



## 2.4 Meter Troposcatter Antenna

The 2.4m antenna is an ultra-light weight, high gain portable system with automatic pointing capability. The rugged, rigid, and easily deployable flyaway antennas are designed for worldwide operation. The antennas are supplied with a troposcatter band feed assembly operating in the 4.4 to 5.0 GHz frequency range, but can operate from 7.125 to 7.725 GHz by changing the feedhorn only. The antennas are composed of carbon fiber structure, segmented reflector panels, and are equipped with motorized positioners.

The antenna design is extremely light-weight and rugged with exceptional stiffness for optimal performance, even under high-wind conditions.

The prime focus optics with troposcatter matched feed, coupled with the excellent profile and surface accuracy achieved with the unique carbon fiber reflectors, results in unrivaled sidelobe and cross-pol isolation performance.

Antenna systems are packaged in nine rugged cases for ease of transport and protection.



### Features

- 2.4 m C-Band
- Adjustable elevation to 10 feet
- $\pm 60$  degree range of movement
- Auto point accuracy to 0.2 degrees
- Operational in 50 MPH, gusting to 67 MPH winds
- Common GUI
- Set up in 30 minutes, 2 technicians

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## Technical Specifications

Description	Specification
Frequency	4.4 GHz to 5.0 GHz
Diameter	2.4 meters
Antenna Efficiency	> 60%
VSWR	≤ 1.06 : 1
Impedance	50 Ohms
RF Power	2 kW CW
Antenna Gain Mid Band	39.3 dB minimum @ 4.7 GHz
Radiation Pattern	per ITU-R F.699 reference radiation pattern recommendation
Elevation Range	-5 to +45 degrees, minimum, when deployed
Azimuth Range	+/- 60 degrees, at 10 ft., when deployed
Pointing Accuracy	+/- 0.2 degrees (Azimuth and Elevation)
Monitor and Control	Via GUI and SNMP
Input Power	48 VDC
Antenna Height	1.83 meters (6 feet) retracted 3.05 meters (10 feet) extended
Wind	Operating: Operate safely in sustained wind speeds up to 50 mph (80 km/h), gusting to 67 mph (108 km/h) Erected and lowered in steady winds of 25 mph (40 km/h) and wind gusts of up to 34 mph (54 km/h)



The adjustable elevation from 6 to 10 feet eliminates the need to place the terminal on top of structures or containers and increases link distance from existing transportable systems.