

Ku-Band

RM120 DSNG Antenna



- Quick deploy assembly (under 5 minutes)
- 1.2m reflector options
- SMC or carbon fibre antenna
- Exceptional value
- Up to 400W integrated 1:1 Tx power
- 3 axis manual jog controller
- Auto pointing controller
- High stability LNB
- Inclined orbit tracking controller
- RF and encoding packages

The RM series of DSNG antennas from Holkirk are designed to excel in today's demanding DSNG environment. With excellent attention to mechanical detail and high performing materials selection, the RM series of Antennas will provide many years of continuous service in the harshest of applications.

COMPACT

The RM antenna is an ultra-compact roof mount system which encompasses the drive control, positioning hardware and BUC/HPA into the aerodynamic antenna enclosure, making the system a robust standalone subassembly ready to install onto almost any ehicle.

VERSATILE

The versatile power-payload of the RM antenna series has been designed to take low power SSPAs or high power TWTs in single thread or 1:1 redundant configurations with power levels up to 400W.

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.

EASE 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, typically in less than 3 minutes from stowed.

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SPECIFICATION

Mechanical Data

Antenna width:	123cm
Antenna height:	127cm
Geometry:	Offset, Dual Optic
Reflector material:	SMC
Weight:	100kg
Speed: Elevation:	Fast: 2°/Sec Slow: 0.5°/Sec
Azimuth:	Fast: 5°/Sec Slow: 1°/Sec
Feed interface:	WR 75
Azimuth range:	+/- 220°
Elevation range:	5 to 90°
Polarisation range:	+/- 95°
Operating temperature:	-20°C~+50°C
Wind speed operational:	40mph (68kph)
Stowed:	100mph (161kph)

Electrical Data

Receive

Polarisation:	linear
Frequency band:	10,7 ~ 12,75 GHz
Gain @ 12.5 GHz:	41.8 dBi
G/T (30° elevation) @ 12.5 GHz:	21 dBK

Transmit

Polarisation:	linear
Frequency band:	13.75 ~ 14,5 GHz (operational 13.0 – 13.25GHz)
Gain @ 14.25 GHz:	43 dBi
VSWR:	1.3 : 1 max
Isolation Rx / Tx (13.75~14,5 GHz):	40 dB min
Isolation Tx / Rx (10.75~12,75GHz):	75 dB min

