



## PTA-730

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

The servo turntable with A/E+ tilt axis is adopted to overcome the blind area over the top and has the tracking ability without blind area. The feed-horn system is available for Ku, Ka, X and C Band as an option.

PTA-730 can be used with PALS PAC-550 military-type antenna controller. It is provided with GPS system, position detection system and high-performance satellite beacon receiving system.

## COMPATIBILITY

- MIL-STD-810G Compliant
- MIL-STD-461F Compliant
- MIL-STD-1472 Compliant
- MIL-STD-188-164A Compliant
- ITU-RS-580 Compliant
- ITU-RS-465-6 Compliant

## Key Features

- Support manual, auto and auto tracking features,
- C, X, Ku, Ka Band options are available,
- Three axis motorization,
- Carbon-Fiber reflector with light-weight, high strength and high accuracy,
- Convenient installation on the platform of trailer,
- Support DVB-S/DVB-S2, beacon in satellite locking within 15 minutes,
- High accurate GPS and anti-interference electronic compass,
- Manual drive tool kit for emergency situations
- High gain, low side-lobe, high accuracy and very good cross polar rejection
- Optional beacon tracking,
- Optional De-Ice



## GENERAL SPECIFICATIONS

Reflector Diameter	7.3m
Reflector Material	Carbon Fiber
Concept	Azimuth / Elevation + Tilt Access

## RF CHARACTERISTIC

		X-Band	Ku-Band	Ka-Band
Operational Frequency (GHz)	Rx	7.145 ~ 7.25GHz	13.75 ~ 14.50GHz	27.50 ~ 31.00GHz
	Tx	7.70 ~ 9.00GHz	10.70 ~ 12.75GHz	17.70 ~ 21.20GHz
Antenna Gain (±0.2 dBi) (Mid Band)	Rx	≥51.90	≥58.70	≥64.20
	Tx	≥53.40	≥57.60	≥60.70
Isolation (dB)	Rx-Tx	≥ 90	≥ 40	≥ 90
	Tx-Rx	≥ 30	≥ 90	≥ 30
Pol Mode		Circular	Linear	Circular
Axial Ratio (dB)		≤ 1	≥ 35 (Crosspole)	≤ 1.5dB
VSWR (Tx&Rx)		1.35	1.5:1	1.7
Noise Temperature		< 100K (EL 5°, 23°C)	< 80K (EL 10°, 23°C)	< 170K (EL 5°, 23°C)
Side Lobe		≤-14dB	≤-14dB	≤-14dB
Power Consumption of the Whole System		4KW		
Interface Form		WR137, WR229	WR112	WR75

## MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Motion Range	± 110°	5 ~ 90°	± 90°
Antenna Travel Speed	0.10~10°/S	0.10~5°/S	0.10~3°/S
Power Supply	AC380V 50 /60Hz		
Motor AC	Servo		
System Deployment Time	200min		
System Withdrawal Time	170min		
Number of Operators	4		

## ENVIRONMENTAL SPECIFICATIONS

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

Compliances / Certificates



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