

# iSea-30HD

Surveillance System For Maritime Missions



The iSea-30HD 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	21kg
Ø	305mm
NM	8.3Nm

 Detection range to small boat target

**CONTROP**  
Turning Vision Into Reality

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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



  
**Radar**

  
**Control Unit**

  
**Weapon Station**

  
**GPS**

  
**Command &  
Control Systems**

## Electro-Mechanical

**Type:** 3 Gimbal Gyro-stabilized System  
**Field of Regard:** Azimuth: 360° x N (continuous)  
Elevation: +110° to -30°  
**Angular Velocity:** Azimuth / Elevation: 60° / Sec (max)

## Thermal Imaging (TI) Sensor

**Spectral Range:** 3.0 - 5.0  $\mu$ m  
**Detector:** FPA 640x512 InSb  
**Lens:** Zoom X12.5  
**Field of View:** Widest      Narrowest (optical)      x3 Elect. Zoom  
27° x 21° to 2.2° x 1.7° to 0.73° x 0.55°

## 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°

## Laser Rangefinder (optional)

**Type:** Eyesafe, Class 1  
**Wavelength:** 1.54  $\mu$ m  
**Range:** 75 – 20,000 m

## Laser Pointer (optional)

**Wavelength:** 0.8 $\mu$ m

## Physical Characteristics

**Weight (Turret):** 21kg (46.3lb)  
**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:** 70 Watt (nominal)  
**Video Outputs:** HD-SDI (1080p) and PAL

## Environmental Conditions

**Temperature:** -20 C to +55 C

CONTROP reserves the right to change specifications without prior notice