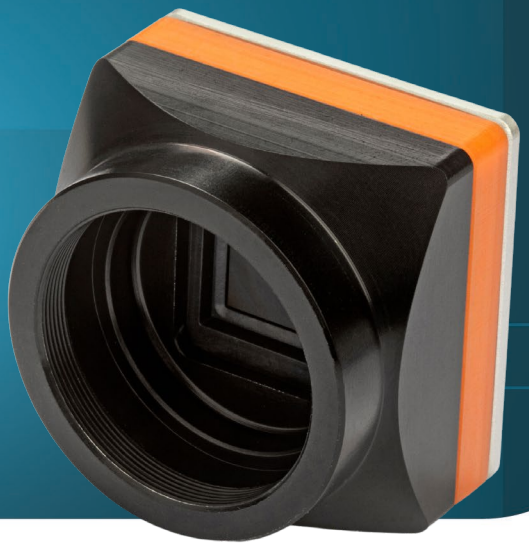
COMPACT, INDUSTRIAL
THERMAL CAMERA

Xenics
EXOSENS GROUP

Dione 320 CAM Series



UNCOOLED THERMAL IMAGING SWaP MODULE

KEY FEATURES

- **LWIR CAMERA CORE OPTIMIZED FOR LOW SWaP**
- **FRAME RATES UP TO 60 Hz**
- **VERY LOW LATENCY**

The Dione 320 CAM series is based on the Dione 320 OEM thermal imaging core with 320x240 pixels and 12 µm pixel pitch. The detector NETD is less than 40 mK (available upon request) or 50 mK. The maximum frame rate is 60 Hz. Dione 320 CAM is a LWIR uncooled thermal imaging SWaP module with housing supporting M24/M34 lens (optional).

Dione 320 CAM benefits from Xenics image enhancement for advanced image processing while keeping power consumption low. Moreover, GenICam compliance and availability of multiple lens provides high level of tunability for optimal integration into many systems.

Dione 320 CAM Series

KEY PERFORMANCES

Image format / Pixel pitch	320 x 240 pixels / 12 µm
Integration type	Rolling shutter
Spectral range	8 - 14 µm
Max frame rate (full frame)	60 Hz
Power consumption	570 mW (at 60 Hz operation; 16bit DV)
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 or MIPI-CSI-2
Operating temperature range	From -40°C to +70°C (16bit DV, MIPI-CSI-2)
Storage temperature	From -45°C to +85°C (16bit DV, 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-000792 (Dione 320 CAM 40 mK)	XEN-000790 (Dione 320 CAM 50 mK)

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