



DEPLOYABLE (TACTICAL) X/Y || LEO TRACKING ANTENNA

FROM DESKTOP
TO EDGE OF
NETWORK

The Deployable (Tactical) X/Y Leo Tracking Antenna pedestal technology is specifically designed for quick-deployment LEO satellite tracking applications for short-term and permanent use. Designed around our proven X/Y technology precision antenna systems, this solution can be transported on a commercial airline and can be setup by two individuals in less than one hour without tools or special equipment.

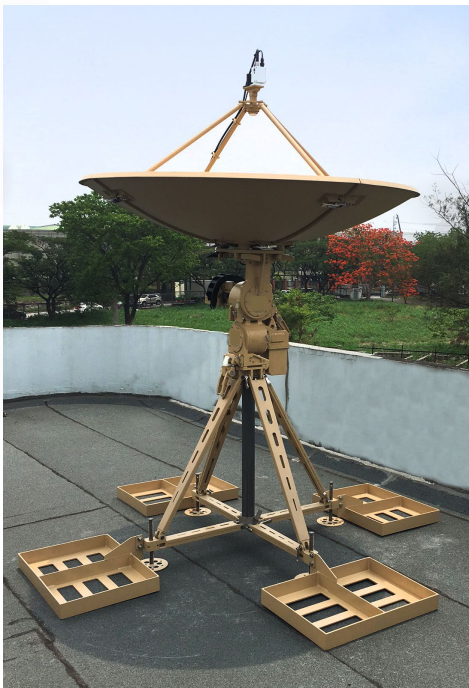
With a flexible system configuration, low power consumption and high reliability, the Deployable X/Y Tracking Antenna includes Ethernet (TCP/IP) remote control for monitoring and control based on a Linux operating system. Additional features include a TLE-based program track satellite scheduler, precision petal carbon composite reflectors, and single and multi-band frequencies from L-band to Ka-band.

The Deployable X/Y Tracking Antenna includes a differential GPS system and integrated inclinometer that provides automatic pointing alignment. Comtech Space & Component Technology offers a range of fixed, transportable and deployable configurations from 1.5 meters to 13 meters. Coupled with our installation expertise and worldwide support in extreme environments, we offer the complete satellite tracking solution.

Specifications

Available Options:

- Multi-Frequency Feeds
- LHC/RHC Polarizations
- High Performance LNAs
- Frequency Agile LNBS
- Ancillary Equipment:
 - Frequency Converters
 - Spectrum Analyzers
 - RF Switching
 - Demodulators/Modems
 - HPA
- Trailer Mountable
- Environmentally-Controlled Equipment Cabinets



Mechanical	
Antenna Mount	Type 1 X/Y, with quad-pod non-penetrating ground mount
Antenna Aperture Size	*1.8 meter, carbon fiber (petal) reflector
Pointing Accuracy	<0.1°
Position Step Resolution	0.00004°
Acceleration	10°/s ² max
Velocity	4°/s typical
Degrees of Freedom	2 (X and Y)
Axis Travel	Full hemispheric coverage
Horizon Limits	-2° typical
System Weight Typical	350lbs (excluding ballast weight)

Control System	
Interface	Ethernet
Power	110/240VAC, 1ph, 15A 50-60HZ
Operating System	Linux

RF		
Frequency Range	L, S, X, C, and Ku Band	
Polarization	LHCP and/or RHCP	
Feed Configuration	Prime Focus	
Typical G/T Performance (1.8 meter)	5° elevation	10° elevation
	S Band—9.4 dB/K	S Band—9.8 dB/K
	X Band—20.0 dB/K	X Band—20.5 dB/K

Environmental	
Wind Speed	81 km/hr (50 mph) 113 km/hr (70 mph)
Temperature	-10°C - +50°C (14 F - +122 F) Operational -40°C - +70°C (-40 F - +158 F) Survivable
Humidity	100% Relative Humidity
Driving Rain	Up to 10 cm/hr (4 in/hr)

*Larger or smaller reflectors can be provided



X/Y || DEPLOYABLE LEO