

FLY-1202G

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

TECHNICAL SPECIFICATIONS

The new iNetVu[®] 1.2m Flyaway Ka-band Antenna System is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu[®] 7710 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 cost-effective while providing exceptional performance in a light weight package.



Field Upgradable to Ku

Features

- One button auto-pointing controller
- 2 Axis motion Ka-band; 3 Axis optional
- Airline transportable
- Supports manual control when required
- Designed to work with the iNetVu[®] 7710 Controller
- Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece thermoset molded reflector
- Supports General Dynamic 1.2m reflector
- 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
- Compliant with Avanti/Gilat Ka services
- Compact packaging, ruggedized shipping cases
- Minimal maintenance required
- Can be easily converted to support Ku-band
- Optional 3W & 5W transceivers; higher BUCs also supported
- Standard 2 year warranty

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Application Versatility

If you operate in Ka-band, the FLY-1202G 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.

Digisat
International, Inc.

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Mechanical

Antenna Size & Material	1.2m Glass fibre reinforced polyester ⁽¹⁾
Platform Geometry	Elevation over azimuth
Antenna optics	2-piece segmented
Optional	1-piece
Offset angle	16.97°
Azimuth	±175°
Elevation	5° to 90°
Polarization	Circular, auto-switching
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)
Temperature	
Operational	-30° to 60° C (-22° to 140° F)
Survival	-40° to 65° C (-40° to 149° F)
Rain	
Operational	10 cm/h
Survival	15 cm/h
Solar radiation	360 BTU / h / sq. ft

RF Interface

Radio mounting	Feed arm
Feed	RG6 F type

Electrical

Electrical interface	24VDC 8 Amp (Max.)
Rx & Tx cables	2 RG6 cables
Control cables	
Standard	10m (33 ft) ext. cable
Optional	up to 60m (200 ft) available

Ka-Band

	Receive	Transmit
Frequency (GHz)	19.20 - 20.20	29.50 - 30.00
Midband Gain (±.2dB)	46.5	49.9
EIRP (Nominal)	54 dBW @ 29.75 GHz	
G/T (Nominal)	23.6 dB/K @ 19.95 GHz	
Antenna Noise Temp. (K)	20° EL= 107 / 40° EL= 89	
Sidelobe Envelope Co-Pol (dBi)		
1.5° < θ < 20°	29-25 Logθ	
20° < θ < 26.3°	-3.5	
26.3° < θ < 48°	32-25 Logθ	
48° < θ < 180°	-10 Typical	
Cross Pol within 1dB contour	> 22 dB	> 22 dB
VSWR	1.3:1 (Max.)	

Ka-Band (R/O Circular)

	Receive
Frequency (GHz)	17.0 – 22.2
Feed Interface	WR42

Cases

Case 1: Reflector	134.6 x 40.6 x 94 cm (53" x 16" x 37"); 46.6kg (103 lbs)
Case 2: AZ/EL Base	61 x 38.1 x 50.8 cm (24" x 15" x 20"); 23.2kg (71.5lbs)
Case 3: Tripod/Feed	72.4 x 59.7 x 30.5 cm (58.5" x 23.5" x 12"); 34.2Kg (74lbs);
Case 4: 4-10U Rack Mount	74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 lbs)

Shipping Weights & Dimensions

TBD