



## PTA-370

The PTA-370-MIL is a tactical trailer/vehicle mount drive-away satellite antenna, designed for used in different applications 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,
- Convenient 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





#### 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	13.75GHz ~ 14.5GHz	27.5GHz~31.0GHz
	Rx	Rx: 10.7 GHz~ 12.75GHz	17.7GHz ~21.2GHz
Antenna Gain (±0.2 dBi)	Tx	≥51.6+20lg (f/14.0) dBi	≥58.1+20lg (f/29.4) dBi
	Rx	≥50.5+20lg (f/12.25) dBi	54.6+20lg (f/19.6) dBi
Cross Pol Isolation:	Rx	≥35dB (axial)	Axial ratio: Rx ≤1.5dB (Ka axial)
	Tx	≥35dB (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	-20°C~+55°C
	Survival	-30°C~+70°C
Wind Speed	Operational	72km/h
	Survival	90km/h
Humidity (Relative)		0-95%

#### Compliances / Certificates



#### TURKEY

**P** : +90 216 540 72 57

**M** : sales@pals.com.tr

**W** : www.pals.com.tr

#### NETHERLANDS

**P** : +31 6 85 52 63 16

**M** : sales@pals-comsat.com

**W** : www.pals-comsat.com

