



PFMA-240

The Pals PFMA-240, paired with the PAC-700 Antenna Controller, is an advanced solution designed for demanding applications requiring precise tracking, complex geometries, and operation in dynamic environments. The PAC-700 offers accurate and user-friendly control of motorized systems, making operation efficient and simple.

This state-of-the-art automatic positioning system and PAC-700 combine advanced control capabilities with a refined, menu-driven interface to ensure precise antenna positioning with minimal operator input.

Compatible with almost any antenna, the PAC-700 supports a wide range of applications and features a modern, easy-to-use Ethernet interface. Additionally, it can be upgraded, ensuring your system remains future-proof.

Key Features

- Integrated DVB-S/S2 Receiver
- Integrated Beacon Receiver (Optional)*
- Integrated AGC Receiver for Modem Integration
- Emergency Stop Button
- Fully Automated Satellite Signal Acquisition under 3 min.
- User Configurable Target Pointing
- Satellite Memory Tracking
- Fully Responsive Web Interface (SNMP Support)
- Event and Alarm Logging
- 3 Level User Access
- Configurable Visual and Audio Alarms
- Build in Self Test
- Tracking accuracy better than 5% of beamwidth
- Fiber, Ethernet and serial interfaces
- Variable speed motor control for driving the AZ and EL axis
- Alarm and fault logging
- Emergency stop features
- Pointing accuracy $\leq 0.05^\circ$ RMS
- An intuitive user interface with LCD display and keypad

*: Beacon receiver can ben integrated and used simultaniously with DVB S/S2 receiver in same unit.



GENERAL SPECIFICATIONS

Reflector Diameter	2.4m
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	Offset Prime Focus

RF CHARACTERISTIC

		C-Band (Circular)	X-Band (Circular)	Ku-Band	Ka-Band (Circular)
Frequency (GHz)	Tx	5.845 ~ 6.425GHz	7.90 ~ 8.40GHz	13.75 ~ 14.5GHz	29.20 ~ 31.00GHz
	Rx	3.625 ~ 4.20GHz	7.25 ~ 7.75GHz	10.70 ~ 12.75GHz	19.40 ~ 21.20GHz
Antenna Gain (±0.2 dBi)	Tx	42.00 dBi	44.4 dBi	49.20 dBi	54.30 dBi
	Rx	38.00 dBi	43.7 dBi	47.40 dBi	51.50 dBi
Antenna Noise Temperature (K)					
5° Elevation		61	-	56	154
10° Elevation		53	38	51	128
20° Elevation		49	33	48	108
40° Elevation		49	29	41	97
VSWR	Tx	1.3:1	1.25:1	1.3:1	1.3:1
	Rx	1.3:1	1.25:1	1.3:1	1.3:1
Power Capability	Tx	1kW	2kW	100W	100W
Feed Interface	Tx	CPR-137	WR-112	WR-75	WR-28
	Rx	CPR-229	WR-112	WR-75	WR-42

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation
Motion Range	±110°	5~90°
Speed	0.025~1°/S	0.025~0.4°/S
Power Supply	AC110~230V 50 /60Hz	
Motor	DC Motor	

ENVIRONMENTAL SPECIFICATIONS

Operational Wind	72 km/h to 97km/h
Survival Wind	200 km/h
Ambient Temperature	-15°C +50°C
Storage Temperature	-40°C +60°C
Relative Humidity	0% to 98%

Compliances / Certificates



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