The FLIR StormCaster-L ultra low-light imaging payload offers unmatched ISR, tracking and mapping performance during twilight and nighttime operations.

As a member of our next generation payload family, the StormCaster-L reflects a leap in scalable payload performance offering a 7x improvement in line of sight stabilization, enhanced range of motion and a dramatically increased geolocation accuracy - all in a rugged, low SWaP-C package.

The modularity of the StormCaster payload family facilitates interoperability and rapid interchange of payloads across SkyRanger R70 and R80D SkyRaider platforms while leveraging continuously evolving aircraft performance, intelligence and a set of available accessories.

**Features**
- **Full Color Ultra Low-Light 4K/12MP EO Imaging**
  Crisp, sharp imagery provides critical intelligence under demanding lighting conditions.
- **Stabilization Performance**
  Permits clandestine operation by increasing aircraft standoff range.
- **Rich and Expanding Feature Set**
  With multiple embedded NVIDIA TX2 processors, the R70/R80D is a flying supercomputer with an engine for real-time AI at the network edge, including object detection and classification and support for AI development with third-party vendors.

**Applications**
- **Immediate ISR**
- **Clandestine Operations**
- **Targeting**
- **Situational Awareness**
- **Event Overwatch**
- **Force Protection**
- **Critical Infrastructure Protection**
- **Border Security**
- **Advanced Target Recognition**
## SPECIFICATIONS

**Low Light Imager**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>4240 x 2832 max, 12.2 MP</td>
</tr>
<tr>
<td>Fields of View</td>
<td>39° optical, 11° with digital zoom</td>
</tr>
<tr>
<td>Gimbal</td>
<td></td>
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<tr>
<td>Line-of-sight Stabilization</td>
<td>&lt; 0.3 mRad</td>
</tr>
<tr>
<td>Stabilization</td>
<td>3 axis (pitch, roll, yaw)</td>
</tr>
<tr>
<td>Vibration Isolation</td>
<td>6 axis passive on aircraft</td>
</tr>
<tr>
<td>Controllable Ranges of Motion</td>
<td></td>
</tr>
<tr>
<td>Roll</td>
<td>+/- 0 degrees</td>
</tr>
<tr>
<td>Pitch</td>
<td>+/-90 degrees</td>
</tr>
<tr>
<td>Yaw</td>
<td>+/- 180 degrees</td>
</tr>
<tr>
<td>Slew Rate</td>
<td>60 deg/s</td>
</tr>
<tr>
<td>Weight</td>
<td>1.3Kg (2.9 lbs)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>196mm (W) x 201mm (L) x 239mm (H)</td>
</tr>
<tr>
<td></td>
<td>7.7&quot; (W) x 7.9&quot; (L) x 9.4&quot;(H)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0°C to 45°C (32°F to 113°F)</td>
</tr>
<tr>
<td>Additional System Features</td>
<td>Geo-pointing</td>
</tr>
<tr>
<td></td>
<td>User Defined Object Tracking</td>
</tr>
<tr>
<td></td>
<td>Moving Target Indication</td>
</tr>
<tr>
<td></td>
<td>Digital Image Stabilization</td>
</tr>
<tr>
<td></td>
<td>Target Coordinates, Heading, Speed</td>
</tr>
<tr>
<td></td>
<td>AI-based People/Vehicle Detection &amp; Classification</td>
</tr>
<tr>
<td></td>
<td>Q2 2020</td>
</tr>
</tbody>
</table>

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