



## POMA-55

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-55 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-55 is practical and also suitable for rugged terrain. it tracks the satellite in real-time with high accuracy.

POMA-55 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
- 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

Reflector Diameter	0.55m
POL Mode	Ku Band Linear
Pointing Satellite Mode	Auto + Manual
Controller	19 inch 1U Controller
Weight	49.8 Kg

#### RF CHARACTERISTICS

Frequency (GHz)	RX 10.7 ~ 12.75	TX:13.75 ~ 14.5
Gain	RX 35.02 dBi	TX 36.09 dBi
Port Isolation	86 dB	
VSWR	RX 1.39	TX 1.42
Cross-Polar Isolation	28.4dB	
1st Sidelobe	-16.18dB	
Dynamic Switching Satellite Time	5s	
Power Capacity	100W	
Radome Insertion	0.27dB	
Tracking Accuracy	0.17dB	
Out of Lock Rate	0.01%	
System Power Consumption	99W	

#### MECHANICAL SPECIFICATIONS

Motion Range	EL 0°~ 90° AZ: 360 ° rotation without limit POL: ± 90°
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



Would you like to get more information?

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