



SCAN ME

PRELIMINARY

MIKROTRON
High-Speed Vision Solutions

GEN*i*CAM

CoaXPress
The next generation digital interface

CXP-12



EoSens[®] 21CXP2

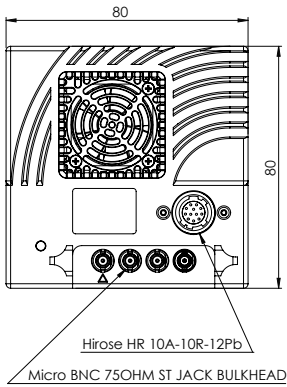
Engineered for
highest
Performance

EoSens[®] 21CXP2 Key Features:

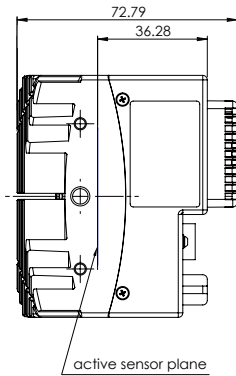
- 230 fps @ 21MPix resolution
- High sensitivity
- Fast CoaXPress-12 interface
- Precise triggering
- 80 x 80 x 72.8 mm small

Dimensions [mm]

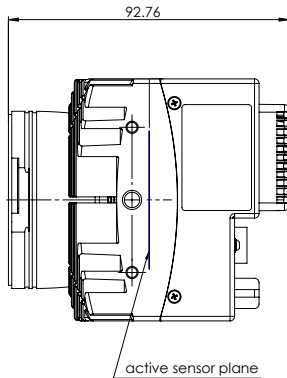
Back view



Side view w/o mount



Side view w/ F mount



Performance The EoSens®21CXP2 is engineered for the highest Performance. Featuring a high-speed CMOS sensor, the EoSens®21CXP2 offers 5,120 x 4,096 pixel resolution at an out-standing speed of more than 230 fps. This 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 delivers high-contrast images even in very low light conditions. This allows to integrate it in applications where lighting is the crucial point.

- Smart Features**
- CoaXPress V2.0: Supported link speed 3.125/6.25/12 Gbps
 - CoaXPress 1.1 downward compatible
 - CoaXPress lanes switchable 1, 2 or 4
 - In-Image frame counter and timestamp
 - Excellent image quality
 - FPN Correction
 - ROI supported with frame rate increase
 - Direct GPIO on camera accepting LVTTTL-24V
 - Programmable UserSets
 - Controllable fan

Specifications	EoSens® 21CXP2
Resolution	21 MP
Active Pixels	5,120 x 4,096 px
Interface	CXP @ 4 x 12.5 Gbit/s
Frame Rate, 8 bit	230 fps
Sensor Type	CMOS (Global Shutter)
Sensor Format Ø	29.5 mm
Pixel Size	4.5 x 4.5 µm
Pixel Data Width	12 / 10 / 8 bit
Dynamic Range	up to 56 dB
SNR	up to 44.8 dB
Shutter Time / Steps	1 µs
Shutter Time / Range	4 µs – 1 s
Max. Jitter via CXP Trigger	±4 ns
Mount Options	F mount
Dimensions (W x H x L w/o mount)	80 x 80 x 72.8 mm
Weight w/o mount	590 g
Power consumption	18.5 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]
5,120 x 4,096	230
5,120 x 3,072	305
5,120 x 1,024	891
5,120 x 128	5,540
	max. 12,560



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Markets and Application Examples

Factory Automation	Laser Triangulation
Traffic & Logistics	PCB Inspection
Sports & Entertainment	Particle Image Velocimetry
Medical & Life Science	Metrology

