

**STANDARD  
MIL-STD  
810G**

## PKA SERIES

Simple, quick and continuous connection with PALS Ka Band antenna series. When you need to be on air faster, PALS antennas keep you just connected with "one touch and live" feature with minimal training; the extreme ease and acquisition speed will guarantee you will not miss any opportunity.

We present you a turnkey solution for broadcasting, data and emergency communication needs. Reliable PALS KA Band Antennas offer a cost-effective solution for broadband access. This lightweight and strong terminals with special vehicle mounting interface can be installed on a wide range of vehicles without having to make structural changes.

Offset reflectors, 16 bit chip resolver, GPS, compass and true inclinometer makes that drive-away possible to auto acquire satellite within 2 minutes.

## Key Features

- One-Touch Operation
- Strong yet lightweight Carbon-Fiber (PKM-77Ka) design which rigorously tested to operate in the toughest environments (wind, rain, sun...)
- 0,01° pointing accuracy with resolvers at 3 axes
- Fully motorized driving mechanism with zero backlash gear system
- Prime Focus antenna and feed system
- Low power consumption optional De-Ice system
- Manual drive tool kit for emergency situations
- Easy vehicle integration





## PKA-77

Fully motorized and "EUTELSAT type approved" PKA-77 provides uninterrupted internet connection while mounted on the roof of all types of vehicles. The perfectly shaped Carbon - Fiber POD and back cover improves aerodynamics and aesthetics. PALS' new generation PAC-500 allows one button auto acquisition also antenna can be controlled easily by mobile devices and any web browser by using a Wi-Fi IP router. PKA-77 comes along with EUTELSAT Tooway kit and antenna is ideally suitable for SNGs, corporate, data and emergency communication.



## PKA-98

Advanced design and high precision is code of PKA-98. It is compatible with EUTELSAT Tooway ISP services and includes EUTELSAT Tooway kit. Easy one-button auto acquisition is provided by PALS' new generation PAC-500. The antenna is suitable to use for SNGs, corporate, data and emergency communication. PKM-98Ka specifically designed for more Bandwith. Ideally shaped antenna POD improves aerodynamics driving and keeps antenna safe.



## PKA-120

Robust and easy to use satellite antenna PKM-120Ka provides high-speed internet access with configured satellite. PALS' new generation PAC-500 lets you operate it with easy one-button auto acquisition. It is compatible with EUTELSAT Tooway ISP services. The antenna is suitable for SNGs, corporate, data and emergency communication. PKA-120 drive-away antenna system has one piece of high accuracy, prime focus reflector. PKA-120 is a quick deploy antenna and suitable for reliable fast connectivity with the most bandwidth.



## PKA-75

PKA-75 is an easy-to-use and very portable Drive-Away Prime focus, offset antenna system includes 75 cm parabolic reflector with two axes pedestal. Pre-galvanized steel with a powder coat finishing enables corrosion resistance and long use time in rugged environments. PKA-75 meets different application standards.







GENERAL SPECIFICATIONS				
	PKA-77	PKA-98	PKA-120	PKA-75
Reflector Diameter	0,77 m	0,98 m	1.20 m	0,75 m
Reflector Type	Offset, Prime Focus			
Operation On-Air Time	~2 minutes with Tooway Kit			~2 Minutes
Antenna Concept	Prime focus offset feed antenna with elliptical reflector, folding feed-arm			
Reflector Material	Steel	SMC	SMC	Steel

RF CHARACTERISTIC					
	PKA-77	PKA-98	PKA-120	PKA-75	
Frequency (GHz)	Tx	28.10 - 30.00	28.10 - 30.00	28.10 - 30.00	28.30 - 30.00
	Rx	18.30 - 20.20	18.30 - 20.20	18.30 - 20.20	18.30 - 20.20
Antenna Gain ( $\pm 0.2$ dBi)	Tx	45.80	47.60	49.10	45.3
	Rx	42.50	44.50	46.90	41.9
Satellite Operator Compliancy	Eutelsat	Eutelsat	Eutelsat	Yahsat, Turksat, Avanti	

MECHANICAL SPECIFICATIONS				
		Azimuth		Elevation
Drive Rates	Slow	0.4° / sec		0.1° / sec
	Medium	2.5° / sec		1.5° / sec
	Fast	4.5° / sec		3.0° / sec
Antenna Travels		$\pm 220^\circ$		Up to 90°
Manual Override Mechanism	Manual override for elevation and azimuth drive system			

ENVIRONMENTAL SPECIFICATIONS					
	PKA-77	PKA-98	PKA-120	PKA-75	
Temperature Range	Operational: -30°C to 55°C Survival: -40°C to 60°C				
Wind Speed	Operational	95 km/h	80 km/h	72 km/h	95 km/h
	Survival	140 km/h	140 km/h	130 km/h	140 km/h
	Stowed	< 175 km/h	< 175 km/h	< 175 km/h	< 175 km/h
Rain	Survival in heavy rainstorm (sealing class IP65)				
Solar Radiation	1000 W/m <sup>2</sup>				
Humidity	0 to 100% with condensation				

Satellite Compliances / Certificates				
--------------------------------------	--	---	---	---

Compliances / Certificates				
----------------------------	---	---	---	---

## TURKEY

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

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

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

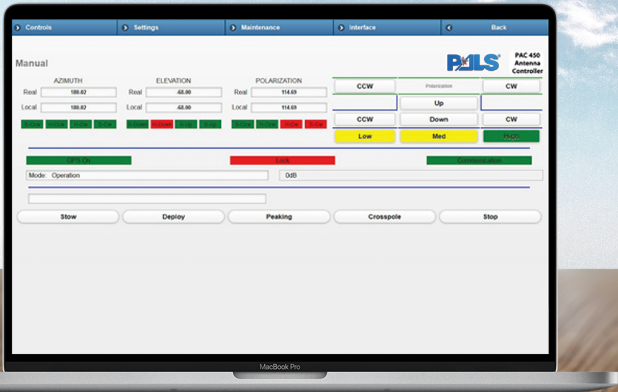
## NETHERLANDS

**P** : +31 6 85 52 63 16

**M** : sales@pals-comsat.com

**W** : www.pals-comsat.com





## Benefits

- Does not need any cabled connection for M&C at user-end
- Very compact design and lightweight
- Easy installation and disassembly
- User friendly - no need for technical personnel
- Internal GPS Enabled
- One-button operation and automatic beam selection for Ka Band antenna systems

## Structural Advantages

- Low power consumption and high processor capacity
- Very easy and efficient remote connectivity for technical support
- Auto peak controller
- Full M&C control
- Integrated route

## Key Features

- Specially designed for PALS' Drive-Away, Fly-Away and Fixed-Antennas but also can be integrated to almost all SNG antennas in the market
- Compliant with all web browsers
- Responsive web interface for all mobile devices with all resolution span
- Meets different application area standards

