



PFA-180

The PFA-180 is the most compact & lightweight motorized Fly-Away Antenna solution ideally suited to the worldwide Satellite market. It can be easily transported via IATA weight compliant flight cases so it can be transported by a commercial airline to wherever you need to go and broadcast.

No tools required for PFA-180 installation thanks to its modular design. No special training needed for operator. Only two persons make it ready for transmission under 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 is put 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

- User friendly - no need training
- Ready to 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...)
- C, X, Ku and Ka Band options available
- Optional De-Ice



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

		Ku-Band	Ka-Band	C-Band	X-Band
Frequency (GHz)	Tx	13.75 - 14.50	17.7 - 21.2	5.850 - 6.725	7.9 - 8.4
	Rx	10.70 - 12.75	27.5 - 31	3.40 - 4.20	7.25 - 7.75
Antenna Gain (±0.2 dBi)	Tx	43,0 (Midband)	48.7+20log(f/29.25)	39,30 (Midband)	38.0+20log(f/8.25)
	Rx	41.8 (Midband)	45.3+20log(f/19.45)	35.40 (Midband)	37.4+20log(f/7.5)
Polarization		Linear	Circular	Linear / 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)			

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	

Compliances / Certificates



Would you like to get more information?

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