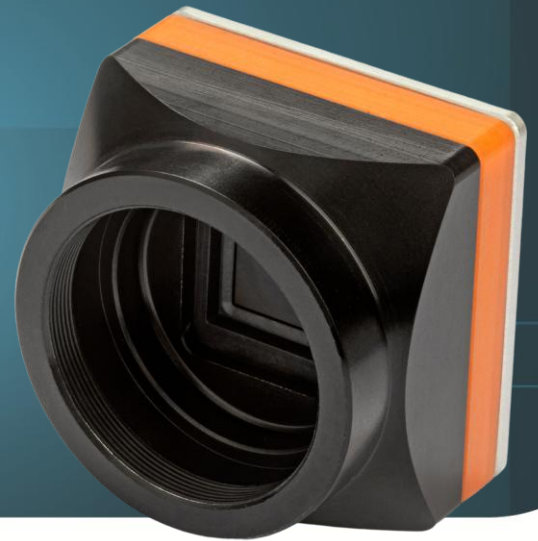


ULTRA-COMPACT, UNCOOLED
THERMAL IMAGING CORE

EXOSSENS
REVEAL THE INVISIBLE

Dione 640 CAM Series



ULTRA-COMPACT, UNCOOLED
THERMAL IMAGING CORE

KEY FEATURES



**LWIR CAMERA CORE OPTIMIZED
FOR LOW SWaP**



FRAME RATES UP TO 60 Hz



VERY LOW LATENCY

The Dione 640 CAM series is based on Dione 640 OEM thermal imaging core with 640x480 pixel resolution and 12 μm pixel pitch. The detector NETD is less than 40 mK (available upon request) or 50 mK.

Dione 640 CAM is a LWIR uncooled thermal imaging core with housing supporting M24/M34 lens (optional). It utilizes advanced image enhancement for image processing while keeping power consumption low. The ultra-compact Dione 640 CAM series find application in safety and security systems, as well as in industrial thermal imaging systems.

Dione 640 CAM 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 (60 Hz operation; 16bit DV); < 1.1 W (MIPI CSI-2); < 1.32 W (UVC); < 1.3 W (USB)
Power supply voltage	DC 5 V
Optical interface (optional)	M24 x 0.5 or M34 x 0.5

FUNCTIONS & INTERFACES

Digital output format	16bit DV, MIPI-CSI-2, UVC, USB
Operating temperature range	From -40°C to +70°C (16bit DV, UVC, 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-000697 (Dione 640 CAM 40 mK)	XEN-000696 (Dione 640 CAM 50 mK)
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