



TracStar1800C

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:

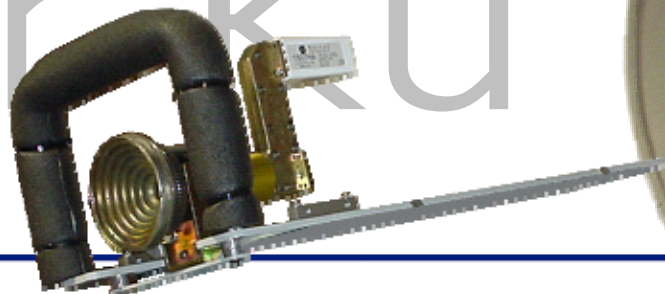
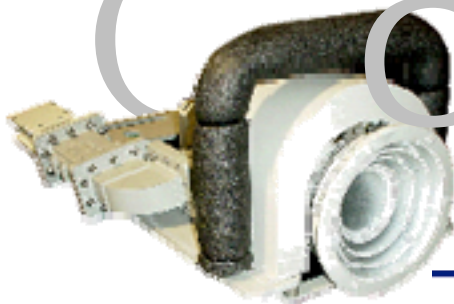
- Single button push for automatic satellite acquisition
- Rapid deployment and operation on every Ku-band satellite, worldwide
- Works with every satellite modem
- Eliminates the need for -
Leveling the antenna up to 10 degrees
Special test equipment for alignment
Computers or peripheral equipment to operate the antenna
Phone calls to network operators or service providers

Features:

- Easily interchangeable feed to operate on C or Ku band systems.
- TracStar DirectPoint* acquisition method

DUAL-BAND

C or Ku



COBHAM

TracStar1800C

Reflector

Reflector

Optics
Drive System
Mount Geometry
Polarization Adjustment

1.8 meter Single-skin Steel
C Band Feed Corrugated Horn, .6 F/D
Offset, Prime Focus
Patented Roto-Lok® Positioner
Elevation over Azimuth
Rotation of Feed



Travel

Azimuth
Elevation
Polarization
Emergency Drive

400° ±200° from Stow Position
0-65° of reflector boresight
±95°
Handcrank on Az, El & Pol

Travel Velocity

Slewing/Deploying (Ax/El)
Peaking
Manual Jog
Manual Drive

10.0°/second / 5.0°/second
0.2°/second
1.0° or 0.2°/second
Handcrank on Az and El Axii, Leads from 12V DC Pol Motor

Electrical Interface

RF
Interfacility Link

75 Ω Tx / Rx Type F Connector (50 Ω option)
32 ft: Dual RG6 Coax, 1 Control Cable
Optional 50' / 80' / 100' / 150' Lengths

Motors
Controller (1U) / Power Supply
Power Consumption – Motors Active
Power Consumption – Idle

24VDC Servo w/ Optical Encoder, Constant Torque
50/60Hz, 110/220VAC, Single Phase
250 Watts
30 Watts

Antenna Characteristics

	Receive	Transmit
Frequency (GHz)		
Standard	3.625-4.2	5.85-6.425
Insat	4.500-4.8	6.75-7.025
Gain (Midband)		
2-port	35.5 dBi	39.2 dBi
VSWR	1.30:1	1.30:1
Beamwidth (degrees)		
-3 dB	3.0	2.0
-15 dB	5.1	3.3
First Sidelobe Level (Typical)	-16 dB	-16 Db
Radiation Pattern Compliance	32-25 Logi 3.2° to 7°	29-25 Logi 2.2° to 7°
Antenna Noise Temperature	45° K at 10° Elevation	
Polarization—Linear		
Power Handling Capability	40 watts at TX Port	
Cross-Pol Isolation On-Axis (minimum)		
	30 dB	30 dB
Feed Port Isolation - TX to RX	40 dB	70 dB

Antenna Controller

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



RF Interface

BUC Mounting
Waveguide
Coax
Electrical Interface

Feed Boom or Rear of Reflector
WR 75 Groove Flange at Interface Point
RG6 from feed to base plus 32ft. Twin RG6 IFL Cable
32 ft. (9.75m) Cable with Connectors for Controller

Weights & Measures

Weight
Stowed Dimensions w/o Feed
Stow Height w/Ku Band Feed

360lbs. (163 kgs)
103½ L x 74¼ W x 22 H inches
(263 L x 189 W x 56 H cm)
28" (71.11 cm)

Portable Power Supply/Display Unit

Weight: Power Supply/Display Unit
Dimensions

4.5 lbs / .5 lbs. (2.04 / 0.22 kg)

Power Supply
Display Unit

9"W x 10.25"D x 2.5"H (22.86 x 26 x 6.35 cm)
5½"W x 3¼"D x 1-3/8" (13.96 x 8.25 x 3.45 cm)

Rack Mount (1RU)

Weight
Dimensions (inches)

4.5 lbs (2.04 kg)
19"W x 8.0"D x 1.75"H (48.26 x 20.32 x 4.44 cm)

Environmental

Wind

Survival

Deployed

60 mph (96 kph)

Stowed

80 mph (128 kph)

Operational

30 mph (48 kph), Gusts to 45 mph (72 kph)

Pointing Loss in Winds

20 mph (32 kph)

0.2 dB RMS, 0.2 degrees Typical

30 Gusting to 45 mph (48 to 72 kph)

0.7 dB RMS, 0.4 degrees Typical

Temperature

Operational

±5° to 125°F (-29° to 52° C)

Survival

-40° to 140°F (-40° to 60° C)

Related Products

MVS1800K



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