

PDA-100-L Go Anywhere with High Performance



PDA-100-L

The PDA-100-L is the latest technology, compact, vehicle mounted antenna system which is designed for professional mission critical applications such as high bit rate/high power news gathering SNG, disaster relief, corporate networks, communications etc.

The well-engineered antenna mount with tri-axis positioner provides full antenna rotation and polarization with zero-backlash in elevation and azimuth. The operation is extremely easy with antenna sensor kit option is fitted with a PAC-500 indoor antenna control unit provides truly user friendly operation. One touch Auto-stow, Auto-deploy and high precision Auto-peak features with fast-mid-slow motor speed control in all three axes makes the antenna system leader in their class.

The PDA-100-L's precision, accurate reflector surface and prime focus design provides remarkably low sidelobes and excellent cross-polar rejection performance. High precision pointing via resolver, boosted with 16-bit chipsets.

COMPATIBILITY

- ➤ ITU-RS-580 Compliant
- ➤ ITU-RS-465-6 Compliant
- **➤ EUTELSAT Compliant**

Key Features

- X, Ku, Ka, DBS Band options are available
- High EIRP, high performance 1.0m Prime-Focus antenna with very low sidelobes
- Carbon-Fiber composite reflector supported with light weight mount
- High gain and very good cross polar rejection(> 35 db)
- Optional Beacon Tracking
- Optional De-Ice
- > 0,01° pointing accuracy with resolvers at 3 axes
- Manual drive tool kit for emergency situations
- > Optional hand-held control unit
- One-Button Operation





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GENERAL SPECIFICATIONS	
Reflector Diameter	1.0m
Reflector Type	Prime-Focus
Operation On-Air Time	~3 Minutes
Antenna Concept	Prime-Focus antenna with 1.0m elliptical main reflector, feed arm

RF CHARACTERISTIC				
		Ku-Band	Ka-Band	
Frequency (GHz)	Tx Rx	13.75 - 14.50 10.70 - 12.75	27.50 - 31.00 17.70 - 21.20	
Antenna Gain (±0.2 dBi)	Tx Rx	41.2 (Midband) 40.1 (Midband)	47.0+20log(f/30.0) 43.9+20log(f/20.0)	
Polarization	Polarization		Circular	
TX/RX Isolation		85 dB	85 dB	
Satellite Operator Compl	iancy	Compliant with most of satellite operator requirements		
VSWR		1.3	1.3	
Cross Polar Rejection		>35 dB within 1 dB beamwidth	>35 dBw	
Side Lobe		-14 dB (First Side Lobe)	-14 dB (First Side Lobe)	

MECHANICAL SPECIFICATIONS						
		Azimuth	Elevation	Polarization		
Drive Rates	Slow Fast	0.32° / sec 3.42° / sec	0.32°/ sec 1.5° / sec	0.32° / sec 3.42° / sec		
Antenna Travels		± 220°	Up to 90°	± 115°		
Manual Override M	anual Override Mechanism Manual override for elevation and azimuth drive system		rive system			

ENVIRONMENTAL SPECIFICATIONS				
Temperature	Operational Survival	-30°C to 55°C -40°C to 60°C		
Wind Speed	Operational Survival	60 km/h 130 km/h		
Rain	Survival in heavy ra	Survival in heavy rainstorm		
Humidity	0% to 100% with co	0% to 100% with condensation		

Compliances / Certificates











TURKEY

P:+90 216 540 72 57

M:sales@pals.com.tr W:www.pals.com.tr

NETHERLANDS

P: +31 6 85 52 63 16

M:sales@pals-comsat.com W: www.pals-comsat.com

