

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[®] 7024 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
- Airline transportable
- Supports manual control when required
- Designed to work with the iNetVu[®] 7024 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.

melcom

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Specifications are subject to change

October 2012

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Mechanical

Antenna Size & Material	1.2m Glass fibre reinforced polyester ⁽¹⁾
Optional	Carbon Fibre
Mount 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

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

RF Interface

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

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: Feed arm	20.6 x 55.2 x 24.7 cm (47.5" x 21.7" x 9.7") 20.5 kg (45.1 lbs)
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	32 kg (70 lbs)

Ku-Band

Transmit Power	1 to 200 watt	
Polarization	Linear, Orthogonal	
	Receive	Transmit
Frequency (GHz)	10.70-12.75	13.75-14.50
Feed interface	WR75	WR75
Efficiency	70%	70%
Midband Gain (± .2 dBi)	41.80	43.30
Antenna Noise Temp. (K)	10° EL=45 / 30° EL=24	
Sidelobe Envelope, Co-Pol (dBi)		
	1.5° <Θ < 20°	29 - 25 LogΘ
	20° <Θ < 26.3°	-3.5
	26.3° <Θ < 48°	32 - 35 LogΘ
	48° <Θ < 180°	-10
Cross Polarization on axis	>35 dB	
Within 1 dB beamwidth	>30 dB	
Tx/Rx isolation	>40 dB	90 dB
Feed	2 port Xpol	
VSWR	1.3:1	1.3:1

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:	120 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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