



PFMA-530KA

Ka-Band Self-Pointing Precision

The PFMA-530 Ka is a motorized auto-acquire antenna for Ka-band transmit/receive and receive-only applications. Its offset reflector design incorporates precision-formed panels, contoured radials, and a machined hub assembly to deliver high gain and tightly controlled pattern characteristics for superior RF performance.

Global Coverage with Wide Positioning Range

Featuring 240° azimuth and 60° elevation range, the PFMA-530 Ka enables horizon-to-horizon viewing of geostationary satellites from any worldwide location. This extensive adjustment ensures reliable connectivity wherever missions require Ka-band satellite communications.

Next-Generation Control

The new generation PALS Antenna Controller offers state-of-the-art technology with simplified interface and seamless connectivity. Designed for SNG broadcasting, it provides precise control over the antenna system, ensuring flawless auto-acquisition and reliable tracking in all operating conditions.

Key Features

- Ka Band available
- 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) Tx	28.80 - 29.80
Frequency (GHz) Rx	19.00 - 20.00
Mid Band Gain (+/- 5 dB) Tx	61.2 dBi
Mid Band Gain (+/- 5 dB) Rx	57.6 dBi
VSWR	1.5:1 max
Beam Width (-3 dB) Tx	0.13°
Beam Width (-3 dB) Rx	0.19°
CPI on Axis (Within 1.0 dB Beam Width) Tx	25 dB
CPI on Axis (Within 1.0 dB Beam Width) Rx	26 dB
Antenna Noise Temperature (K) 10° Elevation	145
Antenna Noise Temperature (K) 20° Elevation	126
Antenna Noise Temperature (K) 40° Elevation	109
Output Waveguide Interface Tx	WR42
Output Waveguide Interface Rx	WR28
Antenna Pattern Compliancy	ITU-R S.580-6 and ITU-R S.465-6

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Antenna Travel Range	±85° (360 optional)	0°-90° (Continuous)	±360° (Continuous)
Antenna Drive Mode	Manual / Motorized		
Power Handling	100W		

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational	-40° - +60°
Temperature Range Survival	-30°C - +60°C
Wind Speed Operational	72 km/h to 97km/h
Wind Speed Survival	216km/h
Relative Humidity	100%
Solar Radiation	1135Kcal/h/m2

Specifications are subject to change.

