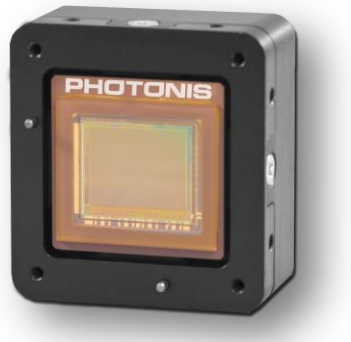
DATASHEET

NOCTURN XS

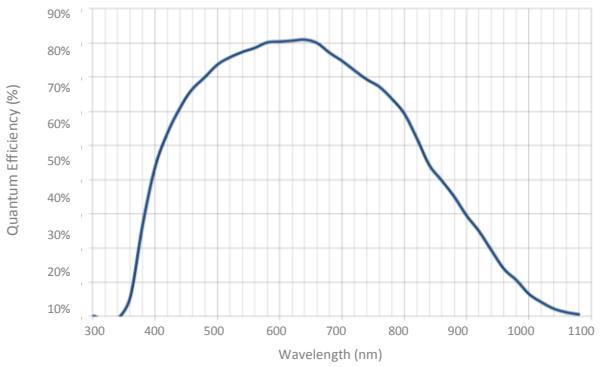


Features

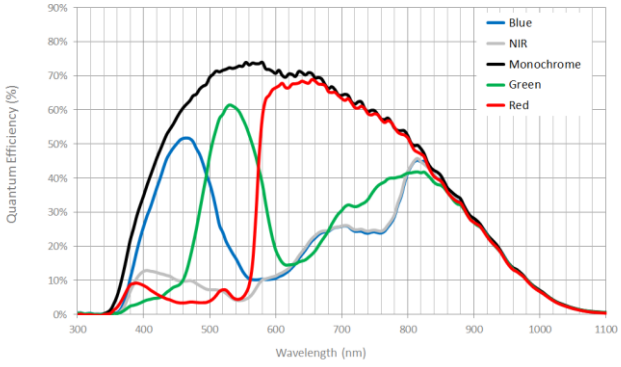
- Color or Monochrome
- Ideal for 24/7 operations
- Less than 4e-read-out noise
- 860 nm and 1064 nm laser line detection
- 1.3 Mpx up to 100 fps
- Digital zoom up to 8x

Camera	Specifications
Resolution	1280 x 1024 Pixels
Pixel Pitch	9.7 µm x 9.7 µm
Well Capacity	> 25000 e-
Dynamic Range	> 60 dB
Read Noise	< 4e- median at 60 Hz
Frame Rate	50, 60, or 100 Hz with full field resolution (user selectable)
Image Lag	< 0.1%
Shutter Mode	Rolling
Features	
Imaging Start Up Time	< 5 sec
Image Correction	Bad pixel replacement and 2 points non-uniformity correction (NUC)
Gain Control	Automatic gain and exposure control or manual
Synchronization	Frame start trigger (2 to 12 V) - Analog output strobe reference (2 to 12 V)
Windowing	Full field of view down to 1/2 vertical resolution
On-Screen Display	Full on-screen display capability with text, standard geometrical shapes and graphics
Digital Zoom	Up to 8X (0.001 increment resolution)
Contrast Enhancement	Histogram stretching, equalization and adaptive equalization
Snapshots	On-board capture of *, JPG (8b) or *, PGM (8/10b)
Housing	
Dimensions (excluding connectors) (Width x Height x Depth)	34.1 mm x 36.6 mm x 17.3 mm
Weight	< 45g
Quantum Efficiency	

Monochrome



Color



Contact us at
digitalvision@photonis.com

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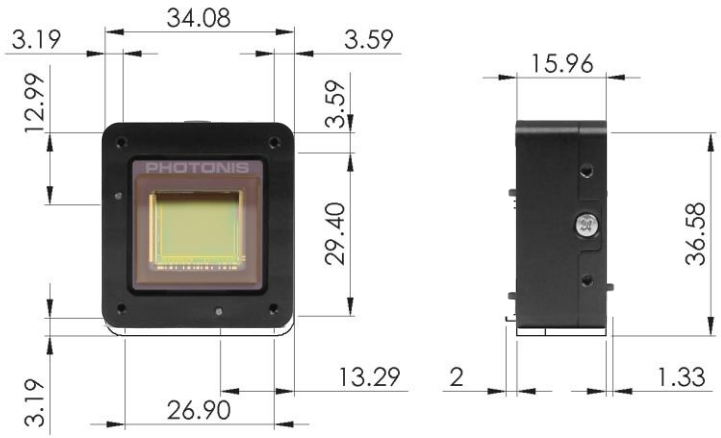
Input/Output	
Digital Video Output	CameraLink® Compatible or parallel LVCMOS
Communications	Logic Level serial port
Synchronization	LVTTL output
Environmental and Power	
Operating Temperature	-40°C to +60°C
Storage Temperature	-50°C to +80°C
Input Voltage	2.25 to +5.5 VDC
Power (typical)	< 1.5 W

Mechanical Dimensions for XS Camera Body (in mm)



NOCTURN XS Camera is powered by the LYNX CMOS or KAMELEON Color imaging sensor, optimized for low light level imaging.

These fully solid-state CMOS sensors provide excellent imaging across varying light conditions, from daylight to low-light levels such as those found during a quarter moon.
Both LYNX and KAMELEON CMOS imaging sensors provide full SXGA resolution at 60 frames per second, with < 4e- read out noise and without cooling.

LYNX KAMELEON

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