

The TracStar antenna system allows personnel with little or no satellite experience to operate mobile Very Small Aperture Terminal (VSAT) satellite communications equipment, enabling the user to access any broadband application over satellite.

TracStar antennas are typically owned and operated by:

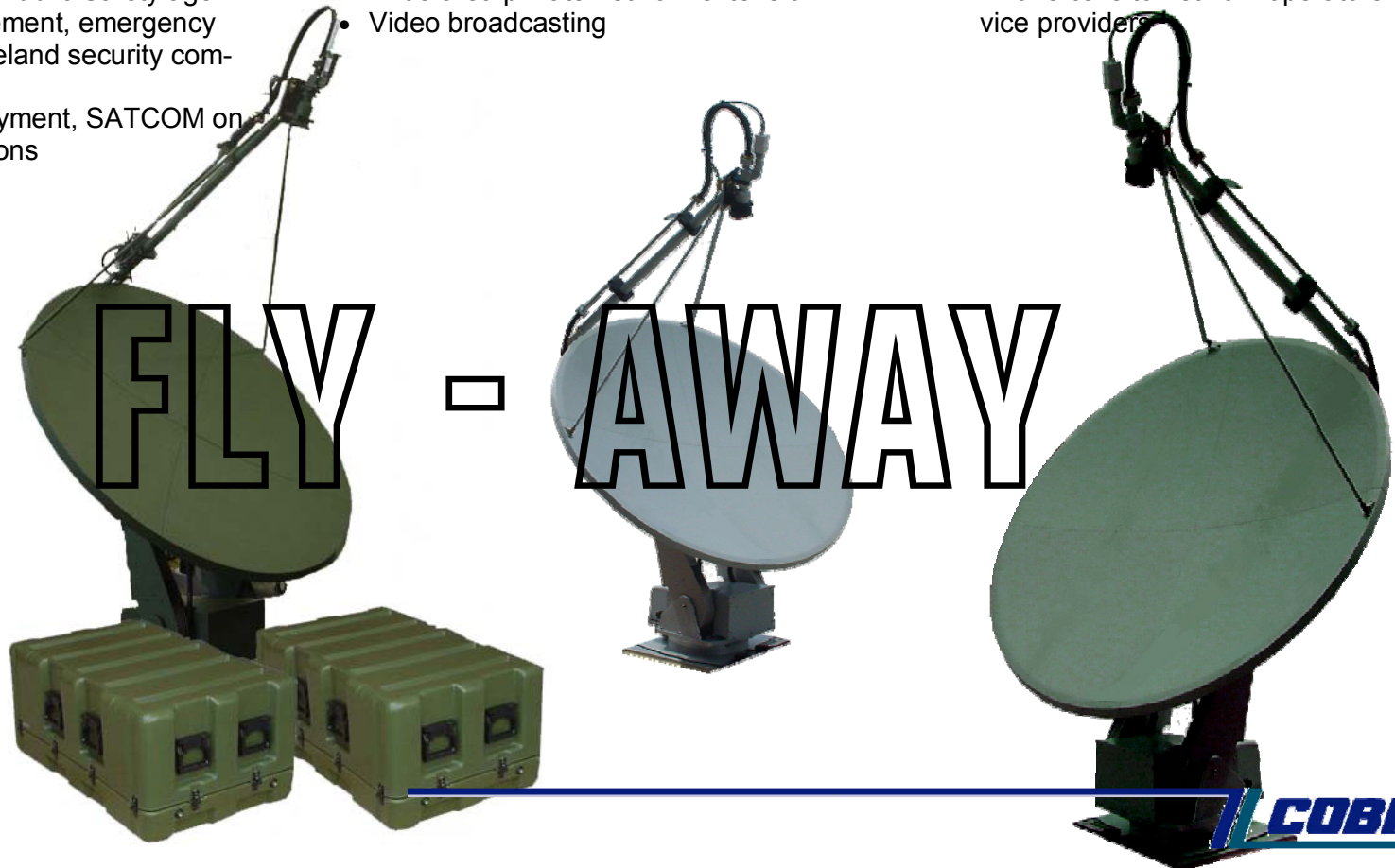
- Corporations with remote or mobile office and monitoring applications
- Federal, State and Public Safety agencies for law enforcement, emergency response and homeland security communications
- Military rapid deployment, SATCOM on the pause applications

With TracStar antennas, users enjoy the same reliable, secure, high-speed IP based data communications they are accustomed to in the office, while mobile. Users can get connected Anywhere/Anytime for applications 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:

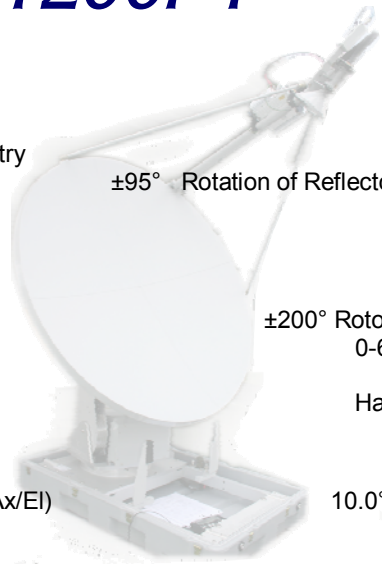
- Single button push for automatic satellite acquisition
- Rapid deployment and operation on every Ku-band satellite, worldwide
- Works with every satellite modem
- Eliminates the need for -  
Leveling the antenna up to 10 degrees  
Special test equipment for alignment  
Computers or peripheral equipment to operate the antenna  
Phone calls to network operators or service providers



# TracStar1200P4

## Reflector

Size 1.2M  
 Offset Mount Geometry Elevation over Azimuth  
 Polarization  $\pm 95^\circ$  Rotation of Reflector/Feed About Boresight  
 Composition 4 Piece Carbon Fiber



## Travel

Azimuth  $\pm 200^\circ$  Roto-Lok from Stow Position  
 Elevation 0-65° of reflector boresight  
 Polarization  $\pm 95^\circ$   
 Emergency Drive Handcrank on Az, El & Pol

## Travel Velocity

Slewing/Deploying (Ax/El) 10.0°/second / 5.0°/second  
 Peaking 5°/second  
 Manual Jog 1.0° or 0.2°/second

## Electrical Interface

RF 75 $\Omega$  Tx / Rx Type F Connector (50 $\Omega$  option)  
 Interfacility Link 32 ft: (9.75M) Dual RG6 Coax, 1 Control Cable  
 Optional 50' / 80' / 100' / 150' Lengths  
 Motors 26VDC Servo w/ Optical Encoder  
 Controller (1U) / Power Supply 50/60Hz, 110/220VAC, Single Phase  
 Power Consumption – Motors Active 250 Watts  
 Power Consumption – Idle 30 Watts

## Antenna Characteristics

	<b>Receive</b>	<b>Transmit</b>
Frequency	10.95 – 12.75 Ghz	13.75 – 14.5Ghz
Gain ( $\pm 2$ dBi)	42.0 dBi	43.5 dBi
Co-Pol/Cross-Pol Radiation Patterns meet FCC, PanAmSat, Intelsat Requirements		
Polarization	Linear	
Radiation Pattern Compliance FCC §25.209, ITU-R S-580-6		
Feed	(Standard) High Performance/Wide Band (Optional) Mode Matched	



## Physical Data

Emergency Drive Manual Handcrank of Az, El & Pol axis  
 Wedge Options Reflector Screw-on Wedge Assembly  
 (Optional) Quick Attachment Wedge Assembly (Removable)  
 RF Interface  
 HPA Mounting Separate Case or Rear of Reflector  
 Tx Interface Base of Feed Boom

## Antenna Controller

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

## Weights & Measures

Motorized Positioner & Case 173 lbs. (70.3 kg)  
 42.5 in. x 27.5 in. x 20 in. (107.95 x 69.85 x 50.8 cm)  
 Reflector Panels & Case 90 lbs. (40.82kg)  
 1.2M Four Sector Offset 42.5 in. x 27.5 in. x 20 in. (107.95 x 69.85 x 50.8 cm)  
 Portable Power Supply/Display Unit  
 Weight: Power Supply/Display Unit 4.5 lbs / .5 lbs. (2.04 / 0.22 kg)  
 Dimensions  
 Power Supply ( CE Approved) 9"Wx 10.25"Dx2.5"H (22.86 x 26 . 6.35 cm)  
 Display Unit 5½"W x 3¼"D x 1-3/8"H (13.96 x 8.25 x 3.45 cm)  
 Rack Mount (1RU)  
 Weight 4.5 lbs (2.04 kg)  
 Dimensions (inches) 19"W x 8.0"D x 1.75"H (48.26 x 20.32 x 4.44 cm)

## Environmental

Wind  
 Operational – Not Anchored 60 mph (96.8 kph)  
 Operational - Anchored 60 mph (96.8 kph)  
 Survival – In Stow Position 80 mph (128.8 kph)  
 Operational -20°F to 125°F  
 Storage -30°F to 140°F



## Related Products

MVS1200P2, MVS1200P2-F&D

*Specifications Subject to Change Without Notice.*

TracStar Systems - Cobham SatCom

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