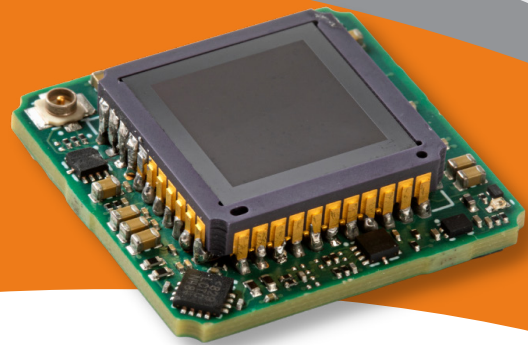


## DIONE 320 OEM SERIES

- Uncooled thermal imaging SWaP module
- 320x240 pixels
- 12  $\mu\text{m}$  pitch



### COMPACT, INDUSTRIAL THERMAL CAMERA

The Dione 320 OEM series is based on a state-of-the-art detector with a 320x240 pixels and 12  $\mu\text{m}$  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 OEM versions benefit from Xenics image enhancement for advanced image processing while keeping power consumption low. Moreover, GenICam compliance and availability of multiple lenses adds flexibility for integration programs in the target markets such as industrial machine vision, medical, scientific and advanced research, safety and security applications.

### DESIGNED FOR USE IN

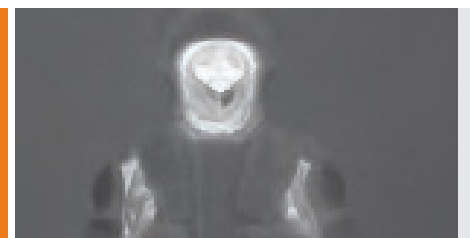
- Industrial Machine Vision
- Medical
- Scientific & Advanced Research
- Safety & Security

### ADVANTAGES

- State-of-the art detector with 12  $\mu\text{m}$  pitch
- Industry leading SWaP (Size, Weight and Power)
- GenICam compliant for easy integration
- Shutterless operation
- Part of the highly flexible and interchangeable Dione family series
- Detector NETD is less than 40 mK (available upon request) or 50 mK



Border Security



Thermal Security



Vision Enhancement

## SPECIFICATIONS

Camera Specifications	DIONE 320 OEM 40 mK	Dione 320 OEM 50 mK
<b>Mechanical specifications</b>		
Camera dimensions (width x height x length) [mm] (approx.)	25 x 25 x 10	
Optical interface	-	
Camera weight [gr]	6	
Connector general I/O	SAMTEC ST5-30-1.50-L-D-P-TR	
<b>Environmental &amp; power specifications</b>		
Operating temperature range (housing temperature) [°C]	From -40 to +70	
Storage temperature [°C]	From -45 to +85	
Power consumption [W]	570 mWatt (at 60 Hz operation)	
Power supply voltage	DC 5 V	
Shock	40 g, 11 ms, MIL-STD810G	
Vibration	5 g (20 to 2000 Hz), MIL-STD810G	
Regulatory compliance	RoHS	
<b>Electro-optical specifications</b>		
Image format [pixels]	320x240	
Pixel pitch [µm]	12	
Integration type	Rolling shutter	
Active area and diagonal [mm]	3.84 x 2.88 (diagonal 4.8)	
Detector NETD [Noise Equivalent Temperature Difference] [mK]	<40 (at 60 Hz, 300K, F/1) available upon request	<50 (at 60Hz, 300K, F/1)
Spectral range [µm]	8-14	
Pixel operability	>99.8%	
Max frame rate [Hz] [full frame]	60	
Integration time range [µs]	20 - 65 recommended (1 - 100 is possible)	
Region of interest	Yes	
Min region size [pixels]	80 x 80	
Analog-to-Digital [ADC] [bits]	14	
Command and control	via SAMTEC ST5 connector	
Digital output format	16bit DV (standard), MIPI CSI-2 (optional)	
Trigger	via SAMTEC ST5 connector	
<b>Product selector guide</b>		
Part number	XEN-000791	XEN-000789

XDS-035-02 | Information furnished by Xenics is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications are typical values and subject to change without notice. This information supersedes all previously supplied information.

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