



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.

Powered by Edge AI with advanced image processing, ATR, and VMD, CONTROP systems deliver superior situational clarity and efficiency, easing operator workload and enabling faster, more confident decision-making.

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.

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Surveillance System for Airborne Missions

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 μ m
 Detector: FPA 1280x1024
 Lens: Zoom X22
 Field of View: Widest Narrowest (optical) x3 Elect. Zoom
 35.5° x 20° to 1.6° x 0.9° to 0.5° x 0.3°
Or
 Spectral Range: 3.0 - 5.0 μ m
 Detector: FPA 640x512
 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 X20
 Field of View: Widest Narrowest x2 Elect. Zoom
 48° x 27° to 2.3° x 1.3° to 1° x 0.56°

Spotter Channel

SWIR Camera: InGaAs 640x512 pixels
 Field of View: Narrowest E.Zoom (x3)
 0.9° x 0.69° 0.33° x 0.15°
Or
 Daylight Camera: Color Full HD 1920x1080 pixels (Optional)
 Field of View: Narrowest x3 Elect. Zoom
 0.67° x 0.37° 0.22° x 0.12°

Laser Rangefinder (optional)

Type: Eyesafe, Class 1
 Wavelength: 1.54 μ 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)493mm (19.4")
 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 (1080p25) and PAL
 H.264 / H.265 (Optional), USB-C (Optional for Recording)

Environmental Conditions

Temperature: -32 C to +55 C



29kg



GPS



Control Unit



Mission Manegment System

Features

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

Optional

Airborne Video Displays
 Mission Computer With Moving Map Software
 Eyesafe Laser Rangefinder (LRF)
 Laser Pointer
 Controp Unit
 Digital Video Recorder (DVR)
 Inertial Navigation

Image Processing

Local AGC
 Video Enhancement
 Automatic Target Tracker
 AI (Optional)