

STATE-OF-THE-ART
THERMAL IMAGING CORE

EXOSSENS
REVEAL THE INVISIBLE

Dione 1024 CAM Series



STATE-OF-THE-ART THERMAL IMAGING CORE

KEY FEATURES



**STATE-OF-THE-ART MICROBOLOMETER
DETECTOR WITH 12 μm PIXEL PITCH**



FRAME RATES UP TO 80 Hz



**INDUSTRY LEADING LOW SWaP
(SIZE, WEIGHT AND POWER)**

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).

Moreover, GenCam compliance and availability of multiple lenses add flexibility for integration programs in the target markets like defense and surveillance, transportation and industrial process monitoring.

Dione 1024 CAM Series



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
Optical interface (optional)	M34x0.5 or M45x0.75

FUNCTIONS & INTERFACES

Digital output format	16bit DV
Operating temperature range	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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