PALS® | Communications & Technology

PTA-240-MIL

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The PALS PTA-240 is a rugged, transportable 2.4m satellite antenna system based on an ultra-compact platform, designed for easy transportation and rapid field setup. Its foldable design integrates the antenna and RF equipment on a single trailer, which automatically collapses into a road-ready unit.

Featuring a precision dual-optic reflector for exceptional performance, the terminal offers rapid band-switching across C, X, Ku, and Ka bands. With 30 RU of free rack space, it provides utmost versatility to meet diverse network requirements and supports remote monitoring and control via satellite. A built-in power generator ensures permanent autonomous operation.

Guaranteeing reliable connectivity in the most challenging environments, it is fully compatible with the military-grade PAC-550 controller for fast, accurate satellite acquisition. With its 10-foot ISO container footprint and optional trailer, the PTA-240 offers manifold transport options by land, air, and sea, making it the ideal solution for critical defense, emergency response, and remote broadcasting missions.

Key Features

- C, X, Ku and Ka-Band options are available
- Support manual, auto and auto-tracking features
- Foldable reflector
- Support DVB-S/DVB-S2, beacon in satellite locking
- High-Accuracy GPS & Anti-Interference Electronic Compass
- High gain, low side-lobe, high accuracy and very good cross polar rejection
- Beacon Tracking
- Single 10ft ISO skid configuration
- Supports OpenAmip
- Optional De-Ice

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GENERAL SPECIFICATIONS	
Reflector Diameter	2.4m
Reflector Type	Gregorian Offset
Operation On-Air Time	~3 Minutes
Antenna Concept	Gregorian dual offset antenna with 2.4m elliptical carbon-fiber main reflector, folding feed-arm, fixed sub-reflector
Dimensions (LxWxH)	3.40mx1.90mx1.65m

RF CHARACTERISTIC		C-Band	X-Band	Ku-Band
Frequency (GHz)	Tx	5.85~6.725 GHz	7.9~8.4 GHz	13.75~14.50 GHz
	Rx	3.4~4.26 GHz	7.25~7.75 GHz	10.7~12.75 GHz
Antenna Gain (±0.2 dBi)	Tx	48.8 dBi	44.0+20lg (f/8.5)dBi	41.5 dBi
	Rx	47.7 dBi	43.3+20lg (f/7.5)dBi	37.7 dBi
EIRP		67.52dBW with 400W	60dbW with 40W BUC 64dbW with 60W BUC	64.8dBW with 40W BUC 68.8dBW with 100W BUC
CPI (On Axis, linear)		3dB		3dB
Polarization		Linear	Circular	Linear/Circular
Satellite Operator Compliancy		Compliant with most of satellite operator requirements		
VSWR		1.5	1.5	1.3

MECHANICAL SPECIFICATIONS	Azimuth	Elevation	Polarization
Drive Rates	0.1° /S ~3° /S	0.1° /S ~3° /S	0.1° /S ~6° /S
Antenna Travels	± 200°	10°~90°	± 90°
Manual Override Mechanism	Manual override for elevation and azimuth drive system		

PHYSICAL SPECIFICATIONS	
Road Transport	On trailer or truck (80km/h on road)
Air transport	Cargo plane (C-160), Helicopter (CH-53, inside and outside)
Rail transport	According to A MOV P-4

ENVIRONMENTAL SPECIFICATIONS		
Temperature	Operational	-20°C~+55°C
	Survival	-30°C~+70°C
Wind Speed	Operational	80km/h, 97km/h (gusted)
	Survival	126km/h/195 km/h (anchored on the ground)
Humidity (Relative)	0-95%	
Compliances	MIL-STD-810F, MIL-STD-461F	

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