



Size: 2.4m

PXY-240

Rapid-Deploy X/Y Pedestal for LEO Tracking

The PXY-240 combines rapid deployment with robust X/Y pedestal technology for LEO satellite tracking. For short-term or permanent installations, it transports via commercial airline and deploys without specialized equipment. Built on proven precision technology, it delivers reliable performance in any environment.

Multiple Operating Modes

Supporting standby, manual, pointing, program tracking, auto tracking, and memory tracking modes, the PXY-240 offers complete flexibility. Dual GPS receivers enable high-precision positioning, while resolvers calculate altitude, angle data, and coordinate conversion for accurate target acquisition.

Program-Led Tracking

The system programmatically directs the antenna to target, maintaining accurate tracking throughout satellite passes. Operating on wide-range AC 220V, the PXY-240 can be tailored to meet specific power requirements, ensuring reliable operation across global deployment scenarios.

Key Features

- 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
- Satellite position storage and modification function for the satellite position parameters of at least 10 satellites
- High Reliability and Accuracy
- High Torque and Zero- Backlash
- Fast Slew Rates





GENERAL SPECIFICATIONS

Reflector Diameter	2.4m
Reflector Type	Ring Focus Parabolic
Antenna Concept	Segmented
Power Supply	220V AC 50Hz
Power Consumption	< 2kW

PXY-240

RF CHARACTERISTIC

	L-Band	S-Band	X-Band	Ku-Band	Ka-Band
Frequency (GHz) Tx	1.4 - 1.7	2.2 - 2.4	7.25 - 7.75	10.70 - 12.75	17.7 - 21.2
Frequency (GHz) Rx	1.4 - 1.7	2.2 - 2.4	7.9 - 8.4	13.7 - 14.5	27.5 - 31.0
Antenna Gain (±0.2 dBi) Tx	28.9	32.3	43.8	47.1	50.6
Antenna Gain (±0.2 dBi) Rx	28.9	32.3	43.9	48.7	54.4
WSVR	≤ 1.5:1	≤ 1.5:1	≤ 1.3:1	≤ 1.3:1	≤ 1.5:1
Polarization	Dual Circular	Dual Circular	Circular	Linear	Circular
Axial Ratio (dB)	≤ 2.0	≤ 2.0	≤ 1.5	≤ 35 (Cross Pol.)	≤ 1.4
Interface	N-50K	N-50K	WR112	WR75	
Antenna Pattern Compliancy	ITU-R S.580-6 and ITU-R S.465-6				

MECHANICAL SPECIFICATIONS

	Y Axis	X Axis
Antenna Motion Range	± 90°	± 90°
Antenna Drive Rate	0.1°-5°/S	
Motor	DC Servo	
Weight	≤ 280Kg	

ENVIRONMENTAL SPECIFICATIONS

	PXY-240
Temperature Range Operational	-40°C - +55°C
Temperature Range Survival	-40°C - +70°C
Wind Speed Operational	50 km/h
Wind Speed Survival	72 km/h
Protection Grade	IP65
Solar Radiation	1135W/m2
Humidity	98%
Ice Loading	50mm
Survival Rainfall	20 cm/h

Specifications are subject to change.

