



Size: 3.70m

PFA-370

Carbon-Fiber Construction

Built around a 3.7m reflector assembled from 19 carbon-fiber panels, the PFA-370 delivers exceptional strength with a total weight under 500 kg. The modular design supports C, X, Ku, and Ka bands, multiple feed options (RxO, Tx/Rx, 2-port or multi-port), and circular or linear polarization. Interchangeable feed arms allow full customization for diverse mission requirements.

Military-Grade Control

The motorized PFA-370 integrates with the PALS PAC-550-MIL military antenna controller. It features GPS, position detection, polarization adjustment, servo drive, and a high-performance beacon receiver. Users can acquire satellites manually, automatically, or with one-button capture.

Rapid Deployment

Two personnel can deploy it within 30 minutes; all components fit into nine transport cases that are easily carried by two people. Feed design guarantees high gain, low sidelobes, and consistent RF performance.

Key Features

- C, X, Ku, Ka Bands available
- Multiple mount options (mobile, pedestal, tactical, tripod, trailer mounts)
- 19 reflector panels (carbon-fiber)
- 9 transport cases (standard)
- Supports OpenAmip
- Manual drive tool kit for emergency situations
- Optional Beacon Tracking
- Optional De-ice System
- Optional 4G/ 5G /LTE supported modem for load balancing and bonding



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

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 (Optional Circular)	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°
Manual Override Mechanism	Manual override for elevation and azimuth drive system		
Mount Type	Elevation over Azimuth		
Operational Limits	Hardware and software settable		

ENVIRONMENTAL SPECIFICATIONS

	PFA-370
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 with pedestal mount)
Wind Speed Survival	120 km/h (optional 150 km/h with pedestal mount)
Humidity (Relative)	0-100%
Altitude	4000 m

Specifications are subject to change.

