

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
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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

PORTABLE



TracStar750P

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
Optional Cables to 150' lengths available on order	
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 Antenna Weight (w/o BUC/ LNB or Case)	92 lbs	(41.73 kg)
Case Dimensions	55"W x 43.5"D x 20"H	(139.7 x 110.4 x 50.8 cm)
Case Weight (w/o antenna)	115 lbs	(52.16 kg)
Height (Case Lid Removed)		
Stowed	18.5	(46.98 cm)
Deployed	49 inches	(124.46 cm)
Power Supply / Auxillary Control Unit		
Desk Top Power Supply - 9"Wx 10.25"Dx2.5"H		(22.86 x 26 x 6.35 cm)
Weight	4.5 lbs	(2.04kg)
Display - 5½"W x 3¼"D x 1-3/8"H		(13.96 x 8.25 x 3.45 cm)
Weight	0.5 lbs	(0.22 kg)
Rack Mount (1RU) 19"W x 8.0"D x 1.75"H		(48.26 x 20.32 x 4.44 cm)
Weight	4.5 lbs	(2.04 kg)

Antenna Controller

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



Environmental

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

Specifications Subject to Change Without Notice

