**PALS®** | **Communications & Technology**



Size: 2RU

# PAC-700

## Precision Control for Large Earth Station Antennas

The PAC-700 Antenna Control Unit delivers sophisticated positioning for full or limited motion ground antennas typically exceeding 3.7 meters. Engineered for demanding earth station applications, it provides accurate management of azimuth, elevation, and polarization.

## Intelligent Tracking with Minimal Operator Input

This state-of-the-art system combines advanced control functions with an intuitive menu interface, ensuring precise antenna pointing with little user intervention. It supports comprehensive control modes including Step Track and Memory Track.

## Modular Design with Future-Ready Architecture

The PAC-700 comprises Indoor Units for interface processing and Outdoor Units for motor control and environmental management. Featuring modern Ethernet connectivity and software upgradability, it protects long-term investment. Compatible with diverse antenna types and motorization kits, this versatile solution ensures reliable performance across critical satellite communication infrastructure.

## Key Features

- Universally compatible with most antenna and servo motor systems

- Integrated DVB-S/S2 Receiver & Beacon Receiver (supports various types)

- Integrated AGC Receiver for Modem Integration

- Manual and multiple antenna control modes

- Multiple tracking modes: Step, Memory and Programming Tracking

- An intuitive user interface with LCD display and keypad

- Event and Alarm Logging

- Build in Self Test

- Fiber, Ethernet and serial interfaces

- Variable speed motor control for driving the AZ and EL axis

**TECHNICAL SPECIFICATIONS / PAC-700**

## GENERAL SPECIFICATIONS

### PAC-700

| | |
|---|---|
| RF Receiver | Beacon, DVB S/S2 (optional), AGC (optional) |
| 10 MHz Signal Generator | Internal generator biased with LNB Input Port. Internal Generator Output Port for other uses. |
| | External Signal Input Port (Automatically Switches to External). Internal/External Choise is User Configurable. |

## MONITOR AND CONTROL SPEC.

### PAC-700

| | |
|---|---|
| HMI | Fully Graphical Front Panel Screen, Alphanumerical Keypad (Indoor Unit) |
| Remote | RS232 for M&C, 10/100 Base-T Ethernet RJ-45 port for web-based GUI and SNMPv2, function key with status LED to toggle local/remote operation Remote control with PALS Vision (NMS) and web interface |
| Monitor Ports | Input Signal Monitoring Port |

## PHYSICAL FEATURES & ELECTRICAL S.

### PAC-700

| | |
|---|---|
| Temperature Range Operational | -10°C to + 40°C  /  -30°C to + 60°C (Optional High-Temp Kit) |
| Temperature Range Operational | -30°C to + 50°C (Optional Low - Temp Kit) |
| Temperature Range Operational | -30°C to + 60°C(Optional Low - Temp Kit) |
| Temperature Range Survival | -40°C to + 70°C |
| Humidity | 100% (Condensing) |
| Outdoor Unit Power Rating | 380 VAC, 50 Hz (3 PH) |
| Indoor Unit Power Rating | 100-220 VAC, 50 Hz |
| Misc | Internal Power Factor Corrector and Line Filter |

## SYSTEM OVERVIEW

PALS NMS VISION

ANTENNA
SYSTEMS

LAN

PAC-700
Outdoor ACU

DE-ICE CONTROLLER

LAN

PAC-700 ACU
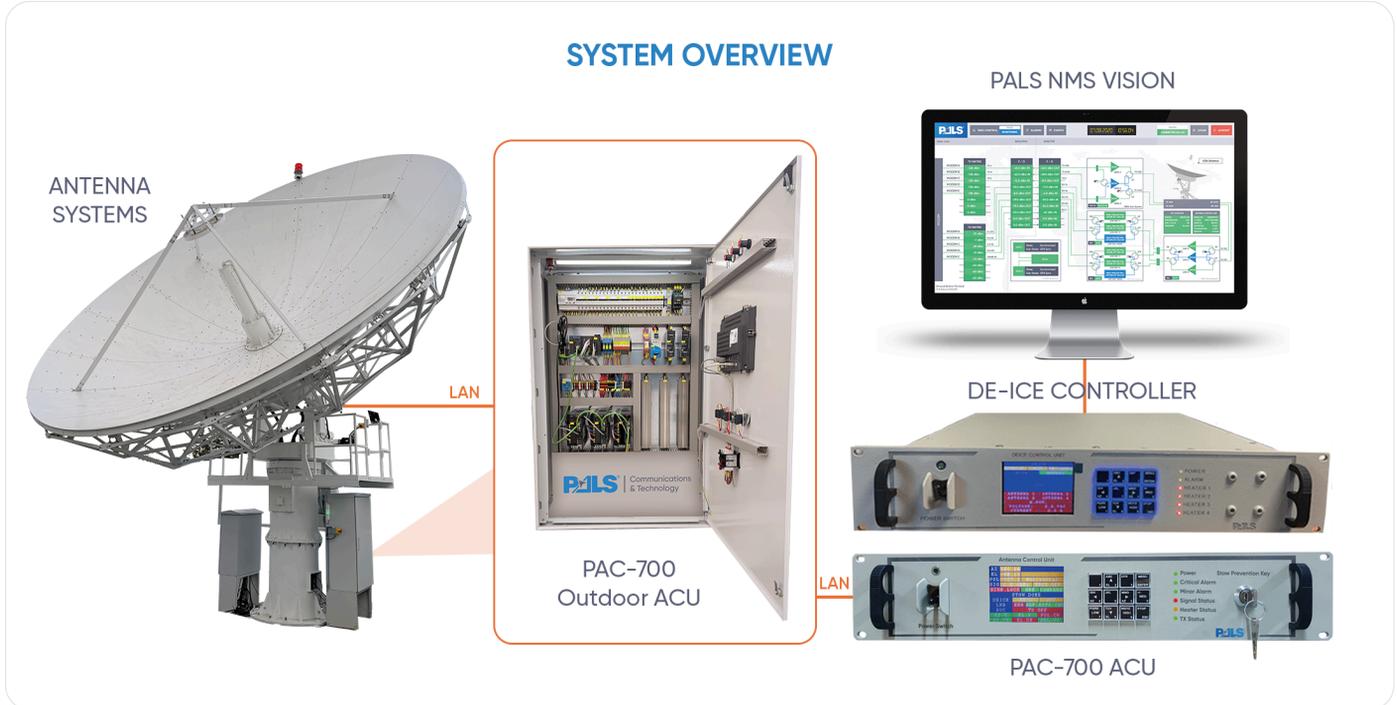
Specifications are subject to change.