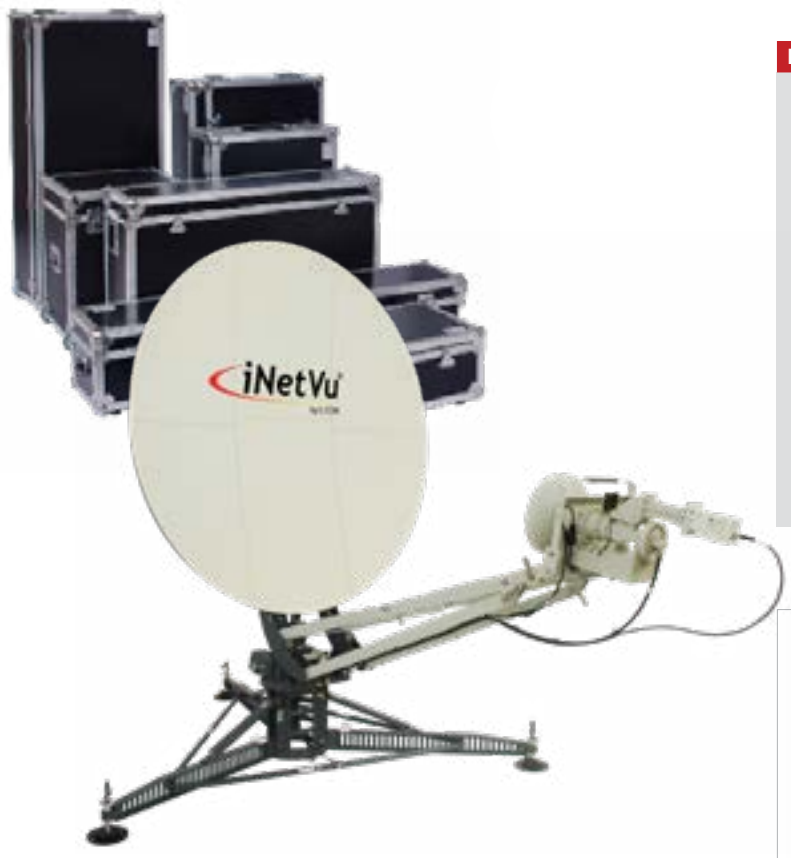
FLY-1801

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® 7715 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, Ka, C or X 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® 7715 Controller
- Leveling capability for uneven surfaces
- Standard 2 year warranty

Application Versatility

Whether you operate in Ku, Ka, C or X 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.

FLY-1801

iNetVu®
by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS

Mechanical

Reflector	1.8m offset feed, Carbon Fibre
Platform Geometry	Elevation over Azimuth
Deployment Sensors GPS Antenna	Compass ± 2º, Tilt Sensor ± 0.2º
F/D Ratio	0.80
Azimuth	Full 360º in overlapping, 200º sectors
Elevation	0º to 90º
Polarization	± 95º deg or manual LH/RH Circular Polarity
Elevation Deploy Speed	Variable 3º /sec, 2º /sec typ. Variable
Azimuth Deploy Speed	5º /sec, 2º /sec typ.
Peaking Speed Peaking	0.2º /sec
Accuracy	±0.1º
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	-30º to 60º C (-22º to 140º F)
Survival	-40º to 65º C (-40º to 149º 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: 60 x 48 x 66cm (24" x 19" x 26"); 40kg (88lbs)
Case 2: Tripod Assembly: 157 x 52 x 35cm (62" x 20" x 14"); 25kg (55lbs)
Case 3: EL Assembly & Feedboom Supports: 141 x 57 x 67cm (56" x 22" x 26"); 30kg (66lbs)
Case 4: Feedboom Assembly & Reflector segments: 101 x 57 x 69cm (40" x 22" x 27"); 38kg (84lbs)
Case 5: Controller (Optional): 4-10U Rack Mount : 94 x 83.8 x 53cm (37" x 33" x 21"); 32 kg (70 lbs)
Climate Control case also available

Optional Feeds:

Case 6: Ku-Linear POL & EL Actuator: 77 x 69 x 35cm (30" x 28" x 14"); 22kg (49lbs)
Case 7: C-Linear POL & EL Actuator: 118 x 62 x 50cm (46.5" x 24.4" x 19.7"); 44kg (97lbs)
Case 8: C-Circular POL & Actuator: 118 x 62 x 50cm (46.5"x 24.4"x19.7"); 42kg (93lbs)
Case 9: X-Circular POL: 92x80x50cm (36"x31"x20"); 26kg (57lbs)
Case 10: Ka-Circular POL: 92x80x43cm (36"x31"x17"); 23kg (51lbs)

Shipping Weights & Dimensions

TBD

Antenna Bands

Transmit Power [1]	1 to 400 watt						1 to 500 watt	
	Ku-Linear/Circular		*C-Linear / Circular*		*Ka-Circular*		*X - Circular*	
	Receive	**Transmit**	**Receive**	**Transmit**	**Receive**	**Transmit**	**Receive**	**Transmit**
Frequency (GHz)	10.70 - 12.75[2]	13.75 - 14.80	3.40 - 4.20[2]	5.850 - 6.725/6.425	17.7-21.2[2]	27.5-31.0	7.25 – 7.75	7.90 - 8.40
Feed Interface	WR75	WR75	WR229	WR137 or Type N	WR42	WR28	WR112	WR112
INSAT Frequency Xpol (GHz)			4.50-4.80	6.275-7.025				
INSAT Frequency Copol (GHz)			4.50-4.80	6.724-7.025				
Efficiency	70%	70%						
Midband Gain (± 0.2dBi)	45.30	46.50	35.40	39.30/39.50	48.3	51.9	40.4	41.0
Antenna Noise Temp. (K)	10º EL = 60; 20º EL = 53		10º EL = 43/55; 20º EL = 38/50		10º EL = 131; 20º EL = 108		10º EL=50; 20º EL=45; 30º EL= 40	
Sidelobe Envelope, Co-Pol (dBi)								
1.5º<Θ<20º	29-25 Log Θ		2.5º<Θ<20º	29-25 Log Θ	2.8º<Θ<20º	29-25 Log Θ	DSCS Req	
20º<Θ<26.3º	-3.5		20º<Θ<26.3º	-3.5	20º<Θ<26.3º	-3.5		
26.3º<Θ<48º	32-25 Log Θ		26.3º<Θ<48º	32-25 Log Θ	26.3º<Θ<48º	32-25 Log Θ	-14dB (First sidelobe)	
48º<Θ<180º	-10 (Average)		48º<Θ<180º	-10 (Average)	48º<Θ<180º	-10 (Average)		
Cross-Polarization on Axis[3]	- 35 dB	- 35 dB	- 30 dB	- 30 dB				
Within 1dB Beamwidth	-28 dB	- 28 dB	- 26 dB	- 26 dB				
Isolation (Port to Port)	30 dB	85 dB	30 dB	70 dB	30 dB	85 dB	≥ 90 dB	≥ 90 dB

Notes:

(1) Depending on size and weight of feed arm mounting limitation
(2) LNB PLL Type required with stability better than ± 25 KHz
(3) Ku-Circular Cross-Pol on Axis data not available

613-745-4110 | 1- 877-463-8886 (1- 877-iNetVu6)
www.c-comsat.com

C-COM SATELLITE SYSTEMS INC.