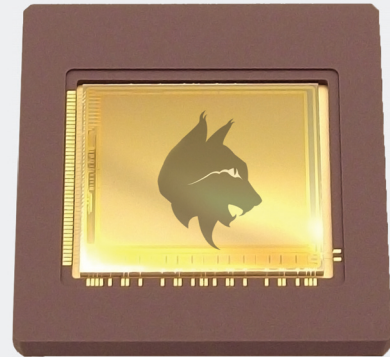


Lynx

Monochrome Low Light CMOS Sensor



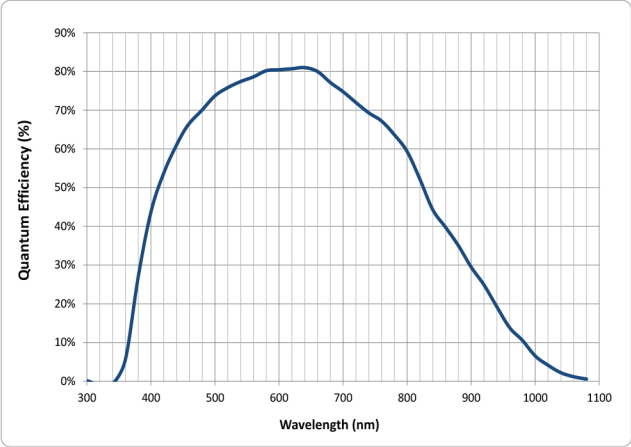
**See beyond the
human eye**

**Superior low light images
without illumination.**

**The Lynx monochrome CMOS sensor
is an award-winning technology which
provides day through night imaging.**

The Lynx CMOS monochrome imaging sensor is the first operational sensor specifically designed with Night Vision, Homeland Security, Surveillance and Scientific applications in mind. This 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 monochrome imaging sensor has a pixel architecture that offers the best compromise between inherent signal-to-noise ratio (SNR), high image resolution and intrascene dynamic range. With read noise below 4e- without cooling, the Lynx CMOS sensor outperforms all low light imaging sensors down to 4 mlx while still supporting frame rates up to 100fps at full SXGA (1280 x 1024) resolution.



Sensor	Specifications
Resolution	1280 × 1024 pixels
Pixel Pitch	9.7 μm × 9.7 μm
Sensor Format/Diagonal	14.8 mm x 12.74 mm / 16 mm
Full Well Capacity	> 25000 e-
Dynamic Range	> 60 dB
Read Noise	< 4 e- mean in 100 Hz mode
Quantum Efficiency	> 80 % at peak depending on sensor configuration
Frame Rate	Up to 100 Hz with full field resolution
Shutter Mode	Rolling
Features	
Image Lag	< 0.1 %
SNR	42 dB
Read-out Modes	Windowing Y-direction X-Y mirroring
Multi-slope	Three slopes
Limiting Resolution	51 lp/mm (1280 lines)
PRNU	< 2 % RMS
Digital Video Output	10-bit digital output (LDVS) up to full resolution
Environmental and Power	
Carrier	73 pin PGA 23 x 23 mm
Power Consumption	< 425 mW @ 60 fps
Operating Temperature	-40°C to 60°C
Storage Temperature	-50°C to 80°C



High Sensitivity Day/Night



Low Power Consumption



Award Winning Low Light Technology



Optimized for SWaP

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