



NOCTURN GP

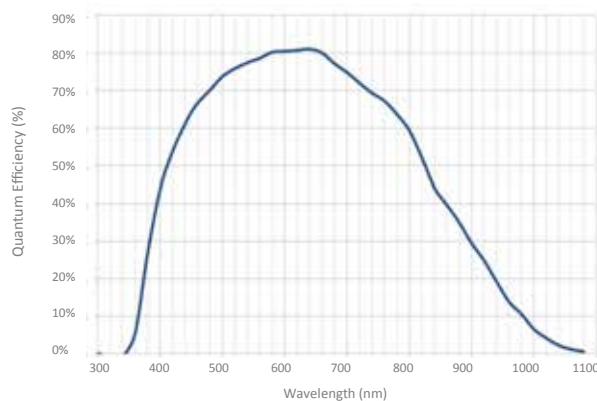


Features

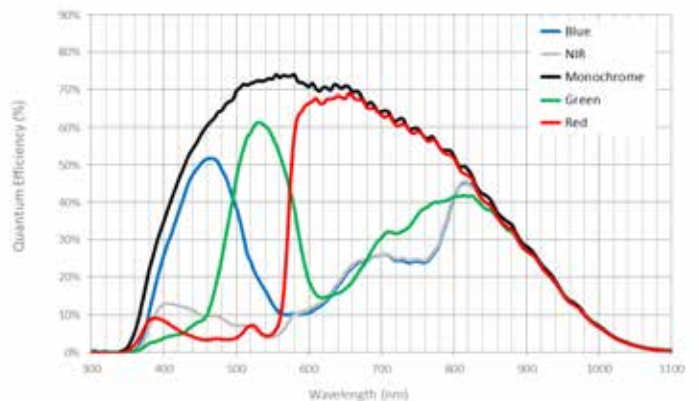
- Color or Monochrome
- Ideal for 24/7 operations
- Less than 4e-read-out noise
- 860 nm and 1064 nm laser line detection
- 1.3 Mpx
- Digital zoom up to 8x

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
Quantum Efficiency	> 80% at 600 nm
Frame Rate	> 55Hz in 10 bit mode, > 90 Hz in 8 bit mode
Image Lag	< 0.1%
Shutter Mode	Rolling
Features	
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
Housing	
Lens Mount	CS-mount
Dimensions (Width x Height x Depth)	41 mm x 41 mm x 68 mm
Weight	< 180g
Quantum Efficiency	

Monochrome



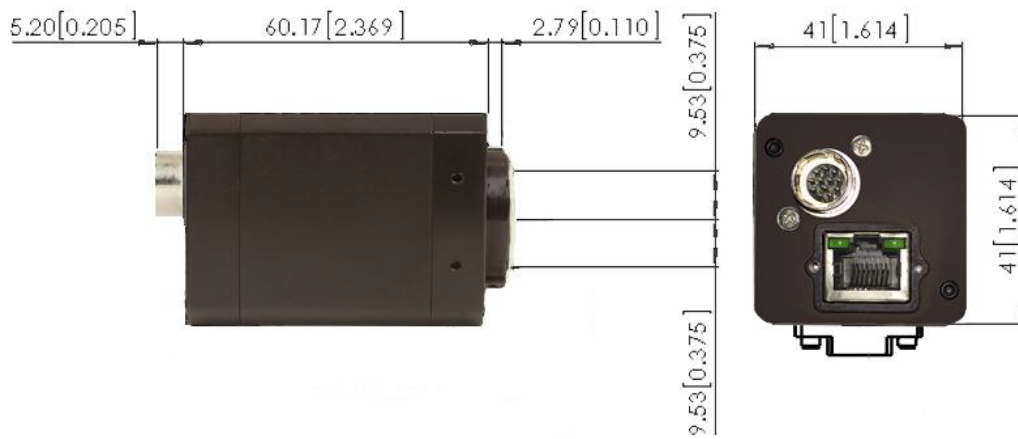
Color





Input/Output	
Digital Video Output	Monochrome : 8/10-bit over GigE Vision Color : Color 24 bit YCbCr(4:2:2) or YUV (4:2:2), monochrome 8/10 bits over GigE Vision
Communications	RS-232 or Ethernet (RJ-45)
Synchronization	Frame start trigger (2 to 12V) Analog output strobe reference (2 to 12 V)
Environmental and Power	
Operating Temperature	0°C to +50°C
Storage Temperature	-50°C to +80°C
Input Voltage	POE Powered (48-56 VDC) +5 to +15 VDC (External Power Supply Needed)
Power (typical)	< 4 W

Mechanical Dimensions for GP Camera Body (in mm)

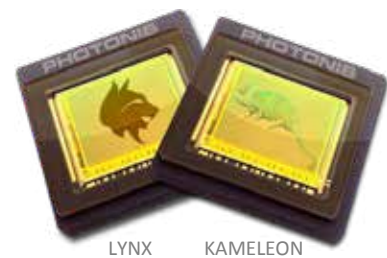


NOCTURN GP Camera is powered by the KAMELEON Color CMOS imaging sensor, or the LYNX CMOS monochrome sensor, both optimized for low light level imaging.

The KAMELEON Color and LYNX Monochrome CMOS imaging sensors are the first operational sensors specifically designed with Night Vision, Homeland Security and Surveillance applications in mind.

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 100 frames per second, with < 4e- read out noise and without cooling.



LYNX KAMELEON