

1200 Autopointing Flyaway

iNetVu™

by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS



The 1.2 m Flyaway Autopointing Antenna System with the iNetVu 7000 controller has the following Key Features:

- One Button Auto-Pointing Controller
- 3 Axes Motorization
- Supports Manual Control
- Airline Checkable
- Captive Hardware/Fasteners
- No Tools Required for Assembly/Disassembly
- Setup Time Less than 15 Minutes, One Person
- Leveling capability for Uneven Surfaces
- 2 Pieces Dual Skin Metal Reflector
- Supports Ku Band

RF Interface

Radio Mounting	Feed Arm
Axis Transition	Twist-Flex Waveguide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U from Feedhorn to Base Connector

Environmental

Wind Load	
Operational	
No Ballast or Anchors	40 km/hr
With Ballast or Anchors	72 km/hr
Survival (with Ballast/Anchors)	145 km/hr
Solar radiation	360 BTU/h/sq. ft
Temperature	-58° F to 140° F (-50° C to 65° C)
Rain	1.3 cm/h

Maximum Mount Rotation

Azimuth	+ - 75°
Elevation	5 - 80°
Polarization	+ - 95°
Elevation Deploy Speed	Variable 2° /sec typ
Azimuth Deploy Speed	Variable 15° /sec typ,
	10° /sec typ
Peaking Speed	0.2° /sec

Motors

Electrical Interface	12 VDC 15A Max.
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Mechanical

Reflector	1.2 m Offset Feed
Mount Geometry	Elevation over Azimuth
F/D Ratio	0.635
Offset Angle	22.0°
Antenna Optics	Single Offset

Electrical

Rx & Tx Cables	2 RG6 cables (10m each)
Control cables	
Standard	10m Ext. Cable
Optional	upto 75m available

Packaging Cases:

- Case 1: 2 piece reflector, 33x81.28x132 cm; 44 kg
- Case 2: Polarization and elevation actuator, 38x35.56x55.88 cm; 17 kg
- Case 3: Tripod with feed arm, 45.72x48.26x121.92 cm; 42 kg
- Case 4: iNetVu 7000 Controller + cables + BUC, TBD; 30 kg max.

Ku-Band (Linear)

Transmit Power	1 to 200 Watt *	
Transmit (Tx) Frequency	13.75 - 14.50 GHz	
Receive (Rx) Frequency	10.70 - 12.75 GHz	
Feed Interface	WR75	Receive
Efficiency	70%	Transmit
Midband Gain (+ .2 dB)	41.8 dBi	WR75
		70%
		43.5 dBi
Antenna Noise Temperature		
10° Elevation	58 K	
30° Elevation	53 K	
Sidelobe better than	100λ/D < Ø < 20°	29 - 25 Log Ø dBi
	20° < Ø < 26.3°	-3.5 dBi
	26.3° < Ø < 48°	32-35 Log Ø dBi
	48° < Ø	-10 dBi
Cross-Polarization on Axis	30 dB	35 dB
Within 1 dB Beamwidth	22 dB	26 dB
Return Loss	17.7 dB typ	20 dB typ
Insertion Loss	0.3 dB typ	0.1 dB typ
Tx/Rx Isolation	40 dB	80 dB
Feed - 2 Port XPol		



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This is a Draft. Specifications are subject to change. Feb. 2009