

POS Series Ceos

Gyrostabilized 2-Axis Pan & Tilt

POS-Ceos is a two-axis platform designed to carry single payloads on-the-move and in harsh environments. Used for situational awareness, security and surveillance applications, Ceos light-weight platform guarantees sharp images and/or videos by providing reliable stabilization to the most modern medium-weight integrated optical sensors packages.



FEATURES

- L or U shape configuration (optional arm)
- Rugged design
- Gyrostabilization

APPLICATIONS

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

BENEFITS

- Sub mrad-class pointing accuracy
- Lightweight
- Compensation of slow platform movements
- Cost effective solution
- Zero intrusion into cabin space ("all inside design")
- Harsh environments
- Free of License - No ITAR components

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 - $60^\circ/\text{s}$
Rate resolution	0,001 $^\circ/\text{s}$
Acceleration	$< 60^\circ/\text{s}^2$
Line-Of-Sight stabilization	$< 1\text{mrad}$
Position resolution	0,0001 $^\circ$
Position accuracy	Pan : $0,05^\circ$; Tilt : $0,01^\circ$
Brakes	Azimuth and elevation motors with brakes
Communication	RS422

Payload physical and electrical interfaces

Maximum payload	Up to 30kg (ground fixed) or 15kg (on the move with balanced payload)
Payload connection	D38999 connectors on pedestal and AZ frame
Power input	20-33VDC
Communication for payload	RS422

Turret physical and electrical characteristics

Turret weight and dimensions	Without optional arm : 11,5kg, 385mm (height) x 165mm (width) x 320mm (length) With standard optional arm : 12kg , 385mm (height) x 165mm (width) x 555mm (length)
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	10g, 11ms
Degrees of protection	IP65

Options

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