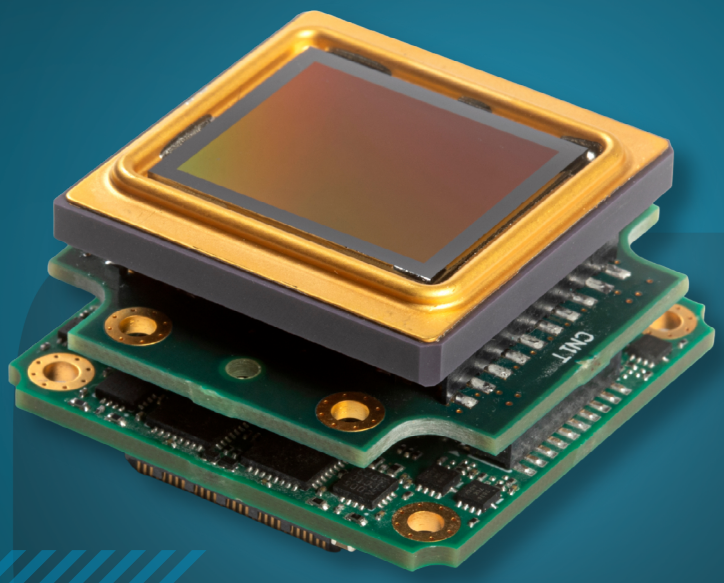
STATE-OF-THE-ART THERMAL IMAGING CORE

Xenics
Photonis Group

Dione 1024 OEM Series

Ultra-compact long-wave infrared (LWIR) thermal imaging core



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KEY FEATURES

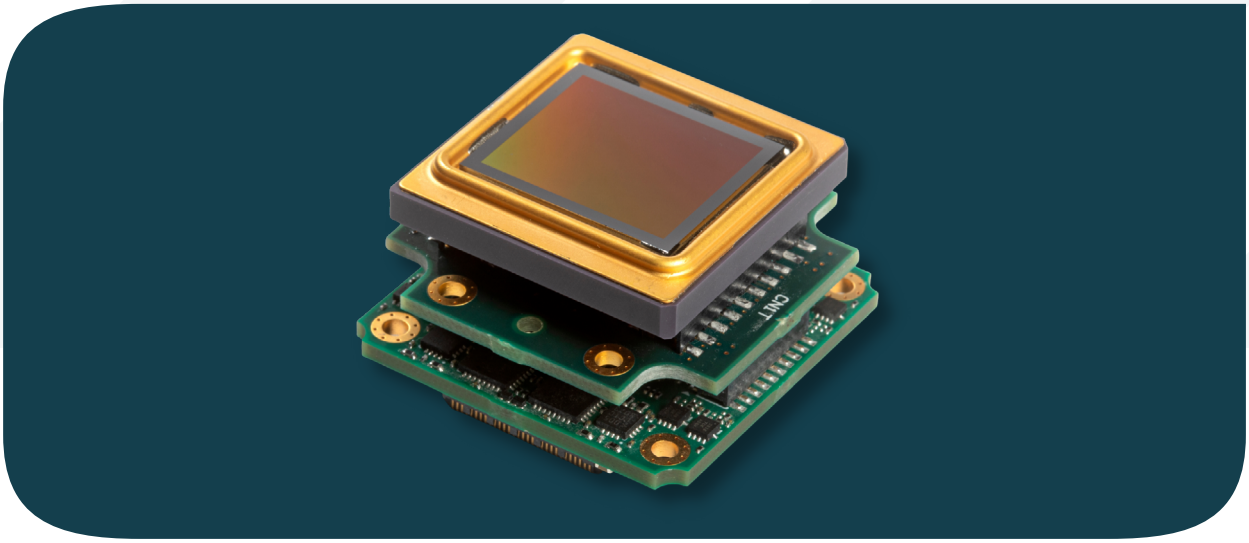
- Ultra-compact size, low weight and power (SWaP)
- 1024x768 microbolometer detector with 12 µm pixel pitch
- Frame rates up to 80 Hz
- Detector NETD is less than 40 mK (available upon request) or 50 mK
- Uncooled and shutterless
- Suitable for use in border security, thermal security and vision enhancement applications

The Dione 1024 OEM series is based on an uncooled microbolometer detector with a 1024x768 pixel resolution and 12 µm pitch. The detector NETD is less than 40 mK (available upon request) or 50 mK. The maximum frame rate is 80 Hz.

All Dione 1024 versions benefit from Xenics image enhancement for advanced image processing while keeping power consumption low. Moreover, GenICam compliance and availability of multiple lenses adds flexibility for integration programs in the target markets like safety and security, transportation and industrial process monitoring.

Dione 1024 OEM Series

EU based supplier



KEY PERFORMANCES

Image format/Pixel pitch	1024 x 768 pixels / 12 µm
Integration type	Rolling shutter
Spectral range	8 - 14 µm
Max frame rate (full frame)	80 Hz
Average power consumption	~ 2.1 W (at 60 Hz); ~ 1.9 W (at 30 Hz)
Power supply voltage	DC 5 V

FUNCTIONS & INTERFACES

Digital output format	16bit DV (standard); MIPI CSI-2 (optional)
Operating temperature range (housing temperature)	From -40 °C to +70 °C
Storage temperature	From -45 °C to +85 °C
Detector NETD	<40 mK (available upon request) or <50 mK
Shock / Vibration	40 g, 11 ms, MIL-STD810G / 5 g (20 to 2000 Hz), MIL-STD810G

PRODUCT SELECTOR GUIDE

XEN-000795 (Dione 1024 OEM 40 mK)	XEN-000793 (Dione 1024 OEM 50 mK)

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