

- **90cm & 1.2m reflector options**
- **Dual optic SMC antenna**
- **Exceptional value**
- **Compact and robust**
- **Simple auto-acquire satellite control**

Compact

The VM antenna is a high quality roof mount system which encompasses the drive control, positioning hardware and amplifier into the antenna enclosure, making the system a robust standalone sub-assembly ready to install onto almost any vehicle.

Auto-Acquire

The satellite acquisition controller uses industry standard position transducers and a sophisticated pattern recognition algorithm to confirm and refine its heading information using visible satellites. The controller is mounted on the antenna structure with a separate power supply and control panel in a rack mount unit for mounting within the equipment area.

Easy of use

The system is simple to install, set up and use. Following relocation of the antenna, the system will reliably and accurately locate and lock on to the designated traffic satellite rapidly within minutes.



Options :-

Vehicle mounting brackets
De-ice kit
3 axis Jog-controller
Auto-pointing controller
Inclined orbit tracking controller

Specifications:-

VM120

VM90

Mechanical Data

Antenna Width :	123 cm	90cm
Antenna Height :	127 cm	99 cm
Geometry :	Offset, dual optic	Offset, dual optic
Reflector Material :	SMC	SMC
Weight :	100kg	90kg
Feed Interface :	WR 75	WR 75
Azimuth Range :	+/- 185°	+/- 185°
Elevation Range :	10~90°	10~90°
Polarisation Range :	+/- 95°	+/- 95°
Operating Temperature :	-30°C~+60°C	-30°C~+60°C

Electrical Data

Receive

Polarisation :	Linear	Linear
Frequency Band :	10.7 ~12.75 GHz	10.7 ~12.75 GHz
Gain @ 12.5 GHz :	41.8 dBi	38.3 dBi
G/T (30° elevation) @ 12.5 GHz :	21 dBK	17.5dBK

Transmit

Polarisation :	Linear orthogonal	Linear orthogonal
Frequency Band :	13.75 ~14,5 GHz	13.75 ~14.5 GHz
Gain @ 14.25 GHz :	43 dBi	40 dBi

VSWR : 1.3 : 1 max 1.3 : 1 max

Isolation Rx / Tx (13.75~14.5 GHz) : 40 dB min 40 dB min
 Isolation Tx / Rx (10.75~12.75GHz) : 75 dB min 75 dB min

