



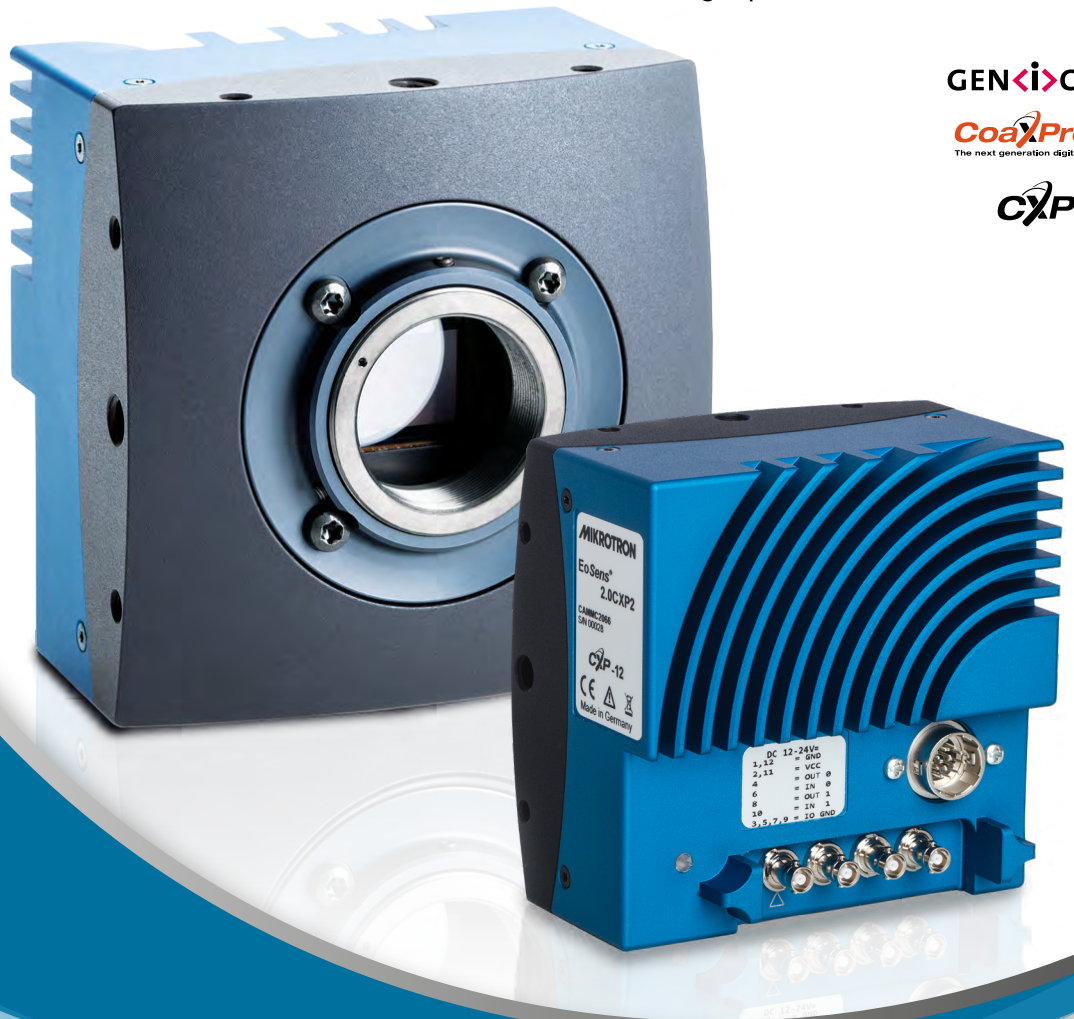
SCAN ME

**MIKROTRON**  
High-Speed Vision Solutions

GEN*i*CAM

CoaXPress  
The next generation digital interface

CXP-12



# EoSens<sup>®</sup> 2.0 CXP2

Engineered for  
highest  
Performance

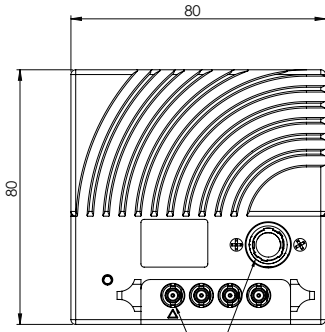
## EoSens<sup>®</sup> 2.0 CXP2 Key Features:

- 2,240 fps at 2 megapixel resolution
- Up to 170,578 fps at reduced resolution
- High sensitivity
- Fast CoaXPress-12 Interface
- 80 x 80 x 53 mm small

# EoSens® 2.0 CXP2

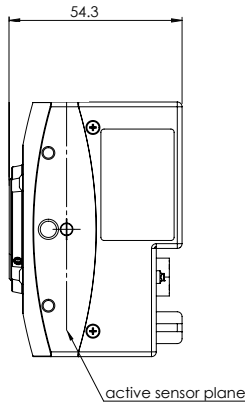
## Dimensions [mm]

### Back view

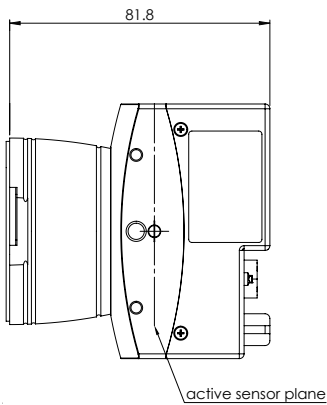


Micro BNC 75OHM ST JACK BULKHEAD Hirose HR 10A-10R-12Pb

### Side view w/n mount



### Side view w/ F mount



## Performance

Featuring a high-speed CMOS sensor, the EoSens® 2.0CXP2 offers full HD 1,920 x 1,080 pixel resolution at an out-standing speed of 2,240 fps. The camera takes advantage of the new CoaXPress Standard Version 2.0 transmitting data at twice the data rate of Version 1.1. The CXP-12 interface supports data transmission of up to 4 lanes at 12.5 Gbps.

## High Sensitivity

The camera's extreme sensitivity of 20 V/lux\*s @ 550 nm delivers high-contrast images even in very low light conditions. This allows to integrate it in applications where lighting is the crucial point.

## Compact Design

Contained within an 80 x 80 x 53 mm in a fanless metal housing with highest data rates and an extremely fast CoaXPress Version 2.0 Interface, the EoSens® 2.0CXP2 is suited for use in a wide range of industrial applications.

## Smart Features

- CoaXPress lanes switchable 1, 2 or 4
- Supported link speed 3.125/6.25/12 Gbps
- Gamma Correction
- FPN Correction

Specifications	EoSens® 2.0 CXP2
Resolution	2.0 MP
Active Pixels	1,920 x 1,080 px
Interface	CXP @ 4 x 12.5 Gbit/s
Frame Rate, 8 bit	2,240 fps
Sensor	LUX19HS
Sensor Type	CMOS (Global Shutter)
Sensor Format Ø	4/3"
Active sensor area (H x V)	19.20 x 10.80 mm
Pixel Size	10 x 10 µm
Sensitivity (mono)	20 V/lux*s @ 550 nm
Pixel Data Width	10 / 8 bit
Dynamic Range	60 dB
Shutter Time / Steps	1 µs
Shutter Time / Range	2 µs – 1 s
Max. Jitter via CXP Trigger	±4 ns
Mount Options	C mount / F mount
Dimensions (W x H x L w/o mount)	80 x 80 x 53 mm
Weight w/o mount	450 g
Power consumption	11 W
Power supply	12 – 24 VDC
Camera body temp.	+5 °C ... +50 °C
Shock / Vibration proof	70 g / 7 grms
Conformity	CoaXPress / GenICam

Resolution [px]	Frame Rates [fps]
1,920 x 1,080	2,247
1,024 x 768	3,152
640 x 480	5,020
128 x 128	18,177
1,920 x 8	170,578
	max. 170,578



GENICAM CoaXPress CXP-12 The next generation digital interface

## Markets and Application Examples



Melt pool monitoring	Additive Manufacturing
Ball grid inspection	Sorting
PIV measurements	Inspection
Roboter positioning	Microscopy

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