

UNCOOLED VGA THERMAL CORE

EXOSSENS
REVEAL THE INVISIBLE

SmartIR 1024



ULTRA-SENSITIVE THERMAL CORE

KEY FEATURES



**PLUG AND PLAY THERMAL
CAMERA CORE**



LOW POWER CONSUMPTION



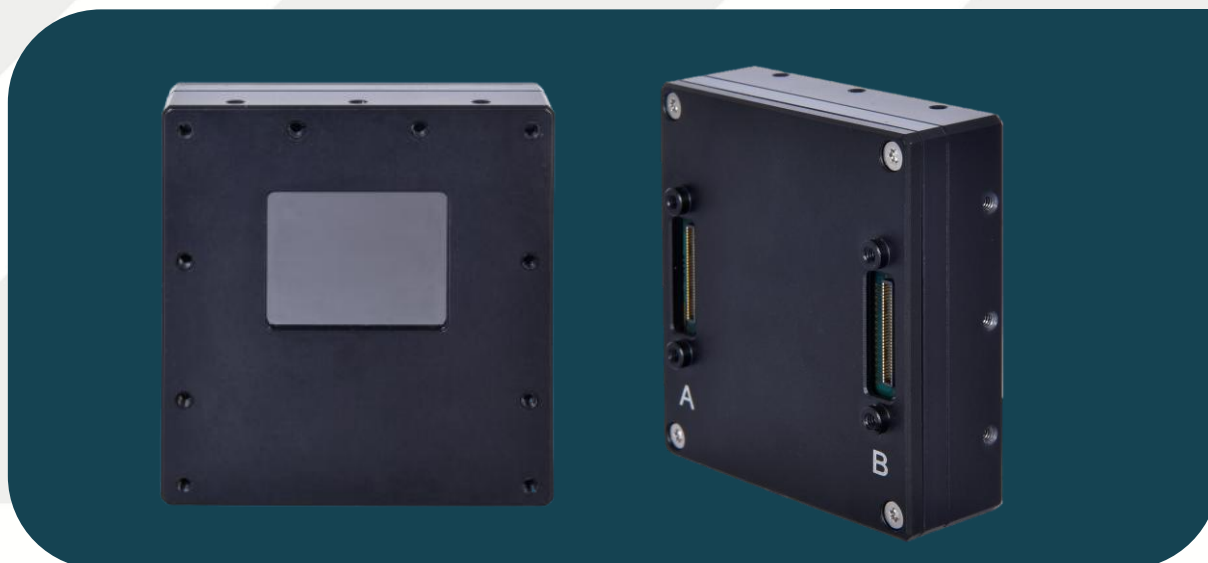
**COMPACT FOR A LARGE
CHOICE OF APPLICATIONS**

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.



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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