

# ACFLY-1200

**iNetVu**<sup>®</sup>  
by C-COM Satellite Systems Inc.

## TECHNICAL SPECIFICATIONS

The iNetVu<sup>®</sup> Airline Checkable Flyaway antenna system is a highly portable unit with a 6-piece carbon fibre reflector that can fit in a suitcase. It is configurable with the auto-pointing iNetVu<sup>®</sup> 7024B/C Controller, cables and another electronic device such as a modem or PowerSmart power supply that can be installed in the second case.



### Features

- 1.2m offset, prime focus, 6-piece carbon fibre reflector
- 3 Axis Motorization
- Two case solution, patent pending
- Supports manual control when required
- Airline checkable
- One button, auto-pointing controller acquires any Ku band satellite within 2 minutes
- Designed to work with the iNetVu<sup>®</sup> 7024B/C Controller
- Captive hardware / fasteners
- No tools required for assembly / disassembly
- Set-up time less than 10 minutes, One person job
- Leveling capability for uneven surfaces
- Optimal high-precision antenna pointing
- Includes jog controller functions
- Remote access and operation via network, web and other interfaces
- 1 Year Standard Warranty

### Application Versatility

The Airline Checkable Flyaway system is easily configured to provide instant access to satellite communications for any application that requires remote connectivity in a rugged environment. Ideally suited for applications that require a quick, simple set-up; vertical markets such as Disaster Management, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services will benefit tremendously from the ACFLY's ease of deployment.

**C-COM**  
SATELLITE SYSTEMS INC.

[www.c-comsat.com](http://www.c-comsat.com)  
613-745-4110 | 877-463-8886

Specifications are subject to change

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### Mechanical

Reflector	1.2m Offset Feed, carbon fibre
Mount Geometry	Elevation over Azimuth
Offset Angle	15°
Antenna Optics	Single Offset
Azimuth	± 180°
Elevation	5° - 90°
Polarization	± 95°
Elevation Deploy Speed	Variable 2°/sec typ
Azimuth Deploy Speed	Variable 5°/sec typ
Peaking Speed	0.1 /sec

### Environmental

Wind loading	
Operational	
With Ballast / Anchors	50 km/h (31 mph)
Survival	145 km/h (90 mph)
Temperature	
Operational	-30° to 55° C (-22° to 131° F)
Survival	-40° to 65° C (-40° to 149° F)
Solar Radiation	360 BTU/h/sq. ft.
Rain	1.3cm/h (0.51 in/h)

### Electrical

Rx & Tx Cables	2 RG6 Cables (10m each)
Control Cables	
Standard	10m (33 ft) Ext. Cable
Optional	Up to 30m (100 ft) available

### RF Interface

Radio Mounting	Back of Reflector
Axis Transition	Rigid + Twist-flex Guide
Waveguide	WR75 Cover Flange Interface
Coaxial	RG6U F Type

### Motors

Electrical Interface	24VDC 5 Amp (Max.)
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### Cases

Case 1: 6-piece antenna platform	48.5 x 71 x 39 cm (19" x 28" x 15.3"), 32 kg (70 lbs)
Case 2: 3U Rack mount including iNetVu® 7024 controller + feed + cables:	48.5 x 71 x 39 cm (19" x 28" x 15.3"), 32 kg (70 lbs)
Case 3: Optional 5U Rack mount (empty case)	48.5 x 71 x 39 cm (19" x 28" x 15.3"), 13.5 kg (30 lbs)

### Ku-Band (Linear)

Transmit Power	1 to 200 watt	
Transmit (Tx) Frequency	13.75 - 14.50 GHz	
Receive (Rx) Frequency	10.70 - 12.75 GHz	
Feed - 2Port XPol		
	<b>Receive</b>	<b>Transmit</b>
Feed Interface	WR75	WR75
Efficiency	70%	70%
Midband Gain	41.5 dBi	43.5 dBi
Antenna Noise Temp. (K)		
10° Elevation	45	
30° Elevation	24	
Sidelobe better than	1.5° < $\theta$ < 20°	29-25 Log $\theta$ dBi
	20° < $\theta$ < 26.3°	-3.5 dBi
	26.3° < $\theta$ < 48°	32-25 Log $\theta$ dBi
	48° < $\theta$	-10 dBi Typical
Cross-Polarization on Axis	-30 dB	-35 dB
Within 1dB Beamwidth	-25 dB	-30 dB
Return Loss	17.7 dB typ.	20dB typ.
Insertion Loss	0.3 dB typ.	0.1 dB typ.
Tx/Rx Isolation	40 dB	90 dB
VSWR	1.3:1	1.3:1

### Shipping Weights & Dimensions

Platform Case: 74 cm x 43 cm x 51 cm (29" x 17" x 20"), 34 kg (75 lbs)
Controller Case: 74 cm x 43 cm x 51 cm (29" x 17" x 20"), 34 kg (75 lbs)
Optional 5U Rack Empty Case: 74 cm x 43 cm x 51 cm (29" x 17" x 20"), 14.5 kg (32 lbs)

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