



## P-X/Y-100

The P-X/Y-100 Deployable 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 in very short-time without special equipment.

Trough dual GPS to achieve accurate direction finding and positioning. The high precision resolver is used to achieve automatic calculation of altitude information, angle information and coordinate conversion. Lead the antenna quickly to point to the target and achieve precision and accurate tracking target by program lead.

The antenna system adopts wide range AC 220V for power supply and can customize the power supply mode as per the customer's specific requirements.

## Key Features

- 70 % of the system is made of Carbon-Fiber with low weight, high strength and is easy for portable application
- L, S, X, Ku and Ka Band versions available
- Motorized and manual control modes for the convenience of emergency operation under various environments
- Provides high speed and automatic tracking for GEO, LEO, MEO satellites and UAV's
- Portable, Compact, Light-weight
- Rugged Construction
- High Reliability and Accuracy
- High Torque and Zero-Backlash
- Fast Slew Rates
- Brushless DC Motors





#### GENERAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Travels	$\pm 90^\circ$	$\pm 90^\circ$	$\pm 115^\circ$
Speed	$5^\circ / \text{sec}$	$5^\circ / \text{sec}$	$4^\circ / \text{sec}$
Acceleration	$5^\circ / \text{sec}^2$	$5^\circ / \text{sec}^2$	$3^\circ / \text{sec}^2$
Reflector Diameter	1.0m		
Tracking method	Program and step tracking		
Pointing accuracy	$\leq 0.1^\circ$		

#### RF CHARACTERISTIC

Frequency (GHz)	Tx	12.25GHz ~ 12.75GHz
	Rx	13.75GHz ~ 14.50GHz
Antenna Gain ( $\pm 0.2$ dBi)	Tx	$\geq 39.2$ dBi
	Rx	$\geq 40.2$ dBi
RF interface	WR-75	
Power Capacity	$\leq 100$ W	

#### ENVIRONMENTAL SPECIFICATIONS

Temperature	Operational	$-40^\circ\text{C}$ to $60^\circ\text{C}$
	Survival	$-50^\circ\text{C}$ to $70^\circ\text{C}$
Wind Speed	Operational	40 km/h
	Survival	70 km/h
Rain	Survival in heavy rainstorm	
Humidity	Up to 100% with condensation	

Compliances / Certificates



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