

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



MVS1200

Reflector

Reflector
Mount Geometry
Polarization
Reflector Material



1.2 Meter Prime Focus Offset
Elevation over Azimuth
Rotation of Feed
Glass Reinforced Plastics

Travel

Azimuth 400° or ±200° from Stow Position
Elevation 0-65° of reflector boresight
Polarization ±95°

Travel Velocity

Slewing/Deploying 2°/second
Peaking 5°/second
Manual Jog 1.0° or -0.2° / 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 32ft (9.75M) Control Cable and Twin RG6 Coax
Motors 24V DC Variable Speed, Constant Torque
Controller & Power Supply 50/60 Hz, 110/220VAC, Single Phase
Power Consumption—Motors Active 250 Watts
Power Consumption—Motors Idle 30 Watts

Antenna Characteristics

	Receive	Transmit
Frequency (GHz)	10.95-12.75	13.75-14.5
Gain (Midband)	42.0 dBi	43.2 dBi
VSWR	1.30:1	1.30:1
Beamwidth (degrees)		
-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.528.5	
Power Handling Capability	40 Watts	
Feed Port Isolation – TX to RX	75 dB	

Specifications subject to change without notice.

Controller

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



Mechanical

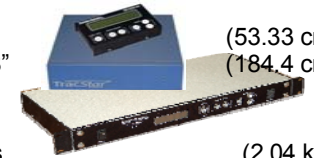
Az/El Drive System Patented Roto-Lok® Cable Drive System
Polarization Drive System Stainless Steel Chain Drive

Weights & Measures

Antenna with Reflector 115 to 125 lbs (Options Dependent)
(52.16 to 56.69 kg)
(187.95 cm)

Maximum Length with IFL Cables Connected 74"
Height

Stowed 21" (53.33 cm)
Deployed 72-5/8" (184.4 cm)



Portable Power Supply/Display Unit

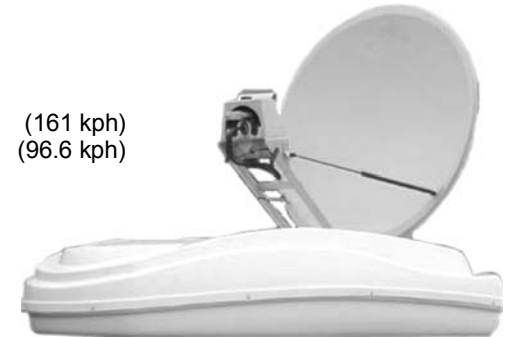
Weight - Power Supply (CE Approved) 4.5 lbs (2.04 kg)
Display Unit 0.5 lbs. (0.22kg)
Power Supply 9"Wx 10.25"Dx2.5"H (22.86 x 26 x 6.35 cm)
Display Unit 5 1/2"W x 3 1/4"D x 1-3/8"H (13.96 x 8.25 x 3.45 cm)

Rack Mount (1RU)

Weight 4.5 lbs. (2.04 kg)
Dimensions 19.0"W x 8.0"D x 1.75"H (48.26 x 20.32 x 4.44 cm)

Environmental

Wind
Survival
Stowed 100 mph (161 kph)
Operational 60 mph (96.6 kph)
Temperature
Operational -20°F to 125°F
Storage -30° to 140°F



Options

Roof Pod

Related Products

MVS1200P2, MVS1200P4

