



PAN & TILT UNIT

Model No: SC-113353-143443-BG05612

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



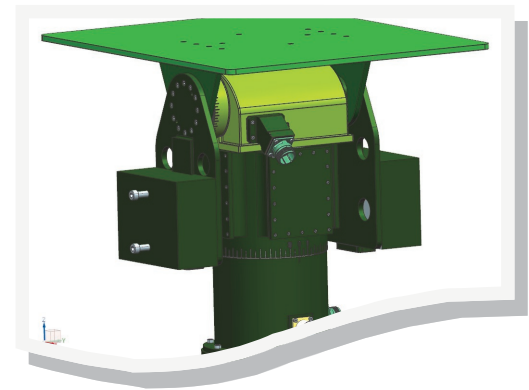
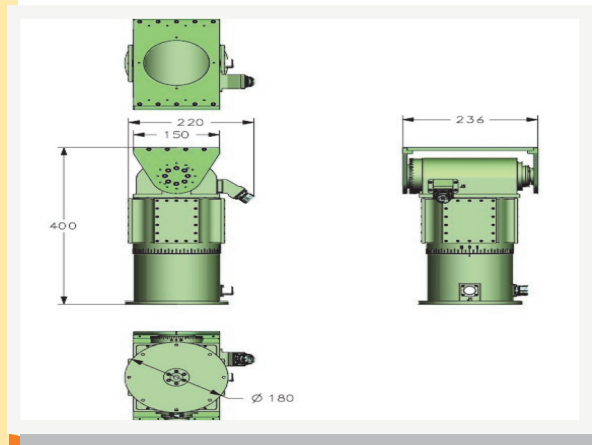
Versatility is Reality



Application Areas

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

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.



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	: $\leq 100\mu\text{rad}$

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	: $\leq 100\mu\text{rad}$

Pedestal Specification

Payload	: $\leq 25\text{kgs}$ top mount
Pedestal Weight	: $\leq 15\text{kgs}$
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

Conditions	Operating	Storage
Temperature	-30°C to +55°C	-30°C to +70°C
Altitude	10000ft above MSL	10000ft above MSL
Humidity	95% at 45°C	95% at 45°C
Wind	120kmph	150kmph
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	



119, 3rd Main
East of NGEF Layout
Kasturi Nagar
Bengaluru 560 043

Phone:
+91 80 408 20 400

Fax:
+91 80 408 20 426

Email:
sales@system-controls.com
projects@system-controls.com

www.system-controls.com