Imagine the invisible

High resolution uncooled thermal OEM module

Ready-to-integrate thermal OEM module consuming ultra-low-power

Xenics’ XTM-640-16bitDV is an extremely compact and versatile thermal camera module with unique image quality and stability for a broad range of OEM applications. These applications include security, night vision, firefighting, airborne and land-based reconnaissance and surveillance.

We guarantee you a high operating temperature range and unparalleled uniform and crisp thermal images thanks to on-board image processing and full shutter control.

You can easily integrate our XTM-640-16bitDV into your system with the universal Samtec QTE connector, which gives you 16 bit parallel digital video data. This allows you immediate connection, data acquisition, command and control.

The 640 x 480 image resolution with small pixel pitch of 17 µm allows for longer Detection, Recognition and Identification (DRI) values in critical security applications.

Key features

- Low power
- High resolution
- Easy connectivity
- Small size, 17 µm pixel pitch
- 50 Hz frame rate worldwide

OEM applications

- UAV / UGV
- Gimbal
- Night vision
- Thermal sights
- Border security
- Fire fighting
- Driver assistance
- Police surveillance
- Search & Rescue (SAR)
- Electro optical payloads
Ready-to-integrate

› Lens & filter options
- Athermalized lenses
- Fixed focus lenses
- DFOV lenses
- Zoom lenses

› Discover our Lens Selector Guide
www.xenics.com/LSG

› Inputs
- Samtec QTE

› Outputs

Specifications

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<td>Dimensions (W x H x L mm³)</td>
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<td>Weight module</td>
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Array specifications

<table>
<thead>
<tr>
<th>Array specifications</th>
<th>XTM-640-16bitDV</th>
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<tbody>
<tr>
<td>Array type</td>
<td>Uncooled microbolometer (a-Si)</td>
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<tr>
<td>Spectral band</td>
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<td># pixels</td>
<td>640 x 480</td>
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<td>Pixel pitch</td>
<td>17 μm</td>
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<tr>
<td>NETD</td>
<td>50 mK @ 30°C with F/1 lens</td>
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<tr>
<td>Array cooling</td>
<td>75 mK @ 30°C with F/1 lens</td>
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<td>Pixel operability</td>
<td>&gt; 99 %</td>
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Product selector guide

<table>
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<tr>
<th>Part number</th>
<th>NETD (mK)</th>
<th>Frame rate (Hz)</th>
<th>QTE Interface</th>
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Lens & filter options

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