

# ISKY-35HD

Surveillance System for Airborne Missions



The iSky-35HD 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.

# ISKY-35HD

## Surveillance System for Airborne Missions

### Electro-Mechanical

|                   |                                 |  |  |
|-------------------|---------------------------------|--|--|
| Type:             | 3 Gimbal Gyro-stabilized System |  |  |
| Field of Regard:  | Azimuth: 360° x N (continuous)  |  |  |
|                   | Elevation: +85° to -30°         |  |  |
| Angular Velocity: | Azimuth / Elevation: 60° / Sec  |  |  |

### Thermal Imaging (TI) Sensor

|                 |                   |             |              |
|-----------------|-------------------|-------------|--------------|
| Spectral Range: | 3.0 - 5.0 $\mu$ m |             |              |
| Detector:       | FPA 1280x720 XBN  |             |              |
| Lens:           | Zoom X12.5        |             |              |
| Field of View:  | Widest            | Narrowest   | E. Zoom (x3) |
|                 | 36° x 20°         | 2.9° x 1.6° | 0.9° x 0.55° |

### SWIR Spotter (Optional)

|                 |                                             |                |  |
|-----------------|---------------------------------------------|----------------|--|
| Spectral range: | 0.9 - 1.7 $\mu$ m                           |                |  |
| Detector:       | 640x512 pixels FPA; pixel pitch: 15 $\mu$ m |                |  |
| Lens:           | 400mm (fixed)                               |                |  |
| Field of view:  | Narrowest                                   | x2 Elect. Zoom |  |
|                 | 1.35° x 1°                                  | 0.67° x 0.5°   |  |

### Laser Rangefinder (optional)

|             |                                |  |  |
|-------------|--------------------------------|--|--|
| Type:       | Eyesafe, Class 1               |  |  |
| Wavelength: | 1.54 $\mu$ m                   |  |  |
| Range:      | 75 – 15,000m (20,000 optional) |  |  |

### Laser Pointer (optional)

|             |             |
|-------------|-------------|
| Wavelength: | 0.8 $\mu$ m |
|-------------|-------------|

### Physical Characteristics

|                      |                                  |
|----------------------|----------------------------------|
| Weight (Turret):     | 22kg (48.5lb)                    |
| 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: | 100 Watt (nominal)                      |
| Video Outputs:     | 1xHD-SDI (1080P25) SMPTE 292M           |
|                    | 1x PAL                                  |
|                    | 1x H.264/H.265 (1920x1080 25FPS)        |
|                    | 1x USB-C (Optional for video recording) |

### Environmental Conditions

|              |                                  |
|--------------|----------------------------------|
| Temperature: | -20 C to +55 C (-32° C Optional) |
|--------------|----------------------------------|



22kg



Radar



GPS



Control Unit



Command & Control Systems



### Features

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

### Optional

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