

# FLY-1202



## 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 General Dynamics Series 3122 1.2m antenna
- 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-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.

[www.intellisystem.it](http://www.intellisystem.it)

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**INTEGRATED SATELLITE SOLUTIONS**

Specifications are subject to change

May 2016

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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 200 Watt
Receive Frequency (GHz)	10.95 – 12.75 <sup>(2)</sup>	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 30° EL=24	10° EL=79 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: 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: 6U 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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