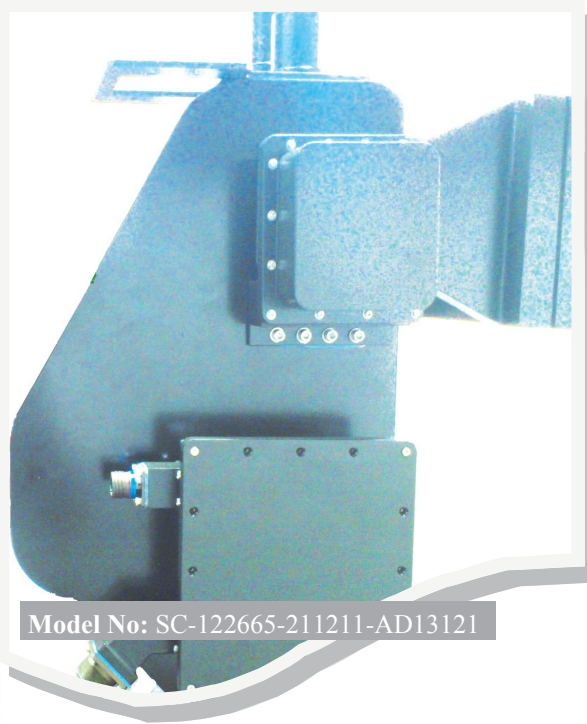




Antenna Positioner For Mobile Applications

SERVICES

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



Model No: SC-122665-211211-AD13121

Application Areas

- ◆ Mounted on Telescopic mount for mobile communications
- ◆ Homeland surveillance Systems
- ◆ Radar Surveillance
- ◆ Airborne 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.

PRODUCTS

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



Versatility is Reality

SYSTEM CONTROLS

TECHNOLOGY SOLUTIONS PRIVATE LIMITED



Technical Specifications

Model No: SC-122665-211211-AD13121

Azimuth Drive Specification

Movement control	: Closed loop position control in Azimuth
Modes in Azimuth	: Position and Manual
Range	: 0-359.9°
Angular accuracy	: $\pm 0.5^\circ$
Angular Resolution	: 0.25°

Elevation Drive Specification

Movement control	: Closed loop position control in Elevation
Modes in Azimuth	: Position and Manual
Range	: -15° to $+15^\circ$
Angular accuracy	: $\pm 0.5^\circ$
Angular Resolution	: 0.25°

Pedestal Specification

Payload	: 30 kgs
Power Consumption	: < 70W
Finish	: ODU—Polyurethane; olive green with mat finish IDU—Polyurethane; light green with semi glossy finish
Weight of the unit	: ODU— \leq to 30kg IDU— \leq to 5kg exclusive of cables

Environmental Specification

Out Door Unit :

Temperature Range	: Storage is -30° to $+70^\circ\text{C}$ Operating -20°C to $+55^\circ\text{C}$
Thermal Shocks	: To withstand -40°C to $+55^\circ\text{C}$ as a sudden change.
Humidity	: 95% non condensing at $+45^\circ\text{C}$
Altitude	: At -20°C , 70kPa, altitude of 3000m
Corrosion	: Salt spray test at 35°C , 5% salt solution, 95%RH for 22 hours
Mould growth test	: At $29\pm 1^\circ\text{C}$, 90% RH for 28days.
Rain	: Driving rainfall flow rate of 450 lts/hr with static pressure of 200 kPa
Sand & Dust	: Velocity 1-2 m/s Temp. 40°C
EMI/EMC Protection	: MIL STD 461 E

In Door Unit :

Temperature Range	: Storage -30°C to $+70^\circ\text{C}$;
Altitude	: at -20°C , 70kPa, altitude of 3000m.
Vibration	: should with stand vibration level of 20-500 Hz at power spectral density of 0.1 g ² /Hz
Mould growth test	: at $29 \pm 1^\circ\text{C}$, 90% RH for 28 days.
EMI/EMC Protection	: MIL STD 461 E

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