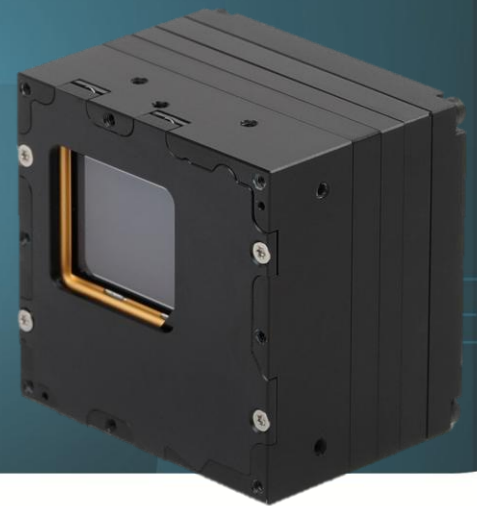


HIGH-RESOLUTION UNCOOLED
THERMAL CORE

EXOSSENS
REVEAL THE INVISIBLE

Crius XP S 1280 Series



*EXTREME PERFORMANCE SXGA
SHUTTERED THERMAL CORE*

KEY FEATURES



UNCOOLED WITH MECHANICAL SHUTTER



CONTOUR ENHANCEMENT: SHARPER DRI AND SUPERIOR OBJECT CLARITY



COLUMN AND TEMPORAL DENOISING: NETD halved from 40 mK to 20 mK

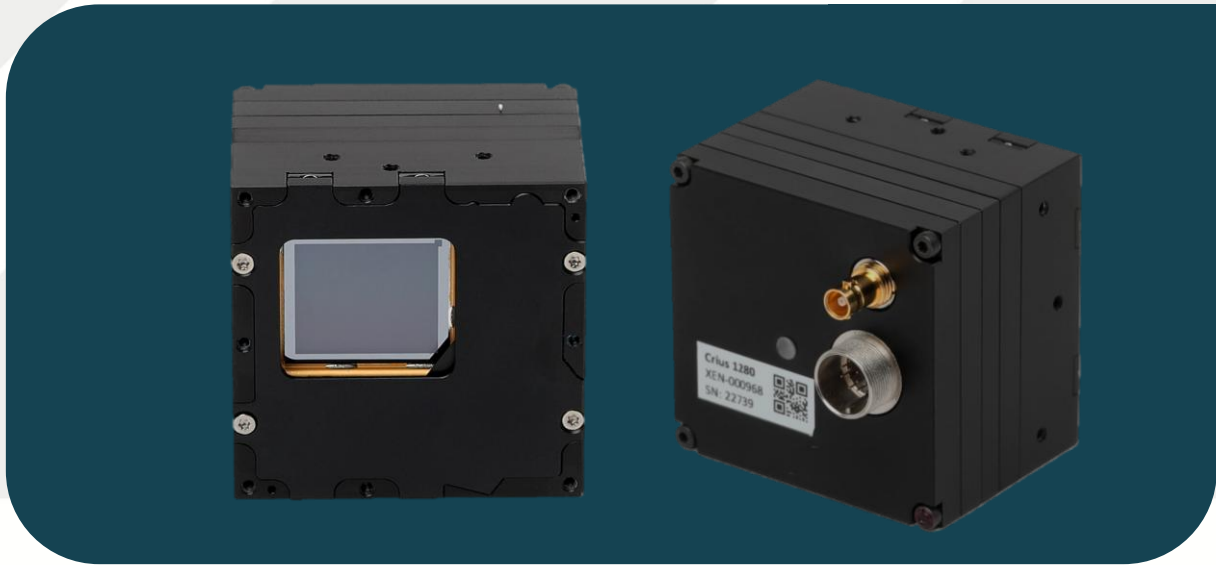


CONTRAST SHARPNESS CORE FOR AUTOFOCUS MANAGEMENT

The Crius XP (Extreme Performance) S 1280 is a high-performance LWIR thermal imaging core featuring 1280×1024 resolution, 12 μm pixel pitch, and a NETD below 20 mK. With a mechanical shutter and advanced contour enhancement, it delivers superior image clarity and enhanced DRI capabilities.

Its compact, low-SWaP design and flexible interfaces make it ideal for integration into mission-critical systems, including search and rescue, border surveillance, and infrastructure protection.

Crius XP S 1280 Series



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 (DF40); < 4.5 W (SDI); < 3.0 W (MIPI CSI-2)
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	DF40, SDI, MIPI CSI-2
Dimensions (L x B x H)	46 x 47 x 27 mm ³ (DF40); 46 x 47 x 43 mm ³ (SDI); 46 x 47 x 31 mm ³ (MIPI CSI-2)
Shutter options	DF40, SDI, MIPI CSI-2
Weight	<130 gr (DF40); <126 gr (SDI); <105 gr (MIPI CSI-2)

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