

# RM-150

1.5m Ku Band

Vehicle Mount Terminal

# holkirk

a SEMATRON  company

Eutelsat Characterised

DSNG Antenna in Ku band



The RM-150 is Eutelsat characterised in both full auto-point and manual jog versions of this DSNG Antenna from Holkirk, designed to excel in today's demanding DSNG environment.

With a well proven track record the RM series of antennas will provide many years of service in the harshest applications.

**1.5m High gain carbon fibre reflector**

**Up to 400w Integrated 1:1 Tx power**

**Fully enclosed aerodynamic cowl**

**Low stow height**

**Colour options available**

**X, Ku, DBS, Ka band options**

**BUC mounting on boom or within the cowl**

**Manual over rides on all 3 axis**

A powerful, accurate and smooth positioning system accurately points the antenna at the touch of a button and stows it after use into the compact but aerodynamic cowl which also houses the BUC/HPA making the system a robust standalone sub-assembly ready to install onto almost any vehicle.

The antenna controller uses high accuracy feedback and a sophisticated pattern recognition algorithm to confirm and refine its heading information using visible satellites.

The system is very simple to install, set-up and use with a fast acquisition time of typically less than 3 minutes from stowed.

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### SPECIFICATION

#### Antenna

Reflector material	-	1.5m carbon fibre
f/D	-	0.78
Geometry	-	Single offset
Ambient Temperature		
Operational	-	-20°C to +55°C
Storage	-	-40°C to +70°C
Solar Radiation	-	1,200 W/m <sup>2</sup>
Operating Humidity	-	100% Condensing
Altitude		
Operational	-	Up to 3,000m (9,850 ft)
Survival	-	Up to 10,000m (32,800 ft)
Wind Speed		
Operational	-	40 mph (65 kph)
Stowed	-	100 mph (160 kph)
Azimuth Range	-	± 220°
Elevation Range	-	5 - 90°
Stow Height	-	49 cm
Overall Length	-	192 cm
Overall Width	-	154 cm
Overall Weight	-	105 kg

#### Electrical Data

##### X Band

Gain Rx	-39.5 dBi
Frequency	-7.25 to 7.75 GHz
Gain Tx	-40.3 dBi
Frequency	-7.9 to 8.4 GHz

##### Ku Band

Gain Rx	-43.7 dBi
Frequency	-10.7 to 12.75 GHz
Gain Tx	-45.5 dBi
Frequency	-13.75 to 14.5 GHz

##### DBS Band

Gain Rx	-43.4 dBi
Frequency	-10.7 to 12.75 GHz
Gain Tx	-47.2 dBi
Frequency	-17.1 to 18.4 GHz

##### Ka Band

Gain Rx	-47.1 dBi
Frequency	-18.2 to 21.2 GHz
Gain Tx	-51.0 dBi
Frequency	-27.5 to 30.0 GHz

#### Accessories

Manual jog, auto-acquire or inclined orbit tracking controller | RF mounting options | High stability LNB | 3 port feed option for Ku band | 1:1 Redundancy

