

FLY-74G

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

TECHNICAL SPECIFICATIONS

The iNetVu[®] FLY-74G Flyaway Antenna is a 74 cm highly portable Ka-band, self-pointing, auto-acquire system that is configurable with the iNetVu[®] 7715 Controller, providing fast satellite acquisition within minutes, anytime anywhere. The antenna works seamlessly with the world's emerging commercial satellites and can be assembled in 10 minutes by one person.



Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm supports 3W transceiver
- Designed to work with the iNetVu[®] 7715 Controller
- Works seamlessly with the world's emerging commercial GEO Satellites
- 2 Axis or 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires any GEO Ka-band satellite within 2 minutes
- Captive hardware / Fasteners
- 10 minute assembly by one person, no tools required
- Compact packaging; 2 ruggedized cases
- Supports Global Invacom 74 cm Ka antenna
- Compliant with Eutelsat Konnect Services
- Standard 2 year warranty

Application Versatility

If you operate in Ka-band over GEO satellite services, the FLY-74G 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. This next generation Flyaway Ka terminal delivers affordable broadband Internet services (High-speed access, Video & Voice over IP, file transfer, e-mail or web browsing). Ideally suited for industries such as Oil & Gas Exploration, Military Communications, Disaster Management, SNG, Emergency Communications Backup and many others.

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Specifications are subject to change

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Mechanical

Reflector	74cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	$\pm 180^\circ$
Elevation	0 - 90°
Polarization	Circular, RH or LH (Manual or Auto)
Elevation Deploy Speed	Variable, $3^\circ/\text{sec}$ typ.
Azimuth Deploy Speed	Variable $3^\circ/\text{sec}$ typ.
Peaking Speed	$0.1^\circ/\text{sec}$

Environmental

Wind loading	
Operational (no ballast)	50 km/h (30 mph)
Operational (with ballast)	72 km/h (45 mph)
Temperature	
Operational	-30° to 60° C (-22° to 140° F)
Survival	-40° to 65° C (-40° to 149° F)

Thermal Test per MIL-STD-810F, Method 501.4/502.4, High/Low Temperatures
Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked
Shock Test per IEC 60068-2-27, Appendix A, Water Ingress Rating: IP-66

Electrical

Rx & Tx Cable	Dual IFL, RG6 cable - 10 m (33 ft)	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
Frequency (GHz)	Receive	Transmit
3W-XRF	17.80 - 20.20	29.00 - 30.00
Konnet 3W-XRF	17.70 - 20.20	29.00 - 30.00
(Optional) 3W - TRX0121	18.10 - 20.20	29.00 - 30.00
(Optional) 4W - AN8025	17.70 - 20.20	29.00 - 30.00
(Optional) 4W - AN8023	17.70 - 20.20	28.10 - 29.10
Feed Interface (Circular)	RG6	RG6
Midband Gain (+0.5 dBi)	41.6 @19.2 GHz	45.3 @29.0 GHz
Antenna Noise Temp. (K)	30° EL= 50 Max.	
Sidelobe Envelope Co-Pol (dBi)		
100 λ / D < θ < 20°	29 - 25 Log θ	
20° < θ < 26.3°	-3.5	
26.3° < θ < 48°	32-25 Log θ	
48° < θ < 180°	-10 (typical)	
Cross-Polarization	> 23 dB	> 25 dB
VSWR	1.3:1	

RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U from transceiver to tripod base

Physical

Case 1: Tripod/Reflector (Includes transceiver & upgraded tripod feet)		
	L: 92.7cm (36.6")	W: 33.1 cm (13.03")
	H: 89.5cm (35.25")	32 Kg
Case 2: Controller/AZ/EL (Includes external power cable, coax cables, & 7715 controller)		
	L: 102.9 cm (40.5")	W: 47.6cm(18.75")
	H: 50.8 cm (20")	28.8 Kg

Motors

Electrical Interface	24VDC	8 Amp (Max.)
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Shipping Weights & Dimensions*

Case 1: 86.4cm x 86.4cm x 31.8 cm (34" X 34" X 12.5"); 32 kg

Case 2: 45.7 cm x 99.1 cm x 47 cm (18" x 39" x 18.5"); 32 kg

* The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

