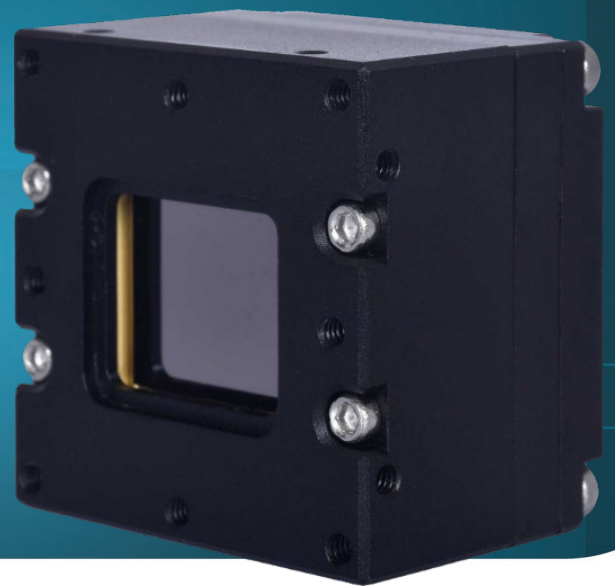


UNCOOLED VGA THERMAL CORE

Xenics
EXOSENS GROUP

SmartIR 640



ULTRA-SENSITIVE THERMAL CORE

KEY FEATURES



**PLUG AND PLAY THERMAL
CAMERA CORE**



LOW POWER CONSUMPTION

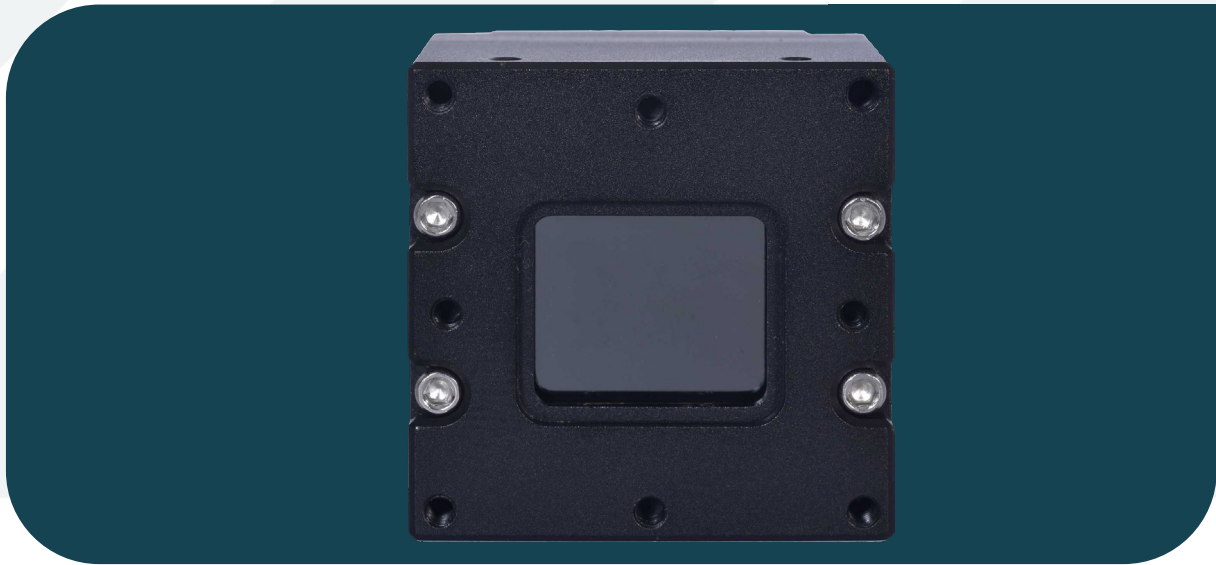


**COMPACT FOR A LARGE
CHOICE OF APPLICATIONS**

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 μ m
Spectral Range	8 – 14 μ m
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)

advancedimaging@exosens.com



exosens.com

EXOSENS
REVEAL THE INVISIBLE

SmartIR 1024



ULTRA-SENSITIVE THERMAL CORE

KEY FEATURES



**PLUG AND PLAY THERMAL
CAMERA CORE**



LOW POWER CONSUMPTION

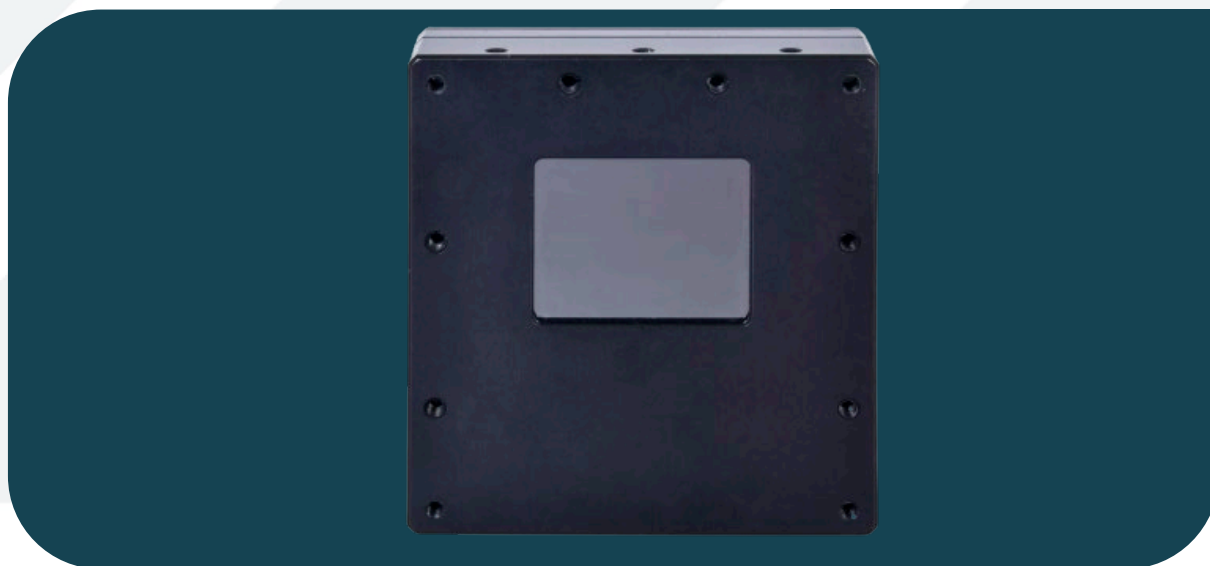


**COMPACT FOR A LARGE
CHOICE OF APPLICATIONS**

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SmartIR 1024



KEY PERFORMANCES

Sensor	Micro-bolometer technology
Resolution / Pixel Pitch	1024 x 768 pixels / 17 μ m
Spectral Range	8 – 14 μ m
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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