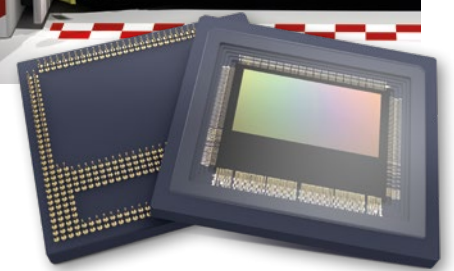


Lince11M, the World's Fastest >10MP Global Shutter Sensor



Advanced illumination systems have become a crucial part of accurately inspecting new and smaller defects. They use high-power LEDs which feature multiple wavelengths and can also inspect objects from multiple angles. **Teledyne e2v's** Lince11M image sensor is ideal for such systems, as it combines both high-speed and high-resolution, helping to improve yields without sacrificing on production throughput.

Outside of the factory floor, Lince11M enables customers to freeze high-speed motion, in larger volumes than any other off-the-shelf sensor. That feature also allows complex scenes with multiple objects to be imaged.



SENSOR FEATURES

High resolution 11MP	High speed Up to 6.8 gigapixels per second	Standard optics APS-like to F-mount	NIR sensitivity 22% QE @850nm	Low power 3.6W
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CUSTOMER BENEFITS

Long distance imaging	Wide angle imaging	Lower cost with less cameras, optics, cables	Strobe more lights for multispectral or multi-field imaging	Affordable optics
	Isotropic MTF for better defect classification	Low heat generation	Relax trigger constraints	

SENSOR CHARACTERISTICS

	LINCE11M
Pixel type/pitch	Global shutter/6µm
Array size/aspect ratio/format	4,480 (H) x 2,496 (V) - 16/9 - APS-like
Color filter	Monochrome
Features	Windowing - flipping - temperature sensor - trigger management for ultra low trigger to exposure latency and jitter
Maximum QE	60%
Dynamic range	60 dB
Temporal read noise	45e -
Maximum frame rate @10 bit	615fps
Bit depth	10
Power consumption	3.6W @max frame rate

KEY ELEMENTS

- » 11.2 Megapixel resolution
- » 6µm CMOS global shutter pixel
- » Up to 615fps @full resolution 10 bits
- » 30.8mm diagonal @full resolution
- » Anti-reflective coated glass
- » 50 x 46mm² ceramic µPGA package
- » Power consumption: 3.6W @full speed & full resolution

EMBEDDED FEATURES

- » Windowing to increase frame rate
- » Flipping
- » Two external trigger modes

TYPICAL APPLICATIONS

- » High-speed industrial inspection
 - › Semiconductors (wafer, flat panel)
 - › Electronics (ball grid, PCB)
- » Motion capture
- » Slow motion imaging
 - › Research
 - › Ballistic
 - › Crash tests

