

# iSky-50HD

Surveillance System for Airborne Missions



The iSky-50HD is a member of the iSky family of compact observation systems that were especially designed for the challenging airborne environment.




The iSky systems provide maximum sensor range performance by using highly sensitive sensors, gyro-stabilization and unique video enhancement algorithms.

CONTROP's iSky family of EO/IR systems offer a full solution for military and law enforcement airborne operational requirements.

## Applications

- Search & Rescue
- Border Surveillance
- Law Enforcement
- Force Protection
- Maritime Patrol
- Special Operations

## Technical info:

 KG	29kg
 Ø	354mm
 KM	32km

 Thermal Imaging detection range to NATO target

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Turning Vision Into Reality

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## Features

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

## Optional

Eyesafe Laser Range Finder (LRF)  
Laser Pointer  
Control Unit (CU) -  
Airborne Video Displays  
Digital Video Recorder (DVR)  
Mission Computer with Moving Map Software

## Image Processing

Local AGC  
Video Enhancement  
Automatic Target Tracker



  
Display

  
Control Unit

  
Downlink

  
Mission  
Computer

  
DVR

## Electro-Mechanical

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

## Thermal Imaging (TI) Sensor

Spectral Range: 3.0 - 5.0  $\mu$ m  
Detector: FPA 1280x1024  
Lens: Zoom X22  
Field of View: Widest      Narrowest (optical) x3 Elect. Zoom  
32° x 18° to 1.6° x 0.9° to 0.5° x 0.3°

or

Spectral Range: 3.0 - 5.0  $\mu$ 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  
1° x 0.56°      0.33° x 0.15°

or

SWIR Camera: InGaAs 640x512 pixels  
Field of View: Narrowest E.Zoom (x2)  
0.9° x 0.69°      0.45° x 0.35°

## Laser Rangefinder (optional)

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

## Laser Pointer (optional)

Wavelength: 830 nm

## Physical Characteristics

Weight (Turret): 29 kg (64lb)  
Dimensions (Turret): (Ø)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