

FLY-98G

iNetVu®

by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu® FLY-98G Flyaway Antenna is a 98 cm satellite antenna system which is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7715 Controller providing fast satellite acquisition within minutes, anytime anywhere. It can be assembled in 10 minutes by one person.

Thor7 Type Approved and Compliant for use on Avanti Hylas Ka Satellite Services



Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 5kg (10lbs) Ka transceiver
- Designed to work with the iNetVu® 7715 Controller
- Works seamlessly with the world's emerging commercial Ka modems and services
- 2 Axis motorization (Optional - motorized 3rd axis)
- Supports manual control when required
- One button, auto-pointing controller acquires Ka-band satellite within 2 minutes
- Field upgradable to Ku-band
- Captive hardware / Fasteners
- 10 minute assembly by one person, no tools required
- Compact packaging; 3 ruggedized cases
- Supports Global Invacom 98 cm Ka antenna
- Avanti Approved; Thor7 Type Approved; also compliant with Gilat/iDirect/Newtec Ka services
- Standard 2 year warranty



Application Versatility

If you operate in Ka-band, the FLY-98G 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, Cellular Backhaul and many others.

C-COM
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Specifications are subject to change

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Mechanical

Reflector	98 cm Elliptical Antenna, offset feed
Platform Geometry	Elevation over Azimuth
Deployment Sensors	GPS antenna Compass $\pm 2^\circ$ Tilt sensor $\pm 0.1^\circ$
Azimuth	$\pm 175^\circ$
Elevation	0 - 90°
Polarization	($\pm 45^\circ$), Circular Auto
Elevation Deploy Speed	Variable, 3°/sec typ.
Azimuth Deploy Speed	Variable 3°/sec typ.
Peaking Speed	0.1°/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)
Water Ingress Rating	IP-66

Electrical

Rx & Tx Cables	2 RG6 cables -10 m (33 ft) each	
Control Cables		
Standard	10 m (33 ft) Ext. Cable	
Optional	up to 60 m (200 ft) available	
Frequency (GHz)	Receive	Transmit
3W-XRC	19.20 - 20.20	29.50 - 30.00
(Optional) 3W-XRF	17.80 - 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
(Optional) 2 Port CP feed	19.20 - 21.20	29.00 - 31.00
Feed Interface (Circular)	RG6	RG6
Midband Gain (+0.2 dBi)	43.80 @19.70 GHz	47.20 @29.75 GHz
Antenna Noise Temp. (K)	30° EL= 62 Max.	
Sidelobe Envelope Co-Pol (dBi)		
100λ / D < Ø < 20°	29 - 25 Log Ø	
20° < Ø < 26.3°	-3.5	
26.3° < Ø < 48°	32-25 Log Ø	
48° < Ø < 180°	-10 (typical)	
Cross-Polarization	> -24 dB	> -22 dB
VSWR	1.3:1	

RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U F Type to tripod base

Ka-Band (R/O Circular)

Frequency (GHz)	Receive 17.0 - 22.2
Feed Interface dual polarity	WR42

Physical

Case 1: Reflector	L: 109 cm (43") H: 29 cm (11.5")	W: 109 cm (43") 28.6 Kg (63 lbs)
Case 2: Tripod/Feed arm	L: 122 cm (48") H: 28cm (11")	W: 58 cm (23") 27.7 Kg (61 lbs)
Case 3: Controller/AZ/EL	L: 44.5 cm (17.5") H: 38 cm (15.5")	W: 80 cm (31.5") 34 Kg (75 lbs)

Motors

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

Skid: 132 cm x 137 cm x 121.9 cm (52" x 54" x 48") 23.1 Kg (51lbs)
Total weight of system in cases: 90.3 Kg (199 lbs)
Total weight of system in cases on skid: 113.4 Kg (250 lbs)

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

