

STATE-OF-THE-ART  
THERMAL IMAGING CORE

**EXOSSENS**  
REVEAL THE INVISIBLE

# Dione S 1024 CAM Series



STATE-OF-THE-ART THERMAL IMAGING CORE

## KEY FEATURES



**STATE-OF-THE-ART MICROBOLOMETER  
DETECTOR WITH 12  $\mu\text{m}$  PIXEL PITCH**



**INDUSTRY LEADING LOW SWaP  
(SIZE, WEIGHT AND POWER)**



**UNCOOLED WITH MECHANICAL  
SHUTTER**

The Dione S 1024 CAM Series is based on an uncooled microbolometer detector with a 1024x768 pixel resolution and 12  $\mu\text{m}$  pitch. The detector NETD is less than 40 mK (available upon request) or 50 mK. The maximum frame rate is 80 Hz. Dione S 1024 CAM is a LWIR uncooled thermal imaging core with housing supporting M34/M45 lens (optional).

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

# Dione S 1024 CAM Series



## KEY PERFORMANCES

Image format / Pixel pitch	1024 x 768 pixels / 12 $\mu$ m
Integration type	Rolling shutter
Spectral range	8 - 14 $\mu$ m
Max frame rate (full frame)	80 Hz
Power consumption	2.3 W
Power supply voltage	DC 5 V
Optical interface (optional)	M34x0.5 or M45x0.75

## FUNCTIONS & INTERFACES

Digital output format	16bit DV
Operating temperature range (housing temperature)	From -40 °C to +70 °C
Storage temperature	From -45 °C to +85 °C
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-000798 (Dione S 1024 CAM 40 mK)	XEN-000797 (Dione S 1024 CAM 50 mK)
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[advancedimaging@exosens.com](mailto:advancedimaging@exosens.com)



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