



EoSens® 1.1CCX12-CM

EoSens® CoaXPress12



High-Speed with CoaXPress-12

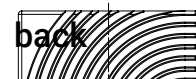
Mikrotron CoaXPress-12 cameras comply with the CoaXPress 2.0 specification and transmit at 4 lanes up to 50Gbit/s. They meet the highest requirements for minimum latency and jitter. They satisfy most stringent requirements for minimum latency and jitter. The cameras are very light sensitive and support multiple binning modes and ROIs depending on the model.

Technical Highlights:

- scalable interface with 1, 2 or 4 connections
- complies with CoaXPress 2.0 standard, compatible with CXP 1.0 standard
- light sensitive sensor
- only 80 x 80 x 66 mm small
- Shock and vibration resistant

SPECIFICATIONS

Resolution [MP]	1.1 MP
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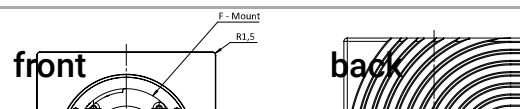
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SPECIFICATIONS

Resolution [MP]	1.1 MP
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Resolution (h x v)	1280 x 864 px
Frame rate (max.)	3674 fps
Chroma	color
Interface	CXP-12 with 4 Connections

SENSOR

Sensor	LUX13HS
Manufacturer	Luxima
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	17.54 x 11.84 mm
Optical diagonal	21.16 mm
Sensor format	4/3 "
Pixel size (h x v)	13.7 x 13.7 µm

FRAME RATES

1280 x 864	3674 fps
1280 x 768	4151 fps
640 x 480	6576 fps
128 x 128	23821 fps

CAMERA

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal, CXP-Trigger
Exposure time (min)	2 µs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer10 / 10 bit

FEATURE SET

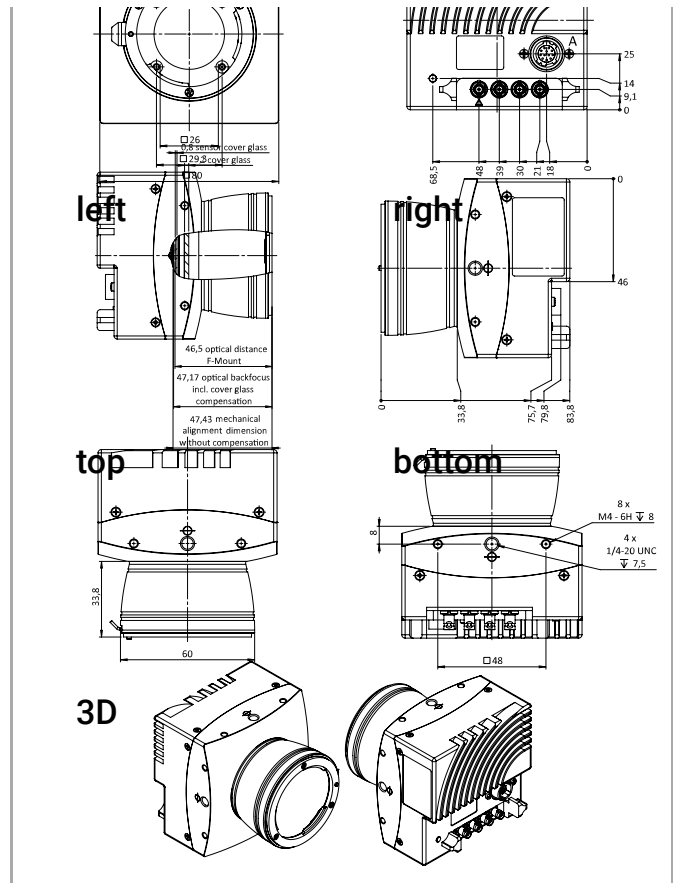
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 83.1 mm
Weight	550 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	70 g / 7 grms
Protection class	IP30

I/O-INTERFACES

Input up to 24V	2 x
Input Galvanic	2 x
Output Galvanic	2 x
Power supply	12 to 24 V (DC)
Power consumption	14 W (dep. on operating mode)



For more information please contact:



BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

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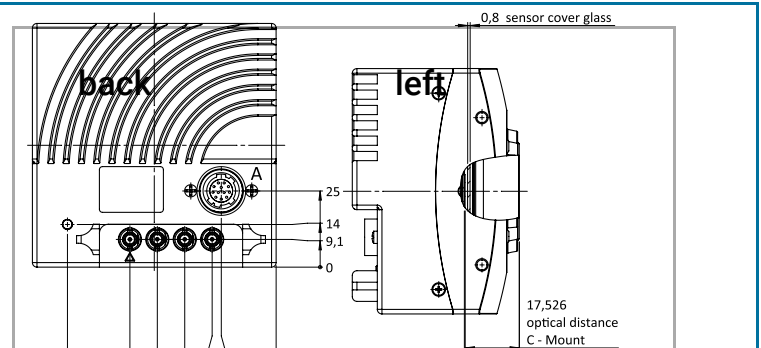
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Interface	CXP-12 with 4 Connections

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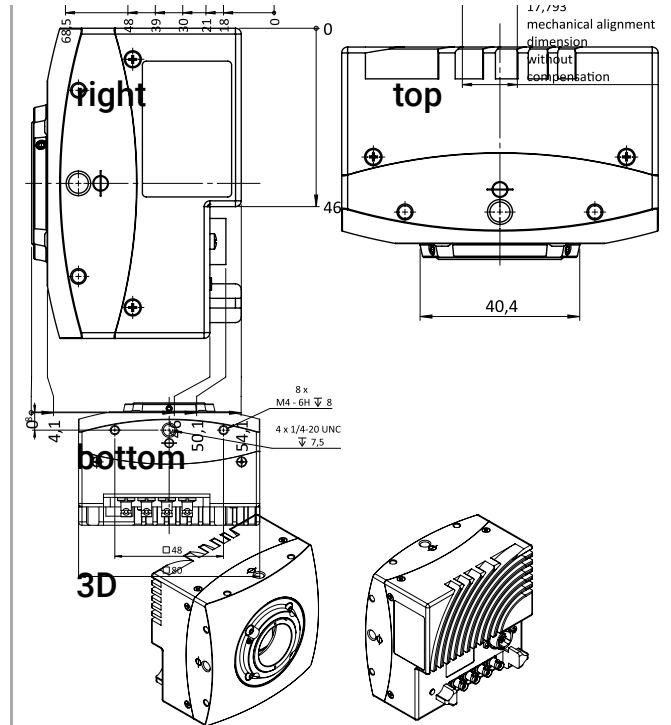
AOI	yes
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HOUSING

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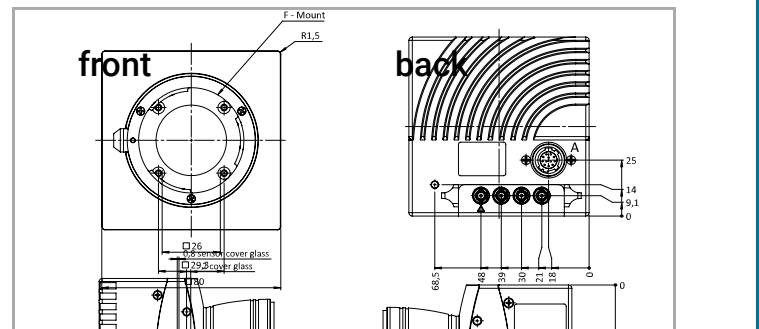
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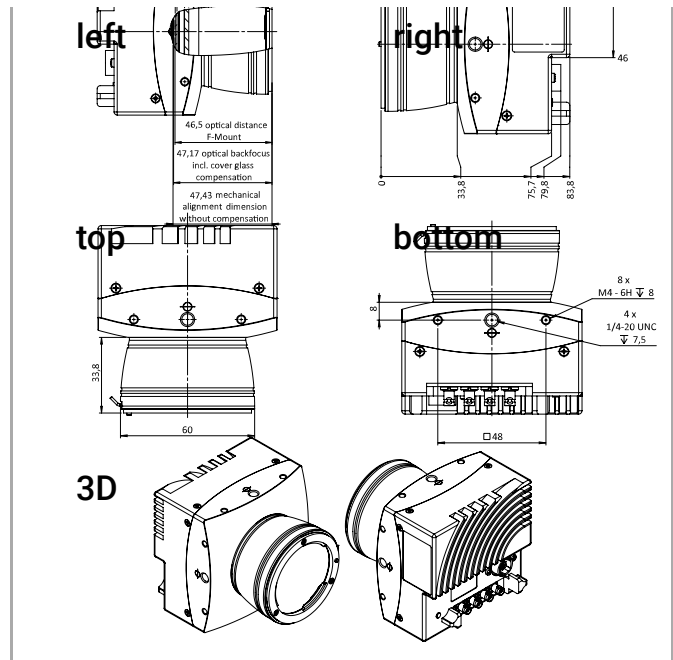
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Shading correction	yes
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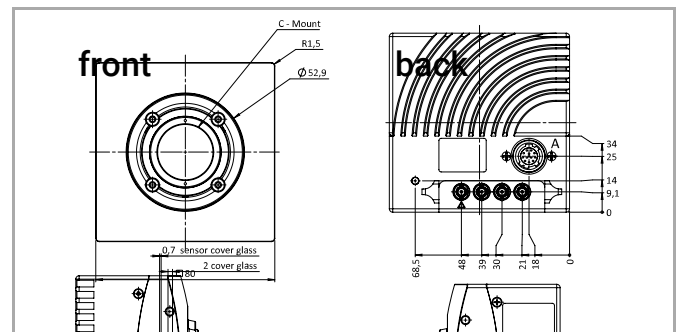
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SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	2247 fps
Chroma	color
Interface	CXP-12 with 4 Connections

SENSOR

Sensor	Lux19HS
--------	---------



Manufacturer	Luxima
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	19.2 x 10.8 mm
Optical diagonal	22.03 mm
Sensor format	4/3 "
Pixel size (h x v)	10 x 10 µm

FRAME RATES

1920 x 1080	2247 fps
1024 x 768	3152 fps
640 x 480	5020 fps
128 x 128	18177 fps
1920 x 8	170578 fps

CAMERA

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal, CXP-Trigger
Exposure time (min)	2 µs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer10 / 10 bit

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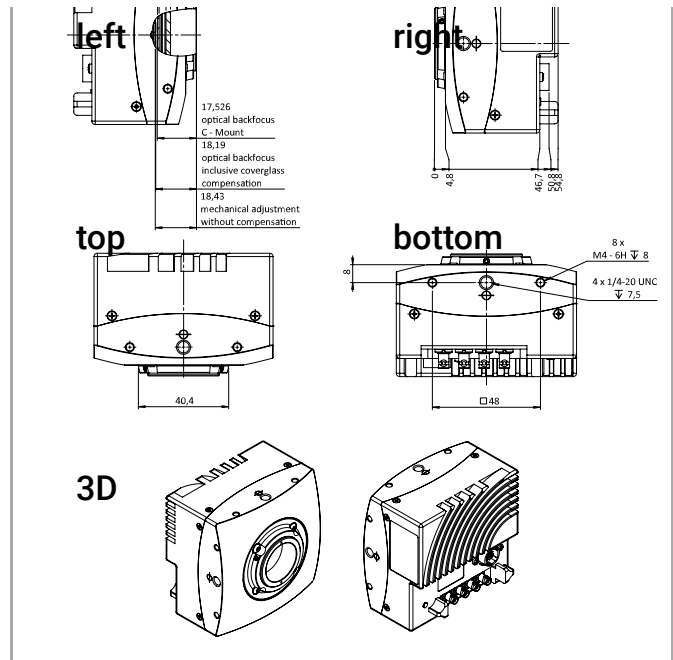
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
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Weight	500 g
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Protection class	IP30

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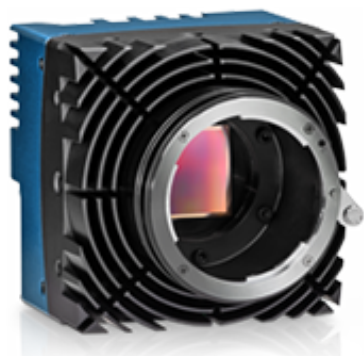


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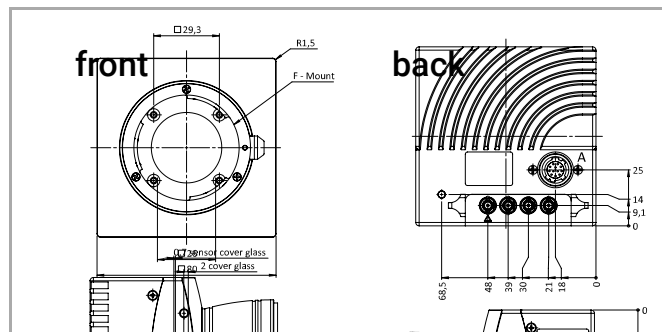
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Chroma	color
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SENSOR

Sensor	Lux19HS
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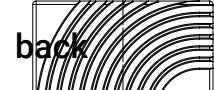
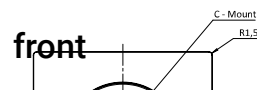
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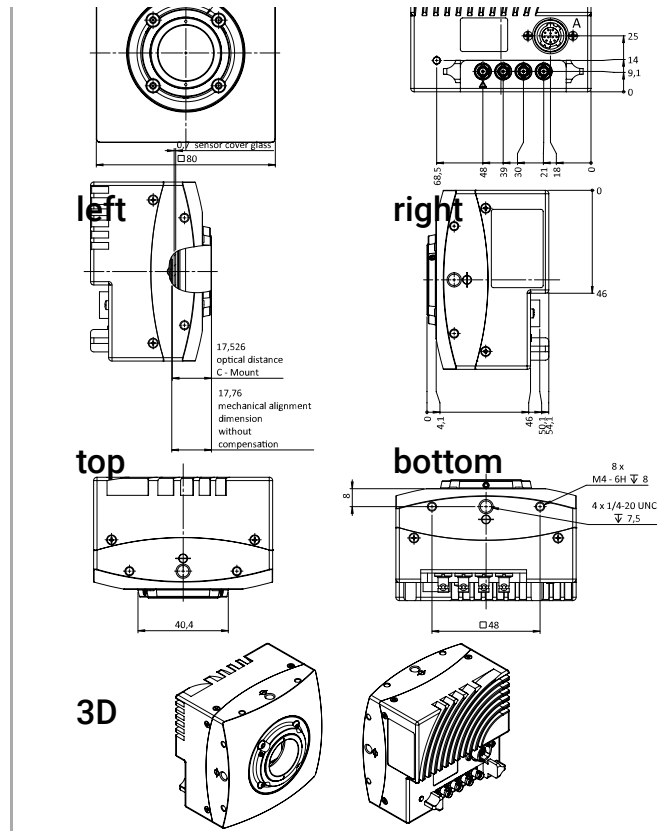
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.9 mm
Weight	500 g
Operating temperature (housing)	-10 to 65 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	70 g / 7 grms
Protection class	IP30

I/O-INTERFACES

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Input Galvanic	2 x
Output Galvanic	2 x
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Power consumption	13 W (dep. on operating mode)



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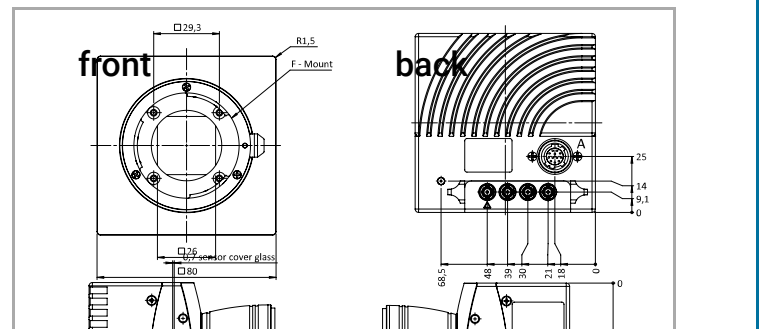
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Pixel format / max	mono8, mono10 / 10 bit

FEATURE SET

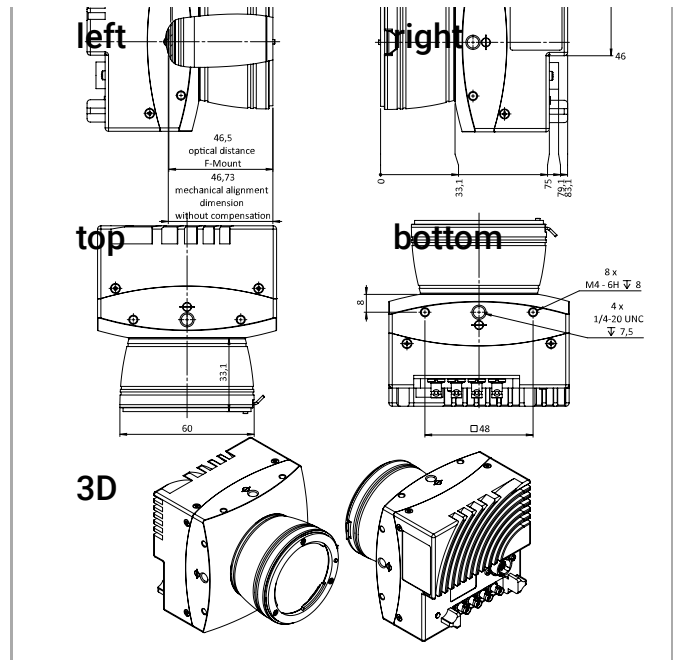
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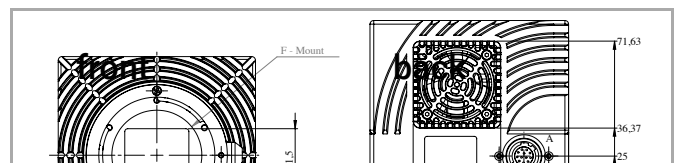
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Resolution [MP]	10 MP
Resolution (h x v)	4608 x 2176 px
Frame rate (max.)	478 fps



Chroma	color
Interface	CXP-12 with 4 Connections

SENSOR

Sensor	Gsprint 4510
Manufacturer	Gpixel
Sensor type	Area CMOS
Sensor size (h x v)	20.74 x 9.79 mm
Optical diagonal	22.93 mm
Sensor format	4/3 "
Pixel size (h x v)	4.5 x 4.5 µm

FRAME RATES

4608 x 2176	478 fps
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CAMERA

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal, CXP-Trigger
Exposure time (min)	4 µs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer12 / 12 bit
Dynamic range (max)	68.8 dB (dep. on environment)

FEATURE SET

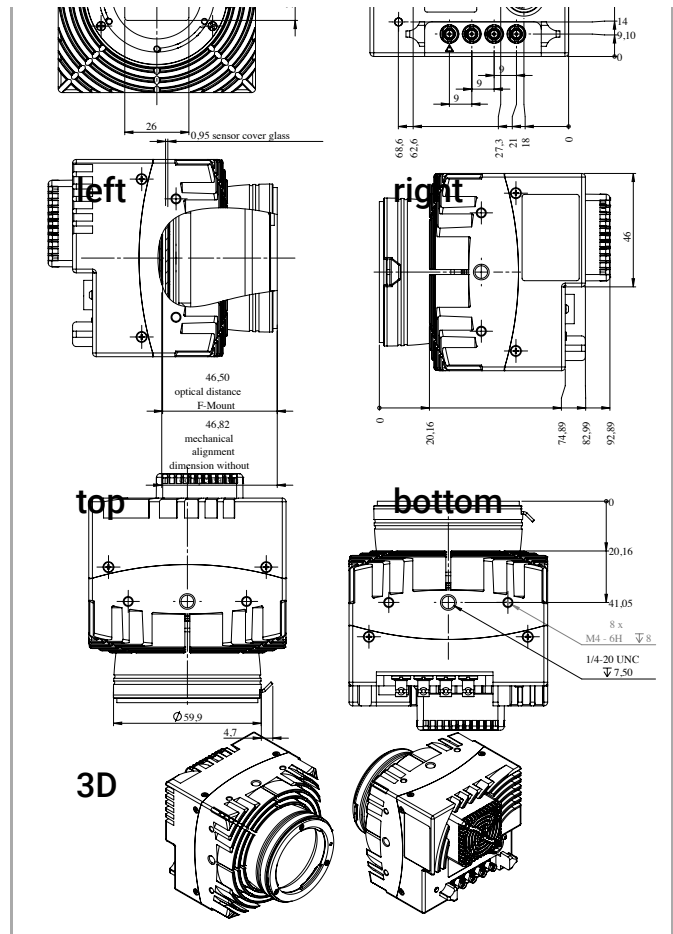
AOI	yes
Binning	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 92.9 mm
Weight	630 g
Ambient temperature	-10 to 65 °C
Protection class	IP30

I/O-INTERFACES

Input up to 24V	2 x
Input Galvanic	2 x
Output Galvanic	2 x
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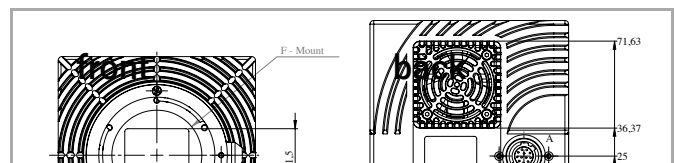
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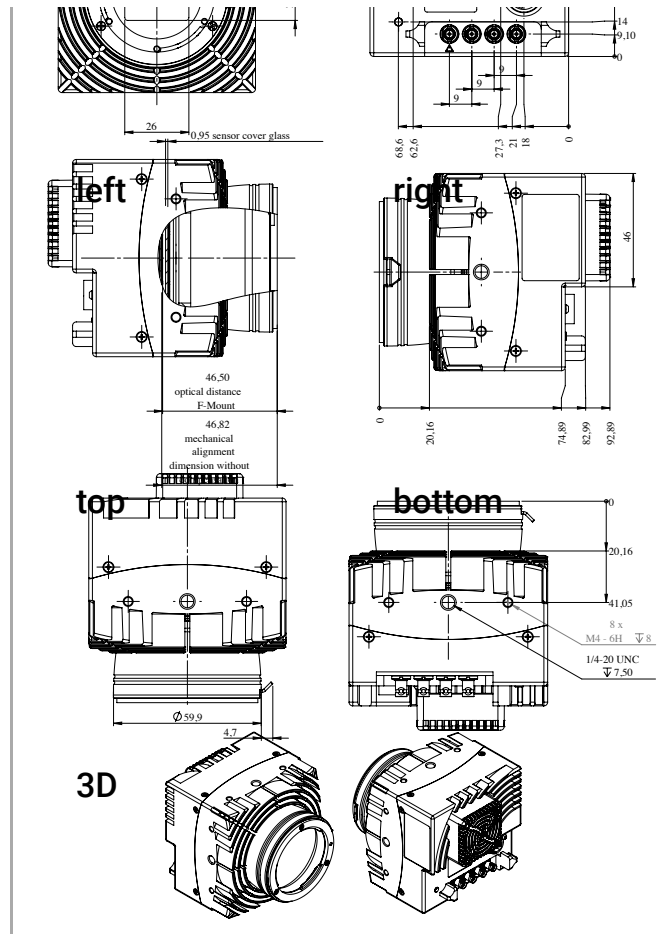
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Output Galvanic	2 x
Power supply	12 to 24 V (DC)
Power consumption	18.5 W (dep. on operating mode)



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EoSens® 21CCX12-FM

EoSens® CoaXPress12

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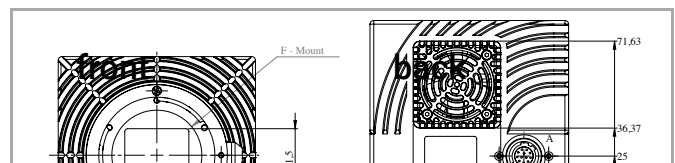
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SPECIFICATIONS

Resolution [MP]	21 MP
Resolution (h x v)	5120 x 4096 px
Frame rate (max.)	230 fps



Chroma	color
Interface	CXP-12 with 4 Connections

SENSOR

Sensor	Gsprint 4521
Manufacturer	Gpixel
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	23.04 x 18.43 mm
Optical diagonal	29.51 mm
Sensor format	29.5mm
Pixel size (h x v)	4.5 x 4.5 µm

FRAME RATES

5120 x 4096	230 fps
5120 x 3072	305 fps
5120 x 1024	891 fps
5120 x 128	5540 fps

CAMERA

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal, CXP-Trigger
Exposure time (min)	4 µs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer10, bayer12 / 12 bit

FEATURE SET

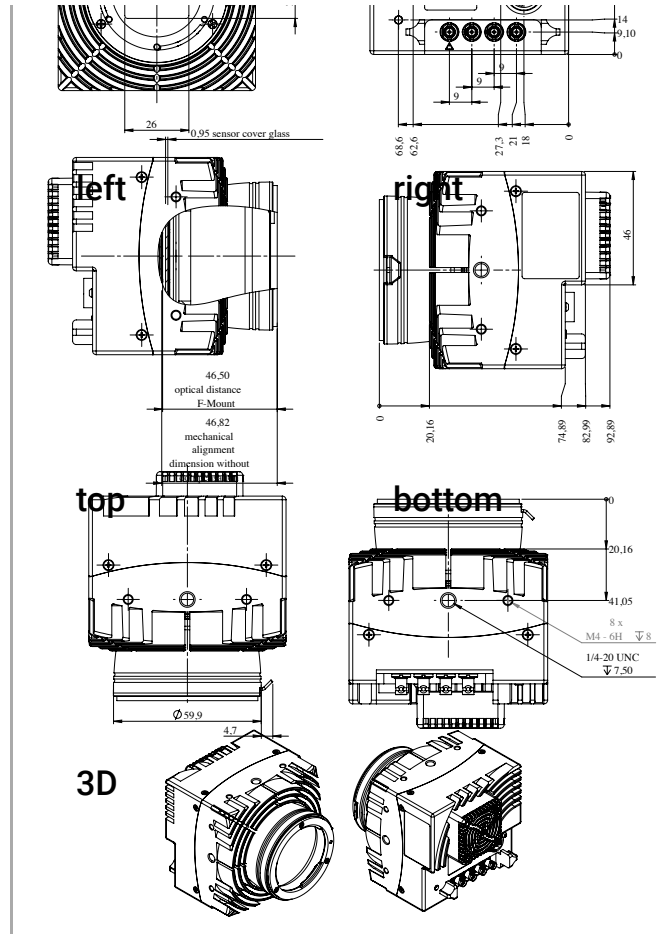
AOI	yes
Binning	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 92.9 mm
Weight	630 g
Ambient temperature	-10 to 65 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	70 g / 7 grms
Protection class	IP30

I/O-INTERFACES

Input up to 24V	2 x
Input Galvanic	2 x
Output Galvanic	2 x
Power supply	12 to 24 V (DC)
Power consumption	21 W (dep. on operating mode)



For more information please contact:



BOCK OPTONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
sales@bockoptronics.ca
www.bockoptronics.ca



EoSens® 21MCX12-FM

EoSens® CoaXPress12

High-Speed with CoaXPress-12

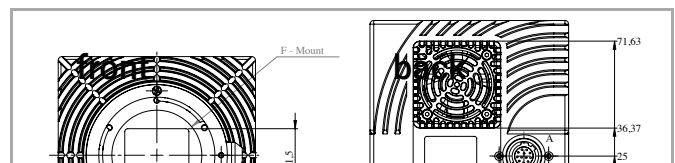
Mikrotron CoaXPress-12 cameras comply with the CoaXPress 2.0 specification and transmit at 4 lanes up to 50Gbit/s. They meet the highest requirements for minimum latency and jitter. They satisfy most stringent requirements for minimum latency and jitter. The cameras are very light sensitive and support multiple binning modes and ROIs depending on the model.

Technical Highlights:

- scalable interface with 1, 2 or 4 connections
- complies with CoaXPress 2.0 standard, compatible with CXP 1.0 standard
- light sensitive sensor
- only 80 x 80 x 66 mm small
- Shock and vibration resistant

SPECIFICATIONS

Resolution [MP]	21 MP
Resolution (h x v)	5120 x 4096 px
Frame rate (max.)	230 fps



Chroma	mono
Interface	CXP-12 with 4 Connections

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FEATURE SET

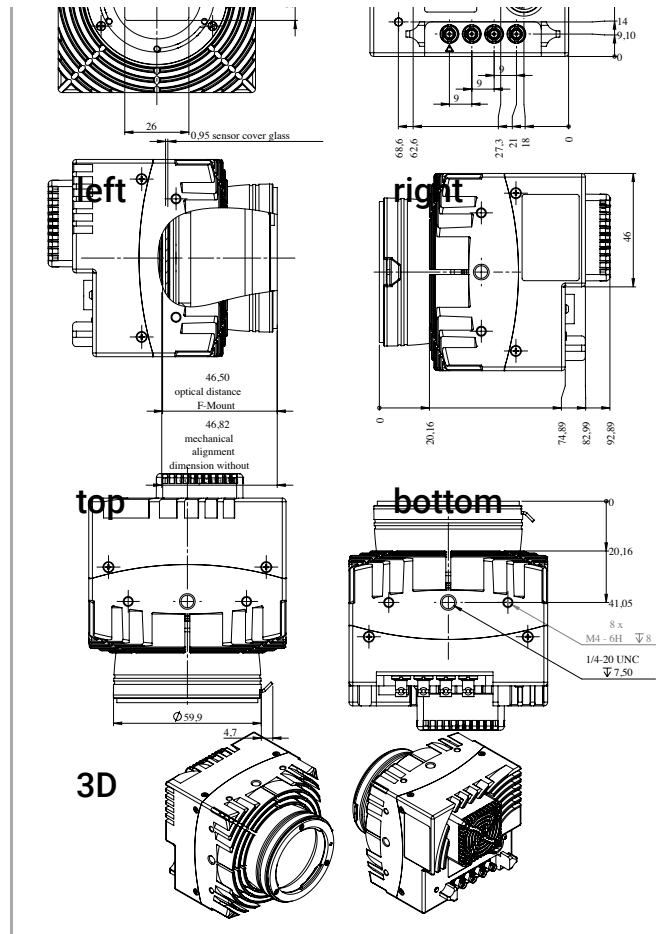
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