

The MVS1000P4-2 utilizes a 4 segment carbon fiber reflector with a rugged boom assembly that can easily support various BUC mounting configurations up to 25 Watts. The two case Fly-Away antenna system includes a pedestal case and a reflector case that also houses the boom, struts, feed and outriggers and cables. A third optional case could house a cable reel with the 100' IFL cables. Assembly is quick and easy, with reference numbers on all reflector segments and boom support struts. 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 fifteen minutes.

Fly-Away antenna systems provide the maximum flexibility for a mobile VSAT terminal. Whether a DoD ap-

plication, 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

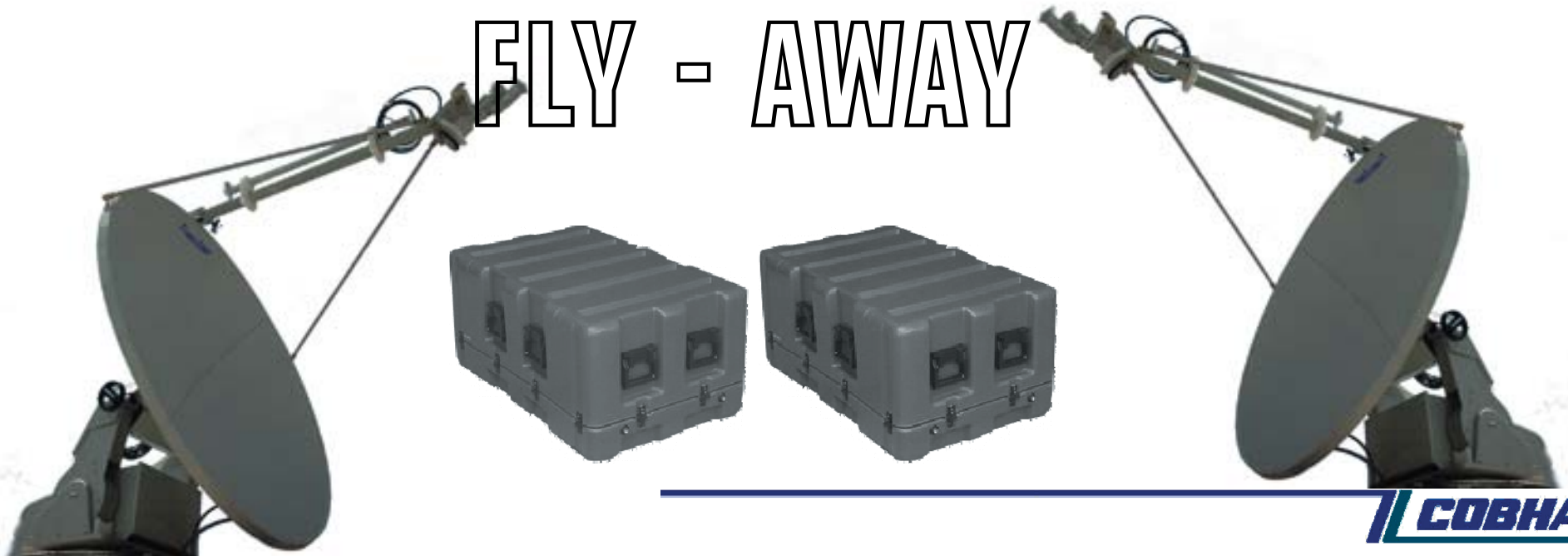
TracStar antennas feature:

- 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



TracStar1000P4

Reflector

Reflector	1.0M Carbon Fiber-Four Sector
Feed System	Standard VSAT; Optional Global Mode-Matched
Mount Geometry	Elevation over Azimuth
Polarization	Rotation of Reflector/Feed about Boresight

Travel

Azimuth	400° or ± 200° from Stow Position
Elevation-Operational	10° -65° (+) Stow Position
Polarization	±95°

Travel Velocity

Slewing/Deploying	
Azimuth	2°/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
Motors	24V DC Variable Speed, Constant Torque
Feed Interface	WR75, Tx/Rx
Coax	Twin RG6 run from feed to base plus 100 ft.
Power Consumption – Motors Active	250 Watts
Power Consumption – Idle	30 Watts

Antenna Characteristics

	Receive	Transmit
Frequency (GHz)	10.95-12.75	13.75-14.5
Gain (Midband)	39.7 dBi	41.6 dBi
VSWR	1.3:1	1.3:1
Beamwidth -3dB	1.63°	1.36°
Antenna Noise Temperature	50° K at 30° Elevation	
Polarization	Linear	Linear
Allowable Xmit Power	25W	
Cross-Pol Isolation		
On Axis (typical)	-30 dB	-30 dB
Off Axis within 1dB	-28 dB	-26dB
Radiation Pattern	29-25 Log Θ	29-25 Log Θ
Feed Port Isolation Tx/Rx	-80dB	

Weights & Measures

Antenna: (With 4W Buc and LNB)		
Case Dimensions (Pedestal)	27x37x16	(68.6x 94x 40.6 cm)
Approximate Weight	135 lbs	(61.23 kg)
Case Dimensions (Reflector/Boom/Feed/Outriggers)	27x37x16	(68.6x94x40.6 cm)
Approximate Weight	80 lbs	(36.28 kg)
Controller		
1RU	4.5 lbs	(2.04 kg)
Portable PS	4.5 lbs	(2.04 kg)
Display Unit	.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		
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



Specifications Subject to Change Without Notice.

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