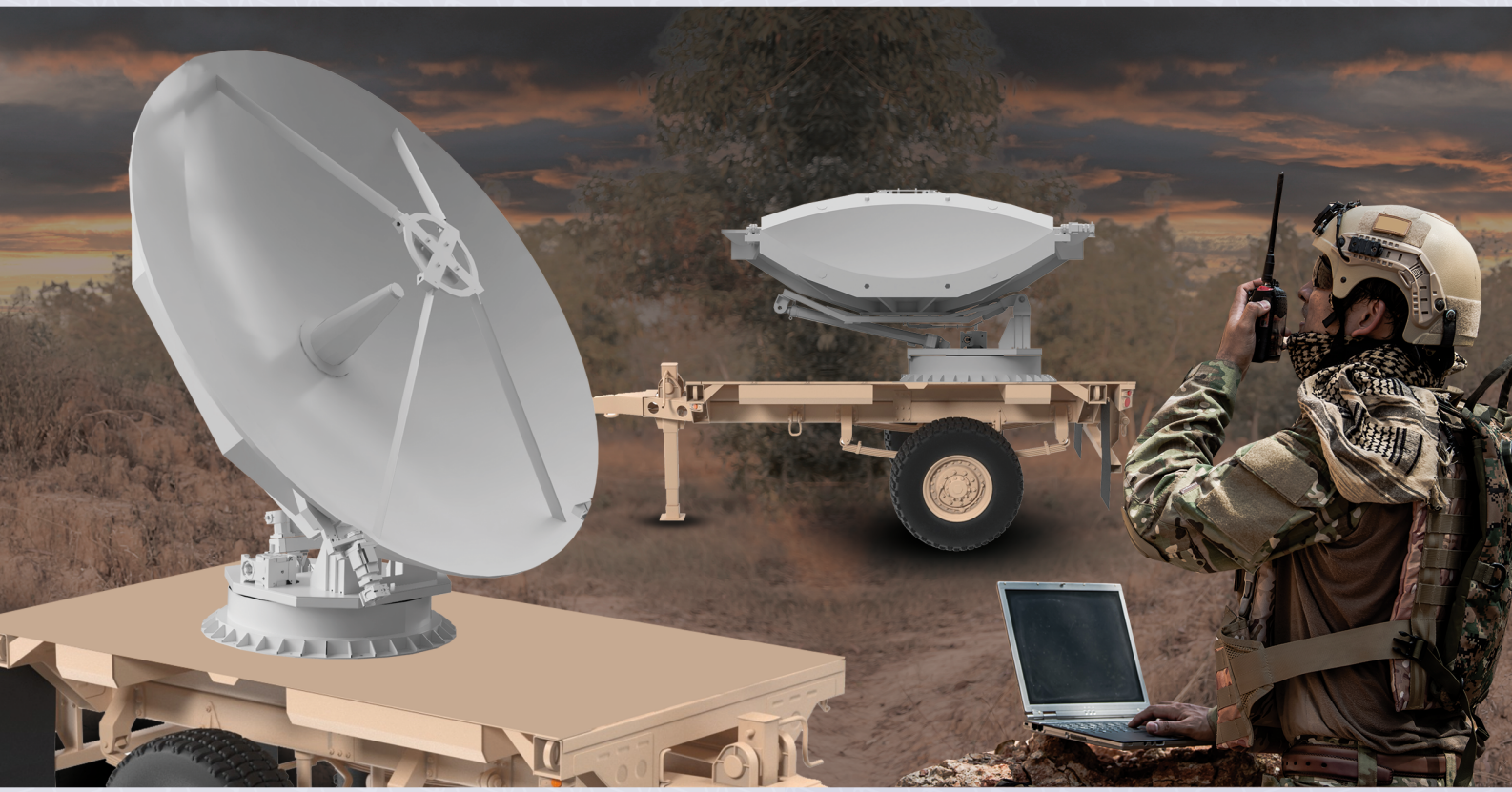
PALS® Communications & Technology

PTA-370-MIL

High Performance in Military Conditions



PTA-370

The PTA-370-MIL is a tactical trailer/vehicle mount drive-away satellite antenna, designed for used in different appplications and in different bands. The antenna, together with the RF equipment, is mounted on a trailer or a vehicle and automatically folds into a compact unit without any disassembling.

This foldable 3.7m antenna is a dual optic antenna system including 3.7m parabolic main reflector and sub reflector, feed-arm, feed-horn and trailer with fixing jack system. The feed-horn system is available for Ku, Ka, X and C Band as an option.

PTA-370-MIL 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
- EUTELSAT Compliant

Key Features

- Ku, Ka, X and C-Band options are available,
- Support manual, auto and auto-tracking features,
- Three-axis motorization,
- Side wing electric deploy and stow,
- Carbon fiber reflector with light weight, high strength and high accuracy,
- Conventient installation on the platform of trailer,
- Support DVB-S/DVB-S2, beacon in satellite locking within 15 minutes,
- Optional beacon tracking,
- Optional De-Ice,
- 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

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GENERAL SPECIFICATIONS	
Reflector Diameter	3.7m
Reflector Type	Dual Optic
Operation On-Air Time	~3 Minutes
Antenna Concept	Dual Optic, antenna with 3.7m carbon-fiber main reflector

RF CHARACTERISTIC				
		Ku-Band		Ku-Band
Frequency (GHz)	Tx Rx	13.75GHz ~ 14.5GHz Rx: 10.7 GHz~ 12.75GHz		27.5GHz~31.0GHz 17.7GHz ~21.2GHz
Antenna Gain (±0.2 dBi)	Tx Rx	≥51.6+20lg（f/14.0）dBi ≥50.5+20lg（f/12.25）dBi		≥58.1+20lg（f/29.4）dBi 54.6+20lg（f/19.6）dBi
Cross Pol Isolation:	Rx Tx	≥35dB（axial) ≥35dB（axial)	Axial ratio: Rx	≤1.5dB（Ka axial)
Rx-Tx port isolation		≥85dB		≥85dB
Polarization		±90°（linear)		Circular
1st Side Lobe		≤-14dB		
VSWR		≤1.5:1		≤1.5:1

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		

ENVIRONMENTAL SPECIFICATIONS		
Temperature	Operational Survival	-20°C~+55°C -30°C~+70°C
Wind Speed	Operational Survival	72km/h 90km/h
Humidity (Relative)		0-95%

Compliances / Certificates

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