SPARROW

THERMAL CAMERAS FAMILY

GENERAL DESCRIPTION

The SPARROW family are electro-optical systems (EOS). They are an advanced last generation thermal cameras for homeland security and defence applications. It is used for a variety of applications on different platforms for intelligence/data collection, recognition, surveillance and long distance control system. The family is composed by four cameras, whose recognition range is up to 16 Km.

BENEFITS OF USING SPARROW

FUNCTIONALITY AND DIMENSIONS
- Lightweight thermal cameras EO System.
- Recognition ranges up to 16 Km.
- Spectral Bands: MWIR and LWIR

VERSATILITY
- Simple installation onto a variety of platforms.
- Adaptable solutions to customized proposals.

CONTROL
- Easy control of whole functionality of the system.
- Intuitive GUI (Graphical User Interface).
**NATO TARGET 2.3x2.3 m RANGE**

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th></th>
<th>SPARROW-SR</th>
<th>SPARROW-MR &amp; MR+</th>
<th>SPARROW-LR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spectral band</strong></td>
<td>8-12 μm</td>
<td>3.7-4.8 μm</td>
<td>3.7-4.8 μm</td>
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<tr>
<td><strong>Resolution</strong></td>
<td>1024x768 pixels</td>
<td>640x512 pixels</td>
<td>1280x720 pixels</td>
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<tr>
<td><strong>FPA technology</strong></td>
<td>Uncooled Microbolometers 17 μm Pitch</td>
<td>Stirling cooled cycle InSb 15 μm Pitch</td>
<td>Stirling cooled cycle HgCdTe 10 μm Pitch</td>
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<tr>
<td><strong>FOV</strong></td>
<td>3x Zoom 6,4⁰-19⁰ FOV</td>
<td>8x Cont. Zoom 2⁰-16⁰ FOV (MR)</td>
<td>8x Cont. Zoom 1⁰-8⁰ FOV (MR+)</td>
</tr>
<tr>
<td><strong>Focus modes</strong></td>
<td>Auto/Manual</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Image processing</strong></td>
<td>NUC Temporal Filter NR Edge Enhancement Pseudo Color 3 AGC Modes Electronic Zoom</td>
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<tr>
<td><strong>IP</strong></td>
<td></td>
<td>IP67</td>
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<td><strong>Environmental test</strong></td>
<td></td>
<td>MIL-STD-810G</td>
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</tbody>
</table>

**Graph**

- **SPARROW SR HD**
- **SPARROW MR**
- **SPARROW MR+**
- **SPARROW LR**

**Legend**

- **Detection (Km)**
- **Recognition (Km)**
- **Identification (Km)**

**Detection (Km)**: 0, 5, 10, 15, 20, 25, 30

**Recognition (Km)**: 0, 5, 10, 15, 20, 25

**Identification (Km)**: 0, 5, 10, 15, 20

**Notes**

- **SPARROW-SR**
- **SPARROW-MR**
- **SPARROW-MR+**
- **SPARROW-LR**