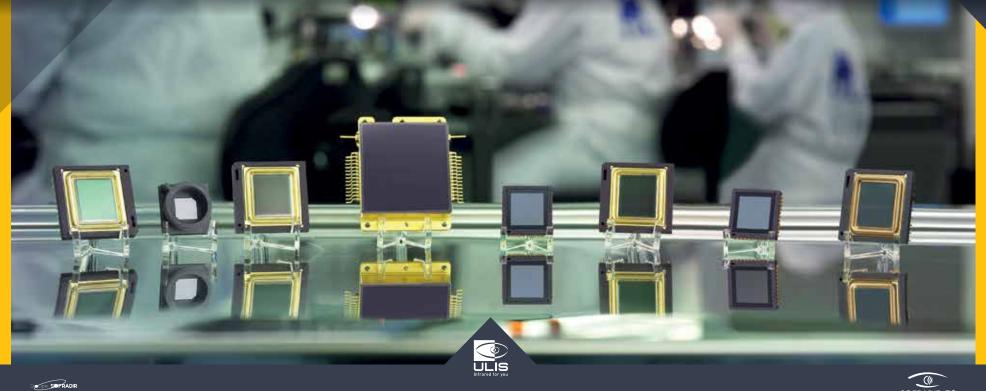
## THERMAL IMAGE SENSORS

# **PRODUCT RANGE**

2018







































### THERMAL IMAGE SENSORS **PRODUCT RANGE**

**Applications** 

**Image quality** 

#### FOR **ALL PRODUCTS**

- Detection technology: Microbolometer
- Spectral response: 8-14 μm
- Operability 24/7, all weather conditions
- Operating temperature range: -40° to +85°C
- TECless/Shutterless compatible
- Standards: MIL-STD-810 and 883
- MTTF > 15 years
- I<sup>2</sup>C serial link for register programming

**Implementation** 

**Autonomy** 

Compacity

M80-044 ™

80 x 80









- Frame rate: up to 50 Hz
- Scene dynamic > 200°C
- Array operability > 99.5 %



320 x 240 - 12 µm

Atto320-058 ™





- NETD < 60 mK (f/1, 300K, 30Hz)
- Frame rate: 30 Hz digital / 60 Hz analog
- Array operability > 99.5%
- Thermal time constant < 10 ms
- Surface Mount Device BGA\*, compliant with JEDEC's reflow and handling standards
- Integrated lens holder: M10 mount
- Compatible with optical Field of view up to 120°
- HSync/VSync clocking
- Full digital

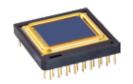
\*Ball Grid Array

- Power consumption ≤ 55 mW
- Dimensions (mm): 14 x 14 x 9
- Weight < 2 g

- Surface Mount Device I-LEAD 44, compliant with JEDEC's reflow and handling standards
- Full digital
- Free run or external trigger mode
- Compatible with Pico384-053 (17μm)
- Power consumption ≤ 220 mW
- Dimensions (mm): 16.5 x 16.5 x 4.2
- Weight < 3gr













**Pico384-053** ™ 384 x 288 - 17 µm **Pico160-054** ™ 160 x 120 - 17 μm

**Pico640-046** ™ 640 x 480 - 17 um

Pico1024-048 ™ 1024 x 768 - 17 um





















• 40 < NETD < 60 mK (F/1, 300 K, 50 Hz)

• Surface Mount Device I-LEAD 44, compliant

• External frame synchronization capability

with JEDEC's reflow and handling standards

• Frame rate up to 60 Hz

HSvnc/VSvnc clocking

- Array operability ≥ 99.8 %
- Thermal time constant < 10 ms

- Pico640: NETD < 50 mK (F/1, 300 K, 30 Hz)
  - Array operability > 99.5%
- Pico640+: NETD < 40 mK (F/1, 300 K, 30 Hz)
  - Array operability ≥ 99.8 %
- Frame rate:
- 1 output up to 60 Hz / 2 outputs up to 120 Hz
- Thermal time constant < 12 ms
- HSync/VSync clocking
- External frame synchronization capability
- 10-years vacuum lifetime guarantee
- Thermal weapon sight (TWS) qualified (Pico640+)
- Compatible with Pico384P/E

- 30 < NETD < 50 mK (F/1, 300 K, 30 Hz)
- Frame rate:
- 2 outputs up to 60 Hz / 4 outputs up to 120 Hz
- Array operability > 99.5%
- Thermal time constant < 12 ms
- Thermal weapon sight (TWS) qualified
- Proprietary communication interfaces
- External frame synchronization capability

- Power consumption < 220 mW</li>
- Dimensions (mm): 16.5 x 16.5 x 4.2
- Weight < 3 g

• Full digital

- Power consumption < 130 mW</li>
- Dimensions (mm): 24.13 x 24.13 x 4.4
- Weight < 6.5 g

- Power consumption < 220 mW</li>
- Dimensions (mm): 41.2 x 30 x 6.6
- Weight < 30 g

#### **EXPERIENCE THERMAL SENSORS**







**FOUNDED IN 2002** 



200 950 SOFRADIR **GROUP STAFF** 

We specialize in the design and manufacture of thermal sensors. Our mission is to make thermal imaging technology accessible and affordable enough for everyday use.



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**SURVEILLANCE** 



UAV







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SMART LIGHTING SMART BUILDINGS

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**North America** 

Fairfield, NJ 07004 USA Phone: 973-882-0211 Fax: 973-882-0997

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• 110 sq. m training center with dedicated

that specifically address your requirements

Supplies components only

High thermal sensitivity

A dedicated account rep

testing equipment

for personalized support

Fase of use

Compact and light weight

Lowest power consumption







