

# FLY-981

**iNetVu**<sup>®</sup>  
by C-COM Satellite Systems Inc.

## TECHNICAL SPECIFICATIONS

The iNetVu<sup>®</sup> FLY-981 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<sup>®</sup> 7715 Controller providing fast satellite acquisition within minutes, anytime anywhere. It can be assembled in 10 minutes by one person.



Field Upgradable to FLY-98G, FLY-98V or FLY-98H

### Features

- One-Piece, high surface accuracy, offset feed, steel reflector
- Heavy duty feed arm capable of supporting up to 5kg (10lbs) RF Electronics (LNB & BUC)
- Designed to work with the iNetVu<sup>®</sup> 7715 Controller
- Works seamlessly with the world's most popular commercially available Ku modems
- 3 Axis motorization
- Supports manual control when required
- One button, auto-pointing controller acquires Ku-band satellite within 2 minutes
- Captive hardware / Fasteners
- 10 minute assembly by one person, no tools required
- Compact packaging; 3 ruggedized cases
- Standard 2 year warranty

### Application Versatility

If you operate in Ku-band, the FLY-981 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 Ku 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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## TECHNICAL SPECIFICATIONS

### 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 - $90^\circ$
Polarization	$\pm 90^\circ$
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	
	<b>Receive</b>	<b>Transmit</b>
Frequency (GHz)	10.70-12.75 <sup>(1)</sup>	13.75-14.50
Optional	10.70-11.70	12.75-14.50
Feed Interface	WR-75	WR-75
Midband Gain ( $\pm 0.2$ dBi)	39.70@12.00 GHz	41.20@14.30 GHz
Antenna Noise Temp. (K)	10° EL=53 / 20° EL= 39 / 30° EL= 32 Max.	
Sidelobe Envelope Co-Pol (dBi)		
1.8° < $\theta$ < 20°	29 - 25 Log $\theta$	
20° < $\theta$ < 26.3°	-3.5	
26.3° < $\theta$ < 48°	32-25 Log $\theta$	
48° < $\theta$ < 180°	-10 (typical)	
Cross-Polarization	> -30 dB in 1 dB Contour	
VSWR	1.5:1	1.3:1

### RF Interface

Radio Mounting	Feed Arm
Coaxial	RG6U F Type to tripod base (N Type Optional)

### Physical

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

Note: <sup>(1)</sup> LNB PLL Type required with stability better than  $\pm 25$  KHz

