

# FLY-1202

**iNetVu®**  
by C-COM Satellite Systems Inc.

## TECHNICAL SPECIFICATIONS

The iNetVu® 1.2m Flyaway Antenna System is a highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu® 7710 Controller and can be assembled in less than 15 minutes by one person. The antenna features a 2-piece segmented glass fibre reinforced 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® 7710 Controller
- Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece thermoset molded reflector
- Supports General Dynamics 1.2m 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.

613-745-4110 | 1-877-463-8886 (1-877-iNetVu6)  
[www.c-comsat.com](http://www.c-comsat.com)

Specifications are subject to change

Feb 2019

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### Mechanical

|                         |  |
|-------------------------|--|
| Antenna Size & Material | 1.2m Glass fibre reinforced polyester      |
| Platform Geometry       | Elevation over azimuth                     |
| Antenna optics          | 2-piece segmented, Offset feed prime focus |
| Optional                | 1-piece & 4-piece segmented                |
| 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 200 Watt                | 1 to 40 Watt           |
| Receive Frequency (GHz)         | 10.70 – 12.75 <sup>(2)</sup> | 7.25-7.75              |
| Transmit Frequency (GHz)        | 13.75 – 14.50                | 7.90-8.40              |
| Optional Ext. Ku Freq (GHz)     |                              |                        |
| Receive Frequency (GHz)         | 10.70 - 11.70 <sup>(1)</sup> |                        |
| Transmit Frequency (GHz)        | 12.75 - 14.50                |                        |
| Midband Gain(±0.2 dB)           |                              |                        |
| (Rx)                            | 41.80                        | 37.40                  |
| (Tx)                            | 43.30                        | 38.10                  |
| Antenna Noise Temp. (K)         | 10° EL=45<br>30° EL=24       | 10° EL=50<br>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

Case 1: Reflector 134.6 x 40.6 x 94 cm (53" x 16" x 37"); 46.6kg (103 lbs)  
Case 2: AZ/EL Base 61 x 38.1 x 50.8 cm (24" x 15" x 20"); 23.2kg (71.5lbs)  
Case 3: Tripod/Feed 72.4 x 59.7 x 30.5 cm (58.5" x 23.5" x 12"); 35.4kg (77.5lbs)  
Case 4 (Optional): 4-10U Rack Mount 74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 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

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