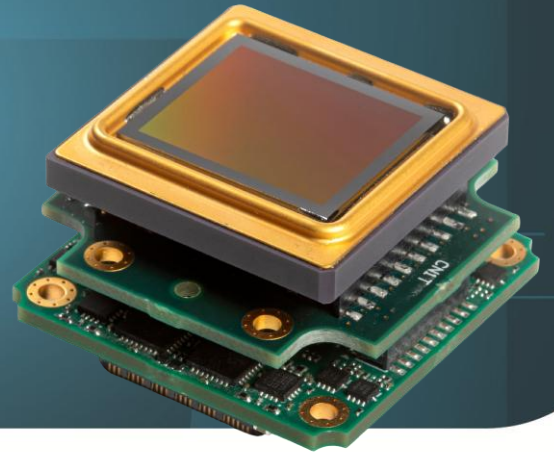


STATE-OF-THE-ART
THERMAL IMAGING CORE

EXOSSENS
REVEAL THE INVISIBLE

Dione 1024 OEM Series



STATE-OF-THE-ART THERMAL IMAGING CORE

KEY FEATURES



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



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

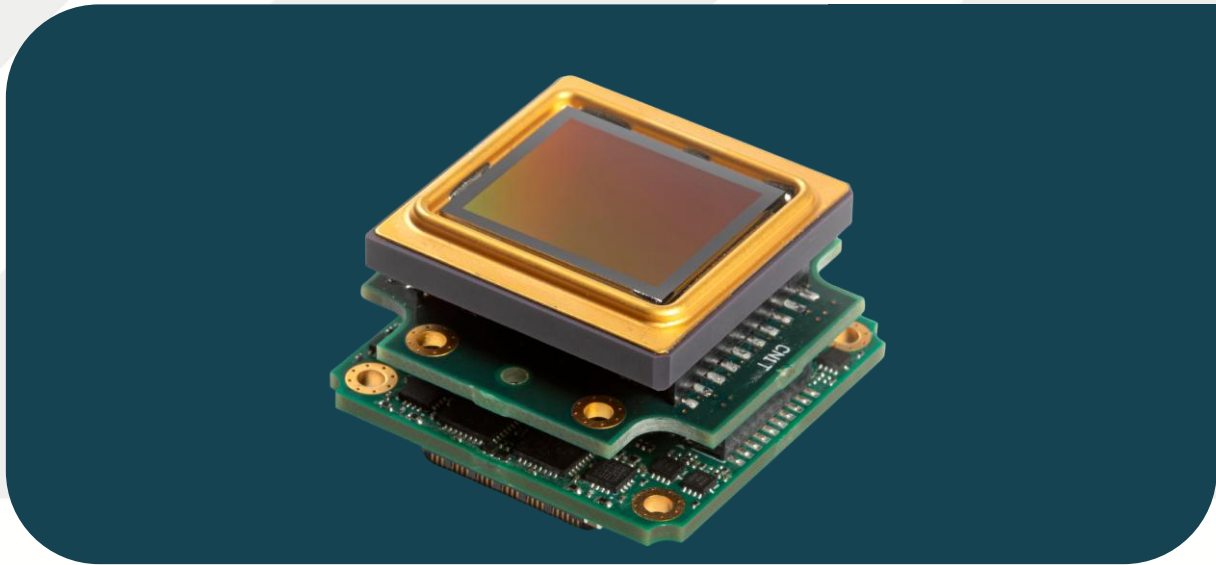


FRAME RATES UP TO 80 Hz

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.

The overall size of the OEM core is 35x35x21.5 mm³ and the weight is 25 gr. All Dione 1024 versions have the same SAMTEC ST5 connector and are GenICam compliant. The compact Dione 1024 OEM series find application in safety & security, transportation and process monitoring.

Dione 1024 OEM Series



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
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	From -40 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$
Storage temperature	From -45 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$
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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