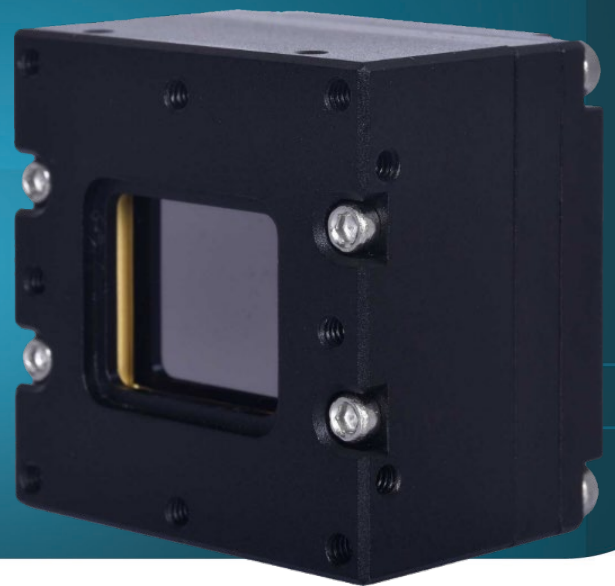


UNCOOLED VGA THERMAL CORE

**Xenics**  
EXOSENS GROUP

# SmartIR 640



*ULTRA-SENSITIVE THERMAL CORE*

## KEY FEATURES



**PLUG AND PLAY THERMAL  
CAMERA CORE**



**LOW POWER CONSUMPTION**

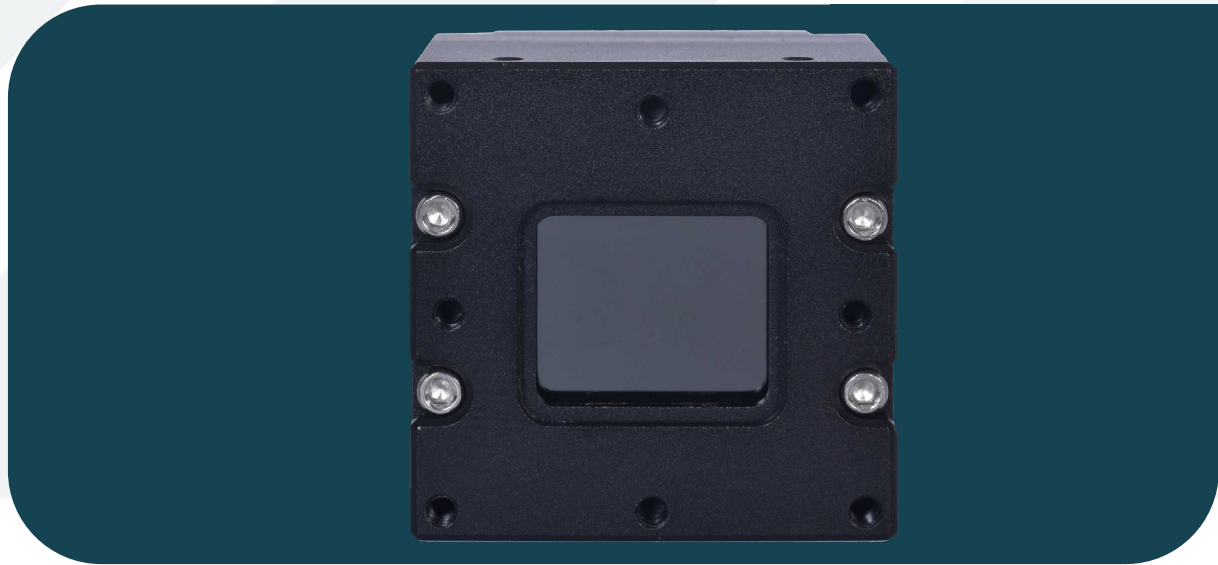


**COMPACT FOR A LARGE  
CHOICE OF APPLICATIONS**

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 $\mu$ m
Spectral Range	8 – 14 $\mu$ 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 <sup>3</sup>
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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