

FLY-1801

iNetVu[®]
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

The iNetVu[®] FLY-1801 Antenna is a 1.8m highly portable, self-pointing, auto-acquire unit that is configurable with the iNetVu[®] 7710 Controller and can be assembled in less than 20 minutes. The antenna features a 6-piece carbon fibre reflector with compact pedestal and is designed to be cost-effective while providing exceptional performance in a light weight package.



Features

- 6-Piece Carbon Fibre Reflector
- One button, auto-pointing Controller acquires any Ku or C band satellite within 2 minutes
- 3 Axis motorization
- Supports manual control
- Captive Hardware/Fasteners
- No tools required for assembly
- Set-up time less than 20 minutes
- Designed to work with the iNetVu[®] 7710 Controller
- Leveling capability for uneven surfaces
- Standard 2 year warranty



Application Versatility

Whether you operate in Ku or C band, the 1.8m 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

Specifications are subject to change

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Mechanical

| | |
|--------------------------------|--|
| Reflector | 1.8m offset feed, Carbon Fibre |
| Platform Geometry | Elevation over Azimuth |
| Deployment Sensors GPS Antenna | Compass ± 2°, Tilt Sensor ± 0.2° |
| F/D Ratio | 0.80 |
| Azimuth | Full 360° in overlapping, 200° sectors |
| Elevation | 0° to 90° |
| Polarization | ± 95° |
| Elevation Deploy Speed | Variable 3° /sec, 2° /sec typ. |
| Azimuth Deploy Speed | Variable 5° /sec, 2° /sec typ. |
| Peaking Speed | 0.2° /sec |
| Peaking Accuracy | ±0.1° |
| Motor Voltage | 24VDC 15 Amp (Max.) |

Environmental

| | |
|----------------------------|--------------------------------|
| Wind loading | |
| Operational (no ballast) | 40 km/h (25 mph) |
| Operational (with ballast) | 72 km/h (45 mph) |
| Survival (with ballast) | 120 km/h (75 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 |
| Control Cables | |
| Standard | 10 m (33 ft) Extension Cable |
| Optional | Up to 60 m (200 ft) available |

RF Interface

| | |
|----------------------|---|
| Radio Mounting | Feed arm |
| Coaxial | RG6U |
| Axis Transition | Rigid/Twist-Flex Waveguide |
| Electrical Interface | 10 m (33 ft) ext. cables w/MIL connectors |
| VSWR | Rx 1.30:1 Tx 1.30:1 |

Physical

Transportable Cases:

- Case 1: AZ Assembly: 47.7 x 50.8 x 68.6cm (18.8" x 20" x 27"); 40.2kg (89lbs)
 - Case 2: Tripod Assembly: 52.1 x 154.5 x 34.3cm (20.5" x 61" x 13.5"); 36.4kg (80lbs)
 - Case 3: EL Assembly & Feedboom Supports: 49.5 x 138.5 x 67.3cm (19.5" x 54.5" x 26.5"); 39.6kg (87.5lbs)
 - Case 4: Feedboom Assembly & Reflector segments: 55.9 x 98.6 x 68.6cm (22" x 38.8" x 27"); 39.6kg (87.5lbs)
 - Case 5: Controller (Optional): 4-10U Rack Mount : 74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 lbs)
- Climate Control case also available

Optional Feeds:

- Case 6: Ku-Linear POL & EL Actuator: 69.9 x 77.0 x 35.1cm (27.5" x 30.3" x 13.8"); 32.5kg (71.5lbs)
- Case 7: C-linear POL & EL Actuator: 75 x 75 x 48.3cm (29.5" x 29.5" x 19"); 46.2kg (102lbs)
- Case 8: C-Circular POL & Actuator: TBD

Ku-Band (Linear Orthogonal)

| | Receive | Transmit |
|-------------------------------|----------------------------|---------------|
| Transmit Power ⁽¹⁾ | 1 to 200 watt | |
| Frequency (GHz) | 10.70-12.75 ⁽²⁾ | 13.75-14.50 |
| Feed Interface | WR75 | WR75 |
| Efficiency | 70% | 70% |
| Midband Gain (± 0.2dBi) | 45.30 | 46.50 |
| Antenna Noise Temp. (K) | 10° EL= 60 / 20° EL= 53 | |
| Sidelobe Envelope, | 1°<θ<20° | 29-25 Log θ |
| Co-Pol (dBi) | 20°<θ<26.3° | -3.5 |
| | 26.3°<θ<48° | 32-25 Log θ |
| | 48°<θ<180° | -10 (Average) |
| Cross-Polarization on Axis | -35 dB | -35 dB |
| Within 1dB Beamwidth | -28 dB | -28 dB |
| Isolation (Port to Port) | 30 dB | 85 dB |

C-Band (Linear)

| | Receive | Transmit |
|--------------------------|--------------------------|-----------------|
| Standard Frequency (GHz) | 3.40-4.20 ⁽²⁾ | 5.850-6.725 |
| INSAT Frequency (GHz) | 4.50-4.80 ⁽²⁾ | 6.725-7.025 |
| Feed Interface | WR229 | WR137 or Type N |
| Midband Gain (± 0.3 dBi) | 35.40 | 39.30 |
| Antenna Noise Temp. (K) | 10° EL= 43 / 20° EL= 38 | |
| Sidelobe Envelope, | 2.5°<θ<20 | 29-25 Log θ |
| Co-Pol (dBi) | 20°<θ<26.3° | -3.5 |
| | 26.3°<θ<48° | 32-25 Log θ |
| | 48°<θ<180° | 10 (Average) |
| Cross-Pol: on Axis | -30 dB | -30 dB |
| Within 1dB Beamwidth | -26 dB | -26 dB |
| Isolation (Port to Port) | 30 dB | 70 dB |

C-Band (Circular)

| | Receive | Transmit |
|--------------------------|---------------------------|---------------|
| Standard Frequency (GHz) | 3.625-4.20 ⁽²⁾ | 5.85-6.425 |
| Feed Interface | WR229 | Type N |
| Midband Gain (± 0.4dBi) | 35.4 | 39.50 |
| Antenna Noise Temp. (K) | 10° EL= 55 / 20° EL= 50 | |
| Sidelobe Envelope, | 2.8°<θ<20° | 29-25 Log θ |
| Co-Pol (dBi) | 20°<θ<26.3° | -3.5 |
| | 26.3°<θ<48° | 32-25 Log θ |
| | 48°<θ<180° | -10 (Average) |
| Isolation (Port to Port) | 30 dB | 70 dB |

Shipping Weights & Dimensions

TBD

Notes:

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



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