

ISEA-35HD

Surveillance System For Maritime Missions



The iSea-35HD is a member of the iSea family of observation systems that were especially designed for the harsh maritime environment.

Powered by Edge AI with advanced image processing, ATR, and VMD, CONTROP systems deliver superior situational clarity and efficiency, easing operator workload and enabling faster, more confident decision-making.

The iSea systems provide maximum sensor range performance by using highly sensitive sensors, gyro-stabilization and unique video enhancement algorithms.

CONTROP's iSea family of EO/IR systems may be integrated with the vessel's systems and offer a full solution for naval and maritime operational requirements.

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Electro-Mechanical

Type:	3 Gimbal Gyro-stabilized System		
Field of Regard:	Azimuth: 360° x N (continuous)		
	Elevation: +85° to -30°		
Angular Velocity:	Azimuth / Elevation: 60° / Sec		

Thermal Imaging (TI) Sensor

Spectral Range:	3.0 - 5.0 μ m		
Detector:	FPA 1280x720 XBN		
Lens:	Zoom X12.5		
Field of View:	Widest	Narrowest	E. Zoom (x2)
	36° x 20°	2.9° x 1.6°	0.9° x 0.55°

SWIR Spotter (Optional)

Spectral range:	0.9 - 1.7 μ m		
Detector:	640x512 pixels FPA; pixel pitch: 15 μ m		
Lens:	400mm (fixed)		
Field of view:	Narrowest	x2 Elect. Zoom	
	1.35° x 1°	0.67° x 0.5°	

Laser Rangefinder (optional)

Type:	Eyesafe, Class 1		
Wavelength:	1.54 μ m		
Range:	75 – 15,000m (20,000 optional)		

Laser Pointer (optional)

Wavelength:	0.8 μ m
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Physical Characteristics

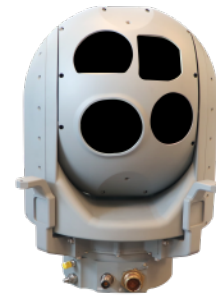
Weight (Turret):	22kg (48.5lb)
Dimensions (Turret):	($\varnothing$)305mm (12") x (H)430mm (17")
PEB:	3.8 kg (8.9lb) (optional 1.5 kg)
Control Unit:	1.5 kg (3.3lb)

Electrical Interface

Voltage:	28 VDC
Power Consumption:	100 Watt (nominal)
Video Outputs:	1xHD-SDI (1080P25) SMPTE 292M
	1x PAL
	1x H.264/H.265 (1920x1080 25FPS)
	1x USB-C (Optional for video recording)

Environmental Conditions

Temperature:	-20 C to +55 C (-32° C Optional)
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22kg



Radar



GPS



Control Unit



Naval weapon station



Command & Control Systems



Features

Superior Gyro-stabilized Image
Multi-Spectral Imaging
Advanced Image Processing
Lightweight and Compact Design
Naval Qualified
Integrated with Vessel's Systems

Optional

Laser Pointer
Control Unit (CU)
Ruggedized video displays
Digital Video Recorder (DVR)
NMEA0183 Communication Protocol

Image Processing

Local AGC
Video Enhancement
Automatic Target Tracker