

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



# TracStar960LR

## Reflector

Size	96cm Ku-band round
Mount	3-Axis; Polarization over Elevation over Azimuth
Polarization	Rotation of Reflector/Feed System about bore sight

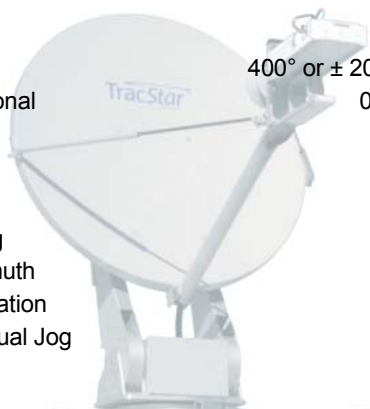
## Travel

Azimuth	400° or ± 200° from Stow Position
Elevation—Operational	0-65° (+) Stow Position
Polarization	±55° or ± 95°

## 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
Interfacility Link	32 ft: RG6 Twin Coax; 1 Data Cable
Motors	24VDC Variable Speed w/Optical Encoders
Controller (1U) / Power Supply	50/60Hz, 110/220VAC, Single Phase
Power Consumption – Motors Active	300 Watts
Power Consumption – Motors Idle	20 Watts

## Antenna Characteristics

Frequency	<b>Receive</b> 10.70-12.75 Ghz	<b>Transmit</b> 13.75-14.5 Ghz
Gain (±.2dBi) Midband	39.7 dBi @ 11.95 GHz	41.2 dBi
Beamwidth in Orbital Arc (degrees)		
-3dB	1.8 @ 12Ghz	1.5 @ 14.3 Ghz
Antenna Noise Temperature		
10° Elevation Angle	53*K	
20° Elevation Angle	39*K	
30° Elevation Angle	32*K	

Antenna Cross-Polarization	≥30dB in 1 dB Contour
Radiation Pattern Compliance	FCC §25.209, ITU-R S-580-6

VSWR	1.3:1 Max
Isolation	<b>35dB Min</b> <b>70dB Min</b>
Feed Interface	WR75 cover Flange (UBR120)



## Weights & Measures

Approximate Weight (w/o BUC / LNB)	125lbs (56.69kg)
Max. Length w/IFL Cables Connected	68.3" (173.48 cm)
Height Stowed—Standard Configuration	17.3" (43.94 cm)
Low Rider Configuration	15" (38.1 cm)
Deployed	55.0" (139.7 cm)
Portable Power Supply/Display Unit	
Weight - Power Supply ( CE Approved)	4.5 lbs.
Display Unit	0.5 lbs.
Dimensions -	
Power Supply	9"Wx 10.25"Dx2.5"H (22.86 x 26 x 6.35 cm)
Display Unit	5 ½"W x 3 ¼"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)

## Antenna Controller

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

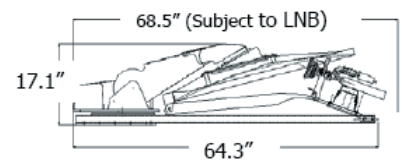
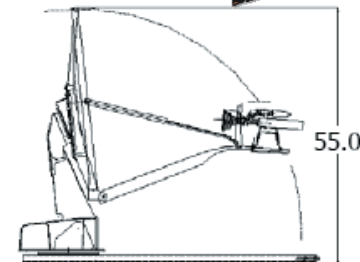
## Environmental

MVS960 - Wind	
Survival Stowed	125 mph (201.25 kph)
Operational	60 mph (96.6 kph) @ 60° F
MVS960P – Wind	
Operational	30mph gusting to 45mph (48.3 kph gusting to 72.45)
Temperature	
Operational	-20°F to 125°F
Storage	-30°F to 125°F

## Related Products

MVS960, MVS960P-1, MVS960P-2

*Specifications are subject to change without notice*



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