

POS Series Leos

Cutting edge gyrostabilized 2-Axis Pan & Tilt

POS-Leos is a two-axis platform designed to keep performance of optronic sensors on-the-move whatever the movement of the platforms and in harsh environments. Used for observation, reconnaissance and targeting applications, Leos achieves ultimate Line Of Sight stabilization. Thanks to the integration of high-grade gyroscopes coupled to advanced algorithms, Leos maintains medium-weight optronic sensors' performance, detection, reconnaissance and identification capabilities. As of today, two models are available and provide various degrees of gyrostabilization according to customers' needs.



FEATURES

- U shape configuration
- Rugged design
- Gyrostabilization

BENEFITS

- Compensation of high-dynamic platform movements
- Keep original performance of on-the-move optronic sensors
- 0,1 mrad-class pointing accuracy
- Zero intrusion into cabin space ("all inside design")
- Harsh environments
- Free of License – No ITAR components

APPLICATIONS

- Land and Naval
- Observation and reconnaissance
- Targeting

TECHNICAL SPECIFICATIONS

Key performance

System	Two-axis platform of tilt (elevation) over pan (azimuth)
Excursion range	Tilt: $\pm 90^{\circ}$; Pan: Unlimited (slip-ring)
Rate	0,01 - $120^{\circ}/s$
Acceleration	$< 150^{\circ}/s^2$
Line-Of-Sight stabilization	$< 100 \mu rad$ (Leos L5) / $< 20 \mu rad$ (Leos L7)
Position resolution	$0,0002^{\circ}$
Position accuracy	$0,01^{\circ}$
Brakes	Azimuth and elevation motors with brakes
Communication	RS422

Payload physical and electrical interfaces

Maximum payload	40kg (ground fixed) or 20kg (on the move with balanced payload)
Payload connection	D38999 connectors on pedestal and AZ frame
Power input	20-33VDC
Communication for payload	RS422, 1 x HD-SDI (option Gigabit Ethernet)

Turret physical and electrical characteristics

Turret weight and dimensions	45kg, Diameter 500mm, height 500mm
Payload connection	D38999 connectors on pedestal and AZ frame
Power input	20-33VDC
Power consumption	$< 10W$ power on and stand-by $< 65W$ peak at $20^{\circ}C$ (increases between $[-40^{\circ}C; -10^{\circ}C]$)

Environmental conditions

Compliant with MIL-STD-810, MIL-STD-416

Operating temperature (storage)	$-32^{\circ}C$ to $+71^{\circ}C$ ($-40^{\circ}C$ to $+80^{\circ}C$)
Shocks	40g, 11ms
Degrees of protection	IP65

Options

Customized slip-ring, bracket extension, color, mechanical interface, maritime version (IP67)