



Communications
& Technology

PMA-100Ka

Go Anywhere with High Performance



PMA-100Ka

The PMA-100Ka is a compact manpack antenna solution ideally suited to the worldwide SNG market. It can easily be transported in IATA weight compliant backpack and integrated within 3 minutes very easily by only one person. Due to ultra modular design, no integration tool or special training needed for the operator.

The PMA-100Ka antenna system is a prime focus antenna system including a 7 segmented 0.9m parabolic main reflector, a quick- install feed-arm, feed-horn system and Carbon-Fiber tripod support system. The precision, accurate reflector surface provides remarkably low sidelobes and excellent cross-polar performance. The feed-horn system is available for Ku, DBS and KA Band as an option.

Key Features

- Available in Ku-band and Ka-Band
- Prime focus antenna with 7 segments reflector and feed system
- Ready to transmission less than 3 minutes
- Easy acquisition without any training and tools
- High resistant Carbon-Fiber tripod support legs
- Optional De-Ice
- Optional Motorization Kit





GENERAL SPECIFICATIONS

Reflector Diameter	1.0m	
Reflector Type	Offset	
Setup Time	~3 Minutes	
Antenna Concept	Prime focus antenna with 7 segmented 0.9m reflector	
Number of Cases	1 Case or 1 backpack	
Antenna Travels	AZ	360°
	EL	Up to 90°
	POL	± 90°

RF CHARACTERISTIC

Ka-Band		
Frequency (GHz)	Tx	27.50 - 31.00
	Rx	17.70 - 21.20
Antenna Gain (±0.2 dBi)	Tx	$47.0+20\log(f/30.0)$
	Rx	$43.5+20\log(f/20.0)$
Polarization	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	

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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