



PFMA-380

The Pals PFMA-380, equipped with the PAC-700 Antenna Controller, is an advanced antenna system engineered for applications requiring precise tracking, complex geometries, and operation in dynamic environments. The PAC-700 Antenna Control System ensures precise, user-friendly control of motorized systems for optimal performance.

Featuring a cutting-edge automatic positioning system, the PAC-700 combines advanced control capabilities with an intuitive, menu-driven interface, delivering accurate antenna positioning with minimal operator input.

Compatible with nearly any antenna, the PAC-700 supports a wide range of applications and includes a modern, easy-to-use Ethernet interface. The system is also upgradeable, safeguarding your investment for the future.

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	3.8m
Reflector Material	Glass Fiber Reinforced Polyester SMC
Antenna Optics	Offset Prime Focus

RF CHARACTERISTIC

		C-Band (Circular)	X-Band (Circular)	Ku-Band (Linear)
Frequency (GHz)	Tx	5.845 ~ 6.425GHz	5.85 ~ 6.725GHz	13.75 ~ 14.5GHz
	Rx	3.625 ~ 4.20GHz	3.7 ~ 4.2GHz	10.70 ~ 12.75GHz
Antenna Gain (±0.2 dBi)	Tx	46.30 dBi	47.2 dBi	53.0 dBi
	Rx	41.80 dBi	43.8 dBi	51.2 dBi
Cross Pol. Isolation - On Axis Within 1.0 dB Beamwidth		Rx > 15.00 - Tx > 17.70	Rx > 23.20 - Tx > 18.80	Rx > 30.00 - Tx > 35.00
		Rx > 15.00 - Tx > 17.70	Rx > 23.20 - Tx > 18.80	Rx > 25.00 - Tx > 26.00
Antenna Noise Temperature (K)				
5° Elevation		62	60	70
10° Elevation		52	51	60
20° Elevation		45	47	55
40° Elevation		43	47	45
VSWR	Tx	1.3:1	1.3:1	1.3:1
	Rx	1.3:1	1.3:1	1.3:1
Power Capability	Tx	1kW	2kW	1kW
Feed Interface	Tx	CPR-137	WR-112	WR-75
	Rx	CPR-229	WR-112	WR-75

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	AC Servo	

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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