

# TracStar1200

# COBHAM

## 1.2 Meter, Vehicle Mount Antenna System Data Specification

The most important thing we build is trust

### TracStar1200 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 Prime Focus Offset
Mount Geometry	Elevation over Azimuth
Polarization	Rotation of Feed
Reflector Material	Resin/Fiber Composite

### Travel

Azimuth	400° or ± 200° from Stow Position
El - Operational	0-65° (+) Stow Position
Polarization	± 95°

### Travel Velocity

Slewing / Deploying	2° per second
Peaking	5° per second
Manual Jog	1.0° or 0.2° per second
Manual Drive	Handcrank on Az and El Axii

### Electrical Interface

RF	75Ω Tx/Rx Type F Connector (50Ω option)
Waveguide	Grove Flexible Waveguide from Feed
Interfacility Link	30 ft. (9.14M) Control Cable and RG6 Coax,
Motors	24 VDC Variable Speed Constant Torque
Controller and Power Supply	50/60Hz, 110/220VAC Single Phase
Power Consumption -Motors Active	250 Watts
Power Consumption -Motors Idle	30 Watts

### Antenna Characteristics

	Rx	Tx
Frequency (Ghz)	10.95 - 12.75	13.75 - 14.5
Gain Midband	42.0 dBi	43.2 dBi
Beam		
-3 dB	1.4	1.2
10 dB	2.5	2.1
First Sidelobe Level (Typical)	-19 dB	-22 dB

Antenna Noise Temperature	30°K at 30° Elevation
Polarization	Linear Orthogonal Standard Optional Co-pol
Radiation Pattern Compliance	FCC §25.209, ITU-R S-580-6
Power Handling Capability	40 Watts
Feed Port Isolation	TX to RX75 dB

### Mechanical

Az/El Drive	Patented Roto-Lok® Cable Drive System w/Handcrank backup
Polarization Drive System	Direct Drive w/Manual knob backup

### Weights & Measures

Antenna w/ Reflector	(Options Dependent)
	115-125 lbs(52.16-56.69 kg)
Maximum Length w/IFL Cables Connected	74" (187.95 cm)
Height	
Stowed	19.6" (46.35 cm)
Deployed	72-5/8" (184.4 cm)
Portable Power Supply/Display Unit	
Weight - Power Supply (CE Approved)	4.5 lbs (2.04 kg)
Power Supply	9" x 10.25" x2.5" (22.86 x 26 x 6.35 cm)
Display Unit	5 1/2" x 3 1/4" x 1-3/8" (13.96 x 8.25 x 3.45 cm)
Rack Mount Power Supply/ Display Unit Combo	
Weight	4.5 lbs (2.04 kg)
Dimensions	19.0" x 8.0" x 1.75" (48.26 x 20.32 x 4.44 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
CW Option	-40° F to 125° F
Storage	-30° F to 150° F

### Options

Roof Pod

Specifications subject to change without notice.

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