

The DRM150 is a Muti-Band tactical antenna system from Holkirk with a unique no-tools, quick change frequency cartridge solution



With excellent attention to mechanical detail and high performing materials selection, the DRM series of Antennas will provide many years of continuous service in the harshest of applications.

COMPACT

The DRM antenna is an ultra-compact tri-band system which encompasses the drive control, positioning hardware and beacon receiver into the fully sealed and aerodynamic antenna enclosure, making the system a robust standalone sub-assembly ready to install onto almost any vehicle.

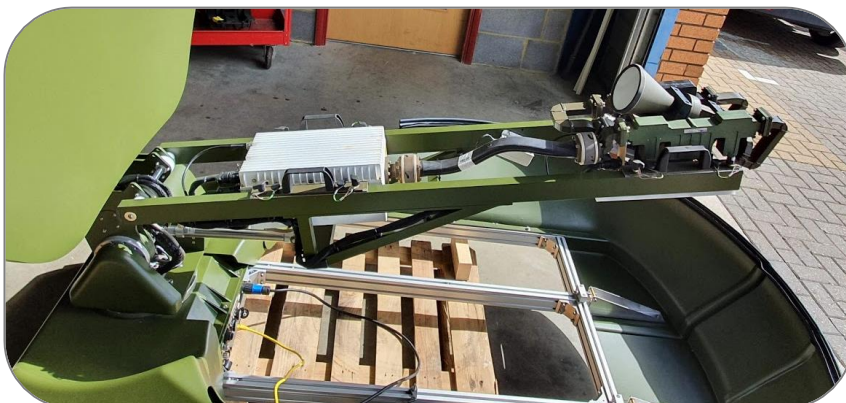
VERSATILE

The multi-band operation has been designed for effortless change over in the field. The feed, BUC and waveguide for each band is mounted on a simple and quick interchange cartridge which means the only connections you need to make are power, L-Band and control.

EASE OF USE

There are no tools required to change the band of operation. All satellite acquisition commands are performed via the simple and easy to use antenna controller unit. The DRM system is equipped with a GPS receiver, electronics compass and levelling inclinometers.

- Quick change feed cassette (X / Ku / Ka)
- Up to 80W X-Band / 50W Ku-Band / 20W Ka-Band
- Full auto-pointing capability with AIM MOBILE
- Single thread or 1+1 redundant RF
- Integrated BUC, LNB and waveguide
- Single thread or 1+1 redundant RF
- 1.5m high gain carbon fibre reflector
- Full fairing aerodynamic housing
- High wind loading
- Rotary joints on all axis
- Simple load spreading vehicle mounting



DRM150

X/Ku/Ka Tri-band antenna



Specifications

Antenna width:		150 cm
Antenna height:		52 cm
Geometry:		Single offset
Reflector material:		Carbon fibre
Weight:		100kg
Speed: Elevation	Fast	2°/Sec
	Slow	0.5°/Sec
Azimuth	Fast	5°/Sec
	Slow	11°/Sec
Feed interface:		WR 75
Azimuth range:		+/- 220°
Elevation range:		5 to 90°
Polarisation range:		+/- 95°
Operating temperature:		-20°C to +50°C
Temperature specification for survival		-30°C~+60°C
Wind speed	operational:	40mph (68kph)
	Stowed:	100mph (161kph)
Power Handling:		>400W
Antenna Radiation Pattern:		ITU-RD-580-5
Pointing Loss:		Better than 0.2dB

	X-Band	Ku-Band	Ka-Band
Receive			
Polarisation:	Circular	Linear	Circular
Frequency band:	7.25 – 7.750GHz	10.95 – 12.75GHz	17.7 – 22.2GHz
Gain @ mid band:	38.7 dBi	43 dBi	47.0 dBi
G/T (20° elevation):	>17 dB/k	>21 dB/k	>23 dB/k
Transmit			
Polarisation:	Circular	Linear	Circular
Frequency band:	7.90 – 8.40GHz	13.75 – 14.5 GHz	27.5 – 31GHz
Gain @ mid band:	40.3dBi	44.7dBi	50.6dBi
Cross Polarisation:	-30dB	-35dB	-30dB
RF Power	80W	50W	20W