

1.2 Meter, Vehicle Mount Antenna System Data Specification

The most important thing we build is trust

TracStar1200P2 Antenna System

The TracStar Series of vehicle mount and fly-away antenna systems 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.

The TracStar Series of 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 the TracStar Series of 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 and video broadcasting.

Reflector

Size	1.2 Meter Two Piece, SMC Compression Molded
Material	Glass Reinforced Plastics
Optics	Offset Feed, Prime Focus, .8 f/d
Drive System	Patented Roto-Lok® Positioner
Mount Geometry	Elevation over Azimuth

Travel

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

Travel Velocity

Slewing / Deploying	
Azimuth	10° per second
Elevation	5° per second
Manual Jog	1.0° or 0.2° per second

Electrical Interface

RF	75Ω Tx/Rx Type F Connector (50Ω option)
Interfacility Link	100' Dual RG6 Coax 1 Control Cable
Motors	24 VDC Variable Speed Constant Torque
Waveguide	Grove Flexible Waveguide from Feed
Coax	Twin RG6 run from feed to base plus 32'
Electrical Interface	32' (9.75M) Cable with Connectors for Controller
Manual Drive	Handcrank on Az and El Axii

Antenna Characteristics

	Rx	Tx
Frequency (Ghz)	10.95 - 12.75	13.75 - 14.5
Gain Midband	41.6 dBi	43.2 dBi
Beam Width (degrees)		
-3 dB	1.36	1.15
Antenna Noise Temperature		
	49° K at 20° Elevation	
Polarization	Linear Cross-Pol Standard Optional Co-pol	
Cross-Pol Isolation		
On Axis (minimum)	30 dB	30 dB
Radiation Pattern Compliance	FCC §25.209, ITU-R, S-580-6	

Mechanical

Az/EI Pol Drive	Patented Roto-Lok® Cable Drive System
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Weights & Measures

Antenna (w/ 4W Buc and LNB)	
Case Dimensions (Pedestal)	44"x27"x20" (111.75 x 68.58 x 50.8 cm)
Approximate Weight	190 lbs (86.18 kg)
Case Dimensions (Reflector)	55"x17"x31" (139.7 x 43.17 x 78.74 cm)
Approximate Weight w/IFL Cables	120 lbs (54.43 kg)
Controller	
1RU	4.5 lbs (2.04 kg) 19" x 8.0" x 1.75" (48.26 x 20.32 x 4.44 cm)
Portable PS	4.5 lbs (2.04 kg) 9" x 10.25" x 2.5" (22.86 x 26 x 6.35 cm)
Display Unit	.5 lbs (0.22 kg) 5.5" x 3.25" x 1.39" (13.96 x 8.25 x 3.45 cm)

Antenna Controller

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

Environmental

Wind – Survival	
Stowed	100 mph (161 kph)
Operational	60 mph (96.6 kph)
Temperature	
Operational	-20° F to 125° F
Storage	-30° F to 150° F

Specifications subject to change without notice.

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