

M O O N R A K E R

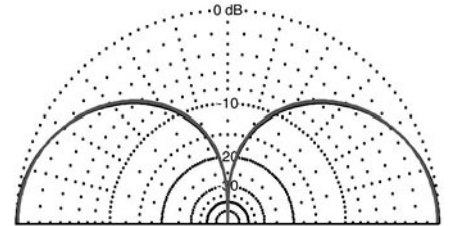
Type MDA Portable

Broadband VHF Surface to Air communications for Portable Transceivers



The MDA Portable is ideal for mobile and remote area operators using VHF Air Band communications.

The vertically polarised, ground independent centre fed dipole system offers excellent broadband performance both in transmit and receive modes across the band. The system has an integral passive matching network housed within the antenna. Radiation features beam tilt, being designed to maximise high angles for surface to air communications.



The system makes use of the existing transceiver coaxial RF connection and a shock cord system to enable fast deployment and increase communications range in the field. Antenna height ranges from 1.25m (4.1 ft) when fully extended to 460 mm (18.1 in) when collapsed.. Additional height can be achieved to raise the antenna above any obstructions, (forest canopy, areas in radio shadow, and the like) by inserting a pole or stick in the hollow antenna base. It is lightweight and fits easily into a back pack.

The 3 sections of the antenna break down into a 460mm (18.1 in) length when not deployed. Construction is of marine grade, low corrosion aluminium and stainless steel, finished with PVC and a high durability epoxy based coating, highly resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation. It is supplied with 1.35m (4.4ft) of coaxial cable and connector. All metal parts are at DC earth potential for static discharge and fittings are of nylon and chrome brass.

Please note that this antenna requires the transceiver to have a 50 ohm coaxial antenna connector for correct operation.

Specifications

VHF Band	VHF Air Band 118-137 MHz
Frequency Range	Broadband over 118-137 MHz range.
Overall Length	1.25 metres (4.1 ft),
Radiator Length	1.13 metres (3.7 ft), approx
Radiator Diameter	Ranging from 9.5 mm (0.375 in) at base to 8 mm (0.313 in)
Mounting Tube	22.23mm (0.87 in) Diameter
Pattern	Omnidirectional (azimuth), linear vertical with high angle radiation (elevation)
Polarisation	Vertical
VSWR	typically <2:1
Gain	2.2 dBi
Impedance	50Ω nominal
Power Capability	25W CW
Mountings	Hand held or via pole/stick inserted in base tube
Connection	1.35 metres RG174 co-axial cable with PL259 (UHF) plug, BNC, TNC, etc. (specify to suit transceiver)
Weight	Unpacked: 390g (13.8 ozs); Packed: 500g (17.6 ozs)

Specifications subject to change 10/08

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