



SCAN ME

A BRAND OF SVS-VISTEK

MIKROTRON

High-Speed Vision Solutions

GEN*i*CAM

CoaXPress
The next generation digital interface

CXP-12



EoSens[®] Creation 1.1CXP2

High-Speed Processing
at the Edge

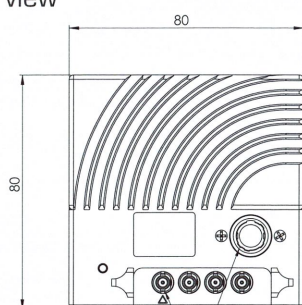
EoSens[®] Creation 1.1CXP2 Key Features:

- 3,674 fps at 1.1 megapixel resolution
- Scale- and switchable CoaXPress 2.0 interface
- High sensitivity
- Embedded capabilities for high-speed, real time processing in the camera
- 80 x 80 x 53.4 mm small

EoSens® Creation 1.1CXP2

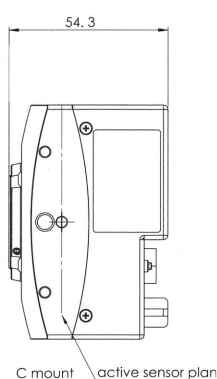
Dimensions [mm]

Back view

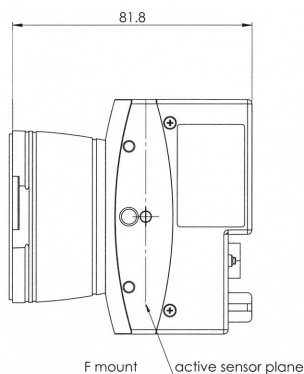


Micro BNC 75OHM ST JACK BULKHEAD Hirose HR 10A-10R-12Pb

Side view w/ C mount



Side view w/ F mount



High-Speed Imaging with excellent image quality

The EoSens® Creation 1.1CXP2 offers 1,280 x 864 pixel at an outstanding speed of 3,674 fps down to small ROI's with some ten thousand frames per second. The high sensitivity of the sensor and adequate pixel size guarantees best imaging results.

Processing Capabilities

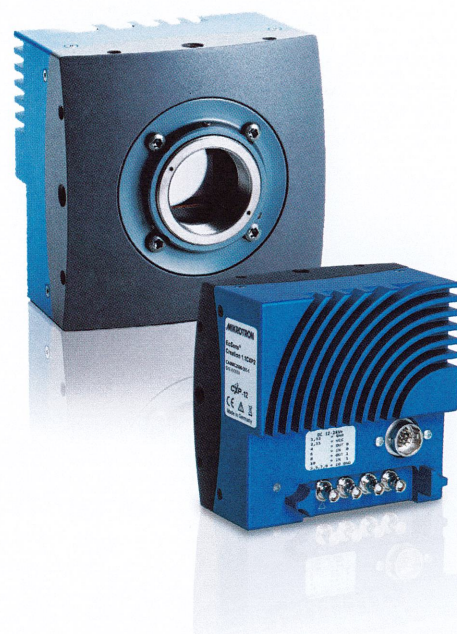
The EoSens® Creation 1.1CXP2 is a unique camera platform, which allows to capture, process and output images with up to 3,674 fps at full resolution. With only the relevant information being transferred via the scaleable CoaXPress 2.0 interface, fewer connection links are needed to transfer data, and lower speed rates can be used per link.

Advantages of camera internal processing

- Parallelization of processing cycles
- Real time processing for large data rates up to 5 GB/s at the image source
- CoaXPress connections switchable 1, 2 or 4
- Link speed switchable from 3.124 up to 12.5 Gbps per connection

Resolution [px]	Frame Rates [fps]			
	capture & process	output via CXP-12 (scalable)		
		4 x CXP-12	2 x CXP-12	1 x CXP-12
1,280 x 864	3,674	3,674	2,079	1,039
1,280 x 764	4,151	4,151	2,349	1,174
640 x 480	6,576	6,576	6,576	3,721
128 x 128	23,821	23,821	23,821	23,821

Specifications	EoSens® Creation 1.1CXP2
Resolution	1.1 MP
Active pixels	1,280 x 864 px
Interface	CoaXPress 2.0
Sensor	LUX13HS
Sensor type	CMOS (Global Shutter)
Sensor format Ø	4/3"
Pixel size	13.7 x 13.7 µm
Sensitivity	20 V/lux*s @ 550 nm
Pixel data width	10 / 8 bit
Dynamic range	up to 56 dB
Shutter time / steps	1 µs
Shutter time / range	2 µs – 1 s
FPGA type	Kintex® UltraScale™ KU035
Volatile memory	1 GB, DDR4
Usable resources in FPGA	70%
Mount options	C, F, FG mount
Dimensions w/o mount	80 x 80 x 53.4 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



GEN*i*CAM

CoaXPress
The next generation digital interface

CXP-12

Markets and Application Examples

Melt pool monitoring	Additive manufacturing
Laser triangulation	Inspection
Metrology	Sorting
3D scanning	Laser tracking



TKH A TKH TECHNOLOGY COMPANY



All trademarks are properties of their respective owners. MIKROTRON reserves the right of change without notice. MIKROTRON is not liable for harm or damage incurred by information contained in this document.

A BRAND OF SVS-VISTEK
MIKROTRON
High-Speed Vision Solutions

Germany
Ferdinand-Porsche-Str. 3
82205 Gilching
T.: +49 8105 3987-60
www.mikrotron.de
info@mikrotron.de

USA
4400 State Hwy 121, Suite
304, US-Lewisville, TX 75056
T.: +1 800 935 6593
www.mikrotron.de/en
steve.ferrell@mikrotron.de



SCAN ME