

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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Surveillance System For Maritime Missions

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 μm
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°

Full HD Daylight Channel

Camera: Color Full HD 1920 x 1080 Pixels
Lens: Zoom X 21
Field of View: Widest Narrowest E. Zoom (x2)
 48° x 27° 2.3° x 1.3° 1.35° x 0.76°

SWIR Spotter

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

Laser Rangefinder

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

Laser Pointer (optional)

Wavelength: 0.8 μm

Physical Characteristics

Weight (Turret): 22kg (48.5lb)
Dimensions (Turret): (Ø)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)

Features

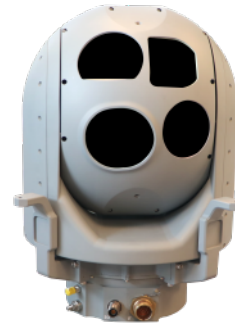
- Superior Gyro-stabilized Image
- Multi-Spectral Imaging
- Advanced Image Processing
- Lightweight and Compact Design
- Naval Qualified
- Integrated with Vessel's Systems

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



22kg



Radar



GPS



Control Unit



Naval weapon station



Command & Control Systems

