

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® 7024C Controller and can be assembled in less than 20 minutes by one person. The antenna features a 6-piece carbon fibre reflector with compact pedestal and is designed to be value priced 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, one person
- Designed to work with the iNetVu® 7024C 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.

www.c-comsat.com
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C-COM
SATELLITE SYSTEMS INC.

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 $\pm 2^\circ$, Tilt Sensor $\pm 0.2^\circ$
F/D Ratio	0.80
Azimuth	Full 360° in overlapping, 200° sectors
Elevation	0° to 90°
Polarization	$\pm 95^\circ$
Elevation Deploy Speed	Variable 2° /sec typ.
Azimuth Deploy Speed	Variable 5° /sec typ. , 2° /sec typ.
Peaking Speed	0.2° /sec
Motor Voltage	24VDC 10 Amp (Max.)

Environmental

Wind loading	
Operational	40 km/h (25 mph)
Survival	
Deployed	72 km/h (45 mph)
Stowed	100 km/h (62 mph)
Temperature	
Operational	-30° to 60° C (-22° to 140° F)
Survival	-40° to 65° C (-40° to 149° F)

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

Total Weight (w reflector)	162 kg (358 lbs)
Reflector Weight	37 kg (81 lbs)
Total Platform Weight	125 kg (275 lbs)

Packaging Cases:

Case 1: 6 Piece Reflector; 110 x 75 x 41 cm, 32 kg
 Case 2: Feed arm; 100 x 40 x 23 cm, 32 kg
 Case 3: El/Az base; 55 x 50 x 27.5 cm, 32 kg
 Case 5: Antenna Elev holder; 124 x 35 x 27 cm, 32 kg
 Case 6: Feed; 75 x 32 x 30.5, 20 kg

Ku-Band (Linear Orthogonal)

	Receive	Transmit
Transmit Power	(1 to 200 watt ⁽¹⁾)	
Frequency (GHz)	10.95-12.75	13.75-14.50
Feed Interface	WR75	WR75
Efficiency	70%	70%
Midband Gain (± 0.2 dBi)	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	5.850-6.725
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	5.85-6.425
Feed Interface	WR229	Type N
Midband Gain (± 0.4 dBi)	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

Note: ⁽¹⁾ Depending on size and weight for feed arm mounting limitation



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