

FLY-1202G



TECHNICAL SPECIFICATIONS

The new iNetVu® 1.2m Flyaway Ka-band 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 Ku



Features

- One button auto-pointing controller
- 2 Axis motion Ka-band; 3 Axis optional
- 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 olded reflector
- Supports General Dynamic 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
- Compliant with Avanti/Gilat Ka services
- Compact packaging, ruggedized shipping cases
- Minimal maintenance required
- Can be easily converted to support Ku-band
- Optional 3W & 5W transceivers; higher BUCs also supported
- Standard 2 year warranty

Application Versatility

If you operate in Ka-band, the FLY-1202G 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.



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iNetVu®

by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

Mechanical

| | |
|-------------------------|--|
| Antenna Size & Material | 1.2m Glass fibre reinforced polyester ⁽¹⁾ |
| Platform Geometry | Elevation over azimuth |
| Antenna optics | 2-piece segmented |
| Optional | 1-piece |
| Offset angle | 16.97° |
| Azimuth | ±175° |
| Elevation | 5° to 90° |
| Polarization | Circular, auto-switching |
| 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) |
| Temperature | |
| Operational | -30° to 60° C (-22° to 140° F) |
| Survival | -40° to 65° C (-40° to 149° F) |
| Rain | |
| Operational | 10 cm/h |
| Survival | 15 cm/h |
| Solar radiation | 360 BTU / h / sq. ft |

RF Interface

| | |
|----------------|------------|
| Radio mounting | Feed arm |
| Feed | RG6 F type |

Electrical

| | |
|----------------------|------------------------------|
| Electrical interface | 24VDC 8 Amp (Max.) |
| Rx & Tx cables | 2 RG6 cables |
| Control cables | |
| Standard | 10m (33 ft) ext. cable |
| Optional | up to 60m (200 ft) available |

Ka-Band

| | Receive | Transmit |
|--------------------------------|--------------------------|---------------|
| Frequency (GHz) | | |
| 3W-XRC | 19.20 - 20.20 | 29.50 - 30.00 |
| (Optional) 3W-XRF | 17.80 - 20.20 | 29.00 - 30.00 |
| (Optional) 3W - TRX0121 | 18.10 - 20.20 | 29.00 - 30.00 |
| (Optional) 4W - AN8025 | 17.70 - 20.20 | 29.00 - 30.00 |
| (Optional) 4W - AN8023 | 17.70 - 20.20 | 28.10 - 29.10 |
| Midband Gain (± .2dB) | 46.5 | 49.9 |
| EIRP (Nominal) | 54 dBW @ 29.75 GHz | |
| G/T (Nominal) | 23.6 dB/K @ 19.95 GHz | |
| Antenna Noise Temp. (K) | 20° EL= 107 / 40° EL= 89 | |
| Sidelobe Envelope Co-Pol (dBi) | | |
| 1.5° <Θ < 20° | 29-25 LogΘ | |
| 20° <Θ < 26.3° | -3.5 | |
| 26.3° <Θ < 48° | 32-25 LogΘ | |
| 48° <Θ < 180° | -10 Typical | |
| Cross Pol within 1dB contour | > 22 dB | > 22 dB |
| VSWR | 1.3:1 (Max.) | |

Ka-Band (R/O Circular)

| | Receive |
|------------------------------|-------------|
| Frequency (GHz) | 17.0 – 22.2 |
| Feed Interface dual polarity | WR42 |

Cases

Reflector case: 134.6 x 38.1 x 91.5 cm (53" x 15" x 36"); 46.6kg (103lbs)
AZ/EL case: 53.4 x 59.7 x 40.6 cm (21" x 23.5" x 16"); 37.9kg (83.5 lbs)
Tripod/feed case: 170.2 x 50.8 x 31.8 cm (67" x 20" x 12.5"); 38.3kg (84.5 lbs)
4-10U Rack Mount case (Optional): 74 x 51 x 72 cm (29" x 20" x 28"); 32 kg (70 lbs)

Shipping Weights & Dimensions

TBD

Note:

⁽¹⁾ Antenna based on General Dynamic/Skyware Global

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Specifications are subject to change

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