HIGH-RESOLUTION UNCOOLED
THERMAL CORE

Xenics
EXOSENS GROUP

Crius XP 1280 Series (NEW)

EXTREME PERFORMANCE WITH SXGA THERMAL IMAGING CORE

KEY FEATURES

- **ADVANCED SHUTTERLESS IMAGING WITH EMBEDDED CORRECTION**
- **CONTOUR ENHANCEMENT: SHARPER DRI AND SUPERIOR OBJECT CLARITY**
- **COLUMN AND TEMPORAL DENOISING: NETD halved from 40 mK to 20 mK**
- **CONTRAST SHARPNESS CORE FOR AUTOFOCUS MANAGMENT**

The Crius XP (Extreme Performance) 1280 delivers sharp thermal imagery with 1280x1024 resolution, 12 µm pixel pitch, and <20 mK NETD. Featuring shutterless operation, fast startup (-0.7s), and enhanced thermal stability, it ensures clear target visibility in demanding conditions.

Contour enhancement improves DRI and object perception, while its compact SWaP design and flexible interfaces enable easy integration into mission-critical defense systems.

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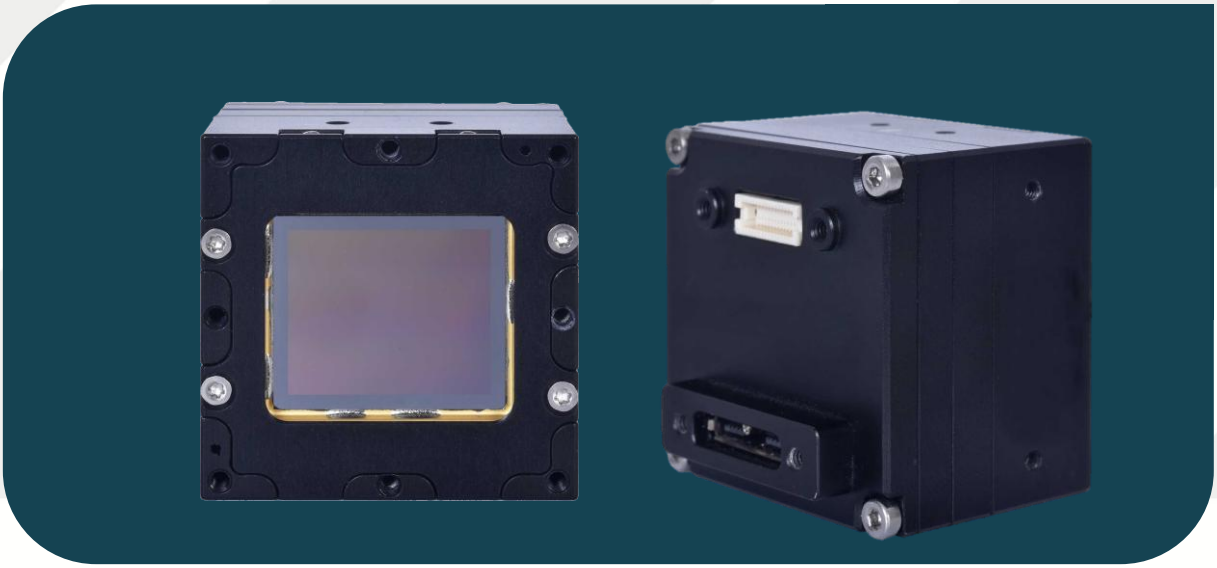

KEY PERFORMANCES

Sensor	Micro-bolometer technology
Resolution / Pixel Pitch	1280 x 1024 pixels / 12 µm
Spectral Range	8 – 14 µm
Max NETD (F/1 ; 300K ; 30 Hz)	< 20 mK with denoising
Operating temperature range	-40°C to +70°C
Power consumption (DF40)	< 2.8 W
Qualification	MIL-STD-810G – Method 514 Vibration: 10Hz - 2kHz 13.95g per axis 10h per axis

FUNCTIONS & INTERFACES

Image processing	BPC (Bad Pixel Correction), NUC (Non-Uniformity Correction), AGC (Automatic Gain Control)
Image optimisation	AGC (Automatic Gain Control)
Output options	CL, SDI, DF40, MIPI CSI-2
Dimensions (L x B x H) (DF40)	35 x 35 x 27 mm^3
Weight (DF40)	< 90 gr

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