

Stab Series **LEOS L**

Cutting edge gyrostabilized 2-Axis Pan & Tilt

Stab Leos L 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 L achieves ultimate Line-of-sight stabilization. Thanks to the integration of high-grade gyroscopes coupled to advanced algorithms, Leos L 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 with Exail FOG

BENEFITS

- Compensation of high-dynamic platform movements
- Keep original performance of on-the-move optronic sensors
- 0,01° 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 $^\circ/\text{s}$
Acceleration	$< 150 \text{ }^\circ/\text{s}^2$
Line-of-Sight stabilization	$< 100 \text{ }\mu\text{rad}$ (Leos L5) rms / $< 20 \text{ }\mu\text{rad}$ rms (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	40 kg (ground fixed) or 20 kg (on-the-move with balanced payload)
Payload connection	D38999 connectors on pedestal and AZ frame
Power input	20-33VDC
Communication for payload	RS422 (option: Gigabit Ethernet, HD-Sdi)

Turret physical and electrical characteristics

Turret weight and dimensions	45 kg, diameter 530 mm, height 540 mm
Payload connection	D38999 connectors on pedestal and AZ frame
Power input	20-33VDC
Power consumption	$< 10 \text{ W}$ power on and stand-by $< 75 \text{ W}$ peak at 20 $^\circ\text{C}$ (increases between $[-40 \text{ }^\circ\text{C}; -10 \text{ }^\circ\text{C}]$)

Environmental conditions

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

Operating temperature (storage)	$-32 \text{ }^\circ\text{C}$ to $+65 \text{ }^\circ\text{C}$ ($-40 \text{ }^\circ\text{C}$ to $+71 \text{ }^\circ\text{C}$)
Shocks	40 g, 11 ms
Degrees of protection	IP65

Options

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