FLY-101-LEO Tracker

TECHNIAL SPECIFICATIONS

iNetVu®
by C-COM Satellite Systems Inc.

The iNetVu® FLY-101-LEO Tracker is a high-performance, fully motorized flyaway antenna designed for rapid auto-acquisition and continuous tracking of LEO and MEO satellites. Powered by C-COM's 7715 controller and a custom high-precision Elevation-Over-Azimuth positioner. This rugged high-speed antenna system incorporates heavy-duty precision-machined gearing and robust servomotors to ensure reliable 24/7 operation in harsh environments. The FLY-101-LEO Tracker features a lightweight 7-segment 100 cm carbon-fiber reflector, enabling easy transport, fast setup, and tool-free deployment in under 10 minutes.

Features

- 100 cm 7-piece carbon fibre reflector
- 2 Case Solution
- Operates in Ku, Ka or X band
- Can be paired with a second system to provide continuous LEO network connectivity
- Designed to work with the iNetVu® 7715 Controller
- Monitor and Control Via Front Panel display or Web Interface
- Remote access and operation via Network or WiFi Interfaces
- 2 or 3 Axis Motorization
- Supports manual control when required
- One button, auto-pointing controller acquires satellite within 1 minute
- Captive hardware / fasteners
- No tools required for assembly / disassembly
- Set-up time less than 10 minutes, one person job
- 1 Year Standard Warranty

Application Versatility

The FLY-101-LEO Tracker Flyaway system can be easily configured to provide quick 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; in vertical markets such as emergency response, disaster management, public safety, broadcasting, media and more.

C-COM SATELLITE SYSTEMS INC.

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Specifications are subject to change

Aug 2026

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Mechanical

Reflector	100 cm segmented carbon fibre
Number of Petals	7
Platform Geometry	Elevation over Azimuth
Antenna Optics	Centre Feed
Deployment Sensors	GPS antenna
	Compass ± 5°
	Tilt sensor ± 0.1°
Azimuth	360° Continuous
Elevation	5° - 170°
Polarization	± 90° or LHCP/RHCP
Elevation Deploy Speed	Variable 11°/sec typ. up to 40°/sec
Azimuth Deploy Speed	Variable 11°/sec typ. up to 40°/sec
Peaking Speed	Variable ± 0.1°

Environmental

Wind loading	
Operational	
With Ballast/Anchors	45 km/h (28.1 mph)
Optional: With Ballast/Anchors	50 km/h (31 mph)
Survival	
With Ballast/Anchors	72 km/h (45 mph)
Temperature	
Operational	-20° to 60° C (-4° to 140° F)
Survival	-30° to 70° C (-22° to 158° F)
IP Protection	IP66
Humidity	0-100% (non-condensing)

Case

Tripod & Feed Case: 107X62.5X19cm (42.2"LX24.6" W X7.5"H); 28.2 Kg (62Lbs)

AZ/EL Case: 110X54X44cm (43.3"LX 21.3"W X17.3"H); 37.4Kg (82Lbs)

Empty Cases Weight:
AZ/EL Case: 16.8 Kg (36.5Lbs)
Tripod & Feed Case: 14.6 Kg (32Lbs)

Electrical

DC Input: 24VDC @ 6A (RMS)
AC/DC Adapter: Universal AC Input (100-277VAC) / 24VDC
Network Interface RJ45 Connector and WiFi (2.4GHz)
Control Cables: Standard 5m (16ft), Optional up to 60m (200ft)(4)

Ku-Band (Linear)

Transmit Power	1 to 200 watt	
Feed	2 Port XPol	
	Receive	**Transmit**
Frequency (GHz)	10.70- 12.75	13.75 - 14.50
Optional Low Ku	10.70- 11.70 (2)	12.75 - 14.50
Feed Interface	WR75	WR75 (3)
Midband Gain (dBi) ± 0.2 dB	40.10	41.40
Sidelobe Envelope Co-Pol (dBi)		
100λ/D°<Θ<7°	35-25 Log Θ	
7°<Θ<9.2°	13.9	
9.2°<Θ<48°	38-25 Log Θ	
48°<Θ <180°	-4 Typical	
Cross-Polarization on Axis	>35 dB	
Within 1dB Beamwidth	>30 dB	
Tx/Rx Isolation	40 dB	85 dB
VSWR	1.3:1	1.3:1

Ka-Band (Circular)

Transmit Power	1 to 200 watt	
	Receive	**Transmit**
Operating Frequency (GHz)	17.7 - 21.2(2)	27.3 - 31.0
Midband Gain (dBi) ± 0.2dB	44.50	47.60
Polarization X-POL	LHCP/RHCP Manual	
Feed Interface	WR-42	WR-28
VSWR	<1.5:1	<1.25:1
Isolation (dB)	>55	>55

X-Band (Circular)

Transmit Power	1 to 80 watt	
	Receive	**Transmit**
Operating Frequency (GHz)	7.25 - 7.75 (2)	7.90 - 8.40
Midband Gain (dBi) ± 0.2dB	36.40	37.0
Polarization X-POL	LHCP/RHCP Manual	
Sidelobe Compliant with	DSCS Req.	
Feed Interface	WR-112	WR-112
VSWR	<1.25:1	<1.25:1
Isolation (dB)	>23	>23

Shipping Weights & Dimensions*

Shipping Soft Case Size: TBD
Shipping Weight: TBD

* The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements

Notes:
(1) Weight indicated includes 4W BUC, LNB and 5m(16ft) Cables
(2) LNB PLL Type required with stability better than ± 10 KHz
(3) Maximum BUC dims supported: 14 cm x 9.8 cm x 4.2 cm (5.5" x 3.9" x 1.7"); 1 Kg (2.2 lbs) Larger BUCs must use quick disconnect flex waveguide
(4) Optional cables may require a second case

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