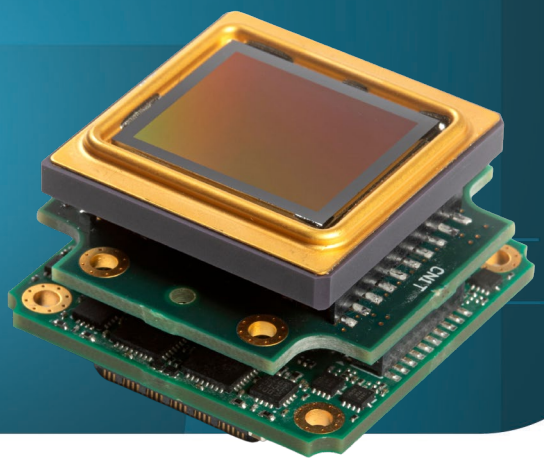
ULTRA-COMPACT, UNCOOLED
LWIR THERMAL IMAGING CORE

Xenics
EXOSENS GROUP

Dione 1280 OEM Series



STATE-OF-THE-ART THERMAL IMAGING CORE

KEY FEATURES

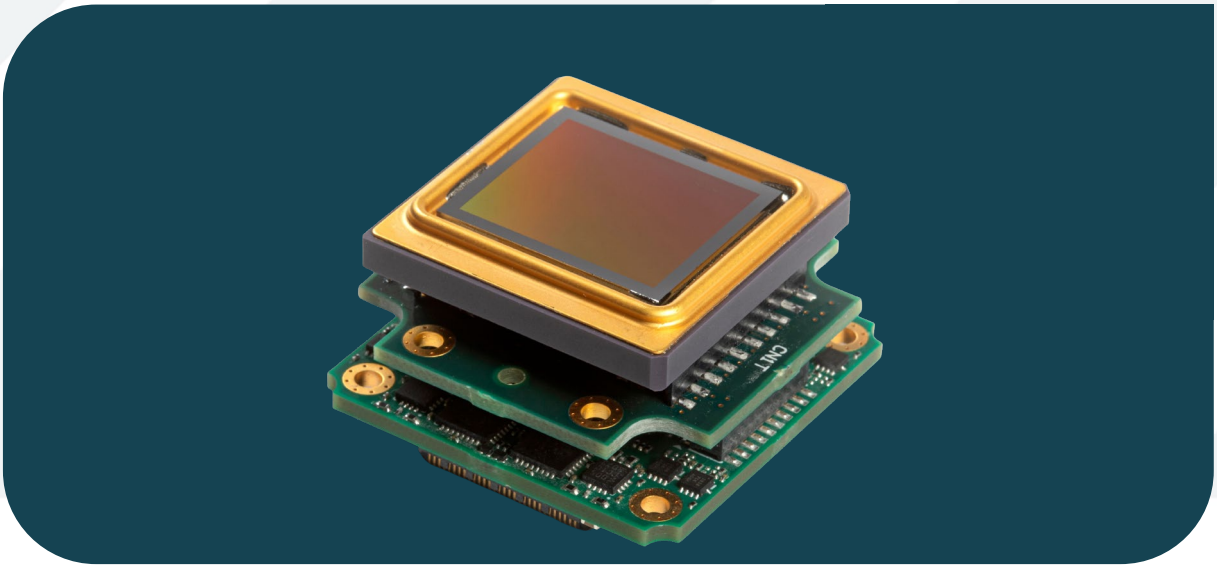
- **STATE-OF-THE-ART MICROBOLOMETER DETECTOR WITH 12 µm PIXEL PITCH**
- **INDUSTRY LEADING LOW SWaP (SIZE, WEIGHT AND POWER)**
- **FRAME RATES UP TO 60 Hz**

The Dione 1280 OEM series is based on an uncooled microbolometer detector with a 1280x1024 pixel resolution and 12 µm pixel pitch.

The Dione 1280 OEM benefits from Xenics image enhancement for advanced image processing while keeping power consumption low.

All Dione 1280 versions are GenICam compliant. The ultra-compact Dione 1280 OEM series find application in safety and security systems, as well as in industrial thermal imaging systems.

Dione 1280 OEM Series



KEY PERFORMANCES

Image format / Pixel pitch	1280 x 1024 pixels / 12 µm
Integration type	Rolling shutter
Spectral range	8 - 14 µm
Max frame rate (full frame)	60 Hz (16bit DV, MIPI CSI-2); 40 Hz (USB)
Power consumption	2.1 W (16bit DV); < 2.7 W (MIPI CSI-2, USB)
Power supply voltage	DC 5 V

FUNCTIONS & INTERFACES

Digital output format	16bit DV, MIPI CSI-2, USB
Operating temperature range	From -40°C to +70°C (16bit DV, USB); From -30°C to +70°C (MIPI CSI-2)
Storage temperature	From -40°C to +85°C (16bit DV, USB); From -30°C to +85°C (MIPI CSI-2)
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-000692 (Dione 1280 OEM 40 mK)	XEN-000691 (Dione 1280 OEM 50 mK)

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