



Size:

7.30m

PTA-730

Compact and Portable Design

The PTA-730 is a transportable satellite antenna mounted on a trailer, designed for use in different applications and bands. The antenna, together with RF equipment, folds automatically into a compact unit without any disassembling, enabling quick setup and easy transportation.

Seamless Tracking and Multi-Band Feed System

The servo turntable with A/E + tilt axis eliminates the blind spot over the top, providing uninterrupted tracking capability. The feed-horn system is available for Ku, Ka, X, and C bands as an option, offering flexibility to meet various frequency requirements.

Advanced Control and Positioning Systems

The PTA-730 is compatible with the PALS PAC-550 military-type antenna controller. Equipped with a GPS system, position detection system, and high-performance satellite beacon receiving system, it ensures precise positioning and reliable satellite tracking.

Key Features

- C, X, Ku, Ka Bands are available
- Supports manual & auto-tracking features
- Side wing electrical deploy and stow
- Lightweight, high-strength, and high-precision carbon-fiber reflector
- Supports DVB-S/DVB-S2, beacon
- Satellite locking within 15 minutes
- High-accuracy GPS & anti-interference electronic compass
- Manual drive tool kit for emergency situations
- Optional Beacon Tracking
- Optional De-Ice System





GENERAL SPECIFICATIONS

Reflector Diameter	7.3m
Reflector Material	Carbon Fiber
Antenna Concept	Foldable
Power Consumption of the Whole System	4KW
Power Supply	AC380V 50 /60HZ
Motor AC	Servo

PTA-730

RF CHARACTERISTIC

	X-Band	Ku-Band	Ka-Band
Operational Frequency (GHz) Tx	7.70~9.00	10.70~12.75	17.70~21.20
Operational Frequency (GHz) Rx	7.145~7.25	13.75~14.50	27.50~31.00
Antenna Gain (dB) Tx	≥53.40	≥57.60	≥60.70
Antenna Gain (dB) Rx	≥51.90	≥58.70	≥64.20
Isolation (dB) Tx to Rx	≥ 30	≥90	≥ 30
Isolation (dB) Rx to Tx	≥90	≥40	≥90
Pol Mode	Circular	Linear	Circular
Axial Ratio (dB)	≤1	≥ 35 (Crosspole)	≤1.5dB
VSWR (Tx&Rx)	1.35	1.5:1	< 170K (EL 5°, 23°C)
Noise Temperature	< 100K (EL 5°, 23°C)	< 80K (EL 10°, 23°C)	< 170K (EL 5°, 23°C)
Interface Form	WR137. WR229	WR112	WR75

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Antenna Travel Range	± 110°	5~90°	± 90°
Antenna Travel Speed	0.10~10°/s	0.10~5°/s	0.10~3°/s
System Deployment Time	200min		
System Withdrawal Time	170min		
Number of Operators	4		

ENVIRONMENTAL SPECIFICATIONS

	PTA-730
Temperature Range Operational	-30°C to +60°C
Temperature Range Survival	-40°C to +70°C
Wind Speed Operational	72km/h
Wind Speed Survival	150km/h
Humidity (Relative)	0~100%
Altitude	4000m

Specifications are subject to change.

