

1.5 Meter Vehicle-Mount / Drive Away SNG Antenna System

C-Band Option

Description

Type: DH 1.5 Meter VM Ku-band Antenna

1.5 Meter Vehicle-Mount / Drive Away SNG Antenna System is a sleek, simple to operate auto-deploy VSAT terminal which can be mounted on the roof of a vehicle. It is suitable for the most demanding applications. Its reflector optics feature a long focal length for excellent cross-pol performance. All three motorized axes have very low backlash and work together seamlessly with sophisticated integral sensors and Controller to ensure excellent pointing accuracy.

Key Features

- 1-Piece Carbon fiber folding Reflector.
- Pre-Assembled Tripod Base Mount w/Pull Pins.
- Ku and Ka Band Feed Systems Available.
- Sturdy Boom Accommodates Outdoor Units.
- Adjustable Feet for Uneven Surfaces.
- Optional Lightweight Cases for Easy Transportation.



RF & Antenna Specifications		
Ku-band Linear	Receive	Transmit
Frequency, GHz	10.95-12.75	13.75-14.5
Mid-Band Gain, dBi	43.5	44.8
VSWR	1.3:1	1.3:1
3dB Beam Width, deg	1.29	1.18
Noise Temperature		
20 Deg Elevation, K	58	
30 Deg Elevation, K	47	
Typical G/T @ 10 Deg, dB/K	21.5	
Tx Power Capability, W		500
Port to Port Isolation		
Tx> Rx Rejection, dB		85
Cross-pol on Axis, dB	35	35
Insertion Loss, dB	0.4	0.5
Radiation Pattern Compliance	FCC 25.209, ITU-RS.580-6,	
First sidelobe, dB	≤ -14	
Sidelobe Envelope	29 - 25 log(1° ≤ θ < 20°)	
Feed Interface	WR-75 CPR	

Mechanical Specifications

Antenna Optics	Single Offset	
Reflector Aperture	1.5 Meters (4.9Feet)	
Reflector Material	Carbon Fiber Reinforced Polymer	
Reflector Panels	1-piece	
Surface Accuracy (RMS)	0.35 mm	
Elevation Travel	0 to 90 ° Continuous,	
Azimuth Travel	± 180° Continuous,	
Pol. Travel	± 95° Continuous, Self Locking,	
Axes Velocities	Elevation	0.5°/S-3°/S
	Azimuth	0.5°/S-3°/S
	Pol.	0.7° /S
Power Supply	AC110 ~ 230V 50/60Hz	
Auto-acquisition mode	Beacon pointing/DVB	
Tracking Accuracy	0.045°	
Shipping Case	1 Case, airline checkable (IATA-compliant)	
Case Size	1860*1520*450mm	
Total Weight	120Kg (without BUC)	
Environmental Performance		
Operational Wind	47km/h (29mph) with ballast	
Temperature	-40° C to +50° C	
Tightness class	IP67(Dust and Water Resistant)	
Humidity	0-98%	