

PHOTONIS
Digital Vision

Nocturn XS

Extreme Low Light CMOS



Low Light CMOS Technology

**Camera core for OEM
integration for day and night
video capture**

The Nocturn XS provides system integrators with award-winning low light CMOS sensors and processing electronics specifically designed to minimize read noise.

The Nocturn XS comes equipped with everything you need to design your own hand-held, portable or fixed low light video solution for surveillance, security or covert operations.

The Nocturn XS will enable you to be the first to see beyond the limits of the human eye.

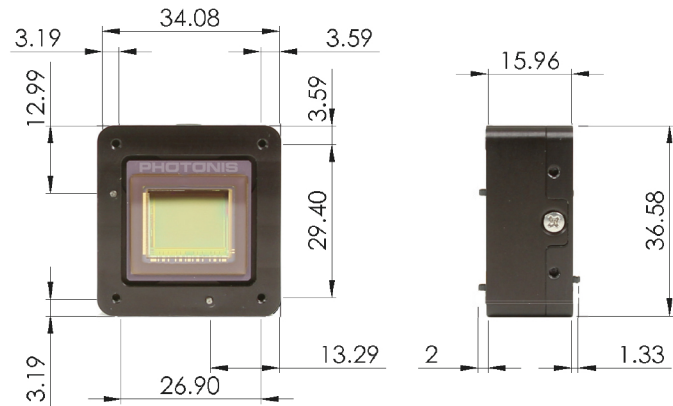


SMARTER IMAGING FOR BETTER LIVES

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The Nocturn XS is a camera core optimized to provide high resolution images in both day time and low light conditions. Ideal for OEM system integrators, the Nocturn XS can be engineered into a wide range of applications, from hand-held and portable, to permanently installed static solutions.



Sensor Specifications		
	Monochrome	Color
Sensor Technology	Extreme Low Light CMOS	
Sensor Imaging Format	1280 x 1024	
Sensor Pixel Pitch	9.7 μm x 9.7 μm	
Sensor Shutter Mode	Rolling	
Spectral Range	350-1100 nm	350-1100 nm*
Frame Rate	100 Hz (maximum)	60 Hz (maximum)
Sensitivity	Full daylight through bright starlight conditions	
Imaging Enhancements		
Non-Uniformity Correction	Factory calibrated	
Image Processing	Noise removal, sharpening, contrast enhancement	
Gain and Exposure Controls	Fully automatic or manual	
Digital Zoom	Up to 8X	
Camera and Environmental Specifications		
Optical Format	1 inch	
Video Output Interface	LVCMOS parallel video	
Video Output Format	8/10b monochrome	24b YCbCr (4:2:2) color 24b YUV (4:2:2) color 8/10b monochrome
Synchronization	LVCMOS logic level frame start trigger, genlock and frame output strobe reference	
Communications	LVCMOS logic level serial interface	
Power Input	+4 to +5 VDC	
Power Dissipation	<1.5 W (Typical)	<1.8 W (Typical)
Size	<35 mm x 37 mm x 18 mm	
Weight	<45 g	
Operating Temperature	-40° C to +70° C	
Storage Temperature	-50° C to +80° C	



High Sensitivity Day/Night



Low Power Consumption



Award Winning Low Light Technology



Optimized for SWaP

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* An IR cut filter is required for color images, which will limit the spectral response range to 350-650 nm. The IR cut filter can be ordered as an option at the time of purchase.

www.photonis.com

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