



## POMA-45

PALS Satellite antenna solutions are not limited to fixed ones. You could keep communicating while you drive. Don't mind the terrain just keep move on and go live. PALS designed Satcom On the Move Antenna solution on its extensive experience in antenna design. POMA-45 provides high bandwidth, and it can continuously track the satellite and maintain communication. It offers high-performance satellite connectivity even while your vehicle is on the move. Continuous, reliable, and secure vehicular satellite connection on land is now possible. Light-weight POMA-45 is practical and also suitable for rugged terrain. It tracks the satellite in real-time with high accuracy.

POMA-45 is perfect for mobile emergency communications, police, homeland security, governmental organizations, search and rescue teams, newsgathering, private security, and many other on-the-move real-time video, voice, and data applications.

## Key Features

- Available in Ku-Band and Ka-Band
- Communication in all terrains and weather conditions
- Reliable high data rate
- Light-weight and compact design
- Advanced tracking system
- Military version is available
- Accurate Satellite tracking





GENERAL SPECIFICATIONS	Ku Band	Ka Band
Reflector Diameter	0.45m	0.45m
POL Mode	Ku Band Linear	Circular
Pointing Satellite Mode	Auto + Manual	Auto + Manual
Controller	19 inch 1U Controller	19 inch 1U Controller

RF CHARACTERISTICS	Ku Band	Ka Band
Frequency (GHz)	RX 10.7 ~ 12.75 TX:13.75 ~ 14.5	RX 17.7 ~ 21.2GHz TX:27.50 ~ 31.0GHz
Gain	RX $\geq 32.4 + 201g (f/12.5)$ dBi TX $\geq 33.5 + 201g (f/14)$ dBi	RX $\geq 36.2 + 201g (f/19.6)$ dBi TX $\geq 39.8 + 201g (f/29.4)$ dBi
Port Isolation	86 dB	86 dB
VSWR	$\leq 1.50$	$\leq 1.50$
Cross-Polar Isolation	30dB	30dB
1st Sidelobe	$\leq -13.2$ dB	$\leq -14$ dB
Dynamic Switching Satellite Time	5s	5s
Power Capacity	100W	100W
Radome Insertion	0.27dB	0.27dB
Tracking Accuracy	0.17dB	0.17dB
Out of Lock Rate	0.01%	0.01%

MECHANICAL SPECIFICATIONS	
Motion Range	EL 0°~ 90° AZ: 360 ° rotation without limit POL: $\pm 90^\circ$
Drive Rate	AZ 60°/s EL 60°/s POL 40°/s
Angular Acceleration	AZ 200°/s <sup>2</sup> EL 200°/s <sup>2</sup>

ENVIRONMENTAL SPECIFICATION	
Operation Temperature	-40 ~ +60°C
Storage Temperature	- 50 ~ +70°C
Operation Wind Load	76km/h
Storage Wind Load	126km/h
Humidity	95% (20°C)
Protection	IP65

Compliances / Certificates



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