



PMA-120

The PMA-120 is a compact and lightweight Flyaway Antenna solution ideally suited to the worldwide SNG market. It is easy to use and deploy. It can easily be transported in IATA weight compliant, rugged flight cases. Due to its modular design, no tool or special training is required for the installation.

The PMA-120 antenna is a prime focus antenna system including a 9 segmented 120m parabolic main reflector, a quick-install feed-arm, feed-horn system and Carbon-Fiber tripod support system. Reflector surface provides remarkably low sidelobes and excellent cross-polar performance for the antenna. The feed-horn system is available for Ku, Ka, X, C and Band as an option.

Key Features

- Ku, Ka, X and DBS Band
- Prime focus antenna with 9 segments reflector and feed system
- User friendly - no need for technical personnel
- Broadcast position within ~ 3 minutes
Carbon-Fiber reflector
- Carbon-Fiber tripod support legs High resistance for toughest weather conditions (wind, rain, sun...)



GENERAL SPECIFICATIONS

Reflector Diameter	1.2m
Reflector Type	Offset
Setup Time	~2 Minutes
Antenna Concept	Prime focus antenna with 8 segmented 1.2m reflector
Number of Cases	1 Case
Antenna Travels	AZ 360° EL Up to 90° POL ± 90°

RF CHARACTERISTIC

		Ka-Band	Ku-Band	X-Band
Frequency (GHz)	Tx	27.50 - 31.00	13.75 - 14.50	7.90 - 8.40
	Rx	17.70 - 21.20	10.7 - 12.75	3.40 - 4.20
Antenna Gain (±0.2 dBi)	Tx	46.2+20log(f/30)	42.5+20log(f/14.15)	37.7+20log(f/8.15)
	Rx	43.0+20log(f/19.00)	41.8+20log(f/12.50)	37.0+20log(f/7.50)
Polarization		Circular	Linear	Circular
TX/RX Isolation		85 dB		
Satellite Operator Compliancy		Compliant with most of satellite operator requirements		
VSWR		1.3	1.5	1.5
Cross Polar Rejection		>35 dB within 1 dB beamwidth		

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operational	-30°C to 55°C
	Survival	-40°C to 70°C
Wind Sped	Operational	40 km/h
	Survival	70 km/h
Rain	Survival in heavy rainstorm	
Humidity	Up to 100% with condensation	

Compliances / Certificates



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Would you like to get more information?

P : +90 216 939 95 54

M : sales@pals.com.tr

W : www.pals.com.tr

