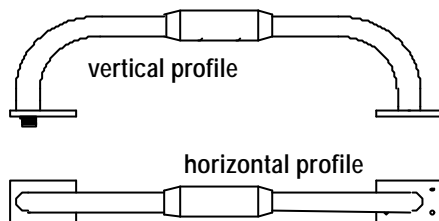


MOONRAKER Type LPD S/L

Low Profile Disguise Heavy Duty VHF or UHF Semi Loop Antenna System

The Moonraker type LPD S/L is designed to provide efficient VHF or UHF communications where visual impact or covert requirements restrict the use of standard antennas and where conventional systems are prone to damage due to hostile environments and harsh use.



The antenna fits snugly on the top or side of vehicles, where it blends in well, resembling a typical vehicle hand rail and may even be used as a hand hold. The profile extends only 122mm (4.8 in) from the vehicle. It is especially suitable for heavy vehicles from military transports to underground mine machinery and trains.

The antenna elements are housed within the semi loop and protected by a central external nylon shroud. This extremely rugged housing is designed to withstand shock impact from external objects, such as accidental scraping on mine tunnel ceilings and walls and attempts to render it inoperative by vandals and thieves. Construction is of brass finished with a high durability epoxy based coating, highly resistant to chemical attack, abrasion and the effects of ozone and ultra-violet radiation.

The vehicle roof or bodywork provides the antenna ground plane. The antenna is mounted flush to the vehicle roof via a brass plate at either end. Cable entry is via a UHF, N type or other suitable connector at one end. The connection may be made externally at the side of the vehicle by overhanging the mounting plate sufficiently, or through the vehicle roof.

The antenna may be supplied tuned to any frequency in the range. Antenna length and bandwidth vary according to frequency. At standard frequencies 148-175 MHz and 400-512 MHz antenna length is 460mm (18 in).

Specifications

Frequency Ranges	Standard: VHF 148-174 MHz and UHF 400-512 MHz; also available 118-137 MHz and 70-75MHz
Bandwidths	148-175 MHz 20MHz at <5:1 VSWR, 3MHz at <1.5:1 VSWR; 118-137 MHz 3 MHz at <2:1 VSWR; 70-85 MHz 1 MHz at <2:1 VSWR 400-512 MHz 20 MHz at <2:1 VSWR;
Antenna Height	122mm (4.8 in)
Antenna Length (footprint)	148-174 and 400-512 MHz: 460mm (18 in); 118-137 MHz 600mm (24 in); 70-85 MHz 900mm (36 in)
Gain	Unity
Power	100w CW; higher power to order
Polarisation	Predominantly vertical
Radiation Pattern	Omnidirectional
Impedance	50Ω (nominal)
Connection	UHF, N type or other suitable connector (please specify)
Mountings	Via screws through mounting plates to the metal roof
Weight (Antenna)	1.6 kg (3.52 lbs)
Packed Weight	2 kg (4.4 lbs) approx