SKYPATRIOT INSIGHT

ARTIFICIAL INTELLIGENCE
DRONE CLASSIFICATION

www.olvitech.com
SkyPatriot InSight
Artificial Intelligence Drone Classification

- Operates Autonomously
- Easy Integration
- Provides Video Evidence
- AI-Based Drone Classification
- 98% Classification Accuracy
- Proprietary Artificial Intelligence

SkyPatriot InSight is a powerful AI-based classification module that can easily be integrated into existing CCTV infrastructure. InSight delivers real-time HD video frame-by-frame classification of drones.

InSight allows you to easily add our world-class AI to your existing camera infrastructure whether that be CCTV cameras or powerful PTZ’s deployed as part of your drone detection solution. Simply plug your camera directly in or through a network and InSight will continuously monitor the video and send alerts whoever a drone is spotted. InSight requires no human interaction and can operation 24 hours a day, 7 days a week totally autonomously.

SkyPatriot InSight is equipped with Rinicom’s extensive library of optical drone signatures. These signatures are used by InSight to identify the type, make, and model of the drone and any potentially harmful payload being carried.
## SkyPatriot InSight

### Physical

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-25°C to + 80°C</td>
</tr>
<tr>
<td>Power</td>
<td>30W</td>
</tr>
<tr>
<td>Weight</td>
<td>1550g</td>
</tr>
<tr>
<td>Dimensions (HxWxD)</td>
<td>223(L) x 209(W) x 134(H) mm</td>
</tr>
<tr>
<td></td>
<td>as a module option or 19&quot; rack mounted option</td>
</tr>
</tbody>
</table>

### Classification Performance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Classification Range 30° FOV</td>
<td>HD Video, 200m for Phantom</td>
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<tr>
<td>Classification Range 1° FOV</td>
<td>HD Video, 1km for Phantom</td>
</tr>
<tr>
<td>Pixels Needed for Classification</td>
<td>10 pixels</td>
</tr>
<tr>
<td>Classification Time</td>
<td>&lt;2s</td>
</tr>
<tr>
<td>Classification Accuracy</td>
<td>98%, Base on False +ve</td>
</tr>
<tr>
<td>Analytics AI Engine</td>
<td>InSight Proprietary</td>
</tr>
<tr>
<td>UAS Classification Library</td>
<td>Multi-rotor</td>
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<tr>
<td>Non-UAS Classification Library</td>
<td>TBA</td>
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### Classification I/OS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tr>
<td>Technology</td>
<td>AI InSight Machine Learning</td>
</tr>
<tr>
<td>Network</td>
<td>Gigabit Ethernet</td>
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<tr>
<td>Camera Connector</td>
<td>(16x) CSI-2 Lanes</td>
</tr>
<tr>
<td>M.2 Key M</td>
<td>NVMe</td>
</tr>
<tr>
<td>M.2 Key E</td>
<td>PCIe x1+USB 2.0+UART/I2S/PCM</td>
</tr>
<tr>
<td>40-Pin Header</td>
<td>UART + SPI + CAN + I2C + I2S + DMIC</td>
</tr>
<tr>
<td>HD Audio Header</td>
<td>High-Definition Audio</td>
</tr>
<tr>
<td>eSATAp + USB3.0 Type A</td>
<td>SATA Through PCIe x1 Bridge</td>
</tr>
<tr>
<td>HDMI Type A</td>
<td>HDMI 2.0</td>
</tr>
</tbody>
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### Technical Specifications

- **Dimensions (HxWxD):** 223(L) x 209(W) x 134(H) mm
- **Power:** 30W
- **Weight:** 1550g
- **Operating Temperature:** -25°C to + 80°C
- **Camera Connector:** (16x) CSI-2 Lanes
- **M.2 Key M:** NVMe
- **M.2 Key E:** PCIe x1+USB 2.0+UART/I2S/PCM
- **40-Pin Header:** UART + SPI + CAN + I2C + I2S + DMIC
- **HD Audio Header:** High-Definition Audio
- **eSATAp + USB3.0 Type A:** SATA Through PCIe x1 Bridge
- **HDMI Type A:** HDMI 2.0
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- **HDMI Type A:** HDMI 2.0

**Datasheet:**

SkyPatriot InSight

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**Classification Performance**

- Classification Range 30° FOV: HD Video, 200m for Phantom
- Classification Range 1° FOV: HD Video, 1km for Phantom
- Pixels Needed for Classification: 10 pixels
- Classification Time: <2s
- Classification Accuracy: 98%, Base on False +ve
- Analytics AI Engine: InSight Proprietary
- UAS Classification Library: Multi-rotor
- Non-UAS Classification Library: TBA

**Classification I/OS**

- Technology: AI InSight Machine Learning
- Network: Gigabit Ethernet
- Camera Connector: (16x) CSI-2 Lanes
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- HDMI Type A: HDMI 2.0

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