



M O O N R A K E R

Type BLP30-200

Directional Broadband transceiving antenna system 30MHz to 200MHz



The BLP30-200 is designed to provide wideband directional transmission of radio signals from 30 to 200 MHz. This system has particular application for military and para military services.

The principle of operation is that of a directional wideband system comprising a 11 element log periodic array antenna which can be erected at various angles for different polarisations.

The log periodic array has foldable long elements, the longest of which is 2.55 metres (8.4ft) with a boom length of 3.7metres (12.1ft). The longer elements are attached via a fast deployment self locking device at points along the boom. This permits the elements to fold along the boom itself. If required, we offer an option of a 2 piece boom breaking at the 2.6m (8.5ft) point. The shortest element is 274mm (0.9ft) long. For strength and durability high grade tubular stainless steel elements are utilised. Standard colour is drab olive and black (other colours to order).



Specifications

Frequency Range	30 to 200 MHz
Gain	5dBi (nominal)
Polarisation	Vertical/Horizontal/Slope
Pattern	Directional
Impedance (output)	50Ω (nominal)
VSWR	2.5:1 (typically 2:1)
Beamwidth (degrees)	219 (30 MHz) – 160 (250MHz)
Front to Back Ratio (dB)	4.9 (30 MHz), 16.0 (125 MHz), 12.3 (200 MHz)
RF Power	250W CW 1kW PEP
Length of Boom	3.7m (12.1ft); two piece boom
Width Element	2.55m (8.4ft), half element length at 30 MHz (NB elements are foldable)
Temperature	operation: -45 to +60 degrees C; storage -60 to +70 degrees C
Wind Survival	160 km/h (100mph)
Material	Boom: aluminium alloy; elements: stainless steel (tubular)
Connection	N type coaxial connector (male)
Storage Bag (option)	3800 x 100 x 100mm (12.5 x .3 x .3 ft) approx heavy duty canvass carry bag is offered as an option
Mounting	Gibbet type mounting with spigot or socket (to order) to suit mast attachment (please supply requirements)
Colour	Drab olive green (other colours to order)
Weights	Back of antenna: 7.5kg (16.5 lbs); front of antenna: 4kg (8.8 lbs); complete antenna 11.5kg (25.3 lbs); gibbet: 3.5kg (7.7 lbs)
Packed Weight	24kg (52.8 lbs)

Specifications subject to change 10/10

Moonraker Australia Pty. Ltd. A.B.N. 57 009 531 211

Tasmania Technopark, Dowsing Point 7010, Tasmania Australia

Website: www.moonraker.com.au Telephone 61 (0)3 6273 1533 Fax: 61 (0)3 6273 1749 Email: radiocom@moonraker.com.au