The iSea-50HD is a member of the iSea family of observation systems that were especially designed for the harsh maritime environment.

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.

Applications
Search & Rescue
Border Surveillance
Law Enforcement
EEZ Protection
Counter Piracy
Special Operations

Detection range to small boat target

Technical info:

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iSea-50HD
Surveillance System For Maritime Missions

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

Optional
Eyesafe Laser Range Finder (LRF)
Laser Pointer
Control Unit (CU)
Ruggedized video displays
Digital Video Recorder (DVR)
NMEA0183 Communication Protocol

Image Processing
Local AGC
Video Enhancement
Automatic Target Tracker

Electro-Mechanical
Type: 4 Gimbal Gyro-stabilized System
Field of Regard: Azimuth: 360° x N (continuous)
Angular Velocity: Elevation: +110° to -65° / Elevation: 60° / Sec (max)

Thermal Imaging (TI) Sensor
Spectral Range: 3.0 - 5.0 µm
Detector: FPA 1280x1024
Lens: Zoom X22
Field of View: Widest Narrowest (optical) x3 Elect. Zoom
35.5° x 28° to 1.6° x 1.3° to 0.53° x 0.43°

Full HD Daylight Channel
Camera: Color Full HD 1920x1080 pixels
Lens: Zoom X22
Field of View: Widest Narrowest x3 Elect. Zoom
50° x 28° to 2.3° x 1.3° to 0.8° x 0.45°

Spotter Channel
Daylight Camera: Color Full HD 1920x1080 pixels
Field of View: Narrowest x3 Elect. Zoom
0.8° x 0.45° to 0.25° x 0.14°

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

Laser Pointer (optional)
Wavelength: 0.8 µm

Physical Characteristics
Weight (Turret): 29 kg (64lb)
Dimensions (Turret): Ø354mm (14") x H500mm (19.7")
PWB: 3.8 kg (8.4lb)
Control Unit: 1.5 kg (3.3lb)

Electrical Interface
Voltage: 28 VDC
Power Consumption: 100 Watt (nominal)
Video Outputs: HD-SDI (1080p) and PAL

Environmental Conditions
Temperature: -32 C to +55 C

CONTROP reserves the right to change specifications without prior notice

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