

TracStar1000P2-3

COBHAM

1Meter, 2 Piece Reflector, Ku Band Fly Away Antenna System Data Specification

The most important thing we build is trust

MVS1000P2-3 Fly Away System

The MVS1000P2-3 is a Ku band antenna which utilizes a 2 piece, dual skinned reflector with a rugged boom assembly that can easily support various BUC mounting configurations up to 25 Watts. The three case Fly-Away antenna system includes a pedestal case, a reflector case that also houses the boom, struts, feed and outriggers and a case with 100' IFL cables and reel. The unique outrigger design allows for operating the unit flat on the ground or easily adjusting the outriggers for stable operation in rough terrain. TracStar's leading edge control system can adjust for up to 10 degrees of error on any axis. By design, a single person can completely assemble the system in less than five minutes. Assembly and



acquisition time is typically less than 10 minutes.

Fly-Away antenna systems provide the maximum flexibility for a mobile VSAT terminal. Whether a DoD application, an emergency responder or a Continuity of Business need, the fly-away system is easily stored yet ready for business in minutes. With portable office equipment attached, business as usual is accomplished in minutes. As such, users enjoy the same reliable, secure, high-speed IP based data communications they are accustomed to in the office, while mobile.

Reflector

Size	1 Meter, 2 Piece
Material	Dual Skin, Lightweight Core
Optics	Offset Feed, Prime Focus, .635 f/d
Drive System	Patented Roto-Lok®
Mount Geometry	3 axis, El over Az

Travel

Azimuth	400° or ± 200° from Stow Position
El - Operational	0-65° (+) stow position
Polarization	± 65°

Travel Velocity

Slewing / Deploying	
Azimuth	10° per second
Elevation	5° per second
Manual Jog	1.0° or 2.0° per second

Electrical Interface

RF Interface	75Ω Tx/Tx Type F Connector
Interfacility Link	100' RG6 Coax with 1 Control Cable and Cable Reel
Motors	24 VDC Variable Speed Constant Torque
Feed Interface	WR75, Tx/Rx
Electrical Interface	
Connexall / Connexall	Control Cable
N Type - N Type	RG6 - Transmit
F - F	RG6 - Receive

Antenna Characteristics

	Ku	Rx	Tx
Frequency (Ghz)	10.7 - 12.75		13.75 - 14.5
Gain (Midband)	39.7 dBi		41.96 dBi
Antenna Noise Temperature		61° K at 10° Elevation 53° K at 30° Elevation	
Polarization		Linear Cross Pol Standard	
Cross Pol Isolation		30 dB	30dB
On Axis (Typical)			
Radiation Pattern Compliance		Intelsat Type Approval # IA084A00	

Weights & Measures

Antenna (with 4W BUC and LNB)	
Pedestal Case	23.5"W x 20"D x 30.5"H (59.7 x 50.8 x 77.5 cm)
Approximate Weight	107 lbs (48.53 kg)
Reflector/Boom/Feed/Outriggers Case	47"W x 17"D x 27"H (119.38 x 43.18 x 68.58 cm)
Approximate Weight	98 lbs (44.45 kg)

Cable Reel Case 18.5"W x 13.9"D x 19.25"H
(47 x 35.3 x 48.9 cm)

Approximate Weight 50 lbs (22.7 kg)

Controller

1RU*	19"W x 8.0"D x 1.75"H 4.5 lbs (2.04 kg)
Portable PS (2 Pcs) +	9"W x 10.25"D x 2.5"H 4.5 lbs (2.04 kg)
IDD - Display Unit	5.5"W x 3.25"D x 1.39"H (13.96 x 8.25 x 3.45 cm)

Controller

TracStar one button operation automatic satellite acquisition with integrated GPS/Compass/Level Sensors and user configurable satellite selection.

Input Power 110/240VAC, Single Phase
50/60 Hz, 6/3A peak, 1A continuous

Environmental

Wind	
Stowed	120 mph (161 kph)
Operational	45 mph @ 60° F *Anchored* (96.6 kph)
Temperature	
Operational	-20° F to 125° F
Storage	-30° F to 140°

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