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

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

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 0.005° /s to 60° / s
- **Range:** N X 360° (Continuous)
- **Angular accuracy:** $\leq 100\mu$rad

### Elevation Drive Specification
- **Movement control:** Closed loop position control in Elevation
- **Scanning Velocity:** Settable by command between 0.005° /s to 60° / s
- **Range:** +45° to –60°
- **Angular accuracy:** $\leq 100\mu$rad

### Pedestal Specification
- **Payload:** $\leq 25$kgs top mount
- **Pedestal Weight:** $\leq 15$kgs
- **Power Input:** 20-30V DC / 48 V 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 / Tracking Mode
- **Safety:** Mechanical limits, Electrical limits and Soft limits
- **Controls & Monitoring:** PC based GUI systems working on Windows / Linux

### Environmental Specification
- **Temperature:** -30°C to +55°C
- **Altitude:** 10000ft above MSL
- **Humidity:** 95% at 45°C
- **Wind:** 120kmph
- **EMI/EMC:** MIL STD 461E
- **Vibration, Bump, Shock:** MIL STD 810F
- **Salt fog:** Sea shore environment of 5% of Nacl and 100% humidity, also wind borne salt

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