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INFRARED - DAYLIGHT - SEARCHLIGHT

SECurus System

Multi purpose electrooptical sensor station

The NORBIT Aptomar SECurus system is a high performance multi purpose camera system, tailored for the maritime environment. The SECurus offers functionality and performance normally only found in military graded camera systems, all available in a COTS ITAR-free package.

KEY FUNCTIONALITY

- Stabilization in 6 degrees of freedom
- High resolution, long range thermal and daylight sensors
- Target detection and tracking
- Powerful xenon searchlight
- Augmented reality; merging of sensor data and map information for enhanced decision support
- Rugged design, easy service and maintenance
- Fully integrated in the multi purpose SeaCOP Situational Awareness and Decision Support operator interface



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TECHNICAL SPECIFICATIONS

Specifications subject to change without any further notice.

Products	SECurus	SECurus Enhanced		
CAMERAS				
Daylight	Color - Low Light			
Infrared - Medium Wave	MWIR (640 x 512) Lens: 430 mm FOV: 1.28° (H) x 1.02° (V)	MWIR HD (1280 x 720) Lens: 420 mm FOV: 1.75° (H) x 0.98° (V)		
Infrared - Short Wave	Only available on SECurus Enhanced	SWIR HD (1280 x 1024) Lens: 500 mm FOV: 1.47° (H) x 1.17° (V)		
Laser Range Finder				
	Only available on SECurus Enhanced	10Hz Eye-safe Laser class 1, 20 km range		
Searchlight	350 W Xenon	Only available on standard SECurus		
Stabilization	3-axis stabilization of 6 DOF (roll, pitch, yaw, surge, sway and heave) (Requires compatible GPS, Gyro and IMU/MRU)			
	Azimuth coverage: ± 200° Elevation coverage: - 90° to + 80° Roll coverage: - 30° to + 30° Stability/precision: < 3.5µ rad	Azimuth slew rate: > 90°/s Elevation slew rate: > 70°/s Roll slew rate: > 90°/s		
	Azimuth accuracy: < 0.009°	Elevation accuracy: < 0.004°		
	Roll accuracy: < 0.004°			
Dimensions	*Size: 1052 x 1070 x 686 [mm]	*Weight: 180 (kg)	*Power: (Max) 2kW	
Operating Conditions	*-40°C to 50°C	*Coated Cromatized Aluminium	*IEC-60945	*MIL-STD-461G

OPERATOR INTERFACE - SeaCOP

The SECurus range of EO sensor stations are all fully integrated with the SeaCOP sensor integration and decision support platform. SeaCOP is an intuitive and easy-to-use interface that provides enhanced situational awareness and a common operational picture (COP). The SeaCOP combines powerful process and decision support tools, integrating sensors and sensor platforms such as AIS, cameras, radars, sonars, drones and satellite data and more. The sensors and data sources are all integrated, processed and fused together in real-time, giving the operator an unmatched situational awareness. For the operator this means an early warning, the right information to take appropriate decisions and initiate efficient counter measures.

