

Dione S 640 CAM 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)**

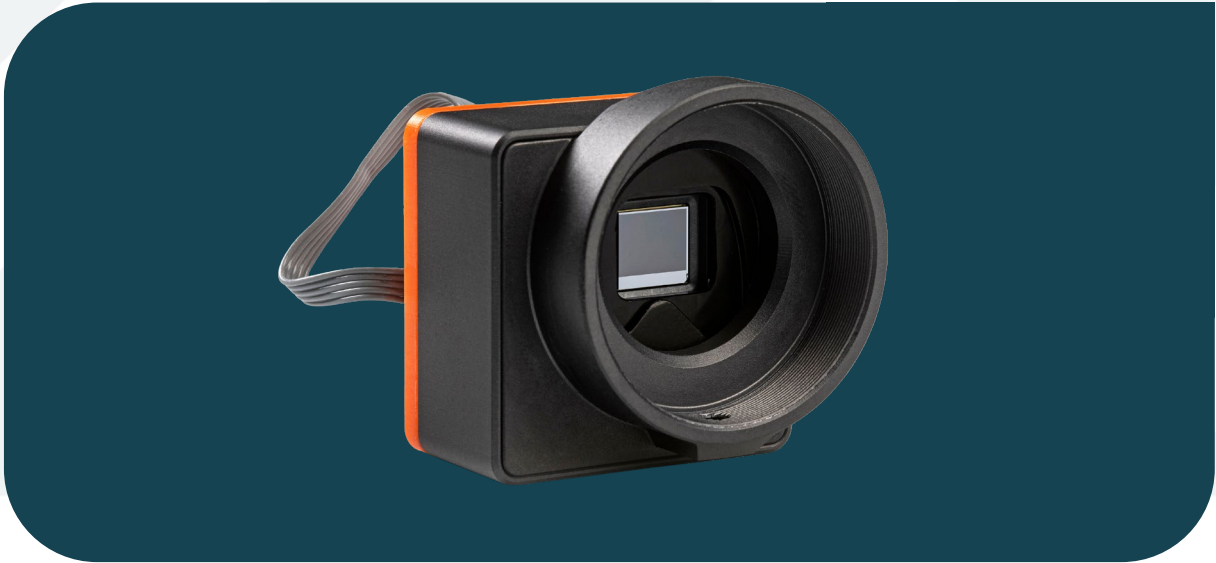


**UNCOOLED WITH MECHANICAL
SHUTTER**

The Dione S 640 CAM series is based on an uncooled microbolometer detector with a 640x480 pixel resolution and 12 μm pixel pitch. The detector NETD is less than 40 mK (available upon request) or 50 mK. Dione S 640 CAM is a LWIR uncooled thermal imaging core with housing supporting M24/M34 lens (optional).

Moreover, GenICam compliance and availability of multiple lenses adds flexibility for integration programs in the target markets like defense and surveillance, transportation and industrial process monitoring.

Dione S 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	0.800 W (16bitDV); < 1.3 W (USB); <1.0 W (MIPI CSI-2)
Power supply voltage	DC 5 V
Optical interface (optional)	M24 or M34 x 0.5

FUNCTIONS & INTERFACES

Digital output format	16bit DV, MIPI-CSI-2, USB
Operating temperature range (housing temperature)	From -40°C to +70°C (16bit DV, USB); From -30°C to +70°C (MIPI CSI-2)
Storage temperature	From -45°C to +85°C (16bit DV); 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; <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-000714 (Dione S 640 CAM 40 mK)	XEN-000713 (Dione S 640 CAM 50 mK)
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