The thermal image sensor Pico640Gen2 is a versatile product. Built on proven technology, it limits development costs and shortens time to market.

**PICO640 Gen2**

640 x 480 – 17 µm

**DESIGNED TO ANSWER ALL YOUR NEEDS**

- **ENHANCED IMAGE QUALITY**
- **PROVEN RELIABILITY**
- **SEAMLESS INTEGRATION**

**DEFENSE**

**LEISURE**

**SURVEILLANCE**

**INDUSTRY**
ENHANCED IMAGE QUALITY

**Sharp contrast**
- Thermal sensitivity < 50 mK (f/1, 300K, 30Hz)
- Thermal sensitivity < 40 mK (f/1, 300K, 30Hz) (Pico640+)
- Extended operating temperature [-40°C; +85°C]

**Fluid and smooth image**
- Frame rate up to 120Hz
- Thermal time constant < 12 ms

**High uniformity**
- Array operability > 99.5%
- Array operability ≥ 99.8% (Pico640+)

PROVEN RELIABILITY

- Standards MIL810 – MIL883
- 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%
- Guaranteed 10 years against vacuum loss

SEAMLESS INTEGRATION

- Product platform
  - Full access to sensor features (I²C)
  - External frame synchronization capability
- Simplified image processing
  - TECless, Shutterless compatible
  - Single gain table and predictable offset management
- Battery optimization
  - Low power consumption < 130 mW

**Recognition distances for human measuring 1.80 m x 0.50 m**

<table>
<thead>
<tr>
<th>Lens Size</th>
<th>Recognition Distance (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19 mm</td>
<td>1.80m</td>
</tr>
<tr>
<td>50 mm</td>
<td>455m</td>
</tr>
<tr>
<td>75 mm</td>
<td>700m</td>
</tr>
</tbody>
</table>

(Values are based on Johnson's criteria, target deltaT = 2K, perfect atmospheric and optics transmissions, theoretical square pixel.)

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