EoSens® 25CXP+

High Speed CMOS Cameras

MIKROTRON

1288
EMVA Standard Compliant

CoaXPress

GEN<i>CAM

Engineered for Sensitivity

Powered by an advanced OnSemi PYTHON sensor, the EoSens® 25CXP+ supports 80 frames per second at 5,120 x 5,120 pixel resolution.

This extremely photo-sensitive high-speed CMOS camera delivers high-contrast images even in low-light conditions.

Integrated in a robust, small, metal housing, the camera is engineered for use in rough environments. All this is combined with a 4-channel CXP-6 CoaXPress® interface, transmitting data at speeds of up to 25 Gigabits per second in real time.

EoSens® 25CXP+ Key Features:

- 80 fps at 25 megapixel resolution
- Based on OnSemi PYTHON sensor
- High-performance CoaXPress® interface
- Extremely sensitive
- Compact, fanless design

APPLICATION EXAMPLES

- PCB inspection
- Wafer inspection
- Aerial surveillance
- Surface inspection
- Flaw detection
- Materials science
- LCD panel inspection
- LED inspection

MIKROTRON
High-Speed Vision Solutions

Future Proof Interface

The CoaXPress® interface standard is one of the most powerful transmission technologies in image processing today. Its features speak for themselves:

- Data rates up to 25Gbit/s, 4 lanes with max. 6,25Gbit/s
- Data, communication, control and power over one cable
- Real time behavior through fixed, low latency
- Precise triggering capability, even in multi-camera applications
- Plug and play

Technical Data

(More detailed specifications are available on request)

	Eo*Sens*® 25CXP+ (monochrome / color)
Resolution	25 Mpix
Active pixels	5.120 x 5.120 px
Interface	CoaXPress® @ 4 x 6.25 Gbit/s
Frame rate (8 bit)	80fps
Sensor	OnSemi Python 25k
Sensor type	CMOS global shutter
Sensor format	35mm
Active sensor area (H x V)	23.04 x 23.04 mm
Pixel size	4.5 x 4.5 µm
Sensitivity (mono)	5.8 V/lux*s @ 550nm
Pixel data width	10 / 8 bit
Dynamic range	59 dB
Shutter time (steps)	1 µs
Shutter time range	1 µs - 0.1 s
Interface Connector	DIN 1.0/2.3
Mount option	F-Mount
Dimensions (W x H x L w/o mount)	80 x 80 x 66 mm
Weight (w/o mount)	540 g
Power consumption	10 W
Power supply	12-24VDC external or PoCXP
Camera body temperature	+5 °C ... +55 °C
Shock / Vibration proof	70 g / 7 grms
Conformity	CE / RoHS / GenICam / CoaXPress®
EMVA1288 reports	✓

Frame rates

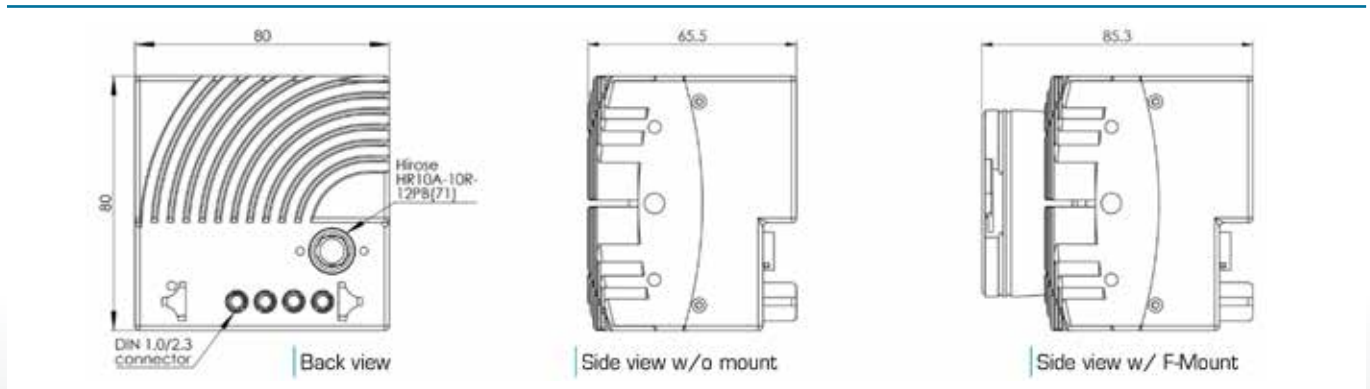| Resolution	Frame rate
5,120 x 5,120 px	80 fps
4,096 x 3,072 px	160 fps
1,920 x 1,080 px	448 fps
1,280 x 1,024 px	470 fps
1,024 x 768 px	623 fps

Smart Features

- PoCXP
- Various Trigger Modes
- Arbitrary ROI
- FPN Correction
- Direct GPIO on camera
- PRNU Correction

Camera Body Dimensions

Back view

Side view w/o mount

Side view w/ F-Mount

MIKROTRON GmbH

Mikrotron GmbH provides a full range of high-speed imaging solutions for challenging applications in industry, engineering, science and sports. The company's extreme slow-motion recording enables customers to optimize manufacturing processes, improve product design, revolutionize quality management and analyze motion.

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