









PFA-370

PFA-370 is designed as a portable 3.7m antenna system. It can operate on C, X, Ku, Ka bands and in different configurations. The reflector structure consists of lightweight carbon-fiber panels. Feed options can be RxO, Tx/Rx, 2-ports or multiple ports. Polarization can be circular or linear according to feed options. Customized design and different feed arm options are possible to provide interchangeable feed structure. The reflector is assembled with 19 carbon-fiber panels. It is designed to be lightweight and modular with robust components.

PFA-370's motorized version can be used with PALS PAC-550 military type antenna controller. It is provided with GPS system, position detection system, polarization adjustment system, servo drive system and high performance satellite beacon receiving system.

It supports manual, auto and one button capture satellite within 5 minutes. Its feed structure assures high gain, low side lobe and perfect RF performance.

As it is designed to operate at multiple frequencies, PFA-370 is able to do Tx/Rx operation under 60 km/h wind and it can survive up to 120 km/h wind. Optionally it meets operational 72 km/h and survival 150 km/h windload specifications with pedestal mount option. Total weight is less than 500 kg depending on mount and configuration options. It can deployed by 2 people within 30 minutes. 9 transport cases are used for package. Cases can be carried easily by 2 people.

Key Features

- Multiple mount options (mobile, pedestal, tactical, tripod, trailer mounts)
- C, X, Ku, Ka Band options are available
- > 19 reflector panels (carbon-fiber)
- Motorized or non-motorized versions
- 9 transport cases (standard)
- Installation within 30 minutes
- Designed to comply with Mil-Spec standards
- Optional beacon tracking
- Optional de-ice
- Manual drive tool kit for emergency situations
- High gain, low side-lobe, high accuracy and very good cross polar rejection (> 35 dB)







GENERAL SPECIFICATIONS	
Reflector Diameter	3.7m
Reflector Type	Circular, axially symmetric with 19 carbon-fiber panels, prime focus feed
Operation On-Air Time	~ 5 Minutes after Set-Up
Antenna Concept	Portable design with pedestal, trailer, tactical, tripod, mobile mounts.

RF CHARACTERISTIC		
Frequency (GHz)	Tx Rx	13.75 - 14.50 GHz 10.70 - 12.75 GHz
Antenna Gain (±0.2 dBi)	Tx Rx	52.6 dBi @ Midband 51 dBi @ Midband
Polarization		Linear (optional circular)
Satellite Operator Compl	iancy	Compliant with most of satellite operator requirements
VSWR		1.3:1
Cross Polar Isolation		35 dB
G/T		28.5 dB/K

OTHER FEED OPTIONS				
		C-Band	X-Band	Ka-Band
Frequency	Tx	5.850-6.425 GHz	7.90-8.40 GHz	27.50-31.00 GHz
	Rx	3.625-4.200 GHz	7.25-7.75 GHz	17.70-21.20 GHz
Gain (midband)	Tx	45.1 @6.00GHz	47.7 @8.15GHz	58.3 @30.00GHz
	Rx	41.6 @4.00GHz	47.0 @7.50GHz	54.8 @20.00GHz

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		
Temperature	Operational Survival	-30°C to +60°C -40°C to +70°C
Wind Sped	Operational Survival	60 km/h (optional 72 km/h with pedestal mount) 120 km/h (optional 150 km/h with pedestal mount)
Humidity (Relative)	0-100%	
Altitude	4000 m	

Compliances / Certificates















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