

iSea-50HD

Surveillance System For Maritime Missions



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



Technical info:

| | |
|----|-------|
| KG | 29kg |
| Ø | 354mm |
| NM | 15Nm |

 Detection range to small boat target

CONTROP
Turning Vision Into Reality

iSea-50HD

Surveillance System For Maritime Missions

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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




**Command &
Control Systems**


GPS


**Weapon
Station**


Control Unit


Radar

Electro-Mechanical

Type: 4 Gimbal Gyro-stabilized System
Field of Regard: Azimuth: 360° x N (continuous)
Elevation: -30° to +85°
Angular Velocity: Azimuth / Elevation: 60° / Sec (max)

Thermal Imaging (TI) Sensor

Spectral Range: 3.0 - 5.0 μ m
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°

or

Spectral Range: 3.0 - 5.0 μ m
Detector: FPA 640x512 InSb
Lens: Zoom X36
Field of View: Widest Narrowest (optical) x3 Elect. Zoom
27° x 21° to 0.76° x 0.57° to 0.25° x 0.19°

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° 0.25° x 0.14°

or

SWIR Camera: InGaAs 640x512 pixels
Field of View: Narrowest x2 Elect. Zoom
0.9° x 0.5° 0.33° x 0.15°

Laser Rangefinder (optional)

Type: Eyesafe, Class 1
Wavelength: 1.54 μ m
Range: 75 – 20,000 m

Laser Pointer (optional)

Wavelength: 0.8 μ m

Physical Characteristics

Weight (Turret): 29 kg (64lb)
Dimensions (Turret): (\varnothing)354mm (14") x (H)500mm (19.7")
PEB: 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