

TracStar

SYSTEMS

TracStar1000P2

Critical Communication Solutions

The MVS1000P2-3 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. Fine outrigger adjustments can be made but typically are not required as 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. Total assembly and acquisition time is typi-

cally 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. Standard operation provides on demand services such as:

- Secure, high-speed digital communications
- High-speed internet access
- Voice and FAX communications
- Teleconferencing
- Wide area private network extension

• Video broadcasting
TracStar antennas feature:

- Single button push for auto-acquisition
- Rapid deployment and operation on any Ku-band satellite, worldwide
- Works with every satellite modem
- Acquires with or without compass operation
- DirectPoint acquisition with intelligent modem solutions

TracStar eliminates the need for -

- Leveling the antenna up to 10 degrees
- Special test equipment for alignment
- Computers or peripheral equipment to operate the antenna
- Phone calls to network operators or service providers

FLY - AWAY



TracStar1000P2

Reflector

Size	1 Meter, Two Piece
Material	Dual Metal Skin with Lightweight Core
Optics	Offset Feed, Prime Focus, .635 f/d
Drive System	Patented Roto-Lok® Positioner
Mount Geometry	Elevation over Azimuth

Travel

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

Travel Velocity

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

Electrical Interface

RF Interface	75Ω Tx / Tx Type F Connector
Interfacility Link	100' Dual RG6 Coax, 1 Control Cable w/Cable Reel
Motors	24V DC Variable Speed, Constant Torque
Feed Interface	WR75, Tx/Rx
Coax	Twin RG6 run from feed to base plus 100 ft.
Electrical Interface	100 ft. Cable with Connectors for Controller

Antenna Characteristics

	Receive	Transmit
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		
On Axis (typical)	30 dB	30 dB
Radiation Pattern Compliance	Intelsat Type-Approval #A084A00	

Specifications Subject to Change Without Notice.

Weights & Measures

Antenna: (With 4W Buc and LNB)		
Case Dimensions (Pedestal)	19.5"Lx23.5"Wx30.5"H	(49.5 x 59.7 x 30.5cm)
Approximate Weight	106 lbs	(48.1 kg)
Case Dimensions (Reflector/Boom/Feed/Outriggers)	46"Lx19"Wx30.25"H	(116.84 x 48.26 x 76.83cm)
Approximate Weight	106 lbs	(36.28 kg)
Case Dimensions (Cable Reel)	21"Lx15.75"Wx22.25"H	(53.34x40x56.52)
Approximate Weight w/IFL Cables	65 lbs	(29.4Kg)
Controller		
1RU	4.5 lbs	(2.04 kg)
Portable PS	19"W x 8.0"D x 1.75" H	(48.26 x 20.32 x 4.44 cm)
	4.5 lbs	(2.04 kg)
Display Unit	9"W x 10.25"D x 2.5"H	(22.86 x 26 x 6.35 cm)
	.5 lbs	(0.22 kg)
	5.5"W x 3.25"D x 1.39H	(13.96 x 8.25 x 3.45 cm)

Controller

Auto-acquisition	One-button operation automatic satellite acquisition with integrated GPS/Compass/Level Sensors and user configurable satellite selection
Size	1 RU Controller—Optional Portable Unit
Input Power	110/240 VAC, Single Phase, 50/60 Hz, 6/3A peak, 1A continuous



Mechanical

Az/EI/Pol Drive System	Patented Roto-Lok® Cable Drive System
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Environmental

Wind		
Survival		
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°F	

Related Products

N/A



TracStar Systems—Cobham SatCom

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