



M O O N R A K E R

Type MD Portable

To extend the range of VHF handheld radios

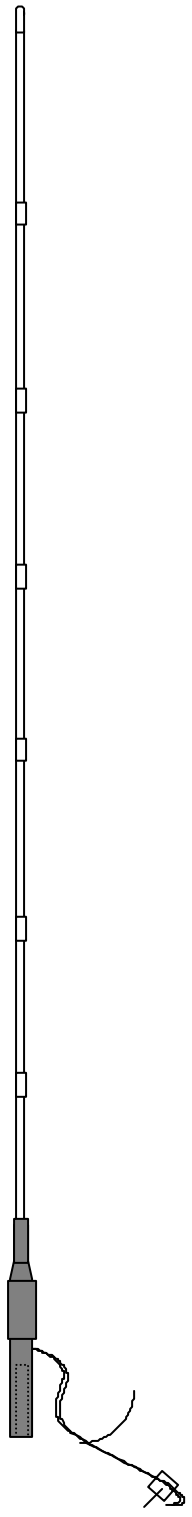
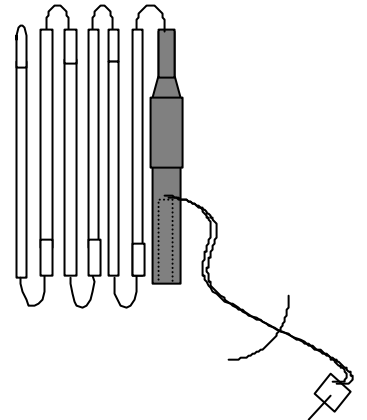
A collapsible half wave dipole radiator, designed to provide efficient VHF performance in both the transmit and receive modes in remote fringe areas for hand held transceivers where the standard short "rubber duckie" antenna is limiting range.

The MD Portable is ideal for remote area operators relying on VHF communications in difficult locations, especially emergency services, police, forestry and mining industry personnel. It is lightweight and fits easily into a back pack. The system makes use of the existing transceiver RF connector and a shock cord system to enable fast deployment and increase communications range in the field, then collapses to 320mm (12.5in) sections. Erect, antenna length varies from 1.3m (high band) to 2.2m (mid band) (4.3 to 7.2 ft). Additional height can be achieved to hoist 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.

The antenna radiator is constructed of marine grade, low corrosion, stainless steel. All metal parts are at DC earth potential for static discharge and fittings are of nylon and chrome brass. An internal isolator within the marine grade aluminium mounting pole protects the antenna feed connection from poles or sticks inserted to support the antenna.

It may be supplied tuned to any frequency in the VHF High or Low/Mid Bands and comes with 2m (6.6ft) of coaxial cable and connector. The number of sections varies with frequency.

Please note that this antenna requires the transceiver to have a coaxial antenna connector for the standard short rubber duckie antenna.



Specifications

VHF Band	High Band: 146-180 MHz	Low/Mid Band: 40-145 MHz
Overall Length	1.3metres (4.3 ft), approx	2.2 metres (7.2 ft), approx
Radiator Length	0.9 metres (3 ft), approx	1.73 metres (5.6 ft), approx
Radiator Diameter	6.4mm (0.25 in)	
Mounting Tube	22.23mm (7/8 in) Diameter	
Pattern	Omnidirectional, maximum radiation 90° to radiator	
Polarisation	Vertical	
Frequency Range	Pretuned to any specified VHF band frequency.	
Bandwidth	7 MHz	
VSWR	Better than 1.2:1 at centre frequency	
Gain	2.2 dBi	
Impedance	50Ω nominal	
Power Capability	60 watts	
Mountings	Hand held or via pole/stick inserted in base tube	
Connection	2 metres RG58 co-axial cable with PL259 (UHF) plug, BNC, TNC, etc. (specify to suit transceiver)	
Weight	Unpacked: 300g (10.6 ozs); Packed: 440g (14 ozs)	

Specifications subject to change 5/02

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