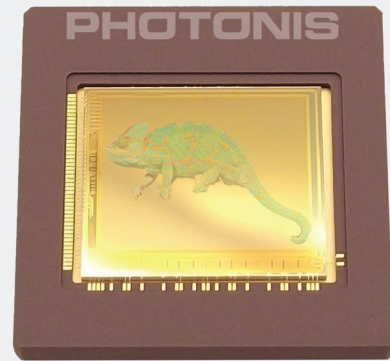


Kameleon

Color Low Light CMOS Sensor



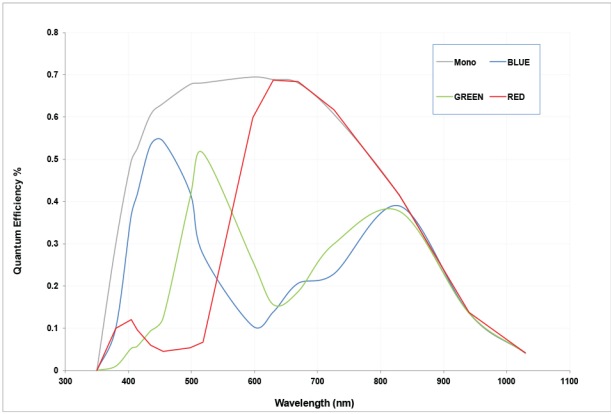
See Full Color at Night

**Full color imaging without
illumination.**

**The Kameleon color CMOS sensor is
an award-winning technology which
provides day through night imaging in
full color.**

The Kameleon CMOS color 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 color imaging across varying light conditions, from day-light to low-light levels - such as those found during a quarter-moon.

The Kameleon CMOS color 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 Kameleon 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 | > 60 % 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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