



## **PMA-60**

The most compact PALS Man-Pack series antenna is PMA-60. It supports manual, auto and one-button features for locking to the satellite in minutes. Its feed structure assures high gain, low side lobe and perfect RF performance and it is available in different bands.

It is equipped with a GPS, position detection, polarization adjustment, and servo drive with a high-performance satellite receiving system.

It can be carried in a single IATA weight-compliant Back-Pack only by a person. It is deployable within 2 minutes it can go to live instantly. No integration tool or training is needed for starting the operation.

The PMA-60 is suitable for a wide range of quick applications including broadcasting, corporate networks, military, and emergency communications.

All system configurations are suitable for inaccessible locations such as hills and mountains. The flyaway antenna does not need to be leveled and can operate on inclines of up to 15°.

## **Key Features**

- Available in X, Ku, and Ka Bands
- LEO/MEO Overhead Tracking Option
- Lightweight, high-strength carbon-fiber reflector with an accuracy of R.M.S 0.25mm
- > 3-Axes simultaneous motorisation
- Optional 4G / 5G / LTE supported modem for load balancing and bonding solutions
- Integrated GPS, Compass, Beacon / DVB Receiver
- > Supports Wide Range BUCs (from 6W to 40W)
- Powered by Mains or Battery
- Integrated / External modem (iDirect, Comtech, Newtech, Hughes)
- Encryption Option
- Supports OpenAmip







LEO / MEO OVERHEAD TRACKING OPTION		
GPS	Dual GPS Module	
Third Axis Rotation Range	± 7°	
Accurancy	Heading: ≤0.2°/m	Speed: ≤0.03m/s
	Positioning: 2m CEP 2cm+1ppm RTK	Timing: 20ns

RF CHARACTERISTIC				
		X-Band	Ku-Band	Ka-Band
Frequency (GHz)	Tx	7.9~8.4 GHz	13.75~14.50 GHz	27.50~31.00 GHz
	Rx	7.25~7.75 GHz	10.70~12.75 GHz	17.70~21.20 GHz
Antenna Gain (±0.2 dBi)	Tx	32.3	37.1	43.6
	Rx	31.5	35.6	40.2
Tx / Rx Isolation (dB)		85	85	85
Rx / Tx Isolation (dB)		40	40	40
CPI (On Axis, linear)		Tx: 1.0/Rx: 1.5 (Axial Ratio) 35		Tx: 1.0/Rx: 1.5 (Axial Ratio)
Polarization		RHCP / LHCP (2 Ports)	Linear H/V (2 Ports)	RHCP / LHCP (2 Ports)
Waveguide Interface	Tx	WR-112	WR-75	WR-28
	Rx	WR-112	WR-75	WR-42
VSWR	Tx	1.30:1	1.30:1	1.30:1
	Rx	1.50:1	1.50:1	1.50:1

MECHANICAL / POWER SPECIFICATIONS			
	Azimuth	Elevation	Polarization
Deploy Speed	10°/S (Variable)	10°/S (Variable)	3°/S (Variable)
Antenna Travels	± 200°	10°~90°	± 110° (Ku Model Only)
Peaking Speed	7°/S	7°/S	
Weight	10.5 Kg		
Backpack Size	490x400x310mm		
Reflector Diameter	0.6m		
Antenna Type	Circular symmetric reflector with center feed		
DC Input	10-72 VDC @ 15 ADC (max) (External: Hand generator, Solar, AC and Vehicle)		
DC Output	24VDC @ 8 ADC		
Battery Details (Optional)	PT18650 (BB2590 Op	tion) 18V 5.5Ah 99Wh (17V	~18.5V) W: ≤0.6Kg
Battery Working Temperature (Optional)	$-20^{\circ}$ C $\sim$ +55 $^{\circ}$ C(-30 $^{\circ}$ C $\sim$ +55 $^{\circ}$ C Option)		
PMS Weight / Size (Optional)	2.2 Kg (Include 2 sets	S PT18650) / 150*110*80mm	

ENVIRONMENTAL SPECIFICATIONS				
Temperature	Operational Survival	-30°C~+60°C -40°C~+70°C		
Wind Speed	Operational Gusts	50km/h (With weight balance) 65km/h (With reinforcement weight)		
Humidity (Relative)		0-98%		
Altitude Above Sea Level		≤5000m		
Protection Grade		IP67		

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