UNCOOLED XGA THERMAL CORE

Xenics
EXOSENS GROUP

SmartIR 1024

ULTRA-SENSITIVE THERMAL CORE

KEY FEATURES

PLUG AND PLAY THERMAL CAMERA CORE

LOW POWER CONSUMPTION

COMPACT FOR A LARGE CHOICE OF APPLICATIONS

A SWaP-optimized, ultra-sensitive thermal imaging core with XGA resolution, ideal for demanding LWIR applications.

Designed for seamless integration, it delivers exceptional DRI performance for defense, UAVs, and PTZ systems, as well as high-speed inspection (machine vision) and active thermography (NDT). Compact, versatile, and perfect for mission-critical thermal imaging needs.

For more information please contact:

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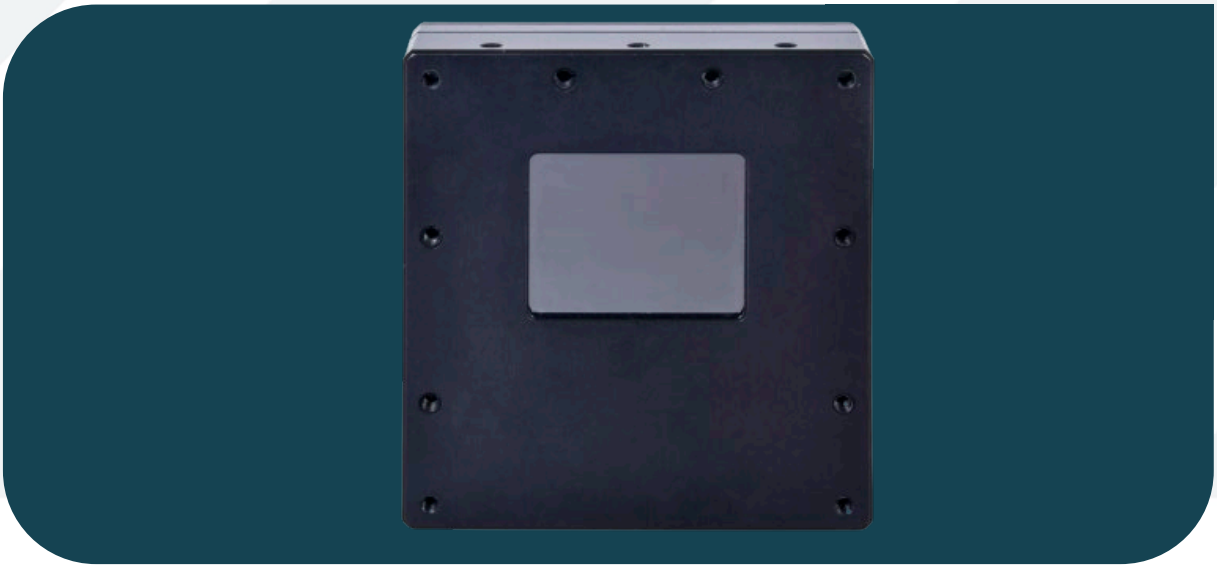
SmartIR 1024



KEY PERFORMANCES

Sensor	Micro-bolometer technology
Resolution / Pixel Pitch	1024 x 768 pixels / 17 µm
Spectral Range	8 – 14 µm
Max NETD (F/1 ; 300K ; 30 Hz)	50 mK
Operating temperature range	-40°C to +70°C
Power consumption (DF40)	< 2.5 W
Qualification	Industrial (Standard grade)

FUNCTIONS & INTERFACES

Image processing	BPC (Bad Pixel Correction), NUC (Non-Uniformity Correction), Shutterless NUC
Image optimisation	AGC (Automatic Gain Control)
Output options	CL, SDI, DF40
Dimensions (L x W x H) (DF40)	52 x 48 x 25 mm^3
Weight (DF40)	< 90 g

PRODUCT SELECTOR GUIDE

XEN-000941	SmartIR1M0 50 mK (60Hz)

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REVEAL THE INVISIBLE

UNCOOLED VGA THERMAL CORE

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SmartIR 640

ULTRA-SENSITIVE THERMAL CORE

KEY FEATURES

- **PLUG AND PLAY THERMAL CAMERA CORE**
- **LOW POWER CONSUMPTION**
- **COMPACT FOR A LARGE CHOICE OF APPLICATIONS**

A SWaP optimized camera core with numerous generic variants suitable for integration.

The ideal candidate for highly demanding long-wave infrared (LWIR) applications such as: high DRI performance systems (defense, SAR, UAVs, PTZ), high-speed inspection systems (machine vision) or active thermography (Non-Destructive Testing).

SmartIR 640

KEY PERFORMANCES

Sensor	Micro-bolometer technology
Resolution / Pixel Pitch	640 x 480 pixels / 17 µm
Spectral Range	8 – 14 µm
Max NETD (F/1 ; 300K ; 30 Hz)	< 40 mK or < 30 mK
Operating temperature range	-40°C to +70°C
Power consumption (DF40)	< 1.3 W
Qualification	Industrial (Standard grade)

FUNCTIONS & INTERFACES

Image processing	BPC (Bad Pixel Correction), NUC (Non-Uniformity Correction), Shutterless NUC
Image optimisation	AGC (Automatic Gain Control)
Output options	CL, SDI, Analog, DF40, MIPI CSI-2
Additional option	On DF40: Handheld/manual control interface + micro display interface
Dimensions (L x W x H) (DF40)	30 x 30 x 23 mm^3
Weight (DF40)	< 38 g

PRODUCT SELECTOR GUIDE

XEN-000927 (SmartIR 640 40 mK, 9 Hz)	XEN-000928 (SmartIR 640 40 mK, 60 Hz)
XEN-000929 (SmartIR 640 30 mK, 9 Hz)	XEN-000930 (SmartIR 640 30 mK, 60 Hz)

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