Versatility is Reality

The Pan Tilt unit can give precise dynamic motion in both Azimuth and Elevation Axes. The elevation and azimuth axes moments are controlled through two DC motor with precision gear mechanism. The unit meets the requirement of EMI/EMC as per MIL-STD 461E and for vibration MIL-STD 810F. This system is useful for tracking through remote control. A reliable slip rings are provided for control of data link, video link and power supply.

Application Areas

- Homeland surveillance Systems
- Electro-Optic / IR Surveillance
- Vehicle borne / Mast borne systems

Model No: SC-113353-143443-BG05612

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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

SYSTEM CONTROLS

TECHNOLOGY SOLUTIONS PRIVATE LIMITED
Technical Specifications

Model No: SC-113353-143443-BG05612

Azimuth Drive Specification

- Movement control: Closed loop position control in Azimuth
- Scanning Velocity: Settable by command between 0.001° /s to 100° / s
- Range: N X 360° (Continuous)
- Angular accuracy: ≤0.5mrad

Elevation Drive Specification

- Movement control: Closed loop position control in Elevation
- Scanning Velocity: Settable by command between 0.001° /s to 100° / s
- Range: +45° to –60°
- Angular accuracy: ≤0.5mrad

Pedestal Specification

- Payload: ≤ 25kgs top mount
- Pedestal Weight: ≤ 15kgs
- Power Input: 20-30V DC, 3A
- Interface: RS422

Slip ring

- Pass through sires through slip ring to the payload

Communication

- 7
- Video1 and Video2: 4
- Payload power, 24V DC @5A: 2

Features

- Operating Modes: Standby / Safe mode
  - Go-to Point mode
  - Joystick / keypad
- Safety: Mechanical limits, Electrical limits and Soft limits
- Controls & Monitoring: PC based GUI systems working on Windows / Linux

Conditions

<table>
<thead>
<tr>
<th>Operating</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>-30°C to +70°C</td>
</tr>
<tr>
<td>Altitude</td>
<td>10000ft above MSL</td>
</tr>
<tr>
<td>Humidity</td>
<td>95% at 45°C</td>
</tr>
<tr>
<td>Wind</td>
<td>120kmph</td>
</tr>
<tr>
<td>EMI/EMC</td>
<td>Mil Std 461E</td>
</tr>
<tr>
<td>Vibration, Bump, Shock</td>
<td>Mil Std 810F</td>
</tr>
<tr>
<td>Salt fog</td>
<td>Sea shore environment of 5% of NaCl and 100% humidity, also wind borne salt</td>
</tr>
</tbody>
</table>

Environmental Specification

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