

# RM-150

## Eutelsat Characterised DSNG Antenna in Ku Band

Vehicle Mount Terminal: 1.5m, X, Ku and Ka 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.



- Fully enclosed aerodynamic cowl
- 1.5m high gain carbon reflector
- BUC mounting on boom or within the cowl
- Up to 400w integrated 1:1 Tx power
- X, Ku & Ka bands
- Fully auto-pointing
- Low stow height
- Manual over rides on all 3 axis

## AIM Assist

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 stand alone subassembly ready to install onto almost any vehicle.

The Holkirk 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.

## Technical Information

### Antenna Data

Reflector material	Carbon fibre
f/D	0.8
Geometry	Single offset
<b>Ambient Temp</b>	
Operational	-20°C - +55°C
Storage	-40°C - +70°C
Solar radiation	1,200 W/m <sup>2</sup>
Operating humidity	100% condensing
<b>Altitude</b>	
Operational	3,000m (9,850ft)
Survival	10,000m (32,800ft)
<b>Wind Speed</b>	
Operational	40mph (35kph)
Survival (deployed)	60mph (97kph)
Azimuth range	±200°
Elevation range	5 - 90°
Polarisation	±95°
Overall length	192cm
Overall width	154cm
Overall weight	95kg

### Electrical Data

<b>X Band</b>	
TX Frequency	7.9-8.4 GHz
RX Frequency	7.25-7.75 GHz
Gain TX	40.3 dBi
Gain RX	39.5 dBi
<b>KU Band</b>	
TX Frequency	13.75-14.5 GHz
RX Frequency	10.7-12.75 GHz
Gain TX	45.5 dBi
Gain RX	43.7 dBi
<b>Ka Band</b>	
TX Frequency	27.5-30.0 GHz
RX Frequency	18.2-21.2 GHz
Gain TX	51.0 dBi
Gain RX	47.1dBi

