



PFA-120

The PFA-120 is more compact & lightweight motorized Flyaway Antenna solution ideally suited to the worldwide satellite market. It can be easily transported in IATA weight compliant Carbon-Fiber flight cases.

No tool required for PFA-120 installation due to its modular design and no special training needed for the operator. Only one person can carry lightweight & robust Carbon-Fibre cases and make it ready for broadcasting under 10 minutes. The PFA-120 antenna system is a dual-optic offset antenna system including a 6 segment 1.2m parabolic main reflector, a quick-install feed-arm, feed-horn system and three axes motorize-able pedestal system.

Key Features

- User friendly - no need for a technical personnel
- Transmission position within ~ 10 minutes
- Gregorian offset 6 segmented Carbon-Fiber reflector
- Manual control with a socket wrench
- High resistance for rugged environmental conditions
- Optional De-Ice
- Optional Beacon Tracking
- 0,01° pointing accuracy with resolvers at 3 axes



GENERAL SPECIFICATIONS

Reflector Diameter	1.2m
Reflector Type	Gregorian offset
Setup Time	~10 Minutes
Antenna Concept	Dual Focus antenna with 6 segmented 1.2m main reflector, folding feed-arm, fixed sub-reflector
Number of Cases	2 Cases
Pointing System	One-button operation, GPS enabled, Wi-Fi controlled Antenna Controller Unit

RF CHARACTERISTIC

		Ku-Band	Ka-Band	X-Band
Frequency (GHz)	Tx	13.75 - 14.50	17.7 - 21.2	7.9 - 8.4
	Rx	10.70 - 12.75	27.5 - 31	7.25 - 7.75
Antenna Gain (± 0.2 dBi)	Tx	43,00 (Midband)	51.7+20log(f/29.25)	41.2+20log(f/8.25)
	Rx	41.80 (Midband)	48.2+20log(f/19.45)	40.4+20log(f/7.5)
Polarization		2 Port Linear (3 Port Optional)	Circular	Circular
TX/RX Isolation		85 dB		
Satellite Operator Compliancy		Compliant with most of satellite operator requirements		
VSWR		1.3		
Cross Polar Rejection		>35 dB within 1 dB beamwidth		
Side Lobe		-14 dB (First Side Lobe)		

MECHANICAL SPECIFICATIONS

		Azimuth	Elevation	Polarization
Drive Rates	Slow	0.4° / sec	0.1° / sec	0.4° / sec
	Medium	2.5° / sec	1.5° / sec	1.9° / sec
	Fast	4.5° / sec	3.0° / sec	3.42° / sec
Antenna Travels		360°	10° to 80°	$\pm 115^\circ$
Manual Override Mechanism		Manual override for elevation and azimuth drive system		

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operational	-30°C to 55°C
	Survival	-40°C to 60°C
Wind Speed	Operational	48 km/h
	Survival	96 km/h
Rain	Survival in heavy rainstorm	
Humidity	Up to 100% with condensation	
Solar Radition	1000 W/m ²	

Compliances / Certificates



Would you like to get more information?

P : +90 216 540 72 57

M : sales@pals.com.tr

W : www.pals.com.tr

