



Size:

0.9m

PMA-90MA

Rapid Deployment

The PMA-90 is a compact manpack antenna designed for the global SNG market. Fully IATA weight-compliant, it fits into a single backpack and can be assembled by one person in under 3 minutes. Its ultra-modular design requires no tools or special training—just open, assemble, and deploy.

Precision Engineering

This prime focus antenna features a 7-segmented 0.9m parabolic reflector, quick-install feed-arm, and carbon-fiber tripod support. The precision reflector surface delivers remarkably low sidelobes and excellent cross-polar rejection. The feed-horn system is available in Ku and Ka band making it adaptable to any mission.

Built for Any Environment

Engineered for challenging field operations, the PMA-90 combines rugged durability with lightweight portability. Whether for satellite news gathering, emergency response, or remote military communications, this manpack antenna delivers reliable, high-performance connectivity wherever the mission takes you.

Key Features

- Ku and Ka Bands are available
- Prime focus antenna with 7 segments reflector and feed system
- Ready to transmission within 3 minutes
- Easy acquisition without any training and tools
- High resistant Carbon-Fiber tripod support legs
- Optional De-Ice System
- Optional Motorization Kit
- Optional Accesories Pack; Satfinder, Battery



GENERAL SPECIFICATIONS

Reflector Diameter	0.9m
Reflector Type	Offset
Set Up Time	~3 Minutes
Antenna Concept	Prime focus antenna with 7 segmented 0.9m reflector

RF CHARACTERISTIC

	Ku-Band	Ka-Band
Frequency (GHz) Tx	13.75- 14.50	27.50 -31.00
Frequency (GHz) Rx	10.70 - 12.75	17.70 - 21.20
Antenna Gain (±0.2 dBi) Tx	40.1+20log(f/14.15)	46.1+20log(f/29)
Antenna Gain (±0.2 dBi) Rx	39.0+20log(f/12.50)	43.0+20log(f/20.00)
Polarization	Linear	Circular
Tx/Rx Isolation (dB)	85 dB	
Antenna Pattern Compliancy	ITU-R S.580-6 and ITU-R S.465-6	
VSWR	1.3	1.5
Cross-Polar Rejection	>35 dB within 1 dB beamwidth	

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Motion Range	360°	Up to 90°	±90°
Number of Cases	1 Case or 1 backpack		

ENVIRONMENTAL SPECIFICATIONS

	PMA-90MA
Temperature Range Operational	-30°C to 55°C
Temperature Range Survival	-40°C to 70°C
Wind Speed Operational	40 km/h
Wind Speed Survival	70 km/h
Humidity	0 to 100% with condensation
Rain	Survival in heavy rainstorm

Specifications are subject to change.

