

1500

iNetVu[®]
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu 1500 Drive-Away Antenna is a 1.5m auto-acquire satellite antenna system which can be mounted on the roof of a vehicle for direct broadband access over any configured satellite. The system works seamlessly with the iNetVu 7000 Controller providing fast satellite acquisition within minutes, anywhere anytime.



Features

- One-Piece precision mold, offset feed, carbon fibre reflector
- Heavy duty mount for up to 11kg (25lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu 7000 controller
- Works seamlessly with the world's most popular commercially available satellite modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any Ku or C band satellite within 2 minutes
- Locates satellites using the most advanced satellite acquisition methods

Application Versatility

If you operate in Ku or C band, the 1500 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 industries such as Oil & Gas Exploration, Military Communications, Disaster Management, SNG, Emergency Communications Backup, Cellular Backhaul and many others.

www.c-comsat.com
(613) 745-4110 (877) 463-8886

C-COM
SATELLITE SYSTEMS INC.

Specifications are subject to change.

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TECHNICAL SPECIFICATIONS

Mechanical

Reflector	1.5 m Carbon Fibre Reinforced Polymer
Reflector Configuration	Parabolic Single Offset, 0.78 F/D (16.9° offset)
Mount Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass ± 2° Tilt sensor ± 0.2°
Azimuth	Full 360° in overlapping 200° sectors
Elevation	0 - 75°
Polarization	±90°
Elevation Deploy Speed	Variable 2°/sec typ
Azimuth Deploy Speed	Variable 15°/sec max
Peaking Speed	10°/sec typ 0.2°/sec

Environmental

Survival	
Wind Deployed	112 km/h (70 mph)
Wind Stowed	225 km/h (140 mph)
Temperature	-40°C to 65°C (-40°F to 150°F)
Rain	15 cm/h (6 in/h)
Operational	
Rain	10 cm/h (4 in/h)
Wind	72 km/h (45 mph)
Temperature	-30°C to 55°C (-22°F to 130°F)
Relative Humidity	0 - 100%
Solar Radiation	360 btu/h/ft ² (1000 Kcal/h/m ²)
Radial Ice (survival)	2.54 cm (1")
Corrosive Atmosphere	As encountered in coastal and / or industrial areas

Electrical

Tx & Rx cables	2 RG6 cables (9.1m or 30 ft each)
Control Cables	
Standard	9.1m (30 ft) Ext. Cable with MIL Connectors
Optional	upto 75m (246 ft) available

RF Interface

Radio Mounting	Feed Arm / Rear of Base / Inside Vehicle
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feedhorn to Base
Feed	2 port Xpol

Physical

Mounting Plate	L: 132 cm (52") W: 56 cm (22")
Stowed Dish Ext. Dims	L: 189 cm (74.5") W: 154 cm (60.5") H: 49 cm (19.25")
Deployed Height	180 cm (71") Max.
Reflector Weight	7.3 kg (16 lbs)
Total Weight w/ Reflector	83.2 kg (183 lbs)

Motors

Electrical Interface	12V DC 15 Amp max.
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2 Port Cross Pol (Ku Band)

	Receive	Transmit
Standard Frequency (GHz)	10.70-12.75	13.75-14.5
Gain (Midband, dBi)	43.6	44.9
Noise Temperature (°K)		
10 deg EI	65	
20 deg EI	58	
Cross Pol		
On Axis	-35 dB	-35 dB
in 1 dB BW	-28 dB	-28 dB
Sidelobe Compliances	Meets ITU 580, INTELSAT	
VSWR	1.50:1	1.30:1
Isolation		
Tx / Rx	-85 dB	0 dBminput
Rx / Tx	0 dB input	-35 dB

Port C Band (Linear)

	Receive	Transmit
Standard Frequency (GHz)	3.4-4.2	5.850-6.725
INSAT Frequency (GHz)	4.5-4.8	6.725-7.025
Gain (Midband, dBi)	33.4	37.2
Noise Temperature (°K)		
10 deg EI	45	
20 deg EI	40	
Cross Pol		
On Axis (Std)	-30 dB	-30 dB
On Axis (INSAT)	-35 dB	-35 dB
in 1 dB BW	-26 dB	-26 dB
Sidelobe Compliances	IESS 601 Std G	
VSWR	1.50:1	1.30:1
Isolation		
Tx / Rx (Std)	-60dB	0 dBm input
Tx / Rx (INSAT)	-70 dB	
Rx / Tx	0 dBm input	-35 dB

2 Port C Band (Circular)

	Receive	Transmit
Standard Frequency (GHz)	3.625-4.200	5.850-6.425
Gain (Midband, dBi)	35.4	39.5
Noise Temperature (°K)		
10 deg EI	41	
20 deg EI	36	
Sidelobe Envelope, Co-Pol (dBi)		
2.8° < Ø < 20°		29 - 25 Log Ø
20° < Ø < 26.3°		-3.5
26.3° < Ø < 48°		32-25 Log Ø
48° < Ø < 180°		-10
VSWR	1.50:1	1.30:1
Feed Interface	CPR-229	Type N or CPR-137
Isolation (Port to Port)	-60dB	-60dB

Warranty

Standard	2 years
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