



PFA-200

The PFA-200 is a compact, high-performance fly-away satellite antenna system engineered for rapid deployment and reliable connectivity in mission-critical scenarios. Featuring a 2.0-meter segmented carbon fiber reflector, it achieves an optimal balance of exceptional durability and lightweight portability.

Designed for versatility, the system is available in X, Ku, and Ka band configurations with quick-change feed assemblies, ensuring seamless adaptation for broadcast, tactical communications, emergency response, and mobile network operations.

Built for speed and simplicity, the PFA-200 can be fully assembled and on-air by two operators in under 5 minutes without tools. Its rugged, IATA-compliant transit cases allow for swift worldwide transport via commercial airlines. With integrated rapid satellite acquisition technology, the system guarantees swift setup and superior signal clarity, making it the definitive solution for establishing secure satellite communications anywhere, at any time.

Key Features

- C, X, Ku, Ka Band options are available
- Dual offset Carbon-Fiber 9 pieces segmented reflector
- Manual & Auto Versions Available
- Easy acquisition without any training and tools
- Less than 5 minutes ready to operation with two people
- Interchangable Feeds
- High resistance for toughest weather conditions (wind, rain, sun...)
- Aluminium alloy tripod support legs
- DVB / Beacon Tracking
- Optional LTE / 5G supported modem for load balancing and bonding solutions
- Optional De-Ice System





GENERAL SPECIFICATIONS

Reflector Diameter	2.1m
Reflector Material	Carbon-Fiber
Feed Type	Dual Offset

RF CHARACTERISTIC

		X-BAND	KU-BAND	KA-BAND
Frequency (GHz)	Tx	7.9~8.4 GHz	13.75~14.50 GHz	27.5~31.0 GHz
	Rx	7.25~7.75 GHz	10.7~12.75 GHz	17.7~21.2 GHz
Antenna Gain (± 0.2 dBi)	Tx	42.7	47.7	53.8
	Rx	42.1	46.5	50.3
Polarization		Circular	Linear	Circular
CPI (On Axis, linear)			≥ 35 dB	
Tx/Rx Isolation		85dB		
RF Power Capacity		Up to 100W		
Antenna Pattern Compliancy		ITU-R S.580-6 & ITU-R S.465-6		
VSWR	Tx	≤ 1.3	≤ 1.3	≤ 1.4
	Rx	≤ 1.3	≤ 1.35	≤ 1.4

MECHANICAL SPECIFICATIONS

		X-BAND	KU-BAND	KA-BAND
Range of Motion	AZ	$\pm 200^\circ$	$\pm 200^\circ$	$\pm 200^\circ$
	EL	0~90°	0~90°	0~90°
	POL	TX/LHCP, RX/RHCP	$\pm 90^\circ$	TX/LHCP, RX/RHCP

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40°C~+60°C	Storage temperature -55°C~+70°C
Operating wind speed	80 km/h (balance weight&anchors)	Survival wind speed 97 km/h (balance weight&anchors)
Relative Humidity	0-100%	
Rainproof	Operational:5cm/h Survival:10cm/h	
Solar Radiation	1000 Kcal/h/m ²	
Radial Ice (survival)	12.7 mm	

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