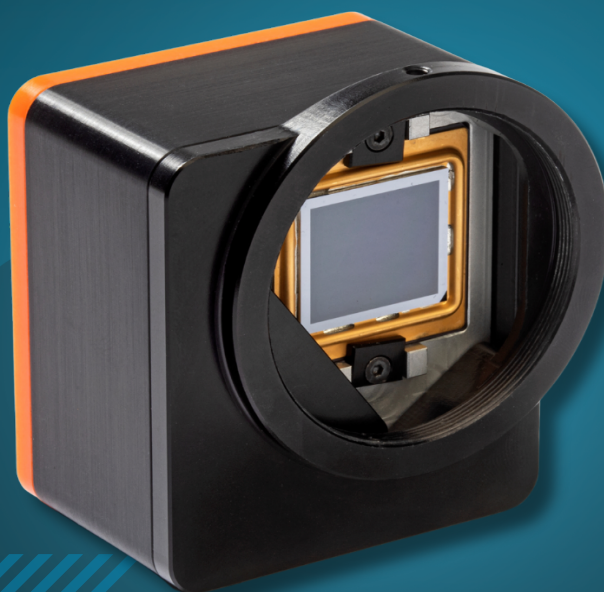


STATE-OF-THE-ART THERMAL  
IMAGING CORE



# Dione S 1024 CAM Series

Ultra-compact LWIR thermal imaging core



## STATE-OF-THE-ART THERMAL IMAGING CORE

### KEY FEATURES

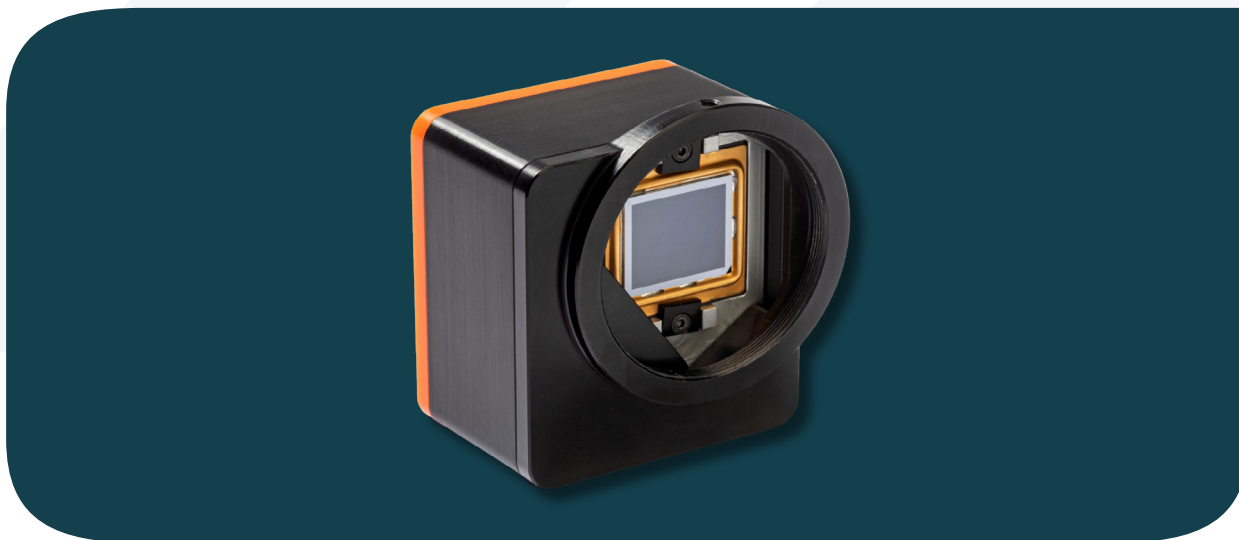
- ◆ Ultra-compact size, low weight and power (SWaP)
- ◆ 1024x768 microbolometer detector with 12  $\mu\text{m}$  pixel pitch
- ◆ Frame rates up to 80 Hz
- ◆ Detector NETD is less than 40 mK (available upon request) or 50 mK
- ◆ Uncooled with mechanical shutter
- ◆ Designed for use in border security, thermal security and vision enhancement applications.

The Dione S 1024 CAM Series is based on an uncooled microbolometer detector with a 1024x768 pixel resolution and 12  $\mu\text{m}$  pitch. The detector NETD is less than 40 mK (available upon request) or 50 mK. The maximum frame rate is 80 Hz.

Dione S 1024 CAM is a LWIR uncooled thermal imaging core with housing supporting M34/M45 lens (optional). All Dione S 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 S 1024 CAM Series

EU based supplier



## KEY PERFORMANCES

Image format/Pixel pitch	1024 x 768 pixels / 12 $\mu$ m
Integration type	Rolling shutter
Spectral range	8 - 14 $\mu$ m
Max frame rate (full frame)	80 Hz
Power consumption	2.3 W
Power supply voltage	DC 5 V

## FUNCTIONS & INTERFACES

Digital output format	16bit DV
Operating temperature range (housing temperature)	From -40 °C to +70 °C
Storage temperature	From -45 °C to +85 °C
Detector NETD	<40 mK [at 30 Hz, 300K, F/1], available upon request; <50 mK [at 30 Hz, 300K, F/1]
Shock / Vibration	40 g, 11 ms, MIL-STD810G / 5 g (20 to 2000 Hz), MIL-STD810G

## PRODUCT SELECTOR GUIDE

XEN-000798 (Dione S 1024 CAM 40 mK)	XEN-000797 (Dione S 1024 CAM 50 mK)
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[xenics.com](http://xenics.com)

**Xenics**  
Photonis Group

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