



Antenna Positioning Unit For Mobile Applications

SERVICES

- * Engineering Design & Development
- * Electronic Testing & Assembly
- * CNC Machining and Manufacturing
- * System Integration



PRODUCTS

- * Electro-Optic Stabilized Platforms
- * Radar Sub Systems
- * Laser Applications
- * Gimbals
- * Pedestals
- * Motion Control Systems
- * Test Benches



Versatility is Reality

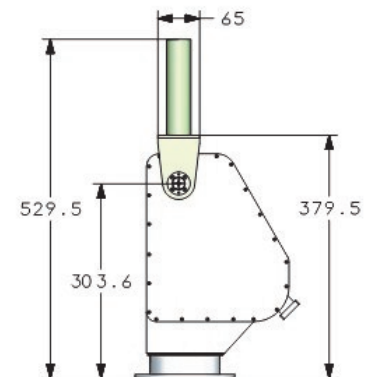
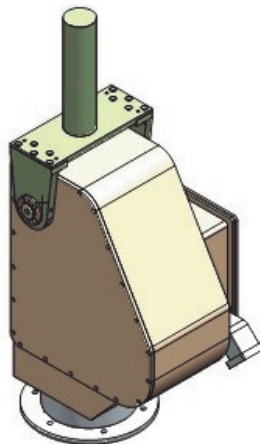


Model No: SC-122621-312211-CE1521

Application Areas

- ◆ Mounted on Telescopic mount
- ◆ for Mobile communication.
- ◆ Homeland surveillance systems.
- ◆ Radar Surveillance

The dual Axes Antenna Tracking pedestal can give precise dynamic motion in both Azimuth and Elevation Axes. It will position the antenna towards another antenna, which is the different geographical location. It incorporates GPS and North seeker to automatically align with remote antenna. The product is a ruggedized for mounting on mobile trucks with telescopic mast up to 25 meters.



SYSTEM CONTROLS

TECHNOLOGY SOLUTIONS PRIVATE LIMITED



Technical Specifications

Model No: SC-122621-312211-CE1521

Azimuth Drive Specification

Azimuth Angular Movement	: $\pm 180^\circ$
Azimuth Angular Speed	: $6^\circ/\text{sec}$
Azimuth Angular Accuracy	: $\pm 1^\circ$
Azimuth Angular Resolution	: 0.5°
Modes in Azimuth	: Home, Position & Manual

Elevation Drive Specification

Elevation Angular movement	: -15° to $+15^\circ$
Elevation Angular Accuracy	: 1°
Elevation Angular Resolution	: 0.5°
Communication Interface	: RS485/Ethernet

Environmental Specification

Weather Proof	: IP67
Environmental std compliance	: JSS 55555 / MIL STD 810F
EMI/EMC	: MIL STD-461E
Operating Temperature	: -30° to 55°C
Storage Temperature	: -40° to 70°C
Humidity	: $45^\circ \text{C} > 95\% \text{ RH}$
Operation Altitude	: 4500m
Storage Altitude	: 9100m
Operation Wind Condition	: 80 kmph
Storage Wind Condition	: 150 kmph

Pedestal Specification

Power Source	: 24V dc to ODU & 230V AC to IDU
Power Consumption	: $< 100\text{W}$ at normal condition during scanning at room
Carrying Capacity / Payload	: $< 5 \text{ kg}$
Weight of the unit	: $< 10 \text{ kg}$

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