POS-TEOS

POS Series
High precision two-axis pan & tilt system

The **iXBlue** two-axis POS-TEOS platform is designed for land and naval applications. This turret integrates optical, laser or antenna systems with very accurate motion on its two automatic rotating axes, used for surveillance, detection or communication applications. This system, based on **iXBlue** mechatronics know-how, is designed, developed and integrated with the latest technologies of control and automatic functions of tracking and pointing.

FEATURES

- Land and sea outdoor operations
- Gyro-stabilization
- Tracking capabilities
- Two payloads dimensions
- L or U shape configuration

BENEFITS

- High pointing accuracy
- Compact and lightweight
- Low power consumption
- MIL-STD-810G qualified

APPLICATIONS

- Surveillance • Detection • Recognition • Identification
- For land, naval, coast guards, ports & borders

iXBlue
DEEP INSIGHT. SHARPER SENSES.

POS-TEOS

TECHNICAL SPECIFICATIONS

PERFORMANCE

System	Two-axis platform of pan (azimuth) and tilt (elevation)
Coverage	Tilt +/-90 deg, pan +/- 185 deg, unlimited (optional)
Driving mechanism	No backlash reducer, AC brushless motors
Controller	Standard controller
Angular rate	± 60 deg/sec to 200 deg/sec
Acceleration	± 90 deg/sec^2 to 200 deg/sec^2
Pointing and repeatability accuracy	0,01 deg

Operating range / Environment

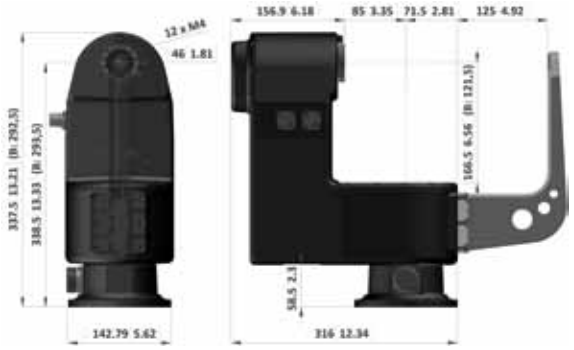
Temperature conditions	Operating range -30°C to +55°C (storage: -55°C to +70°C)
Electromagnetic compatibility	CE 102, CS 101, CS 114, RE 102, RE 103, EN1000-4-2 for immunity for electronic discharge
Environment	MIL-STD-810G for operation and storage, Protection against water (IP65)
Vibrations and shocks	MIL-STD-810G

PHYSICAL CHARACTERISTICS

Nominal payload	15 kg (ground mount) or 10 kg (vehicle mount)
Weight and dimensions	11 kg, 145 x 320 x 340 mm (height)
Input voltage	18/36 V
Power consumption	70 W (typical peak value)
Communications	RS232, RS422, Ethernet

OPTIONS & ACCESSORIES

iXBlue Advance controller with model-based advanced servo-loop
Gyro-stabilization function
Advanced automatic tracking function
Control with rugged computer, joystick or any other terminals
Added embedded units proposed: AHRS, GPS, camera (IR, day)
Pan unlimited rotation with slip-rings and rotary joints



Dimensions with L or U shape

Performance can change with options
Specifications are subject to change without notice
Please contact iXBlue for special requirements

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2012-06-PS-POS-TEOS