Antenna Positioner For Mobile Applications

Versatility is Reality

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.

Application Areas

♦ Mounted on Telescopic mount for mobile communications
♦ Homeland surveillance Systems
♦ Radar Surveillance
♦ Airborne Surveillance

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

Model No: SC-122665-211211-AD13121

SYSTEM CONTROLS

TECHNOLOGY SOLUTIONS PRIVATE LIMITED
Movement control: Closed loop position control in Azimuth
Modes in Azimuth: Position and Manual
Range: 0-359.9°
Angular accuracy: ±0.5°
Angular Resolution: 0.25°

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

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—≤ to 30kg
IDU—≤ to 5kg exclusive of cables

Out Door Unit:
Temperature Range: Storage is—30° to +70°C
Operating—20°C to +55°C
Thermal Shocks: To withstand –40°C to _55°C as a sudden change.
Humidity: 95% non condensing at +45°C
Altitude: At ~20°C, 70kPa, altitude of 3000m
Corrosion: Salt spry test at 35°C, 5% salt solution, 95%RH for 22 hours
Mould growth test: At 29±1°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°C;
Altitude: at –20°C, 70kPa, altitude of 3000m.
Vibration: should withstand vibration level of 20-500 Hz at power spectral density of 0.1 g2/Hz
Mould growth test: at 29 ± 1deg C, 90% RH for 28 days.
EMI/EMC Protection: MIL STD 461 E