



TracStar750

Critical Communication Solutions

The MVS Series from TracStar 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 MVS 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 TracStar's MVS Series 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

HI-PERFORMANCE



TracStar750

Reflector

Size 75cm Ku-band elliptical (89 cm wide x 62 cm high)
 Mount 3-Axis: Polarization over Elevation over Azimuth
 Polarization Linear, Co or Cross-Polarized

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 0.2°/second

Electrical Interface

RF 75Ω Tx / Rx Type F Connector (50Ω option)
 Interfacility Link 32 ft: Twin RG6 Coax, 1 Data Cable
 Motors 24VDC Variable Speed
 Controller (1U) / Power Supply 50/60Hz, 110/220VAC, Single Phase
 Power Consumption – Peak 150 Watts
 Power Consumption – Continuous 20 Watts

Antenna Characteristics

	Receive	Transmit
Frequency	11.7-12.75 GHz	13.75-14.5 GHz
Gain (±.2dBi)	37.8 dBi @ 11.95Ghz	39.3 dBi @ 14.25Ghz
VSWR	1.30:1	1.30:1
Beam width in Orbital Arc (degrees) -3dB	2.0 degrees @ 12.0Ghz	1.6 degrees @ 14.3Ghz

Antenna Noise Temperature 50°K @ 30° EI
 Polarization Linear, Cross-pol Standard, Co-pol optional
 Radiation Pattern Compliance FCC §25.209, ITU-R S-580-6

Weights & Measures

Approximate Weight (w/o BUC/ LNB) 92 lbs (41.73kg)
 Maximum Length with IFL Cables Connected (LNB Dependent) 53" (134.6 cm)
 Height
 Stowed 12.5" (31.7 cm)
 Deployed 42" (106.68 cm)
 Width (Reflector) 36.2" (91.94cm)
 Load Frame 21" x 45.4" (53.34 x 115.3 cm)



Antenna Controller

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

Power Supply / Auxiliary Control Unit

Desk Top Power Supply - 9"W x 10.25"D x 2.5"H	(22.86 x 26 x 6.35 cm)
Weight 4.5 lbs	(1.98 kg)
Display - 5½"W x 3¼"D x 1-3/8"H	(13.96 x 8.25 x 3.45 cm)
Weight 0.5 lbs	(.22 kg)
Rack Mount (1U) 19"W x 8.0"D x 1.75"H	(48.26 x 20.32 x 4.44 cm)
Weight 4.5 lbs	(1.98 kg)

Environmental

MVS750 - Wind
 Survival - Stowed 125 mph (201.25 kph)
 Operational 60 mph at 60° F (96.6)
 MVS750P – Wind
 Operational 30mph gusting to 45mph (48.3 to 72.45kph)
 Temperature
 Operational -20°F to 125°F
 Storage -30°F to 150°F



Specifications Subject to Change Without Notice

