



## PFMA-370

PALS PFMA-370 series antennas are self-pointing to acquire a fixed motorized antenna system which delivers exceptional performance for transmit/receive and receive-only applications in C, Ku, ka, X band in Tx/ Rx 2 port or Rx 2 port with high gain, low noise. The design with stretch-formed double-contoured panels, strong back struts and a hub for ease of field alignment. PFMA Series has a large range of adjustments and provides the ability to view geostationary satellites, horizon to horizon, from any location in the world.

The PALS new generation Antenna Controller offers the latest technology, with its state-of-the-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.

## Key Features

- Available in C, Ku, and Multi-Band
- Field changeable feed system, switchable circular to linear C-band
- High-quality aluminium reflector panels
- Galvanized steel backup structure
- Precision Az/El Mount
- Galvanized steel elevation over azimuth pedestal
- Fixed foundation and Non-penetrating foundation options
- Robust Pedestal





RF CHARACTERISTIC		C-Band	Ku-Band
Frequency (GHz)	Rx	3.4 ~ 4.2 GHz	10.7 ~ 12.75 GHz
	Tx	5.85 ~ 6.725 GHz	13.75 ~ 14.5 GHz
Antenna Gain ( $\pm 0.2$ dBi)	Rx	42.2	51.4
	Tx	45.4	52.7
Axial Ratio (Circular Polarized) (2 Port Feed)	Rx	1.30	
	Tx	1.09	
G/T ( $EI > 10^\circ$ )	Rx	24dB/°K (30°LNA)	30.6dB/°K (70°LNA)
Antenna Noise Temperature			
10° Elevation		35°K (2 Port Feed)	49°K (2 Port Feed)
20° Elevation		29°K (2 Port Feed)	39°K (2 Port Feed)
40° Elevation		25°K (2 Port Feed)	35°K (2 Port Feed)
-3 dB Beam Width, Mid-band:	Rx	1.25°	0.44°
	Tx	0.82°	0.38°
Tx Power Capability, KW	Tx	5	2
Feed Interface	Rx	CPR-229G	WR-75
	Tx	CPR-137G	WR-75
Envelop		29-25log $\theta$ ( $1^\circ \leq \theta < 20^\circ$ )	29-25log $\theta$ ( $1^\circ \leq \theta < 20^\circ$ )
First Side Lobe 90% Peaks under Following		-14	-14
Feed Insertion Loss, dB	Rx	0.2	0.25
	Tx	0.2	0.2

MECHANICAL SPECIFICATIONS			
	Azimuth	Elevation	Polarization
Motion Range	0°~180°	0°~90°	$\pm 360^\circ$
Reflector Diameter	3.7m		
Reflector Type	Ring Focus		
Motor Drive	Travel Rate: 0.11°/S(0.03°/S)	Travel Rate: 0.17°/S(0.03°/S)	

ENVIRONMENTAL SPECIFICATIONS	
Temperature	-40°C ~ +60°C
Operation Wind	72 km/h
Survival Wind Velocity	216 km/h
Relative Humidity	100%
Solar Radiation	1135Kcal/h/m <sup>2</sup>
Seismic(Survival)	0.3g(H), 0.15g(V)
Operational Ice Loading	13mm
Survival Ice Loading	25mm

Compliances / Certificates	      
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