



NOCTURN XL

SPECIFICATIONS

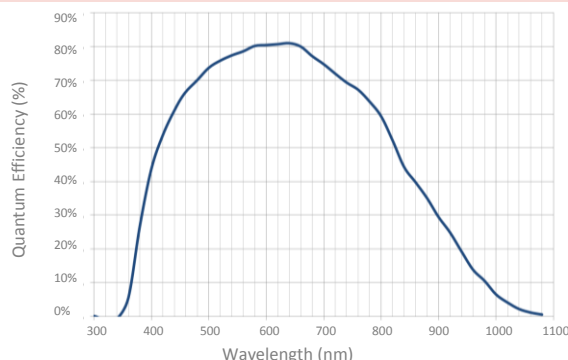


Features

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

Camera	Specifications
Sensor Resolution	1280 x 1027 Pixels
Sensor Pixel Pitch	9.7 μm x 9.7 μm
Sensor Well Capacity	> 25000 e-
Sensor Dynamic Range	> 60 dB
Sensor Read Noise	< 4e- median at 60 Hz
Sensor Quantum Efficiency	> 80% at 650 nm
Frame Rate	50, 60, or 100 Hz with full field resolution (user selectable)
Sensor Image Lag	< 0.1%
Sensor 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
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	Contrast stretching, equalization and adaptive equalization
Snapshots	On-board capture of *, JPG or *, PGM (8/10b)
Housing	
Lens Mount	CS-mount
Dimensions (excluding connectors) (Width x Height x Depth)	34.1 mm x 36.6 mm x 37.4 mm
Sensor Well Capacity	< 85g

Quantum Efficiency Curve shows > 80% at peak with microlenses



PHOTONIS DIGITAL IMAGING, LLC.
1000 New Holland Avenue, Lancaster, PA 17601-5688, USA,
T: 1800 366 2875 (toll-free US/Canada) T: +1 717 295 2704
E: digitalvision@photonis.com W: www.photonisusa.com

PHOTONIS Fance SAS,
Avenue Roger Roncier
19106 Brive, France
T: +33 (0)555 86 37 00

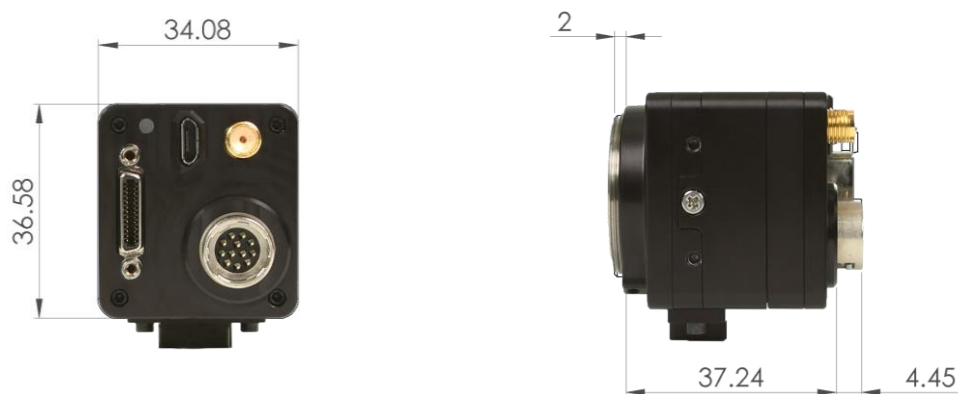
PHOTONIS Netherlands BV
Dwaziewegen 2
9301 ZR Roden, The Netherlands
T: +31 (0)505 01 88 08

PHOTONIS
Digital Vision

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 PHOTONIS for its use. Performance data represents typical characteristics as individual product performance may vary. Customers should verify that they have the most current PHOTONIS product information before placing orders. No claims or warranties are made as to the application of PHOTONIS products. 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 PHOTONIS.



Input/Output	
Digital Video Output	10/8 bit CameraLink® Compatible
Analog Video Output	NTSC/PAL (user selectable)
Communications	Serial via CameraLink® Compatible or USB
Synchronization	Frame start trigger (2 to 12 V) Analog output strobe reference (2 to 12V)
Environmental and Power	
Operating Temperature	-40° C to +60° C
Storage Temperature	-50° C to +80° C
Input Voltage	USB powered or external +5 to +15 VDC
Power (typical)	60/50 Hz mode: < 1.8 W; 100 Hz mode: <2.25 W

Mechanical Dimensions for XL Camera Body (in mm)

NOCTURN XL Camera is powered by the LYNX CMOS imaging sensor, optimized for low light level imaging.

The LYNX CMOS imaging sensor is the first operational sensor specifically designed with Night Vision, Homeland Security and Surveillance applications in mind.

This fully solid-state CMOS sensor provides excellent imaging across varying light conditions, from daylight to low-light levels such as those found during a quarter moon.

The LYNX CMOS imaging sensor provides full SXGA resolution at 100 frames per second, with < 4e- read out noise and without cooling.



LYNX