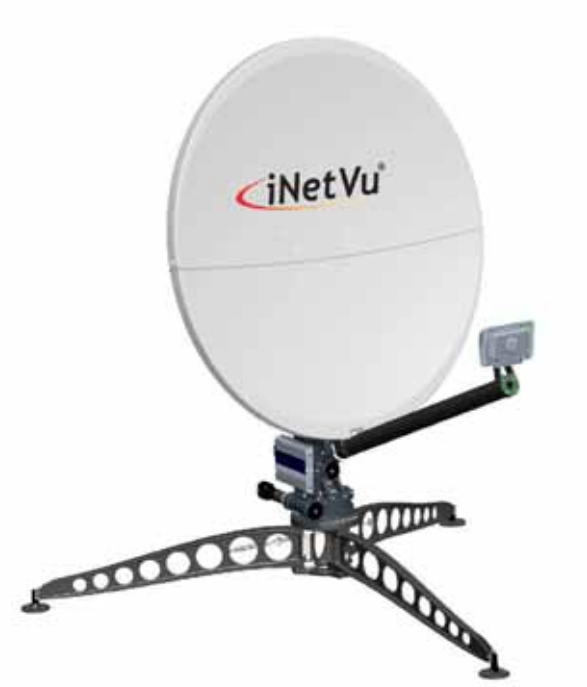
FLY-1202V

TECHNICAL SPECIFICATIONS

iNetVu®
by C-COM Satellite Systems Inc.

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 value priced while providing exceptional performance in a light weight package.

Field Upgradable to Ku



Features

- One button auto-pointing controller
- 2 Axis motion Ka-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 Dynamic 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
- ViaSat/Eutelsat compliant
- Compact packaging, 4 ruggedized shipping cases
- Minimal maintenance required
- Can be easily converted to support Ku-band
- Standard 2 year warranty

Buy Now!

Application Versatility

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

Digisat International, Inc.

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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

Thermal Test per MIL-STD-810F, Method 501.4, High/Low Temperatures
Vibration Test per MIL-STD-810F, Annex A, Category 4, Truck/Trailer/Tracked
Shock Test per IEC 60068-2-27

RF Interface

Radio mounting	Feed arm
Coaxial	RG6U F type

Electrical

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

Ka-Band

	Receive	Transmit
Frequency (GHz)	19.70 - 20.20	29.50 - 30.00
Midband Gain (± .2dB)	46.5	49.9
EIRP (Nominal)	54 dBWi @ 29.75 GHz	
G/T (Nominal)	23 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 Polarization	-25 dB in 1dB contour	
Any angle of axis	-25 dB (Max.)	
Feed Interface	Type F	
VSWR	1.3:1 (Max.)	

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: Ka 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 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)

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