

FLY-1201

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[®] 7024C 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.



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[®] 7024C Controller
- Captive hardware / fasteners
- 1.2m offset, prime focus, 2-piece thermoset molded reflector
- Supports Skyware 1.2m antenna, Type 125
- 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, 4 ruggedized shipping cases
- Minimal maintenance required
- Standard 2 year warranty

Application Versatility

If you operate in Ku-band, the FLY-1201 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.

FLY-1201



TECHNICAL SPECIFICATIONS

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 ⁽¹⁾ | 1 to 200 Watt | 1 to 200 Watt |
| Receive Frequency (GHz) | 10.95 – 12.75 ⁽²⁾ | 7.25-7.75 |
| Transmit Frequency (GHz) | 13.75 – 14.50 | 7.90-8.40 |
| Midband Gain(±0.2 dB) | | |
| (Rx) | 41.80 | 37.20 |
| (Tx) | 43.30 | 37.8 |
| Antenna Noise Temp. (K) | 10° EL=45 | 10° EL=79 |
| | 30° EL=24 | 20° EL=61 |
| Sidelobe Envelope, Co-Pol (dBi) | | |
| 1.5° < Ø < 20° | 29 - 25 Log Ø | Meets ITU 580 |
| 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 | >21.3 dB |
| Within 1 dB beamwidth | >30 dB | >21.3 dB |
| Tx/Rx isolation | Rx: 40 dB Tx: 90 dB | Rx: 0 dB Tx: 110 dB |
| Feed | 2 port Xpol | 2 port Xpol |
| VSWR | 1.3:1 | 1.3:1 |

Cases

| | |
|-------------------------------|---|
| Case 1: 2-piece reflector | 130 x 29.5 x 75 cm (51.2" x 11.6" x 29.5") 33.5 kg (73.7 lbs) |
| Case 2: Ku Feed arm | 120.6 x 55.2 x 24.7 cm (47.5" x 21.7" x 9.7") 20.5 kg (45.1 lbs) |
| Case 2: X Feed arm (Optional) | TBD |
| Case 3: Tripod | 95 x 69 x 37 cm (37.4" x 27.2" x 14.5") 42 kg (92.4 lbs) |
| Case 4: 6U rack mount | 74 x 51 x 72 cm (29" x 20" x 28") 32 kg (70 lbs) |

Shipping Weights & Dimensions*

| | |
|-----------------------------------|--|
| Transportable Case and Reflector: | |
| Tripod Case: | 97 cm x 71 cm x 38 cm (38" x 28" x 15"), 45 kg (100 lbs) |
| Feed Arm Case: | 121 cm x 56 cm x 25 cm (47" x 22" x 10"), 20.5 kg (45 lbs) |
| Reflector Case: | 132 cm x 31 cm x 76 cm (52" x 12" x 30"), 34 kg (74 lbs) |
| Controller Case: | 71 cm x 51 cm x 74 cm (28" x 20" x 29"), 36 kg (80 lbs) |

Total including pallet:
140 cm x 140 cm x 104 cm (55" x 55" x 41"), 160 kg (353 lbs)

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

Notes:

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

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