



Communications
& Technology

PFMA-530KA

Robust 3 Axis Antenna Mount



PFMA-530KA

PALS PFMA series antennas are a self-pointing auto acquire fixed motorized antenna system that delivers exceptional performance for transmit/receive and receive-only applications in different bands. The design of the offset reflector incorporates precision-formed panels, contoured radials and a machined hub assembly. PFMA Series features 240° degrees of azimuth coverage and 60° degrees of elevation point range. This large range of adjustment provides the ability to view geostationary satellites, horizon to horizon, from any location in the world. High gain and closely controlled pattern characteristics.

The PALS new generation Antenna Controller offers the latest technology, with its state-of-art design and brings a new method to antenna control. A simplified user interface and very easy connectivity provide very healthy control over the antenna and therefore flawless operation for SNG broadcasting.

Key Features

- Available in Ka-Band
- 12- pieces precision reflector
- Precision Az/EI Mount
- Stainless steel and galvanized metric hardware
- Finish of steel parts hot-dipped zinc
- Linear or Circular Polarization
- Generous hub enclosure with easy access for inclusion of RF components
- Auto Pol Switch Option



GENERAL SPECIFICATIONS

Reflector Diameter	5.3m
RF Configuration	Cassegrain
Antenna Structure	Elevation over Azimuth

RF CHARACTERISTIC

Frequency (GHz)	Rx : 19.00 - 20.00 GHz	Tx: 28.80 - 29.80 GHz
Mid Band Gain (+/- 5 dB):	Rx: 57.6 dBi	Tx: 61.2dBi
VSWR	1.5:1 max	
Beam Width (-3 dB)	Rx: 0.19°	Tx: 0.13°
CPI on Axis (Within 1.0 dB Beam Width)	26 dB	25 dB
Antenna Noise Temperature	10° Elevation: 145 K 20° Elevation 126 K 40° Elevation 109 K	
Power Handling	100W	
Output Waveguide Interface	Rx: WR42	Tx: WR28
First Side Lobe 90% (Peaks Under the Following Envelop)	-14	29-25log θ (1°≤ θ < 20°)

ANTENNA POINTING RANGE

Azimuth	±85° (360 optional)
Elevation	0°~90°(Continuous)
Polarization	±360°(Continuous)
Drive Mode	Manual / Motorized

ENVIRONMENTAL SPECIFICATION

Operational Wind	72 km/h to 97km/h
Survival Wind	216km/h
Operational Temperature	-40°~+60°
Storage Temperature	-30°C - +60°C
Relative Humidity	100%
Solar Radiation	1135Kcal/h/m ²

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