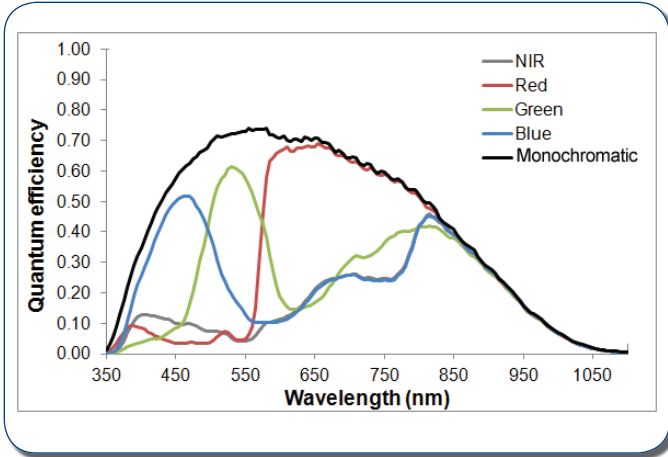
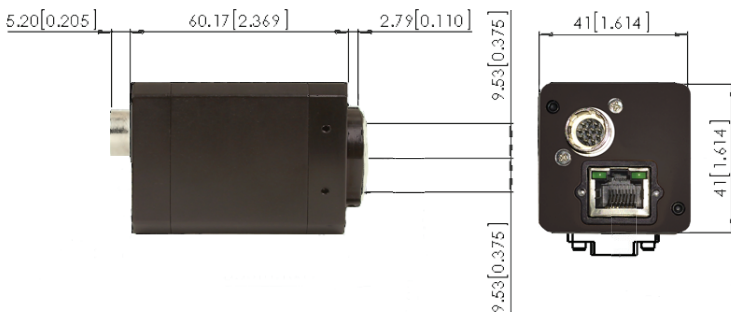


Technical Specifications



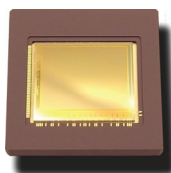
Quantum Efficiency Curve shows > 70% at peak



Mechanical Dimensions for NOCTURN GP Camera Body (in mm)

Camera	Specifications
Sensor Resolution	1280 × 1024 pixels
Sensor Pixel Pitch	9.7 μm × 9.7 μm
Sensor Well Capacity	> 25000 e-
Sensor Dynamic Range	> 60 dB
Sensor Read Noise	< 4 e- median
Sensor Quantum Efficiency	> 70% at peak
Frame Rate	50 or 60 Hz (user adjustable)
Sensor Image Lag	< 0.1%
Sensor Shutter Mode	Rolling
Features	
On-Screen Display	Full on-screen display capability with text, standard geometrical shapes and graphics
Image Correction	Bad pixel replacement and 2 points non-uniformity correction (NUC)
Gain Control	Automatic gain and exposure control or manual
Digital Zoom	Up to 8X (0.001 increment resolution)
Contrast Enhancement	Contrast stretching, equalization and adaptive equalization
Housing	
Lens Mount	CS-mount
Dimensions (excluding connectors) (Width × Height × Depth)	41 mm x 41 mm x 68 mm
Weight	< 175 g
Input/Output	
Digital Video Output	Monochrome: Monochrome 8/10 bit monochrome over GigE Vision Color: Monochrome 8/10 bit monochrome, Color 24 bit YCbCr (4:2:2) or YUV (4:2:2) over GigE Vision
Communications	Serial via External or GigE Interface
Synchronization	Frame start trigger (2 to 12 V) Analog output strobe reference (2 to 12 V)
Environmental and Power	
Start Up Time	< 10 sec
Operating Temperature	0° C to +50° C
Storage Temperature	-50° C to +80° C
Input Voltage	PoE Powered (48-56 VDC) 5-15 V External Power
Power	< 4 W (typical) 50/60 Hz mode

NOCTURN Camera is powered by the Kameleon CMOS color imaging sensor, or the Lynx monochrome sensor, both optimized for low light level imaging.



The Kameleon CMOS imaging sensor is the first color 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.

Both the Lynx and Kameleon CMOS imaging sensors provide full SXGA resolution at up to 100 frames per second, with < 4e- read-out noise and without cooling.

PHOTONIS

NOCTURN

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