SYSTEM CONTROLS
Versatility is Reality

System Controls Technology Solutions Pvt Ltd

PAN & TILT UNIT – 30 KG PAYLOAD

Products:

- Stabilized Platforms
- Gimbals
- Positioners
- Pointing Systems
- Pan Tilt Units
- Radar Subsystems
- Electro-Optical Systems
- Opto-Mechanical Systems
- Motion Controls Systems
- Test Benches

Services:

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

The Pan & Tilt Unit gives precise dynamic motion in both Azimuth & Elevation Axes. The elevation and azimuth axes movements are controlled through two DC motors with precision gear mechanism. The Unit is most suitable for all payloads like Antenna, Electro-optic, Sensor etc. The unit meets the sealing requirement as per IP 66 and for vibration MIL-STD-810F. This system is useful for tracking through remote control. Reliable slip ring is provided for control of data link, video link and power supply. Pan & Tilt Unit is mountable on a stationary hard platform .

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Technical Specifications

Model No.: SC-TAPS-A-000-001

Azimuth Drive	Movement Control	: Closed loop position control
	RPM	: 0.01 RPM to 5 RPM
	Range	: ± 180°
	Resolution	: 0.01 deg
	Accuracy	: 0.05 deg
Elevation Drive	Movement Control	: Closed loop position control
	RPM	: 0.01 RPM to 5 RPM
	Range	: -15° to +75°
	Resolution	: 0.01 deg
	Accuracy	: 0.05 deg
	Brake requirement in elevation	: Available
Others	Payload & Payload Mounting	: 30 kg max; Top Mount
	Pedestal weight	: 20 kg. (exclusive of interface plate)
	Power input	: 24V, ≤ 4A
	Interface	: Ethernet
	Finish	: Painting or Powder Coating as per customer requirement
	Control Unit	: Built-in Controller
	Dimension	: L - 240 mm; B - 240 mm; H - 440 mm
Slip Ring	24 Channel Slip Ring	

Environmental **	**Conditions**	**Operating**	**Storage**
	Temperature	-20°C to +55°C	-30°C to +70°C
	Humidity	95% at 45°C	95% at 45°C
	Wind	85 kmph	100 kmph – Survival
	Vibration, Bump, Shock	MIL-STD-810F	
	Sealing	IP66	

Accessories	Heavy Duty Tripod (Refer Attached Data Sheet)

**** Designed to meet the specifications**

www.system-controls.com
#119, 3rd Main, East of NGEF Layout, Kasturi Nagar, Bangalore – 560043
Ph No.: 080-40820400; Fax: 080-40820426
E-mail: sales@system-controls.com; projects@system-controls.com