



## PDA-100-L

The PDA-100-L is a compact and sophisticated design for Satellite Communications. Aerodynamic and light design of PDA-100-L provides wind load resistance due to its highly durable zero-backlash elevation over azimuth and polarisation motorised chassis.

PALS offers auto-acquisition satellite tracking with Beacon receiver as an option. It's possible to operate with minimal training by "One Touch" feature. The extreme ease and acquisition speed will guarantee that you will not lose the connection, even in rugged environmental conditions.

The PDA-100-L Drive-Away Antenna's precision, accurate reflector surface and prime focus design provides remarkably low sidelobes and excellent cross-polar 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 lightweight 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



## 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
Frequency (GHz)	Tx	13.75 - 14.50
	Rx	10.70 - 12.75
Antenna Gain ( $\pm 0.2$ dBi)	Tx	41.2 (Midband)
	Rx	40.1 (Midband)
Polarization		2 Port Linear (3 Port Optional)
TX/RX Isolation		85 dB
Satellite Operator Compliancy		Compliant with most of satellite operator requirements
VSWR		1.3
Cross Polar Rejection		>35 dB within 1 dB beamwidth
Side Lobe		-14 dB (First Side Lobe)

## MECHANICAL SPECIFICATIONS

		Azimuth	Elevation	Polarization
Drive Rates	Slow	0.32° / sec	0.32° / sec	0.32° / sec
	Fast	3.42° / sec	1.5° / sec	3.42° / sec
Antenna Travels		$\pm 220^\circ$	Up to 90°	$\pm 115^\circ$
Manual Override Mechanism		Manual override for elevation and azimuth drive system		

## ENVIRONMENTAL SPECIFICATIONS

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

Compliances / Certificates



Would you like to get more information?

**P** : +90 216 540 72 57

**M** : sales@pals.com.tr

**W** : www.pals.com.tr

Specifications are subject to change,  
The pictures are for reference the final product might be different.

