



STANDARD
MIL-STD
810G

STANDARD
MIL-STD
461

STANDARD
MIL-STD
188-164A

Size:

3.70m

PFA-370-MIL

Compact Fly-Away Design

The PFA-370-MIL is a fully portable 3.7m fly-away antenna system, engineered for rapid deployment in critical situations. Its modular, lightweight reflector is assembled from 19 carbon-fiber panels and packs into just nine transportable cases, enabling swift worldwide dispatch and setup by two personnel in under 30 minutes.

Multi-Band Flexibility

The system utilizes a robust elevation over azimuth positioner for precise satellite acquisition and stable high-capacity links. Built to MIL-STD-810G standards with ruggedized construction, it guarantees reliable performance and resilient communications in the harshest environmental conditions.

Rugged Performance

Designed as a rugged fly-away terminal, it maintains full Tx/Rx operation in winds up to 60 km/h and survives gusts to 120 km/h. Optional configurations meet operational 72 km/h and survival 150 km/h windloads. Weighing under 500 kg, it delivers robust, high-capacity communications from any remote location, making it ideal for emergency response and tactical missions.

Key Features

- C, X, Ku, Ka Bands available
- Motorized or non-motorized versions
- 9 transport cases (standard)
- Installation within 30 minutes
- Integrated DVB-S2/S2 & Beacon Receiver
- Supports OpenAmip
- Optional De-ice System
- Optional 4G/ SG /LTE supported modem for load balancing and bonding
- Manual drive tool kit for emergency situations





GENERAL SPECIFICATIONS

Reflector Diameter	3.7M
Reflector Type	Circular, axially symmetric with 19 carbon-fiber panels, prime focus feed
Reflector Material	Carbon-Fiber
Operation On-Air Time	~5 Minutes after Set-Up
Antenna Concept	Portable, segmented type

PFA-370-MIL

RF CHARACTERISTIC

	C-Band	X-Band	Ku-Band	Ka-Band
Frequency (GHz) Tx	5.85~6.42	7.90~8.40	13.75~14.50	27.5~31.0
Frequency (GHz) Rx	3.62~4.20	7.25~7.75	10.70~12.75	17.7~21.2
Antenna Gain (dBi) Tx	45.1 @6.00 GHz	47.7 @8.15 GHz	52.6 dBi @ Midband	58.3 @30.00GHz
Antenna Gain (dBi) Rx	41.6 @4.00 GHz	47.0 @7.50 GHz	51 dBi @Midband	54.8 @20.00GHz
Polarization	Circular	Circular	Linear	Circular
Radiation Pattern Compliancy	Compliant with MIL-STD-188-164A, ITU - RS-580 and ITU-RS-465-6			

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Drive Rates	0.3°/s	0.5°/s	0.5°/s
Antenna Travels	± 180° *	0° to 90°	±90°
Storage size	≤3700mm×2400mm×1985mm (LxWxH)		
Manual Override Mechanism	Manual override for elevation and azimuth drive system		
Mount Type	Elevation over Azimuth		
Operational Limits	Hardware and software settable		

* Antenna azimuth travel range is +/-180° when elevation is greater than 36°, Manual Override Mechanism Mount Type Operational Limits Antenna azimuth travel range is +/-60° from local 150° when elevation is less than 36°

ENVIRONMENTAL SPECIFICATIONS

	PFA-370-MIL
Temperature Range Operational	-30°C to +60°C
Temperature Range Survival	-40°C to +70°C
Wind Speed Operational	60 km/h (optional 72 km/h)
Wind Speed Survival	120 km/h (optional 150 km/h)
Humidity (Relative)	0-100%
Altitude	4000 m

Specifications are subject to change.

