

# FLY-1202

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

## TECHNICAL SPECIFICATIONS

The iNetVu<sup>®</sup> 1.2m Flyaway Antenna System is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu<sup>®</sup> 7715 Controller and can be assembled in less than 15 minutes by one person. The antenna features a 2-piece segmented Carbon reflector with compact pedestal and is designed to be cost-effective while providing exceptional performance in a light weight package.

Field Upgradable to Ka



### Features

- One button auto-pointing controller
- 3 Axis motion (Ku-band), 2 axis (X-band)
- Airline transportable
- Supports manual control when required
- Designed to work with the iNetVu<sup>®</sup> 7715 Controller
- Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece Carbon 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
- Eutelsat / Intelsat compliant
- Compact packaging, ruggedized shipping cases
- Minimal maintenance required
- Standard 2 year warranty

### Application Versatility

If you operate in Ku-band, the FLY-1202 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.

**C-COM**  
SATELLITE SYSTEMS INC.

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Specifications are subject to change

Jun 2026

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### Mechanical

|                         |  |
|-------------------------|--|
| Antenna Size & Material | 1.2m Carbon reflector                      |
| Platform Geometry       | Elevation over azimuth                     |
| Antenna optics          | 2-piece segmented, Offset feed prime focus |
| Offset angle            | 16.97°                                     |
| Azimuth                 | ±175°                                      |
| Elevation               | 5° to 90°                                  |
| Polarization            | ±95°                                       |
| 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)               |
| Survival (with ballast) | 145 km/h (90 mph)              |
| Solar radiation         | 360 BTU / h / sq. ft           |
| Temperature             |                                |
| Operational             | -30° to 55° C (-22° to 131° F) |
| Survival                | -40° to 65° C (-40° to 149° F) |
| Rain                    |                                |
| Operational             | 10 cm/h                        |
| Survival                | 15 cm/h                        |

### RF Interface

|                |                               |
|----------------|-------------------------------|
| Radio mounting | Feed arm                      |
| Coaxial        | RG6U F type (N type optional) |

### Electrical

|                      |                                   |
|----------------------|-----------------------------------|
| Electrical interface | 24VDC 8 Amp (Max.)                |
| Rx & Tx cables       | 2 RG 6 cables - 10 m (33 ft) each |
| Control cables       |                                   |
| Standard             | 10m (33 ft) ext. cable            |
| Optional             | up to 60m (200 ft) available      |

### Electrical (Continued)

|                                 | Ku-band (Linear)             | X-band (Circular)     |
|---------------------------------|------------------------------|-----------------------|
| Transmit Power <sup>(1)</sup>   | 1 to 400 Watt                | 1 to 40 Watt          |
| Receive Frequency (GHz)         | 10.70 – 12.75 <sup>(2)</sup> | 7.25-7.75             |
| Transmit Frequency (GHz)        | 13.75 - 14.80                | 7.90-8.40             |
| Optional Ext. Ku Freq (GHz)     |                              |                       |
| Receive Frequency (GHz)         | 10.70 - 11.70 <sup>(1)</sup> |                       |
| Transmit Frequency (GHz)        | 12.75 - 14.80                |                       |
| Midband Gain(±0.2 dB)           |                              |                       |
| (Rx)                            | 41.80                        | 37.40                 |
| (Tx)                            | 43.30                        | 38.10                 |
| Antenna Noise Temp. (K)         | 10° EL=45                    | 10° EL=50             |
|                                 | 30° EL=24                    | 30° EL=42             |
| Sidelobe Envelope, Co-Pol (dBi) |                              |                       |
| 1.5° < Ø < 20°                  | 29 - 25 Log Ø                | DSCS Req.             |
| 20° < Ø < 26.3°                 | - 3.5                        |                       |
| 26.3° < Ø < 48°                 | 32 - 25 Log Ø                |                       |
| 48° < Ø < 180°                  | - 10 (averaged)              |                       |
| Cross-Polarization on Axis      | >35 dB                       |                       |
| Within 1 dB beamwidth           | >30 dB                       |                       |
| Tx/Rx isolation                 | Rx: 40 dB Tx: 90 dB          | Rx: 100 dB Tx: 100 dB |
| Feed                            | 2 port Xpol                  | 2 port Xpol           |
| VSWR                            | 1.3:1                        | 1.25:1                |

### Cases

Reflector case: 133.0 x 37.0 x 91.5 cm (52.3" x 14.5" x 36"); 37.2 kg (82 lbs)  
 Reflector case empty: 20 kg (45 lbs)  
 AZ/EL case: 53.4 x 60.0 x 41.0 cm (21" x 23.6" x 16"); 37.0 kg (81.5 lbs)  
 AZ/EL case empty: 13 kg (28.5 lbs)  
 Tripod/feed case: 167.3 x 50.5 x 30.8 cm (65.8" x 19.8" x 12.1"); 37.0 kg (81.5 lbs)  
 Tripod/feed case empty: 19 kg (42 lbs)  
 4-10U Rack Mount case (Optional): 74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 lbs)  
 4-10U Rack Mount case empty: 26 kg (58 lbs)

### Shipping Weights & Dimensions\*

TBD

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

### Notes:

- <sup>(1)</sup> Depending on size and weight for feed arm mounting limitation
- <sup>(2)</sup> LNB PLL Type required with stability better than ± 25 KHz

