

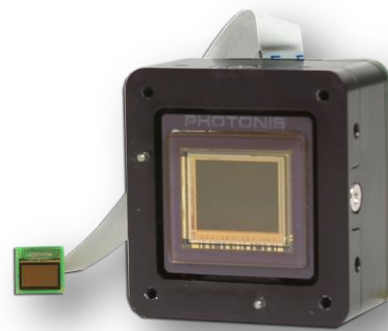


NOCTURN MD

SPECIFICATIONS

Features

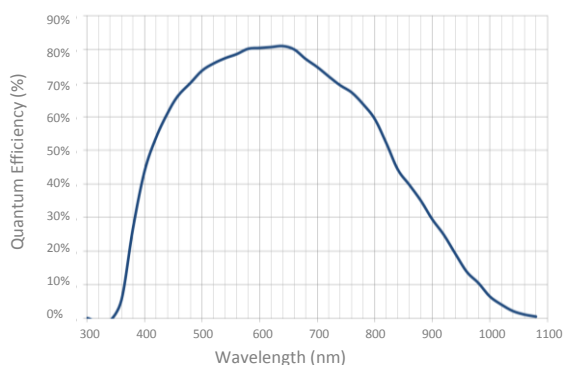
- Ideal for 24/7 operations
- Less than 4e-read-out noise
- 860 nm and 1064 nm laser line detection
- 1.3 Mpx
- 100 fps
- Digital zoom up to 8x



Camera	Specifications
Sense 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
Sensor Frame Rate	Adjustable up to 60 Hz
Sensor Image Lag	< 0.1%
Sensor Shutter Mode	Rolling
Display	
Display Type	High resolution monochrome (black/white) OLED microdisplay
Display Resolution Modes	1746 x 1000 or 1280 x 1000 Pixels
Display Pixel Pitch	5 μm x 5 μm
Display Maximum Luminance	250 cd/m ² , 75 fL
Display Frame Rate	60 Hz

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
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

Quantum Efficiency Curve shows > 80% at peak with microlenses



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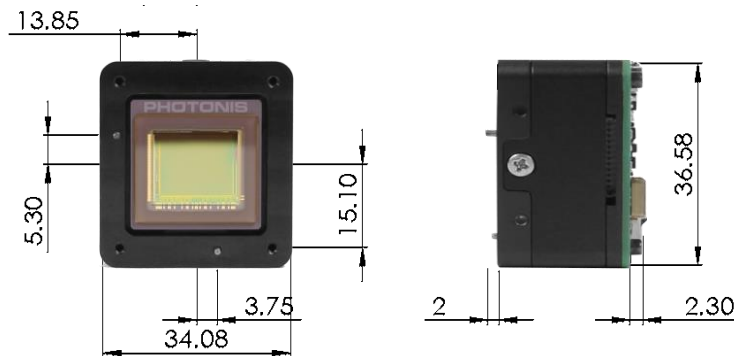
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PHOTONIS
Digital Vision

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Housing	
Dimensions (excluding connectors) (Width x Height x Depth)	34.1 mm x 36.6 mm x 25 mm
Weight	< 50 g
Display Connection	Commercial flex cable
Input/Output	
Analog Video Output	User-selectable NTSC/PAL
External Communications	Industry-standard USB 2.0 Full Speed USB 2.0 Mass Storage for SD Card Support
User Interface	Logic level RS-232 serial port
Snapshots	On-board capture of *,JPG or *, PGM (8/10b)
Environmental and Power	
Operating Temperature	-40° C to +60°C
Storage Temperature	-50° C to +80° C
Input Voltage	USB powered or external +2.6 to +12 VDC
Power (typical)	1.8 W

Mechanical Dimensions for MD Camera Body (in mm)

NOCTURN MD 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