



Single Axis Pedestal—Aslesha

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



- ◆ Surveillance Scanner
- ◆ Automatic Tracking System
- ◆ Ground Based Surveillance System

- * System Controls offers the lightweight and compact size Rugged Azimuth Scanner, designed to rotate 360 degrees continuously with payloads weighing up to 110 kilograms. The Azimuth Scanner is designed and built with new technology for efficiency, simplicity, cost effectiveness and ease of maintenance.
- * A powerful BLDC motor through proper electronics circuit to give a controlled programmable, rotation, position etc provides the rotation of the Azimuth Scanner. The Azimuth Scanner has hollow shaft at slew center for routing of cables between rotating and non-rotating portion. The Azimuth Scanner is driven through hollow shaft harmonic drive capable of necessary torque and power to overcome the wind load on the payload.
- * The entire arrangement is housed in a precision-machined aircraft quality aluminum alloy having aesthetically designed and pleasingly coated outer surface. The Azimuth Scanner is EMI/EMC compliant.
- * The Azimuth Scanner is a Micro controller based having RS422 serial interface for host control. The Azimuth Scanner has built in ON-LINE and OFF-LINE diagnostics facility in addition to the Power on self-test. The azimuth Scanner comes with a Desktop based Test software for stand-alone testing.

SYSTEM CONTROLS

TECHNOLOGY SOLUTIONS PRIVATE LIMITED



Technical Specifications

Drive Specification

Azimuth	: N x 360.
Payload	: Max 110 Kg
Continuous torque at 80 Kmph	: 40Nm at 25 rpm
Azimuth Scanner Weight*	: Less Than 25 KG
Angular Accuracy	: ± 0.1
Readout accuracy	: ± 0.001
Speed	: 25 RPM rate settable from 1 to 25 RPM in steps of 0.5 RPM with a tolerance of maximum 2%.

Environmental specifications

Temperature	
(Operational)	: -30°C to 55°C
(Storage)	: -40°C to 70°C
Wind condition	
(Operational)	: Up to 80 Kmph
(Survival)	: Up to 120 Kmph
Humidity	: 95% RH
EMI	: MIL std 461E
Environment	: L3 class JSS 55555 tests including driving rain test.
Thermal Shocks	: -20 ⁰ to +70 ⁰ as a sudden change
Rain, Salt, Fog, Fungus	: As per MIL STD 810F
Solar Radiation	: As per JSS55555 L2 category
Sand & Dust	: Velocity 8.9 m/s Temp. 23 ⁰ C to 70 ⁰ C Duration= 6 hours each

General Specifications

Power Supply	: 24VDC input voltage.
Total power consumption	: 250W
Interface Type	: RS-422
Input Type	: DC Input

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