

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

CONTROP
Turning Vision Into Reality

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) Elevation: +110° to -65°
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:	Wides 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