



PFA-180

The PFA-180 is the compact & lightweight motorized Fly-Away Antenna solution ideally suits the worldwide satellite market demands. It can be easily transported via IATA-compliant flight cases on commercial airlines to any destination for broadcasting or for any other application.

No tools required for PFA-180 installation thanks to its modular design. No special training needed for operator. Only two people make it ready for transmission within 10 minutes. The PFA-180 antenna system is an offset antenna system including 6 segments; 1.8m parabolic reflector, a quick-install feed-arm, feed-horn system and three axes pedestal system. Everything can be placed in two IATA-compliant rugged boxes.

The precision, accurate reflector surface provides remarkably low side lobes and excellent cross polar performance for the antenna. C, X, Ku and Ka Bands feed-horn system is available.

Key Features

- C, X, Ku and Ka Band options available
- Ready for transmission within ~10 minutes
- Prime Focus Antenna with 6 Segmented 1.8m Reflector
- Aluminium alloy tripod support legs
- High resistance for toughest weather conditions (wind, rain, sun...)
- User friendly - no training is needed
- Optional De-Ice System



GENERAL SPECIFICATIONS

Reflector Diameter	1.8m
Reflector Type	Offset
Setup Time	~10 Minutes
Antenna Concept	Prime focus antenna with 6 segmented 1.8m reflector
Number of Cases	3 Cases
Antenna Travels	AZ 360° EL 0° to 85° POL -90° to 90°

RF CHARACTERISTIC

		C-Band	X-Band	Ku-Band	Ka-Band
Frequency (GHz)	Tx	5.850 - 6.725	7.9 - 8.4	13.75 - 14.50	17.7 - 21.2
	Rx	3.40 - 4.20	7.25 - 7.75	10.70 - 12.75	27.5 - 31
Antenna Gain (±0.2 dBi)	Tx	39.50 (Midband)	41.4+20log(f/8.25)	46.5 (Midband)	51.9+20log(f/29.25)
	Rx	35.40 (Midband)	40.5+20log(f/7.5)	44.8 (Midband)	48.3+20log(f/19.45)
Polarization		Linear / Circular	Circular	Linear	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			
Antenna Pattern Compliancy		ITU-R S.580-6 and ITU-R S.465-6			

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operational	-30°C to 55°C
	Survival	-40°C to 70°C
Wind Speed	Operational	45 km/h
	Survival	65 km/h
	Operational (with ballast)	80 km/h
	Survival (with ballast)	100 km/h
Rain	Survival in heavy rainstorm	
Humidity	Up to 100% with condensation	

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