UNCOOLED XGA THERMAL CORE



SmartlR 1024



KEY FEATURES



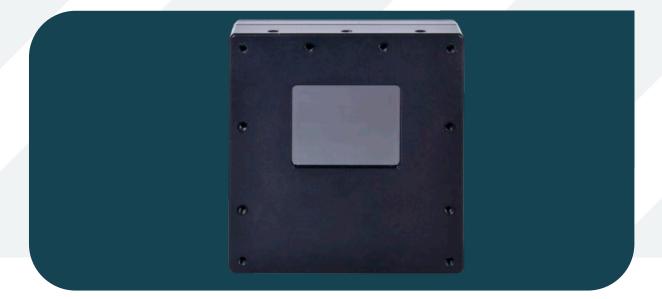
PLUG AND PLAY THERMAL CAMERA CORE

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 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)

advancedimaging@exosens.com



in 🗙 f 🔚 exosens.com



© Xenics. The information furnished is believed to be accurate and reliable but is not guaranteed and is subject to change without notice. No liability is assumed by Xenics nor by any Exosens Group companies. Performance data represents typical characteristics as individual product performance may vary. Customers should verify that they have the most current Xenics product information before placing orders. Texts and pictures may not be considered as contractually binding. This document may not be reproduced, in whole or in part, without the prior written consent of Xenics.