

FLY-1201

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

TECHNICAL SPECIFICATIONS

The new model of iNetVu[®] 1.2m Flyaway Antenna System is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu[®] 7024C Controller and can be assembled in less than 15 minutes by one person. The antenna features a 2-piece segmented glass fibre reinforced reflector with compact pedestal and is designed to be value priced while providing exceptional performance in a light weight package.



Features

- One button auto-pointing controller
- 3 Axis motion (Ku-band), 2 axis (X-band)
- Airline transportable
- Supports manual control when required
- Designed to work with the iNetVu[®] 7024C Controller
- Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece thermoset molded reflector
- Carbon fibre reflector available in 1 piece, 2 pieces & 4 pieces
- Supports Skyware 1.2m antenna, Type 125
- No tools required for assembly / disassembly
- Less than 15 minutes assembly time, one person job
- Elevation-over-azimuth pedestal provides excellent stiffness characteristics and convenience for the user
- Eutelsat / Intelsat compliant
- Compact packaging, 4 ruggedized shipping cases
- Minimal maintenance required
- Standard 2 year warranty

Application Versatility

If you operate in Ku-band, the FLY-1201 Flyaway 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 Disaster Management, Military, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.

www.c-comsat.com
613-745-4110 | 1-877-463-8886

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SATELLITE SYSTEMS INC.

Specifications are subject to change

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Mechanical

Antenna Size & Material	1.2m Glass fibre reinforced polyester ⁽¹⁾
Optional	Carbon Fibre
Platform Geometry	Elevation over azimuth
Antenna optics	2-piece segmented, Offset feed prime focus
Optional	1-piece & 4-piece segmented
Offset angle	16.97°
Azimuth	±180°
Elevation	5° to 90°
Polarization	±95°
Elevation deploy speed	Variable 6° / sec
Peaking speed	0.2° / sec

Environmental

Wind loading	
Operational	
No ballast or anchors	48 km/h (30 mph)
With ballast or anchors	72 km/h (45 mph)
Survival (with ballast)	145 km/h (90 mph)
Solar radiation	360 BTU / h / sq. ft
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Rain	
Operational	10 cm/h
Survival	15 cm/h
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	

RF Interface

Radio mounting	Feed arm
Coaxial	RG6U F type (N type optional)

Electrical

Electrical interface	24VDC 8 Amp (Max.)
Rx & Tx cables	2 RG 6 cables - 10 m (33 ft) each
Control cables	
Standard	10m (33 ft) ext. cable
Optional	up to 60m (200 ft) available

Electrical (Continued)

	Ku-band (Linear)	X-band (Circular)
Transmit Power ⁽³⁾	1 to 200 Watt	1 to 200 Watt
Receive Frequency (GHz)	10.95 – 12.75	7.25-7.75
Transmit Frequency (GHz)	13.75 – 14.50	7.90-8.40
Midband Gain(±0.2 dB)		
(Rx)	41.80	37.20
(Tx)	43.30	37.8
Antenna Noise Temp. (K)	10° EL=45	10° EL=79
	30° EL=24	20° EL=61
Sidelobe Envelope, Co-Pol (dBi)		
1.5° < Ø < 20°	29 - 25 Log Ø	Meets ITU 580
20° < Ø < 26.3°	- 3.5	
26.3° < Ø < 48°	32 - 25 Log Ø	
48° < Ø < 180°	- 10 (averaged)	
Cross-Polarization on Axis	>35 dB	>21.3 dB
Within 1 dB beamwidth	>30 dB	>21.3 dB
Tx/Rx isolation	Rx: 40 dB Tx: 90 dB	Rx: 0 dB Tx: 110 dB
Feed	2 port Xpol	2 port Xpol
VSWR	1.3:1	1.3:1

Cases

Case 1: 2-piece reflector	130 x 29.5 x 75 cm (51.2" x 11.6" x 29.5")
	33.5 kg (73.7 lbs)
Case 2: Ku Feed arm	120.6 x 55.2 x 24.7 cm (47.5" x 21.7" x 9.7")
	20.5 kg (45.1 lbs)
Case 2: X Feed arm	TBD
(Optional)	
Case 3: Tripod	95 x 69 x 37 cm (37.4" x 27.2" x 14.5")
	42 kg (92.4 lbs)
Case 4: 6U rack mount	74 x 51 x 72 cm (29" x 20" x 28")
	32 kg (70 lbs)

Shipping Weights & Dimensions

Transportable Case and Reflector:	
Tripod Case: 97 cm x 71 cm x 38 cm (38" x 28" x 15"), 45 kg (100 lbs)	
Feed Arm Case: 121 cm x 56 cm x 25 cm (47" x 22" x 10"), 20.5 kg (45 lbs)	
Reflector Case: 132 cm x 31 cm x 76 cm (52" x 12" x 30"), 34 kg (74 lbs)	
Controller Case: 71 cm x 51 cm x 74 cm (28" x 20" x 29"), 36 kg (80 lbs)	

Total including pallet:
140 cm x 140 cm x 104 cm (55" x 55" x 41"), 160 kg (353 lbs)

Note:

⁽¹⁾ Antenna based on Skyware, Model 125.

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