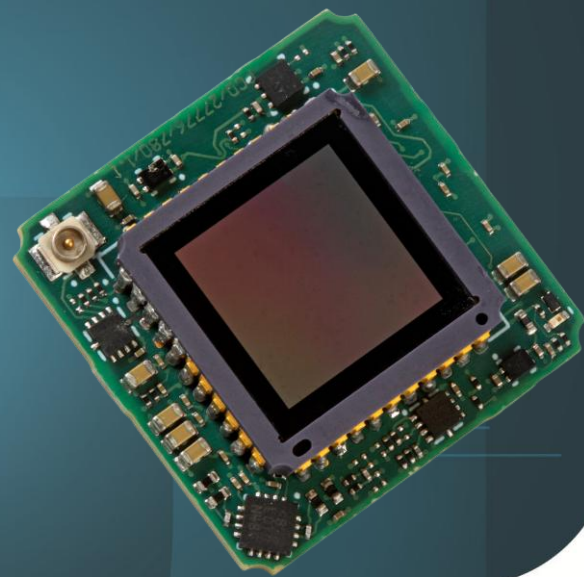


STATE-OF-THE-ART
THERMAL IMAGING CORE

EXOSSENS
REVEAL THE INVISIBLE

Dione 640 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)**

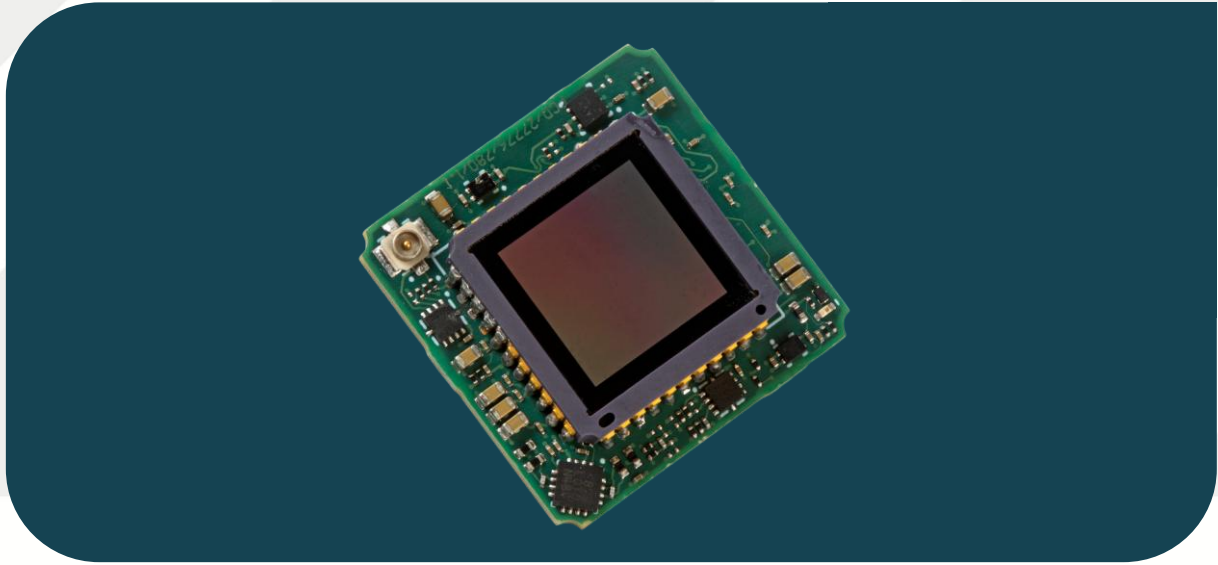


FRAME RATES UP TO 60 Hz

The Dione 640 OEM series is based on an uncooled microbolometer detector with a 640x480 pixel resolution and 12 μm pixel pitch. The Dione 640 OEM benefits from advanced image enhancement for image processing while keeping power consumption low.

All Dione 640 versions are GenICam compliant. The ultra-compact Dione 640 OEM series find application in safety and security systems, as well as in industrial thermal imaging systems.

Dione 640 OEM Series



KEY PERFORMANCES

Image format / Pixel pitch	640 x 480 pixels / 12 μ m
Integration type	Rolling shutter
Spectral range	8 - 14 μ m
Max frame rate (full frame)	60 Hz
Power consumption	0.750 W (16bit DV); < 1.1 W (MIPI CSI-2); < 1.32 W (UVC); < 1.3 W (USB)
Power supply voltage	DC 5 V

FUNCTIONS & INTERFACES

Digital output format	16bit DV, MIPI-CSI-2, UVC, USB
Operating temperature range	From -40 °C to +70 °C (16bit DV, UVC and USB); From -30 °C to +70 °C (MIPI CSI-2)
Storage temperature	From -45 °C to +85 °C (16bit DV, UVC); From -40 °C to +85 °C (USB); From -30 °C to +85 °C (MIPI CSI-2)
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-000734 (Dione 640 OEM 40 mK)	XEN-000733 (Dione 640 OEM 50 mK)
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