

Type MW30512

Multiband VHF Tactical Military Land Mobile Antenna System

Designed to provide high performance wideband communications in military tactical environments across the bands from 30 to 512 MHz with minimal signal attenuation.

The Moonraker MW30512 is intended for mounting on a military vehicle. It is lightweight yet highly ruggedised to withstand the demanding environments experienced by military vehicles in battlefield conditions and can survive impacts of 25 blows at 40 km/h (25 mph) with a 102 x 102mm (4 x 4 in) oak beam. Minimal maintenance is required.

The dipole system requires no matching or tuning and may be used with both frequency agile and fixed frequency transceivers. Radiation is vertically polarised and omnidirectional in the azimuth plane. Built-in over high voltage protection is available as an option.

The antenna radiator is in two screw together sections. Construction is from high strength composite resin impregnated housing fitted, fully coated and insulated with a high durability epoxy based coating highly resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation. Normal finish is drab olive green with other colours to order (including desert sand). The antenna base is both flexible and shock resistant being comprised of high durability black nylon and a barrel spring.

The system is fully compatible with standard NATO specifications using a standard NATO footprint mount.

Specifications

Frequency Range	30-512 MHz.
Overall Length	3600mm (12ft) approx.
Impedance	50Ω nominal
Power Capability	100W CW, 140W PEP
VSWR	Better than 3.5:1, typically 2.5:1
Gain	+/- 6dBi
Pattern	Omnidirectional
Polarisation	Vertical Linear
Environmental	-50 to +65°C (-60 to 150°F), 0-100% humidity
Vibration	MIL-STD 167-1 Type 1
Wind Survival	224 km/h (140mph)
Ice Loading	22 kg/sq m (4.5 lbs/sq ft)
HV Protection	13.5 kV upon contact with high voltage power line or high voltage source (optional)
Connector	Standard type BNC female; other types to order
Mounting	NATO standard base mounting assembly: 140mm dia flange with 4 x 11mm holes drilled on 114.3mm dia pitch circle. Incorporates barrel spring.
Weight	4.5kg (10 lbs)

Specifications subject to change 08/10

