

allPIXA evo 8k CXP

Color Line Scan Camera with CoaXPress Interface

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






The allPIXA evo 8k with CoaxPress interface unleashes the full speed of the multi-line CMOS sensor with line rates of up to 100 kHz 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 and high-resolution web and print inspection applications. Filters in the near infrared range enables the recognition of object features in the visible and NIR spectrum with one camera. For easy integration, the allPIXA evo comes with the intuitive graphical tool GCT for Windows and Linux, which works with all GenICam compliant CXP frame grabbers.

CAMERA OVERVIEW:

- 8k color multi line camera with 4 x CoaXPress (CXP-12) Interface
- TDI options for RGB and mono
- 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

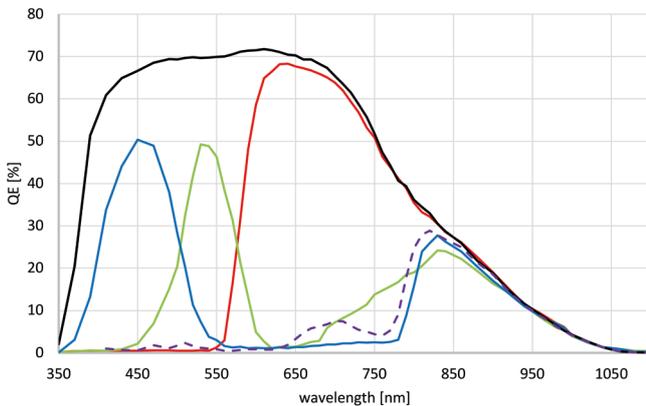
FEATURES:

- CMOS color sensor with 16 lines
- 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 multiple image acquisition in one pass



- 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:

Sensor	CMOS line scan sensor with 16 lines (RGB, NIR, and mono)
Number of pixels	8192 pixels
Active pixel size	5.0 µm x 5.0 µm
Output	4 x CoaXPress 2.0
Max. line rate color	RGB: 8192 pixels x 3: up to 100 kHz
Max. line rate color+NIR	RGB+NIR: 8192 px x 4: up to 100kHz
Max. line rate mono	Mono: 8192 pixels x1: up to 100 kHz
Max. line rate in ROI mode	up to 100 kHz
Data format	3 x 8/12 Bit color or 4 x 8/12 Bit color+NIR or 1 x 8/12 Bit mono mode
TDI options	RGB color: up to 2x TDI mode (Sensor) Mono: up to 8 x TDI (Sensor and FPGA)
Interfaces	4 x CoaXPress 2.0 with micro-BNC connectors External I/O (DSUB) / USB2.0 (Micro USB) CoaXPress connections switchable 1, 2 or 4
Power supply	12 – 24V DC ± 20% (Hirose) Power over CoaXPress: PoCXP requires min. 2 x CXP connectors
Trigger mode	Free run / External trigger / Line trigger / Frame trigger
Operating Temperature	0° - 60°C (housing temperature)
Dimensions / Lens mount	102 x 76 x 87 mm (W x H x D) M72 x 0,75 mm / F-Mount (adapter for M72)
Certifications	CE; FCC compliant; RoHS

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