

1501



TECHNICAL SPECIFICATIONS

The iNetVu® 1501 Drive-Away 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 the iNetVu® 7710 Controller to ensure excellent pointing accuracy.



Features

- 1.5m Offset, prime focus, carbon fibre reflector
- Low stow height
- Designed to work with the iNetVu® 7710 Controller
- Supports hand cranks
- Supports up to 100W Redundant BUC directly on feed arm
- One button, auto-pointing controller acquires any satellite within 2 minutes
- Optimal high-precision antenna pointing
- Includes jog controller functions
- Remote access and operation via network, web and other interfaces
- Modular design makes all major aspects of the antenna field serviceable
- Standard 2 year warranty

Application Versatility

The 1501 drive-away system is easily configured to provide instant access to satellite communications for any application that requires reliable and/or remote connectivity in a rugged environment. Ideally suited for applications that require a quick, simple set-up typically for industries such as SNG, Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.

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INTEGRATED SATELLITE SOLUTIONS

Specifications are subject to change

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Mechanical

Reflector Size & Material	1.5m Carbon Fibre
Platform Geometry	Elevation over Azimuth
Offset Angle	16.97°
Antenna Optics	One-piece offset feed, prime focus
Azimuth Travel	± 180°
Elevation Look Angle	0° to 90°
Polarization Travel	± 95°
Elevation Deploy Speed	2°/sec
Azimuth Deploy Speed	6°/sec
Peaking Speed	0.2°/sec
Motor Voltage	24 VDC 10 Amp (Max.)

Environmental

Wind loading	
Operational	72 km/h (45 mph)
Survival	
Deployed	112 km/h (70 mph)
Stowed	160 km/h (100 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Solar Radiation	1000Kcal/h/m (360 BTU/h/sq. ft.)
Rain	10 cm/h (4 in/h)
Humidity	0-100% (condensing)
Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures	
Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked	
Shock Test per IEC 60068-2-27	

Antenna Bands

Transmit Power ⁽¹⁾	1 to 200 watt						
Feed	2 Port XPol						
			<i>Ku-Linear</i>	<i>C-Linear ⁽³⁾</i>	<i>C-Circular ⁽³⁾</i>	<i>Ka - Linear R/O ⁽³⁾</i>	
	Receive	Transmit	Receive	Transmit	Receive	Receive	
Frequency (GHz)	10.70 - 12.75 ⁽²⁾	13.75 - 14.50	3.40 - 4.20 ⁽²⁾	5.850 - 6.725	3.625 - 4.20 ⁽²⁾	5.850 - 6.425	17.70 - 21.2 ⁽²⁾
Feed Interface	WR75	WR75	CPR-229	N or CPR-137	CPR-229	N or CPR-137	WR42
Midband Gain Co-Pol (± 0.2dBi)	43.70	45.00	33.40	37.20	33.30	37.10	
Antenna Noise Temp. (K)	10° EL = 65 / 20° EL = 58		10° EL = 45 / 20° EL = 40		10° EL = 41 / 20° EL = 36		
Sidelobe Envelope, Co-Pol (dBi)	Meets ITU 580, INTELSAT		IESS 601 STD G		29-25 Log Ø		
1.5° < Ø < 20°			-3.5		-3.5		
20° < Ø < 26.3°			32-25 Log Ø		32-25 Log Ø		
26.3° < Ø < 48°			-10 (Typical)		-10 (Typical)		
48° < Ø < 180°			> 30 dB		N/A		
Cross-Polarization on Axis	> 35 dB		> 26 dB		N/A		
Within 1 dB Beamwidth	> 30 dB		> 60 dB		> 60 dB		60 dB
Tx/Rx Isolation	> 40 dB	90 dB	1.5:1	1.3:1	1.5:1	1.3:1	
VSWR	1.3:1	1.3:1					

Notes:

- ⁽¹⁾ Depending on size and weight for feed arm mounting limitation
- ⁽²⁾ LNB PLL Type required with stability better than ± 25 KHz
- ⁽³⁾ Call your C-COM sales representative for availability

Electrical

Rx & Tx Cables	2 RG6 Cables - 10 m (33 ft) each
Control Cables	
Standard	10 m (33 ft) Extension Cable
Optional	Up to 30 m (100 ft) available

RF Interface

Radio Mounting	Feed arm/Inside vehicle
Coaxial	RG6U F Type N Type (optional)
Axis transition	Rotary Joint + Twist-Flex Waveguide

Physical

Stowed dimensions	L: 203 cm (79.9")	W: 154 cm (60.5")
	H: 49 cm (19.25")	
Reflector Weight	11.3 kg (25 lbs)	
Platform Weight	72.7 kg (160 lbs)	
Total Platform Weight	84 kg (185 lbs)	

Shipping Weights & Dimensions*

Platform Crated: 211 cm x 41 cm x 61 cm (83" x 16" x 24"), 118 kg (260 lbs)
 Reflector Crate: 168cm x 168cm x 48cm (66" x 66" x 19"), 116.3 kg (256 lbs)
 Total Weight: 234.3 kg (516 lbs)

*The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

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