Thermal Image Sensors

**Pico1024Gen2™**

1024 x 768 - 17 µm

**DESIGNED FOR HIGH DEFINITION INFRARED IMAGING**

Designed for the most demanding environments, Pico1024Gen2 offers high resolution and high contrast imaging for long range detection applications.

+ **OUTSTANDING IMAGE QUALITY**
+ **PROVEN RELIABILITY**
+ **SEAMLESS INTEGRATION**
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**DESIGNED FOR HIGH DEFINITION INFRARED IMAGING**

**OUTSTANDING IMAGE QUALITY**

- Sharp contrast
  - $30 \text{ mK} < \text{Thermal sensitivity} < 50 \text{mK}$ (F/1, 300K, 30Hz)
  - Extended operating temperature [-40°C; +85°C]
- Fluid and smooth image
  - Frame rate up to 120Hz
  - Thermal time constant < 1.2 ms
- High uniformity
  - Array operability > 99.5 %
  - Scene dynamic > 100°C

**PROVEN RELIABILITY**

- Standards MIL-810 - MIL 883
- Thermal Weapon Sight (TWS) qualified
- Product availability and exportability
  - Products designed and manufactured in Europe
  - Product delivery to our customers
  - On-time order deliveries > 95%

**SEAMLESS INTEGRATION**

- Flexible configuration
  - Full access to sensor features through serial link
  - External frame synchronization capability
- Simplified image processing
  - TECless, Shutterless compatible
  - Single gain table and predictable offset management for reduced calibration time
- Battery optimization
  - Low power consumption < 220 mW

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**Recognition distances for vehicle measuring 2.3 m x 2.3m**

<table>
<thead>
<tr>
<th>Lens diameter</th>
<th>Recognition distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 mm</td>
<td>900 m</td>
</tr>
<tr>
<td>75 mm</td>
<td>1690 m</td>
</tr>
<tr>
<td>100 mm</td>
<td>2255 m</td>
</tr>
</tbody>
</table>

Specifications are subject to change

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