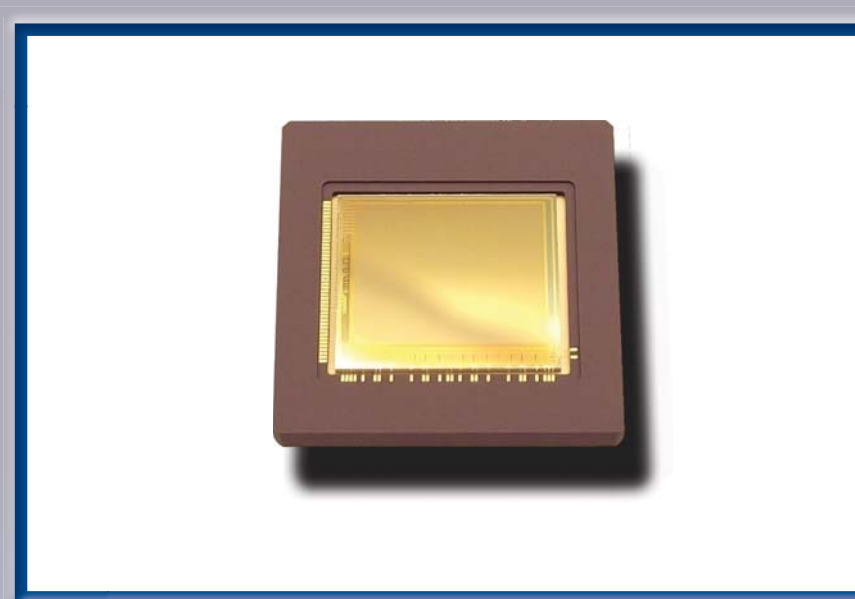


Low Noise CMOS Sensor for Low Light Conditions

1.3 MP Low-Light Imaging Chip designed for simple integration

Features:

- 1280 × 1024 pixel format
- 9.7 × 9.7µm pixel pitch
- Solid State technology
- Up to 100Hz frame rates
- < 4e- read noise at frame rates up to 100Hz
- Rolling Shutter
- 400-1100nm spectral sensitivity
- Bright starlight-to-daylight imaging



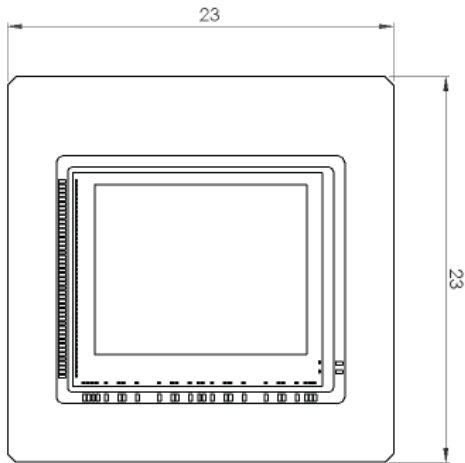
The Lynx CMOS image sensor is a 1.3MP sensor with full SXGA 1280 x 1024 resolution, designed to provide excellent performance in low light level conditions. The Lynx CMOS sensor is the first operational Night Vision and Homeland Security Digital sensor based on full solid-state technology operating in both daylight and low-light level (equivalent to Light Level 3). The Lynx CMOS sensor offers new perspectives in connecting night vision to Command and Control (C4I), in urban and suburban surveillance at night and in advanced applications such as vehicle protection/surveillance and fusion of digital images such as visible (at night) and infra-red (IR).

The Lynx CMOS sensor can provide frame rates up to 100 frames per second (fps) at full resolution with < 4e- read noise, making it ideal for surveillance applications where high-resolution detection across varying light conditions is critical. With a power consumption under 200mW, the Lynx CMOS sensor is ideal for man-portable systems, unmanned remote posts and CCTV surveillance where 24/7 image availability is required. The new sensor is designed for simple integration into a variety of camera platforms by either manufacturers or OEMs.

Lynx CMOS Sensor Features	Benefits
1280 × 1024 resolution at 100 frames per second	High definition imagery to improve detection, identification and situational awareness
< 4e- read noise at frame rates up to 100 fps and high dynamic range with 9.7 × 9.7µm pixel pitch	High signal to noise ratio and scene contrast in light levels 1-3; ideal for 24/7 operations
Low Size, Weight and Power (SWaP)	Ideal for small size man portable systems operating on standard batteries

Specifications:

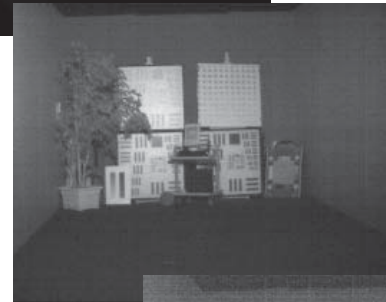
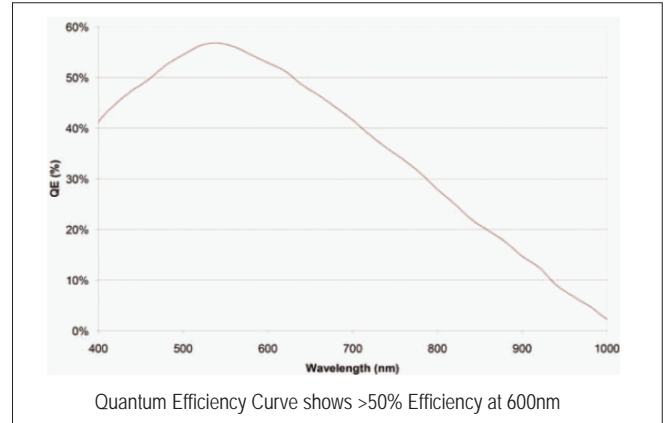
Feature	Specifications
Resolution	1280 × 1024 Pixels (SXGA)
Pixel Pitch	9.7µm × 9.7µm
Well Capacity	> 25000 e-
Dynamic Range	Bright starlight to Daylight
Read Noise	< 4e- median at frame rates up to 100Hz
Quantum Efficiency	> 50% at 600nm
Frame Rate	1 to 100Hz with full field resolution
Image Lag	< 0.1%
Shutter Mode	Rolling
Limiting Resolution	51 lp/mm (1280 lines)
Video Output	10-bit, 60fps or 100fps digital output (LVDS)
PRNU	<2% RMS
Environmental and Power	
Operating Temperature	-40° to 60°C
Storage Temperature	-50° to 80°C
Humidity	95% RH (non-condensing)



Lynx Chip Dimensions (in mm)

Applications:

- Passive low light level imaging
- CCTV security and surveillance
- Man portable vision systems
- Vehicle navigation



Top photo shows 70mLux (Full Moon)

Center photo shows 15mLux (Twilight)

Bottom photo shows 4mLux (Quarter Moon).

For More Information or to Order, Please Contact:

PHOTONIS France SAS
 Avenue Roger Roncier
 19100 Brive La Gaillarde
 FRANCE

E: nightvision@photonis.com
 T: +33 (0) 555 86 38 41
 F: +33 (0) 555 86 37 74
www.photonis.com