**NSP-5 EO/IR™**

**IMSAR’s NSP-5 EO/IR is a high altitude electro-optical infrared sensor capable of integrating with low swap payloads.**

**HIGH RESOLUTION OPTICAL**

The EO/IR configuration of the NSP-5 is designed for versatile integration either as a standalone sensor payload or as complement to existing payloads. With no more than three inputs – power, ethernet, and GPS – the NSP-5 EO/IR is quickly and easily affixed to an aircraft’s wing or fuselage.

**INCREASE YOUR RESOLUTION**

The NSP-5 EO/IR pod houses an 18 mega pixel camera capable of extremely high-resolution stills from distances of up to 3 kilometers. The incorporated mid-wave infrared (MWIR) sensor provides a high-resolution thermal (TIR) sensitive complement to the sensor package.

**MADE FOR MAPPING**

The NSP-5 EO/IR can be configured in a mapping mode, creating still imagery that can be orthorectified and stitched to provide updated maps. Additionally, the NSP-5 EO/IR can rotate from horizon to horizon in order to provide off-nadir still imagery.

**PART OF THE FAMILY**

As part of the NSP-5 line of products, the NSP-5 EO/IR shares the same mounting apparatus as other NSP-5 products. This means that depending on the mission parameters and the available resources, any of the NSP-5 family can be easily substituted for another on the same aircraft. Alternatively, the shared integrations of the NSP-5 family makes it quick and easy to move a single NSP-5 product across multiple aircraft. The NSP-5 family allows the user to do much more with less.
# Electro-Optical (EO) Specifications

<table>
<thead>
<tr>
<th><strong>Pod Dimensions</strong></th>
<th>5.48 in Diameter X 43.223 in</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pod Dimensions (Metric)</strong></td>
<td>13.91 cm Diameter X 109.78 cm</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>18.3 lbs</td>
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<td><strong>Weight (Metric)</strong></td>
<td>8.3 kg</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>24 W</td>
</tr>
<tr>
<td><strong>Supply Voltage</strong></td>
<td>24 - 28 V</td>
</tr>
</tbody>
</table>

## Standoff Range
- **1 - 3 km**

## Sensor Resolution
- **18 MP (5288 x 3506 Px)**

## Ground Sampling (GSD)
- **---**

## Field of View (FOV)
- **4.26° X 6.38°**

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# Infrared (IR) Specifications

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## Standoff Range
- **1 - 3 km**

## Sensor Resolution
- **0.3 MP (640 x 480 Px)**

## Ground Sampling (GSD)
- **---**

## Field of View (FOV)
- **4.4° X 3.3°**

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# Modes

- **Operating Mode**: Manual, Auto, Auto on Target
- **Command & Control**: Lisa 3D
- **Communication**: Ethernet
- **Image Products**: COMPLEX NITF, TIFF, JPEG, PNG

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# Image Processing & Exploitation

- **Lisa Image**: Real-time image processing
- **Lisa 3D**: Image exploitation, control, & flight planning

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# Capabilities

<table>
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<tr>
<th>Electro-Optical</th>
<th>Infrared</th>
</tr>
</thead>
</table>

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