

POS Series Neos

Gyrostabilized 2-Axis Pan & Tilt

POS-Neos is a two-axis platform designed to carry multiple payloads on-the-move and in harsh environments. Used for situational awareness, security and surveillance applications, Neos offers a versatile platform that enables multiple optical sensors packages to provide sharp images and/or videos. It can be mast-mounted or embarked on a mobile platform.



FEATURES

- I shape configuration
- Up to 3 mounting interfaces
- Rugged design
- Gyrostabilization

BENEFITS

- Sub mrad-class pointing accuracy
- High payload modularity
- Compliant with multiple payloads with different sizes
- Compensation of platforms slow movements
- Zero intrusion into cabin space ("all inside design")
- Harsh environments
- Free of License - No ITAR components

APPLICATIONS

- Land and maritime
- Situational awareness and security
- Tracking
- Coastal and borders surveillance

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 - $60^\circ/s$
Rate resolution	$0,001^\circ/s$
Acceleration	$< 90^\circ/s^2$
Line-Of-Sight stabilization	$< 1\text{mrad}$
Position resolution	$0,0001^\circ$
Position accuracy	$0,01^\circ$
Brakes	Azimuth and elevation motors with brakes
Communication	RS422

Payload physical and electrical interfaces

Maximum payload	60kg (ground fixed) or 40kg (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	With standard bridge: 25kg, 535mm (height) x 285mm (width) x 230mm (depth)
Payload connection	D38999 connectors on pedestal and AZ frame
Power input	20-33VDC
Power consumption	$< 33\text{W}$ servo on and no turret movement $< 100\text{W}$ peak at 20°C (increases between $[-40^\circ\text{C}; -10^\circ\text{C}]$)

Environmental conditions

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

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

Options

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