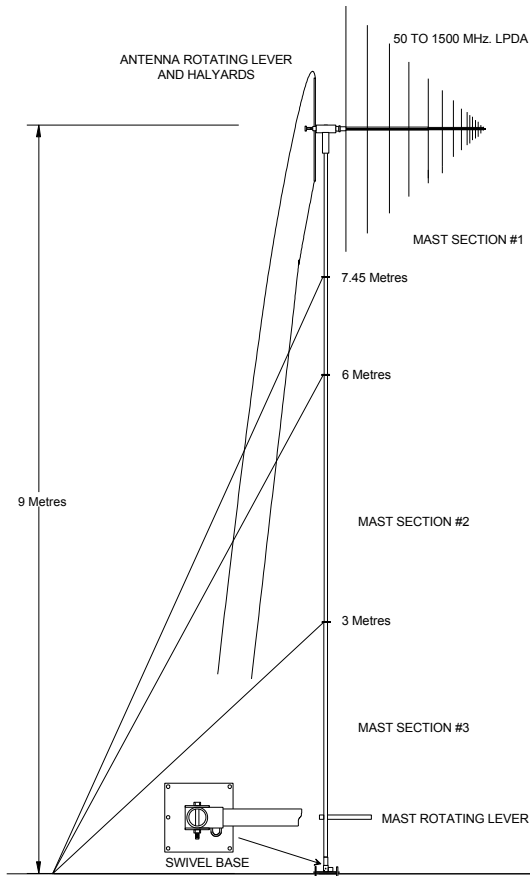


Type BRX1500D

Directional Broadband 50MHz to 1500MHz receiving antenna system

The BRX1500D is designed to provide wideband directional reception of radio signals from VHF through to the UHF bands. Output is provided via one 50Ω coaxial output in the frequency range: 50-1500 MHz.



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 9m section complete with RF transparent guy ropes. Mounting is either over the ground or on a roof top via the swivel base mount, plate and spikes (for ground) 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 directional wideband system comprising a 25 element log periodic array antenna which can be swivelled through 90 degrees allowing horizontal, vertical or slant polarisation to be selected prior to erection. The complete mast and antenna assembly can be rotated manually through 360° whilst erected.

The log periodic array has foldable elements, the longest of which is 1.5 metres with a boom length of 2 metres. The elements are attached via a fast deployment self locking device at points along the boom. The high frequency end elements are permanently attached to a sub-boom.

Standard colour is drab olive (other colours to order). An erection kit which includes a gin pole and four triangular guy stakes is available as an option.

Specifications

Frequency Range	50 to 1500 MHz
Impedance (output)	50Ω (nominal)
Gain	10dBi (nominal)
Connection	N type coaxial connector – 10m (32.8ft) of low loss flexible cable is supplied for connection to receiver
Polarisation	Vertical, horizontal or slant (adjustable)
Directionality	System may be rotated 360°
Overall Length	9m (29.5ft) mast; maximum 10.5m (34.5ft) in vertical configuration
Wind Survival	160 km/h (100mph)
Guy System	3 sets of 4 RF transparent guys complete with rope sliders and stakes
Guy Radius	5m (20ft) recommended
Base Mount	Special ground plate, spikes and swivel mount
Total Weight (approx)	44.5kg (98 lbs) antenna system and mount; 65kg (143 lbs) packed

Specifications subject to change 03/02