

# allPIXA evo 8k DXGE

## Line Scan Cameras

High-speed CMOS line scan camera with multi-line sensor and TDI options



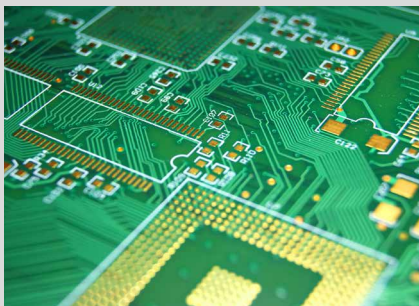
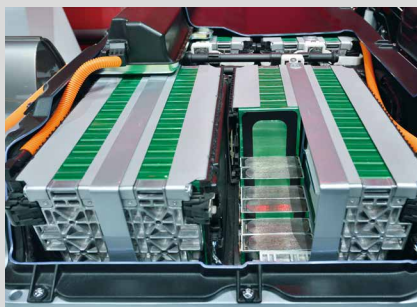
The allPIXA evo 8k DXGE offers CMOS performance with CCD image quality. The novel multi-line CMOS sensor features TDI options for color and mono at high speed. Line rates up to 90 kHz for 8k in full color are possible with the fast and cost-efficient Dual 10 GigE interface. With line and frame trigger options, variable encoder input and color conversion possibilities the allPIXA evo 8k DXGE is the best choice for all high-speed web and print inspection applications demanding high resolution. Filters in the near infrared range enables the recognition of object features in the visible and NIR spectrum. For easy integration, the allPIXA evo DXGE comes with an intuitive graphical tool and an SDK for camera control and image capture for Windows and Linux. Our SDK with real time kernel for Windows ensures completely reliable image data transfer, even for high data rates.

### CAMERA OVERVIEW:

- ▶ CMOS multi-line sensor with 8192 pixels
- ▶ Color or mono output is configurable with the versatile multiline sensor
- ▶ TDI options for RGB and mono
- ▶ High speed: up to 3 x 90 kHz line frequency (RGB)
- ▶ Optical connectors (SFP+) for long fibre cables far beyond 100 m
- ▶ Economical system by using cost effective network interface cards for 10 GigE
- ▶ SDK with real time kernel to ensure reliable data transfer under Windows

### FEATURES:

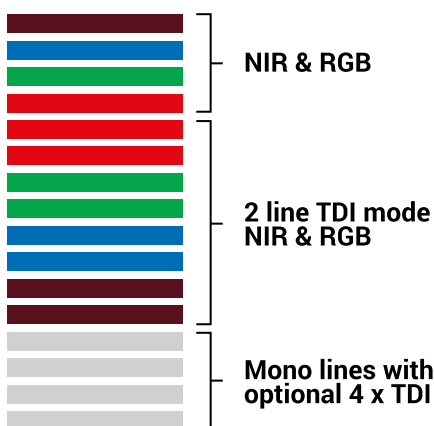
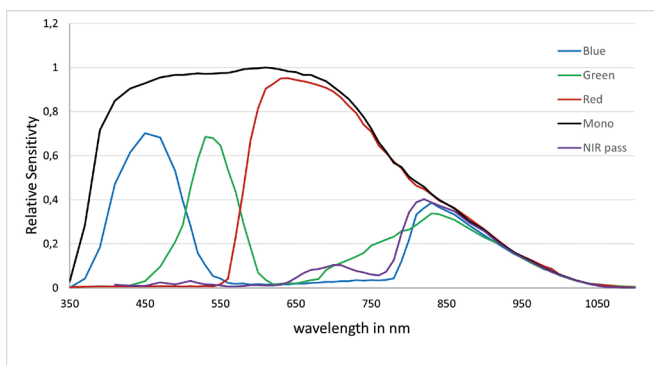
- ▶ Full RGB color with 2 x TDI in full speed
- ▶ Mono camera with up to 8 x TDI in full speed
- ▶ NIR pass filter provides additional NIR image
- ▶ Continuous white balancing
- ▶ Precise multi-camera synchronization
- ▶ Chromasens SDK with real time kernel for reliable high speed image capture under Windows
- ▶ Multi-Flash function for capturing multiple images in one pass with various lighting conditions



**APPLICATIONS:**

- High-speed Print Inspection
- PCB & AOI
- Wafer Inspection
- Sorting Processes
- High-resolution Surface Inspection
- Food
- Semiconductor
- EV Battery

**SPECTRAL SENSITIVITY:**



**SPECIFICATIONS:**

<b>Sensor</b>	CMOS line scan sensor for RGB, NIR, and mono
<b>Number of pixels</b>	8192 pixels
<b>Active pixel size</b>	5.0 μm x 5.0 μm x 16 lines
<b>Output</b>	Single/Dual 10 GigE GigE Vision® 2.0 compliant
<b>Max. line rate color</b>	RGB: 8192 x 3 pixels: up to 50 kHz (Single)* RGB: 8192 x 3 pixels: up to 90 kHz (Dual)* RGB+NIR: 8192 x 4 pixels: up to 37 kHz (Single)* RGB+NIR: 8192 x 4 pixels: up to 68 kHz (Dual)*
<b>Max. line rate TDI</b>	mono: 8192 x 1 pixels up to 100 kHz for 4x and 8x TDI (Single and Dual)*
<b>Max. line rate in ROI mode</b>	RGB and mono: up to 100 kHz
<b>Data format</b>	3 x 8/10/12 Bit color or 1 x 8/10/12 Bit mono mode or 4 x 8/10/12 Bit RGB + NIR-pass
<b>TDI options color camera</b> <b>TDI options mono camera</b>	color: 2 x TDI / mono: 4 x TDI 8 x TDI
<b>Interfaces</b>	2 x SFP+ (copper and fiber connectors) External I/O (DSUB)
<b>Power supply</b>	12 – 24V DC ± 20%
<b>Trigger mode</b>	Free run / External trigger Line trigger / Encoder / Frame trigger
<b>Operating Temperature</b>	0° - 60°C (housing temperature)
<b>Dimensions / Lens mount</b>	102 x 76 x 82 mm (W x H x D) / M72 x 0.75 mm / F-Mount
<b>Certification</b>	CE; RoHS

\*With Chromasens SDK. For more information see allPIXA evo manual.

**Customized Cameras and Imaging Systems:**

Chromasens offers fully customized light, camera and scanner solutions. All systems are 100% adaptable to customer requirements.