



EoSens® 25CL+

High-Speed CMOS Cameras



GEN<i>i>CAM

Engineered for High Resolution

Powered by an advanced OnSemi PYTHON sensor, the EoSens® 25CL+ supports 31 frames per second at 5,120 x 5,120 pixel resolution. With an extraordinary photo-sensitivity of 5.8 V / lux*s @ 550 nm this high-speed CMOS camera delivers high-contrast images even in lowlight conditions.

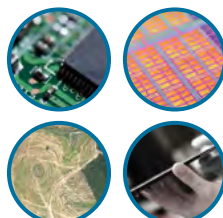
Contained within a robust and small metal housing, it is engineered for use in rough environments. The camera uses a full Camera Link® interface with a transmission rate of up to 850 MByte/s and can be controlled by Mikrotron's camera tool, which is included.

EoSens® 25CL+ Key Features:

- 31 fps at 25 megapixel resolution
- Based on OnSemi PYTHON sensor
- Full Camera Link® configuration
- Extremely sensitive
- Compact, fanless design

APPLICATION EXAMPLES

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



MIKROTRON
High-Speed Vision Solutions

Standardized Interface

The camera takes advantage of Camera Link® technology. This widely adopted standard has a number of benefits:

- Easy to configure camera attributes
- Precise and reliable triggering and timing capability
- Uniform cabling
- Easy handling

Frame rates

Resolution	Frame rate
5,120 x 5,120 px	31 fps
1,920 x 1,080 px	173 fps
1,280 x 1,024 px	182 fps

Smart Features

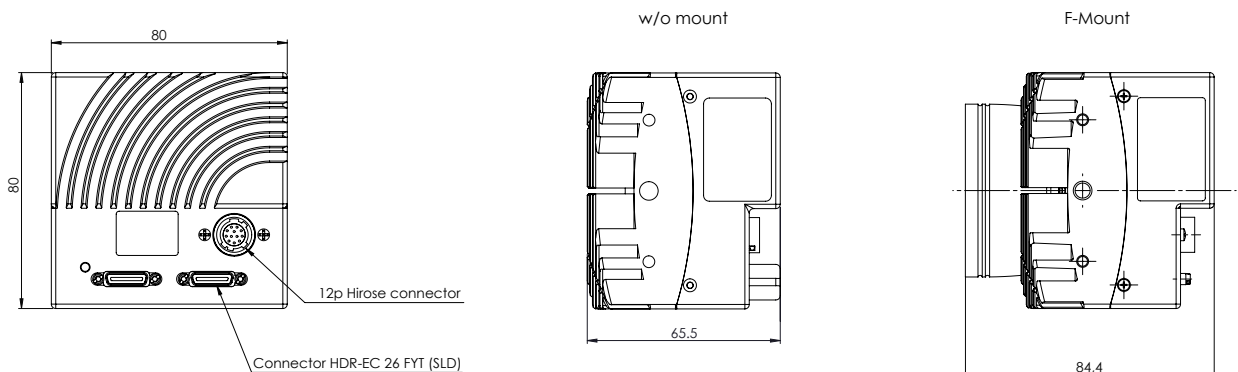
- FPN Correction
- GPIO
- PRNU Correction
- Trigger Modes
- Multiple ROIs

Technical Data

(More detailed specifications are available on request)

	EoSens® 25CL+ monochrome / color / NIR
Resolution	25 Mpix
Active pixels	5,120 x 5,120 px
Interface	Camera Link® extended full
Frame rate (8 bit)	31 fps
Sensor	PYTHON 25k
Sensor type	CMOS global shutter
Sensor format	35 mm
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 @ 550 nm
Pixel data width	10 / 8 bit
Dynamic range	59 dB
Shutter time (steps)	1 µs
Shutter time range	1 µs – 1 s
Max. Trigger frequency	300 kHz
Max. Jitter	±4 ns
Interface connector	2 x mini CL SDR-26
Mount options	F-Mount
Dimensions (W x H x L w/o mount)	80 x 80 x 66 mm
Weight (C-Mount)	540 g
Power consumption	10 W
Power supply	12 – 24 V DC
Camera body temperature	+5 °C ... +50 °C
Shock / Vibration proof	70 g / 7 grms
Conformity	CE / RoHS / GenICam / Camera Link®
EMVA1288 reports	✓

Camera Body Dimensions



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 solutions enable customers to optimize manufacturing processes, improve product design, revolutionize quality management and analyze motion.

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