

# allPIXA evo 8k CXP

## Line Scan Camera with CoaXPress Interface

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



CoaXPress®

CXP-12

GEN<i>CAM

The allPIXA evo 8k with CoaXPress interface unleashes the full speed of the multi-line CMOS sensor with line rates of up to 100kHz for color, mono and TDI images. The sensor provides images with CCD quality with high-resolution by using the fast 4 x CoaXPress interface. With versatile frame trigger and encoder options the allPIXA evo 8k 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 8k CXP comes with the intuitive graphical tool GCT for Windows and Linux, which works with all GenICam compliant CXP frame grabbers.

### CAMERA OVERVIEW:

- ▶ CMOS multi-line sensor with 8192 pixels
- ▶ 4x CoaXPress (CXP-12) interface
- ▶ Multiline sensor enables color or mono output, configurable with parameters
- ▶ True RGB color with excellent signal-to-noise-ratio
- ▶ High speed: up to 100 kHz line frequency with full RGB and RGB-NIR
- ▶ Supports PoCXP (Power over CoaXPress).
- ▶ Fully compatible with CoaxPress standard
- ▶ SDK and graphical tool GCT for Windows and Linux

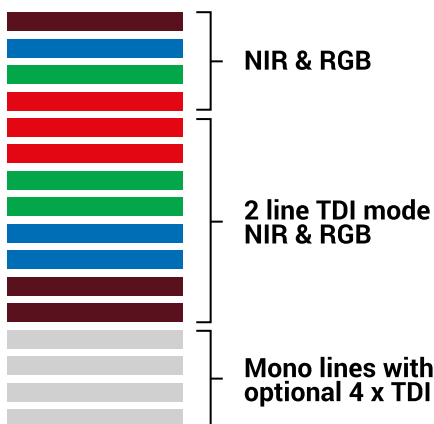
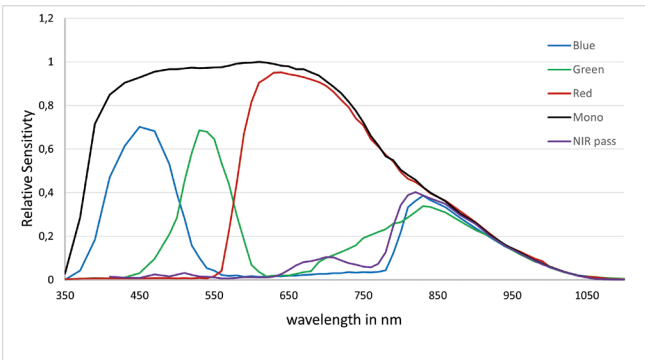
### FEATURES:

- ▶ Full RGB color with 2 x TDI option in full speed
- ▶ Mono camera with up to 8 x TDI in full speed
- ▶ NIR pass filter provides separate NIR image
- ▶ High-precision positioning of the optical center based on exact housing references
- ▶ Frame and line trigger options including variable encoder input
- ▶ Color correction matrix for optimized color image representation
- ▶ Continuous white balancing
- ▶ Precise multi-camera synchronization
- ▶ Multi-Flash function for capturing multiple images in one pass with various lighting conditions



- APPLICATIONS:**
- Flat Panel Display Inspection
  - Printed Circuit Board Inspection
  - High-resolution Document Scanning
  - Print and Label Inspection
  - Web and Foil Inspection
  - Postal Sorting (parcels and letters)
  - Food Inspection and Sorting
  - High Quality Surface Inspection
  - Pharma Packaging and Print Inspection
  - Wood Inspection
  - General Machine Vision

**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
<b>Output</b>	4 x CoaXPress 2.0
<b>Max. line rate color</b> <b>Max. line rate color+NIR</b>	8192 x 3 pixels: up to 100 kHz RGB+NIR: 8192 x 4 pixels: up to 100kHz
<b>Max. line rate TDI</b>	Mono: 8192 x 1 pixels up to 100 kHz for 4x and 8x TDI
<b>Max. line rate in ROI mode</b>	up to 100 kHz
<b>Data format</b>	3 x 8/10/12 Bit color or 4 x 8/10/12 Bit color+NIR or 1 x 8/10/12 Bit mono mode
<b>TDI options</b>	RGB color: up to 2x TDI (Sensor) Mono: up to 8 x TDI (Sensor and FPGA)
<b>Interfaces</b>	4 x CoaXPress 2.0 with micro-BNC connectors External I/O (DSUB) CoaXPress connections switchable 1, 2 or 4
<b>Power supply</b>	12 – 24V DC ± 20% (Hirose) Power over CoaXPress: PoCXP requires min. 2 x CXP connectors
<b>Trigger mode</b>	Free run / External trigger / Line trigger / Frame trigger
<b>Operating Temperature</b>	0° - 60°C (housing temperature)
<b>Dimensions / Lens mount</b>	102 x 76 x 87 mm (W x H x D) M72 x 0,75 mm / F-Mount (adapter for M72)
<b>Certifications</b>	CE; RoHS

**Customized Cameras and Imaging Systems:**  
Chromasens offers fully customized light, camera and scanner solutions. All systems are 100% adaptable to customer requirements.