

iNetVu[®] FLY-981

by C-COM Satellite Systems Inc.

STEP ELECTRONICS

A Division of Av-Comm



TECHNICAL SPECIFICATIONS

The iNetVu[®] 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[®] 7710 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[®] 7710 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.



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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° |
| Polarization | $\pm 90^\circ$ |
| 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 $^\circ$ to 60 $^\circ$ C (-22 $^\circ$ to 140 $^\circ$ F) |
| Survival | -40 $^\circ$ to 65 $^\circ$ C (-40 $^\circ$ to 149 $^\circ$ 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 10.70-12.75 ⁽¹⁾ | Transmit 13.75-14.50 |
| Feed Interface | WR-75 | WR-75 |
| Midband Gain (± 0.2 dBi) | 39.70@12.00 GHz | 41.20@14.30 GHz |
| Antenna Noise Temp. (K) | 10 $^\circ$ EL=53 / 20 $^\circ$ EL= 39 / 30 $^\circ$ EL= 32 Max. | |
| Sidelobe Envelope Co-Pol (dBi) | | |
| 1.8 $^\circ$ < θ < 20 $^\circ$ | 29 - 25 Log θ | |
| 20 $^\circ$ < θ < 26.3 $^\circ$ | -3.5 | |
| 26.3 $^\circ$ < θ < 48 $^\circ$ | 32-25 Log θ | |
| 48 $^\circ$ < θ < 180 $^\circ$ | -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") 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.) |
|----------------------|-------|--------------|

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: ⁽¹⁾ LNB PLL Type required with stability better than ± 25 KHz



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