



PXY-100

Rapid-Deployment X/Y Technology for LEO Tracking

The PXY-100 Deployable X/Y Leo Tracking Antenna pedestal is engineered for quick-deployment LEO satellite tracking, suitable for both short-term and permanent missions. Built on proven X/Y precision technology, this system transports via commercial airline and sets up rapidly without requiring special equipment or tools.

Dual-GPS Precision Positioning

Dual GPS receivers enable accurate direction finding and positioning, while high-precision resolvers automatically calculate altitude, angle information, and coordinate conversion. The system rapidly points to the target through program-led acquisition.

Flexible Power Supply

The antenna system operates on wide-range AC 220V power supply, with customizable power options available to meet specific customer requirements. This flexibility ensures reliable operation across diverse deployment scenarios, from remote field locations to permanent installations worldwide.

Key Features

- L. S. X. Ku and Ka Band versions available
- 70% of the system is made of Carbon-Fiber with light weight, high strength and is easy for portable application
- 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
- Ruggedized Construction





TECHNICAL SPECIFICATIONS / PXY-100 Scan the QR code for more information.

GENERAL SPECIFICATIONS

Antenna Diameter
Antenna Concept
Tracking method
Pointing accuracy

PXY-100

1.0m
Segmented
Program and step tracking
≤0.1°

RF CHARACTERISTIC

Frequency (GHz) Tx
Frequency (GHz) Rx
Antenna Gain (±0.2 dBi) Tx
Antenna Gain (±0.2 dBi) Rx
RF interface
Power Capacity

PXY-100

12.25 ~ 12.75
13.75 ~ 14.50
≥ 39.2
≥ 40.2
WR-75
≤ 100 w

MECHANICAL SPECIFICATIONS

Antenna Travel Range
Antenna Speed
Antenna Acceleration
Reflector Diameter

Azimuth

± 90 °
5° / sec
5° / sec ²
1.0m

Elevation

± 90 °
5° / sec
5° / sec ²
1.0m

Polarization

± 115 °
4° / sec
3° / sec ²
1.0m

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational
Temperature Range Survival
Wind Speed Operational
Wind Speed Survival
Rain
Humidity

PXY-100

-40°C to 60°C
-50°C to 70°C
40 km/h
70 km/h
Survival in heavy rainstorm
Up to 100% with condensation

Specifications are subject to change.