



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

