevated broadband discone, 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.

Specifications

Colour	Standard is Bronze Olive. Optional other Colours to Order
Frequency Range	0.15 to 1500 MHz
Bands	0.15-30 MHz, 30-1500 MHz
Impedance (output)	50Ω (nominal)
Connection	N type coaxial connectors (3) at base
Earth Connection	Ground spike (earth radials may be added)
Polarisation	Vertical
Pattern	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
Overall Length	6m (20ft)
Wind Survival	160 km/h (100 mph)
Guy System	2 sets of 4 guys (RF transparent)
Guy Radius	3m (10ft) recommended
Base Mount	Special ground plate and spike
Total Weight	38kg (83.6 lbs) antenna system and mount packed; 8kg (17.6kg ground plane)
Packing	The system is packed in 1 x 214mm diameter aluminium foil covered tube, 3980mm long and 1 box 385 x 385 x 24mm (the tube has two carry handles)

Specifications subject to change – Issued 07/13

