

STATE-OF-THE-ART THERMAL
IMAGING CORE



Dione 1024 CAM 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
- ◆ Designed for use in border security, thermal security and vision enhancement applications.

The Dione 1024 CAM series is based on the Dione 1024 OEM thermal imaging core 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.

Dione 1024 CAM is a LWIR uncooled thermal imaging core with housing supporting M34/M45 lens (optional). 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 add flexibility for integration programs in the target markets like safety and security, transportation and industrial process monitoring.



Dione 1024 CAM Series

EU based supplier



KEY PERFORMANCES

Image format/Pixel pitch	1024 x 768 pixels / 12 μ m
Integration type	Rolling shutter
Spectral range	8 - 14 μ m
Max frame rate (full frame)	80 Hz
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
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 or <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-000796 (Dione 1024 CAM 40 mK)	XEN-000794 (Dione 1024 CAM 50 mK)
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