

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® 7000C Controller providing fast satellite acquisition within minutes, anytime anywhere.



Features

- One-Piece precision mold, offset feed, carbon fibre reflector
- Heavy duty platform for up to 11kg (25 lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu® 7000C 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
- Standard 2 year warranty

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.

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SATELLITE SYSTEMS INC.

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Mechanical

Reflector	1.5m Carbon Fibre
Platform Geometry	Parabolic Single Offset, 0.78 F/D (16.9° offset)
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., 10°/sec typ.
Peaking Speed	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/ft2 (1000 Kcal/h/m)
Radial Ice (survival)	2.54 cm (1")
Corrosive Atmosphere	As encountered in coastal / industrial areas

Electrical

Tx & Rx cables	2 RG6 cables - 9.1m (30 ft) each
Control Cables	
Standard	9.1m (30 ft) Ext. Cable with MIL Connectors
Optional	up to 60 m (200 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 Feed Arm to Base
Feed	2 port Xpol
VSWR	1.3:1 (Max.)

Physical

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

Motors

Electrical Interface	12VDC	15 Amp (Max.)
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2 Port Cross Pol (Ku-Band)

	Receive	Transmit
Standard Frequency (GHz)	10.70-12.75	13.75-14.50
Midband Gain (± .2 dBi)	43.70	45.00
Cross Pol: On Axis	-35 dB	
in 1 dB BW	-28 dB	
Sidelobe Compliances	Meets ITU 580, INTELSAT	
Isolation: Tx / Rx	-85 dB	0 dBm input
Rx / Tx	0 dB input	-35 dB
Antenna Noise Temp. (°K)	10° EL= 65 / 20° EL= 58	
VSWR	1.50:1	1.30:1

2 Port C-Band (Linear)

	Receive	Transmit
Standard Frequency (GHz)	3.625-4.20	5.850-6.425
INSAT Frequency (GHz)	4.50-4.80	6.725-7.025
Midband Gain (± .2 dBi)	33.40	37.20
Cross Pol: On Axis (Std)	-30 dB	
On Axis (INSAT)	-35 dB	
in 1 dB BW	-26 dB	-26 dB
Sidelobe Compliances	IESS 601 Std G	
Isolation: Tx / Rx (Std)	-60dB	0 dBm input
Tx / Rx (INSAT)	-70 dB	
Rx / Tx	0 dBm input	-35 dB
Antenna Noise Temp. (K)	10° EL= 45 / 20° EL= 40	
VSWR	1.50:1	1.30:1

2 Port C-Band (Circular)

	Receive	Transmit
Standard Frequency (GHz)	3.625-4.20	5.85-6.425
Midband Gain (± .2 dBi)	33.30	37.10
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	
Feed Interface	CPR-229n	Type N or CPR- 137
Isolation (Port to Port)	-60dB	-60dB
Antenna Noise Temp.(K)	10°EL= 41 / 20°EL= 36	
VSWR	1.50:1	1.30:1

Shipping Weights & Dimensions

Crate: 213cm x 89cm x 84cm (84" x 35" x 33"), 64.5 kg (142 lbs)
 Platform: 75.9 kg (167 lbs); 7024C Controller: 6 kg (13 lbs); Cables: 5 kg (11 lbs)
 Reflector Crate: 168cm x 168cm x 48cm (66" x 66" x 19"), 115 kg (256 lbs)
 Total, Platform Crate and Reflector Crate, 2 - Pieces: 267kg (589 lbs)



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