



EoSens® Creation1.1CCX12- CM2

Creation CoaXPress12



The EoSens EoSens® Creation CoaXPress offers excellent high-speed image quality with highest data rates and a powerful CoaXPress-12 interface. With its open camera concept, it allows the application-specific internal processing of images at up to 50Gbit/s. It can perform image pre-processing as well as complete image processing in real time and deliver only the user-programmed, finished results.

Technical Highlights:

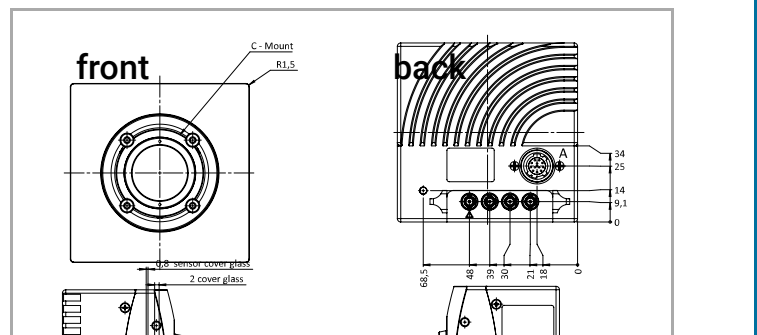
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

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

SENSOR

Sensor	LUX13HS
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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

Resolution	capture & process	output
1280 x 864	3674 fps	3674 fps
1280 x 768	4151 fps	4151 fps
640 x 480	6576 fps	6576 fps
128 x 128	23821 fps	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
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

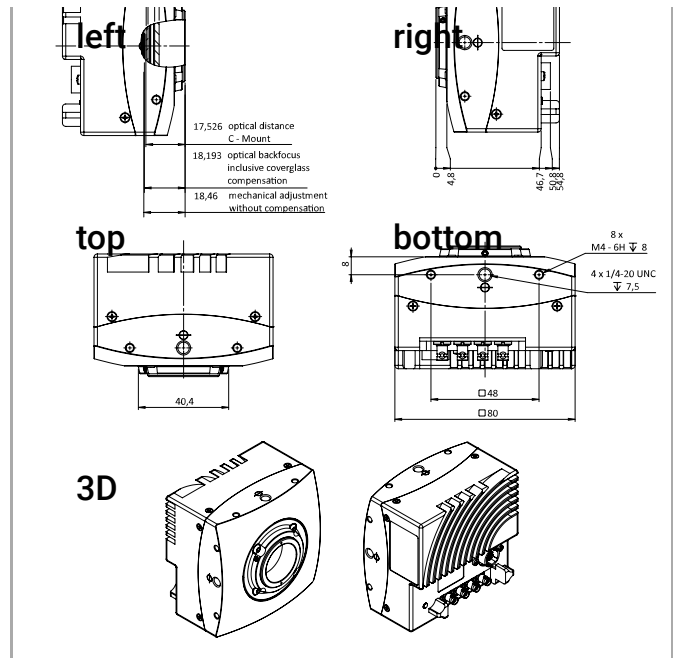
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.3 mm
Weight	500 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	11 W (dep. on operating mode)



For more information please contact:



BOCK OPTRONICS INC.

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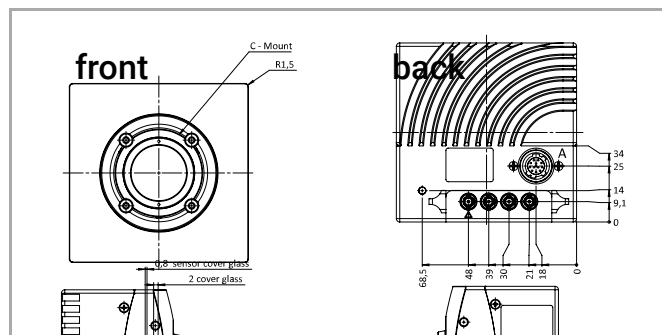
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Exposure time (min)	2 µs
Exposure time (max)	1 sec (external ∞)
Pixel format / max	bayer8, bayer10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

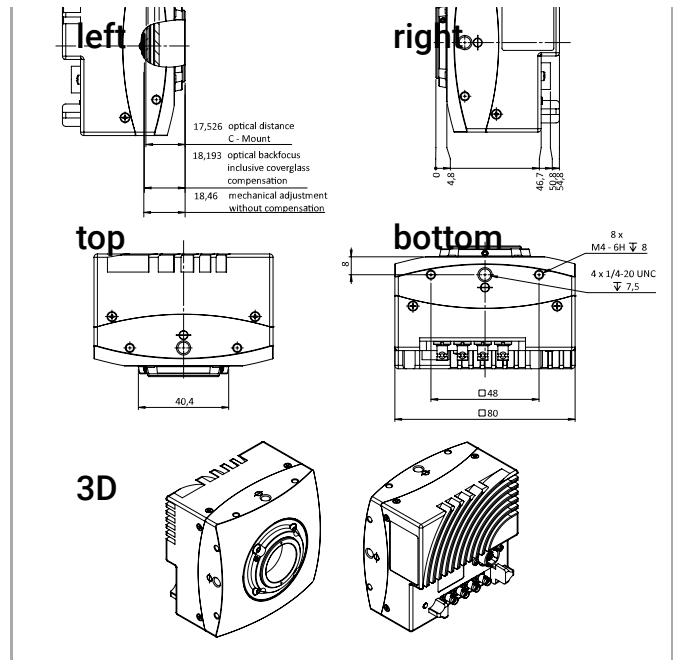
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.3 mm
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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)
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EoSens® Creation1.1CCX12- CMF2

Creation CoaXPress12



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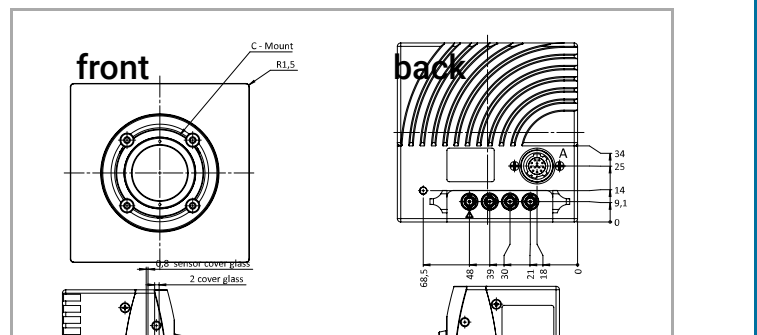
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Dynamic range (max)	56 dB (dep. on environment)
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

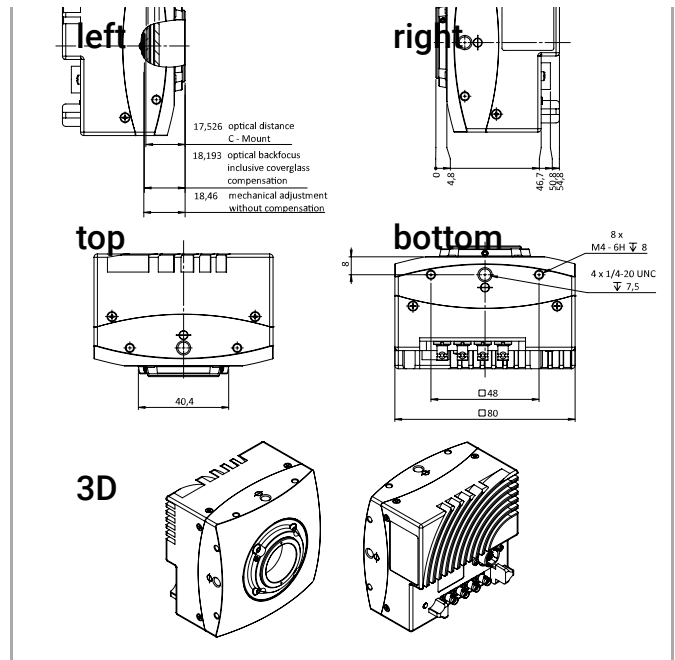
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Shading correction	yes
Defect pixel correction	yes

HOUSING

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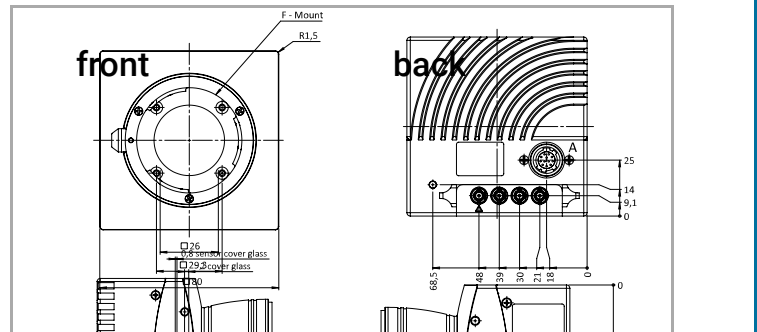
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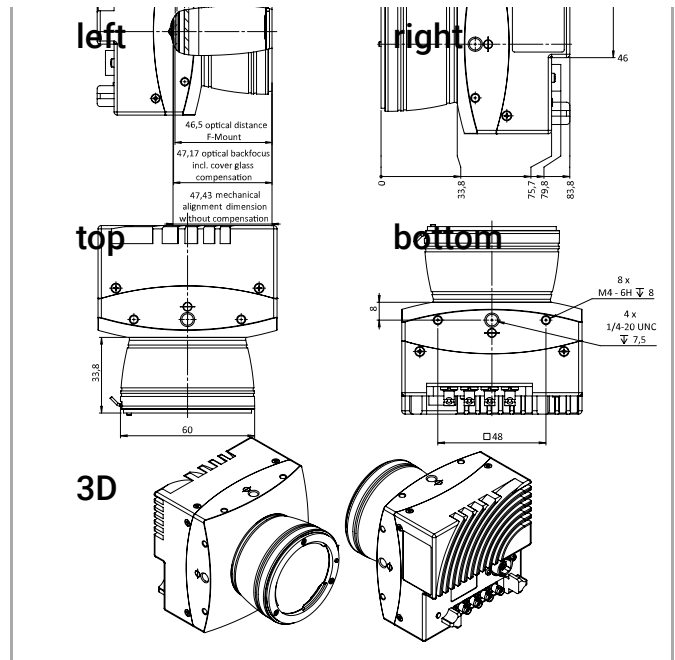
AOI	yes
Shading correction	yes
Defect pixel correction	yes

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
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Shock / Vibration proof	70 g / 7 grms
Protection class	IP30

I/O-INTERFACES

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EoSens® Creation1.1CCX12- FMD2

Creation CoaXPress12



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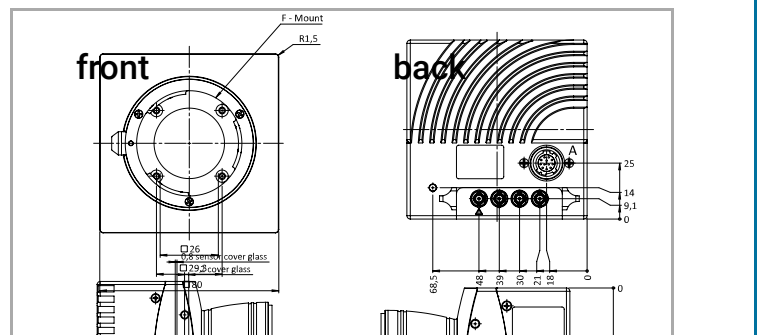
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FEATURE SET

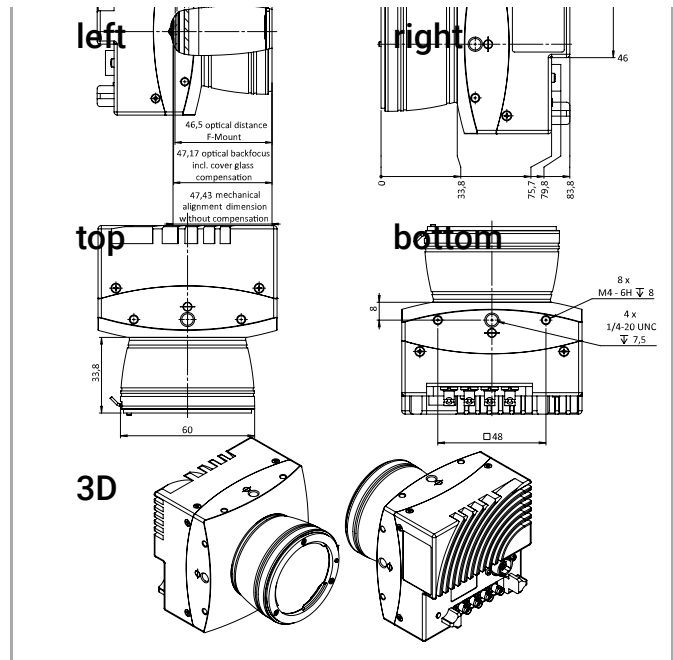
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
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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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EoSens® Creation1.1CCX12- FMF2

Creation CoaXPress12



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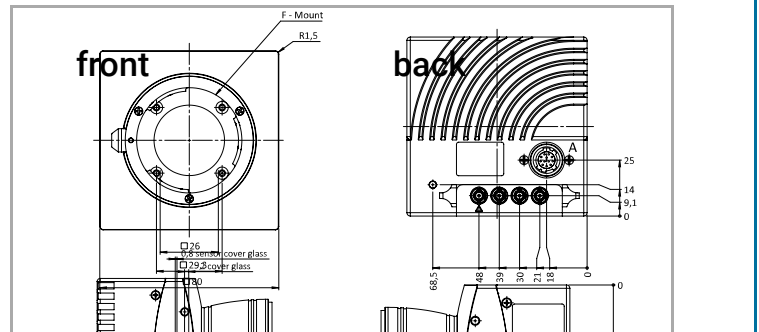
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SENSOR

Sensor	LUX13HS
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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
Dynamic range (max)	56 dB (dep. on environment)
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

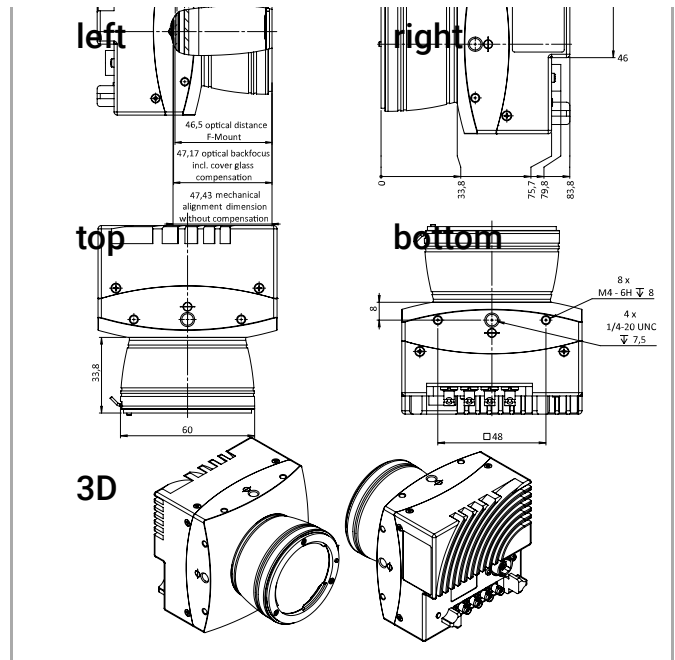
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HOUSING

Lens mount	F-Mount
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I/O-INTERFACES

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Input Galvanic	2 x
Output Galvanic	2 x
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Power consumption	11 W (dep. on operating mode)



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EoSens® Creation2.0CCX12- FMD2

Creation CoaXPress12

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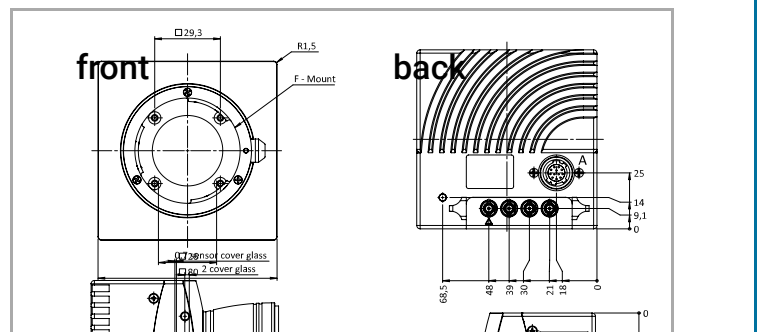
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- IP protection concept for encryption of application specific programming

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
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EoSens® Creation 1.1 MCX12- CMD2

Creation CoaXPress12

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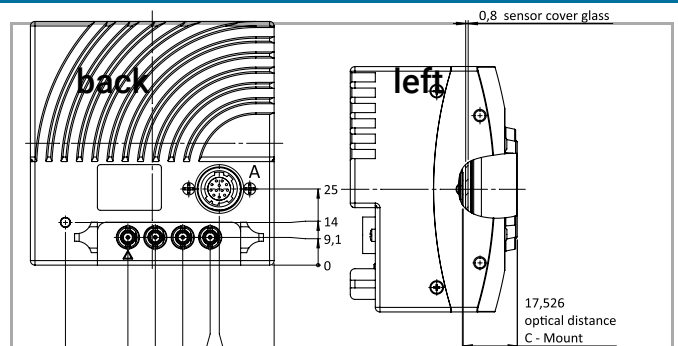
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Resolution [MP]	1.1 MP
Resolution (h x v)	1280 x 864 px
Frame rate (max.)	3674 fps
Chroma	mono
Interface	CXP-12 with 4 Connections

SENSOR

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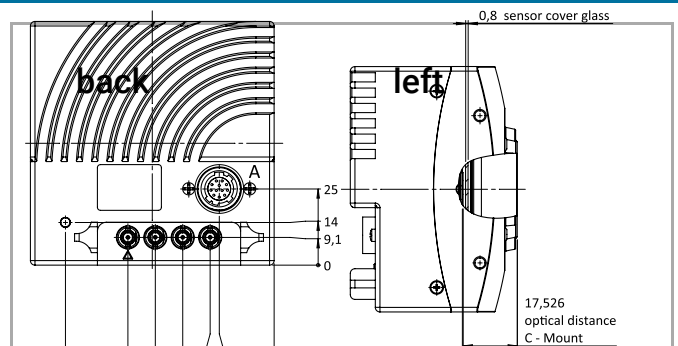
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Trigger modes	Button, External TTL Signal, CXP-Trigger
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Exposure time (max)	1 sec (external ∞)
Pixel format / max	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

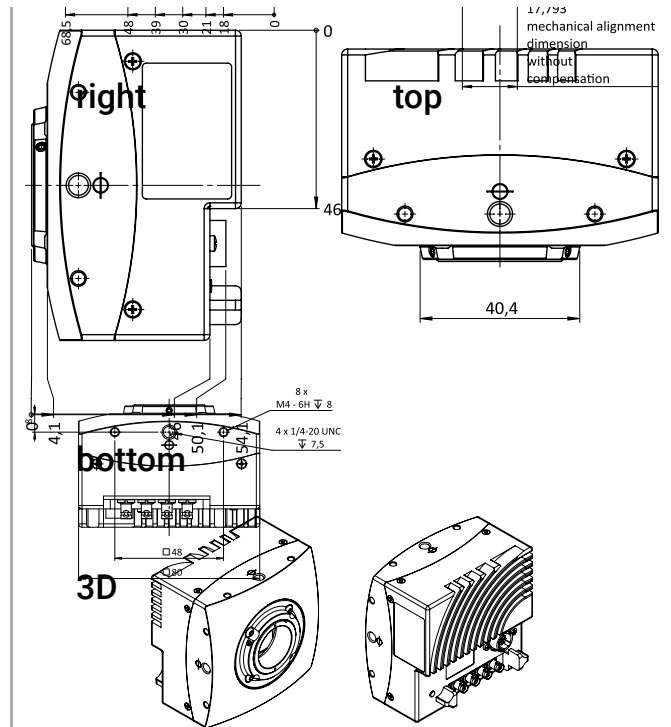
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.3 mm
Weight	500 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

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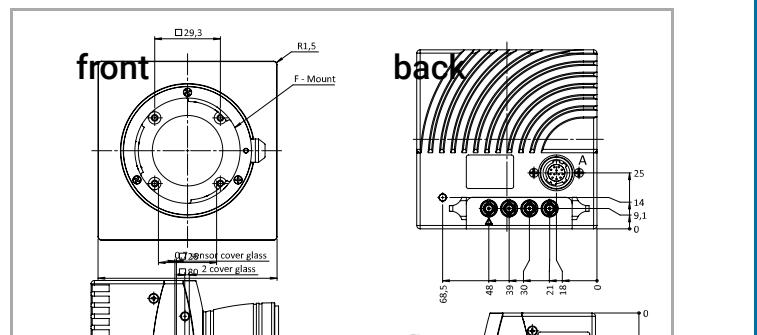
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Chroma	color
Interface	CXP-12 with 4 Connections

SENSOR

Sensor	Lux19HS
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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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

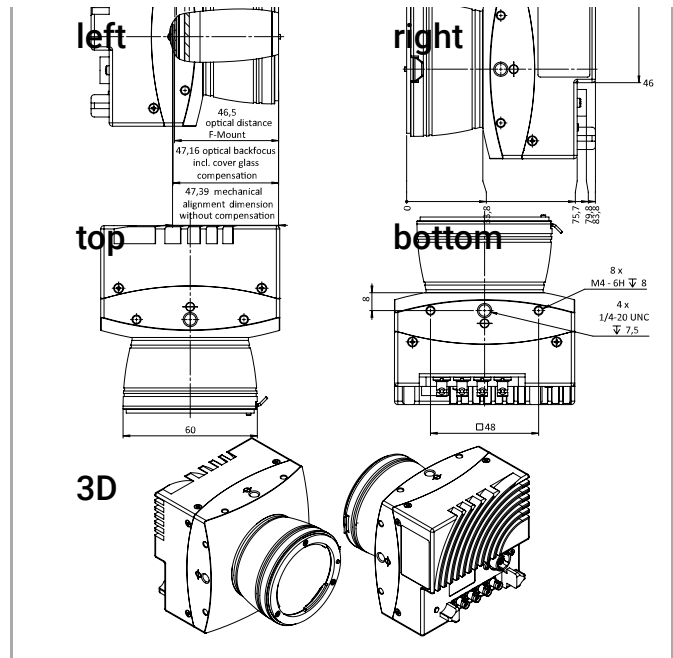
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 83.9 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	11 W (dep. on operating mode)



For more information please contact:



BOCK OPTRONICS INC.

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www.bockoptronics.ca



EoSens® Creation1.1MCX12- CMF2

Creation CoaXPress12



The EoSens® Creation CoaXPress offers excellent high-speed image quality with highest data rates and a powerful CoaXPress-12 interface. With its open camera concept, it allows the application-specific internal processing of images at up to 50Gbit/s. It can perform image pre-processing as well as complete image processing in real time and deliver only the user-programmed, finished results.

Technical Highlights:

- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	1.1 MP
Resolution (h x v)	1280 x 864 px
Frame rate (max.)	3674 fps
Chroma	mono
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

Resolution	capture & process	output
1280 x 864	3674 fps	3674 fps
1280 x 768	4151 fps	4151 fps
640 x 480	6576 fps	6576 fps
128 x 128	23821 fps	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	mono8, mono10 / 10 bit
Dynamic range (max)	56 dB (dep. on environment)
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.3 mm
Weight	500 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	11 W (dep. on operating mode)

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EoSens® Creation2.0CCX12- FMF2

Creation CoaXPress12



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Technical Highlights:

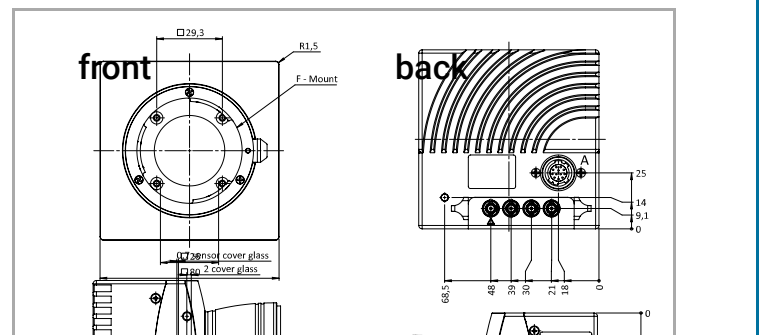
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

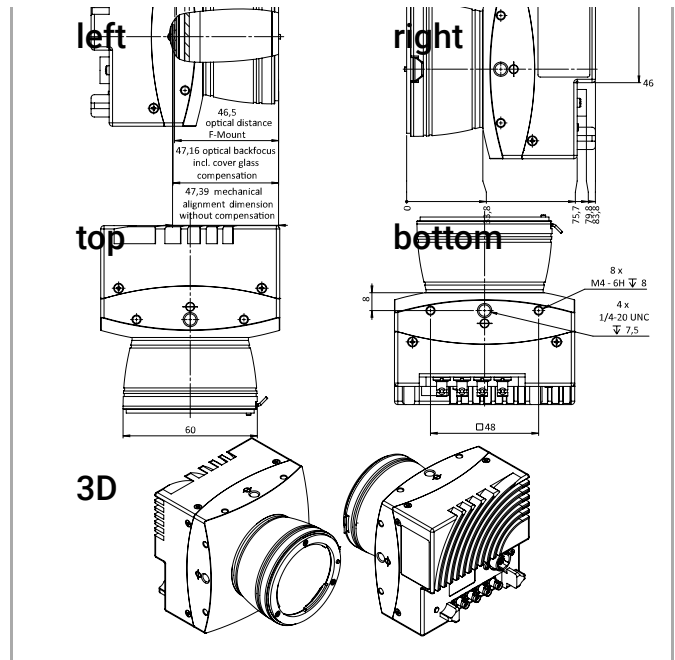
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 93.9 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	11 W (dep. on operating mode)



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EoSens® Creation 1.1 MCX12- FM2

Creation CoaXPress12

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Technical Highlights:

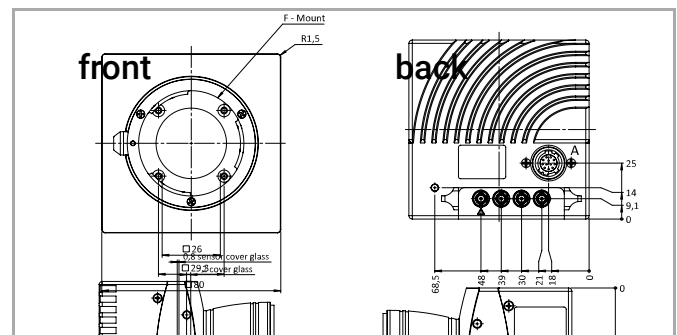
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	1.1 MP
Resolution (h x v)	1280 x 864 px
Frame rate (max.)	3674 fps
Chroma	mono
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

Resolution	capture & process	output
1280 x 864	3674 fps	3674 fps
1280 x 768	4151 fps	4151 fps
640 x 480	6576 fps	6576 fps
128 x 128	23821 fps	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	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

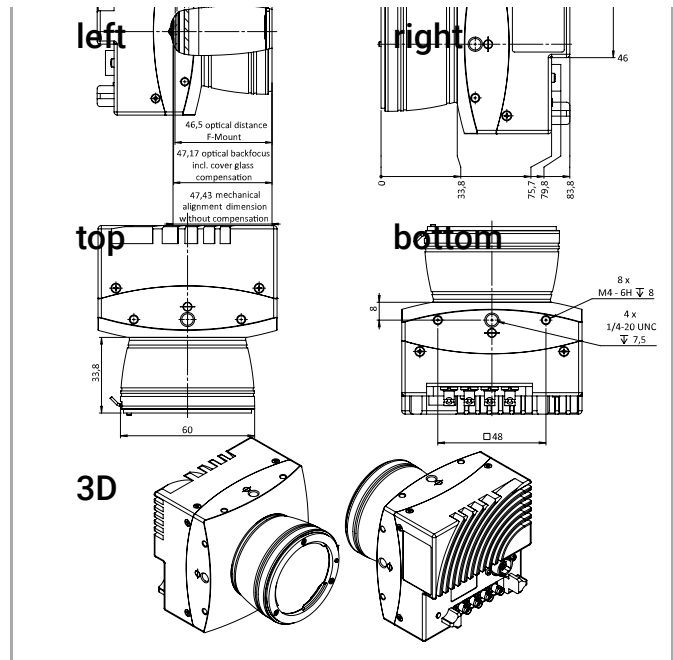
AOI	yes
Shading correction	yes
Defect pixel correction	yes

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	11 W (dep. on operating mode)



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EoSens® Creation2.0MCX12- CM2

Creation CoaXPress12



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Technical Highlights:

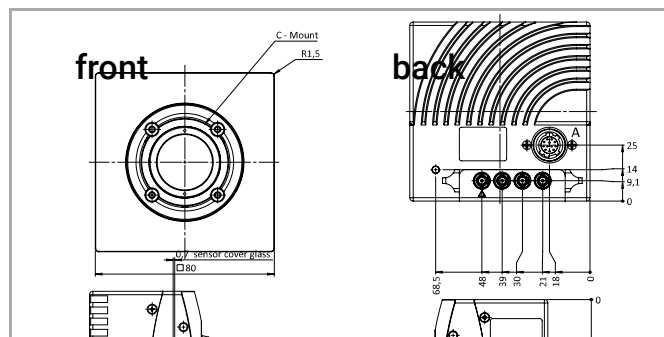
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	2247 fps
Chroma	mono
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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

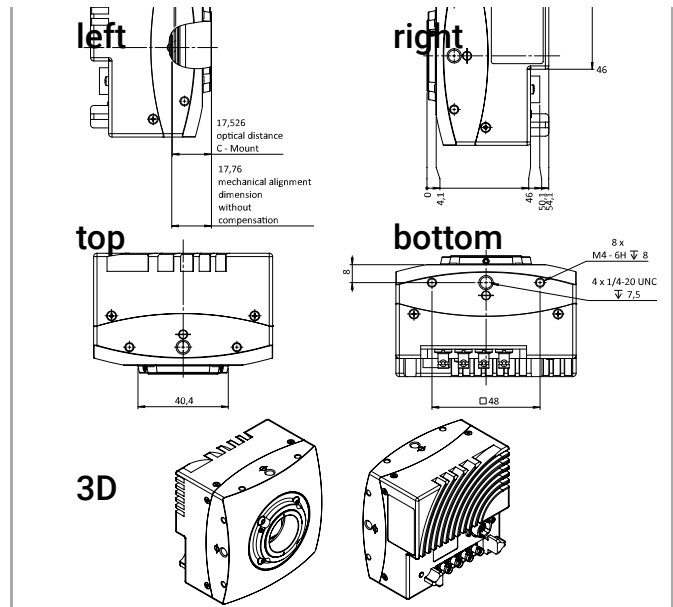
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.9 mm
Weight	500 g
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	11 W (dep. on operating mode)



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EoSens[®] Creation 1.1 MCX12- FMD2

Creation CoaXPress12

The EoSens EoSens[®] Creation CoaXPress offers excellent high-speed image quality with highest data rates and a powerful CoaXPress-12 interface. With its open camera concept, it allows the application-specific internal processing of images at up to 50Gbit/s. It can perform image pre-processing as well as complete image processing in real time and deliver only the user-programmed, finished results.

Technical Highlights:

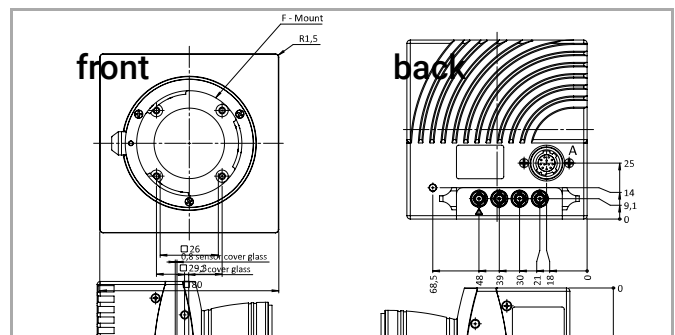
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	1.1 MP
Resolution (h x v)	1280 x 864 px
Frame rate (max.)	3674 fps
Chroma	mono
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

Resolution	capture & process	output
1280 x 864	3674 fps	3674 fps
1280 x 768	4151 fps	4151 fps
640 x 480	6576 fps	6576 fps
128 x 128	23821 fps	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	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

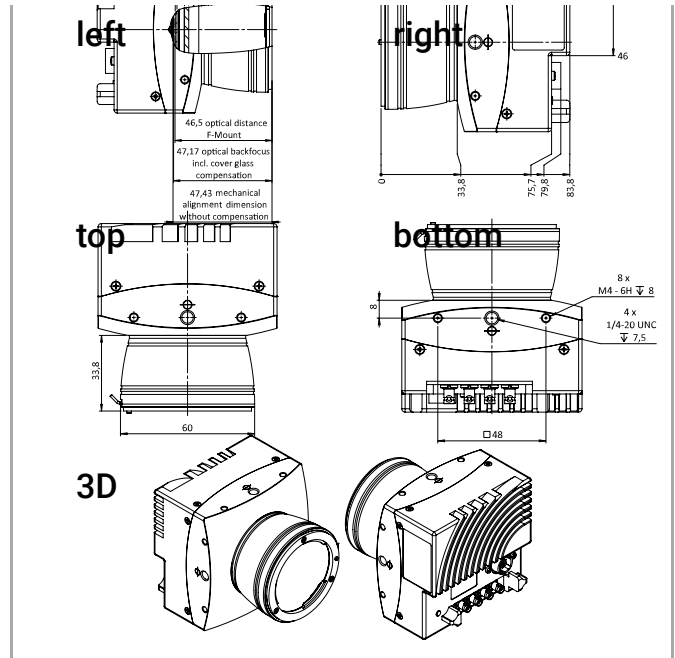
AOI	yes
Shading correction	yes
Defect pixel correction	yes

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	11 W (dep. on operating mode)



For more information please contact:



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EoSens® Creation2.0MCX12- CMD2

Creation CoaXPress12



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Technical Highlights:

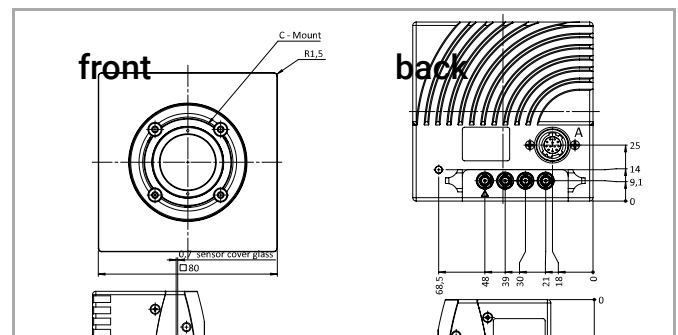
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	2247 fps
Chroma	mono
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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

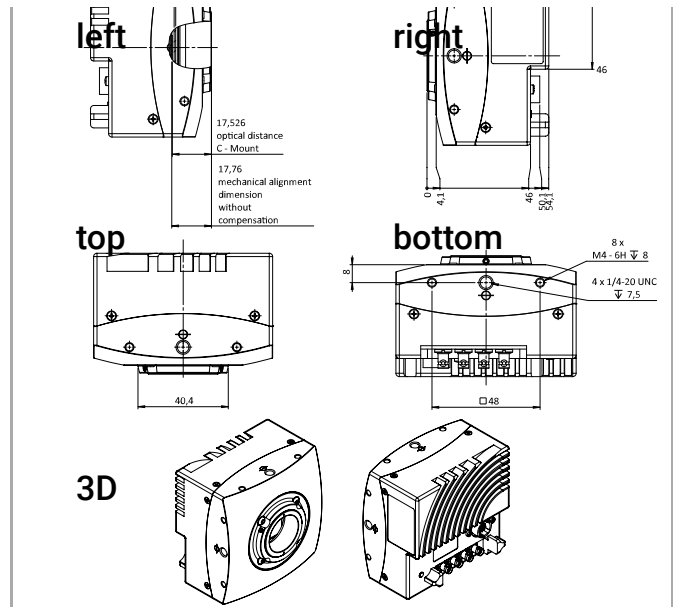
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.9 mm
Weight	500 g
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	11 W (dep. on operating mode)



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EoSens® Creation1.1MCX12- FMF2

Creation CoaXPress12



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Technical Highlights:

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- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	1.1 MP
Resolution (h x v)	1280 x 864 px
Frame rate (max.)	3674 fps
Chroma	mono
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

Resolution	capture & process	output
1280 x 864	3674 fps	3674 fps
1280 x 768	4151 fps	4151 fps
640 x 480	6576 fps	6576 fps
128 x 128	23821 fps	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	mono8, mono10 / 10 bit
Dynamic range (max)	56 dB (dep. on environment)
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

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	11 W (dep. on operating mode)

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EoSens® Creation2.0MCX12- CMF2

Creation CoaXPress12



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Technical Highlights:

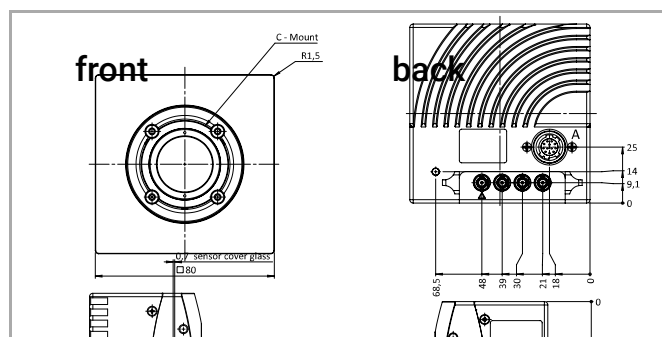
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	2247 fps
Chroma	mono
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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

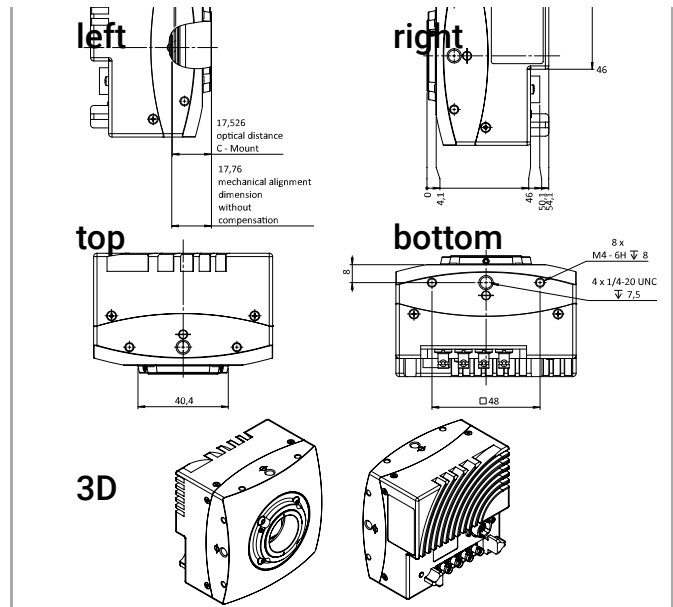
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 64.9 mm
Weight	500 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	11 W (dep. on operating mode)



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EoSens® Creation2.0CCX12- CM2

Creation CoaXPress12

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Technical Highlights:

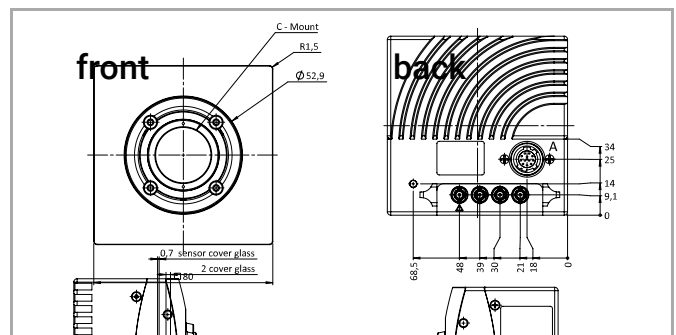
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

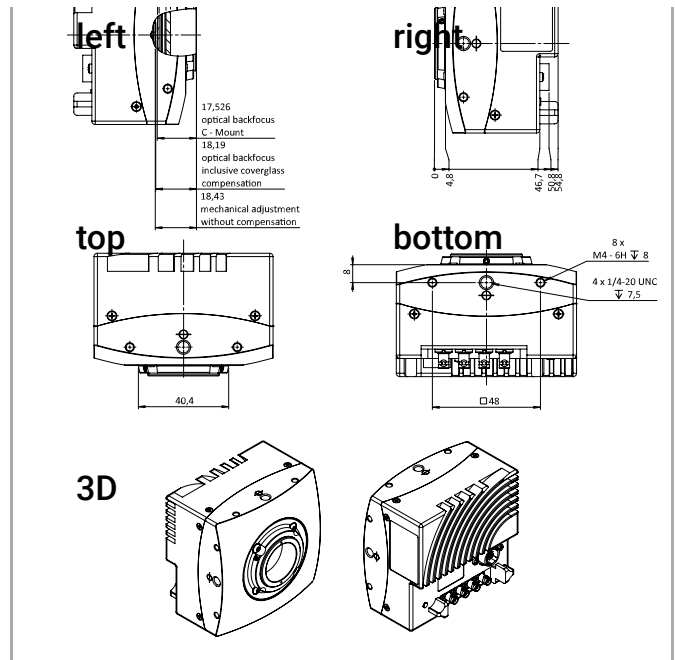
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.9 mm
Weight	500 g
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	11 W (dep. on operating mode)



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EoSens® Creation2.0MCX12- FM2

Creation CoaXPress12

The EoSens EoSens® Creation CoaXPress offers excellent high-speed image quality with highest data rates and a powerful CoaXPress-12 interface. With its open camera concept, it allows the application-specific internal processing of images at up to 50Gbit/s. It can perform image pre-processing as well as complete image processing in real time and deliver only the user-programmed, finished results.

Technical Highlights:

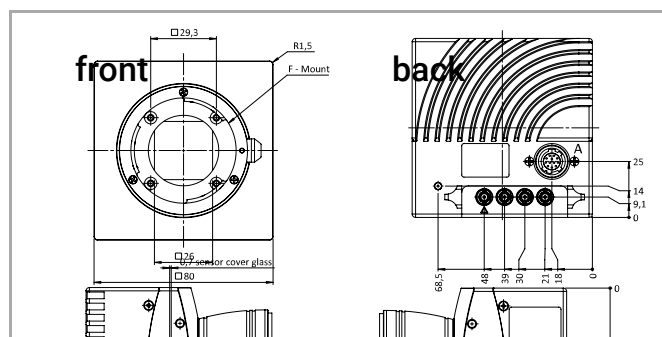
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	2247 fps
Chroma	mono
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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

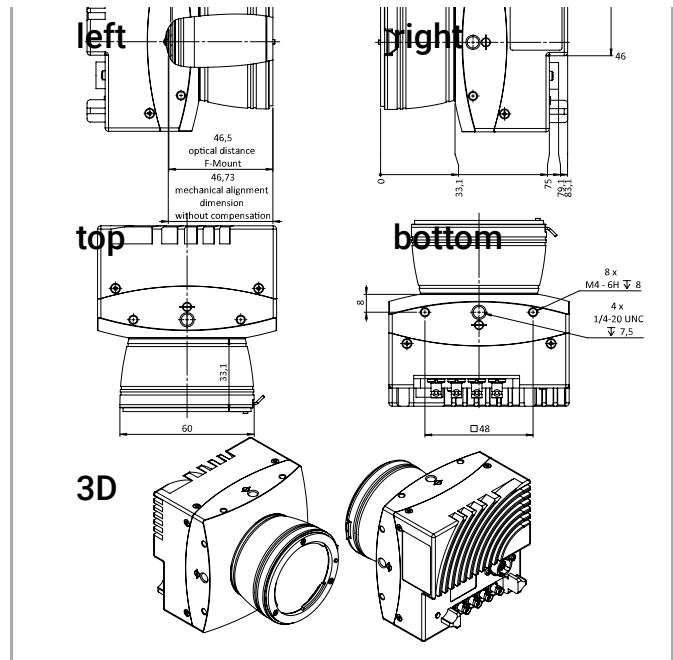
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 83.9 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	11 W (dep. on operating mode)



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EoSens® Creation2.0CCX12- CMD2

Creation CoaXPress12

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Technical Highlights:

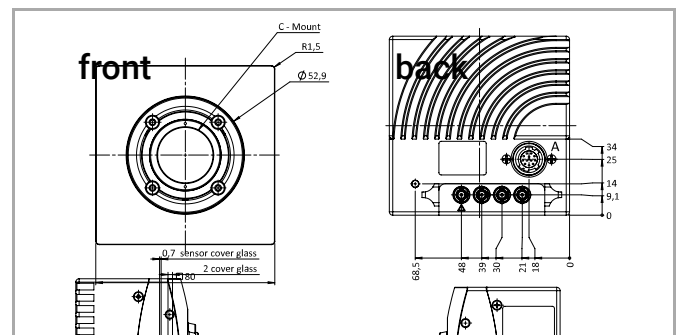
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

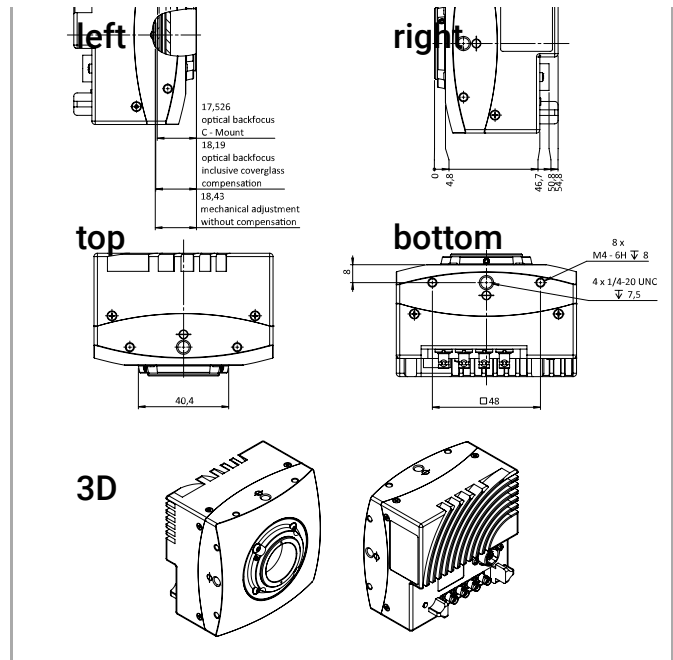
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 54.9 mm
Weight	500 g
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	11 W (dep. on operating mode)



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EoSens® Creation2.0MCX12- FMD2

Creation CoaXPress12

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Technical Highlights:

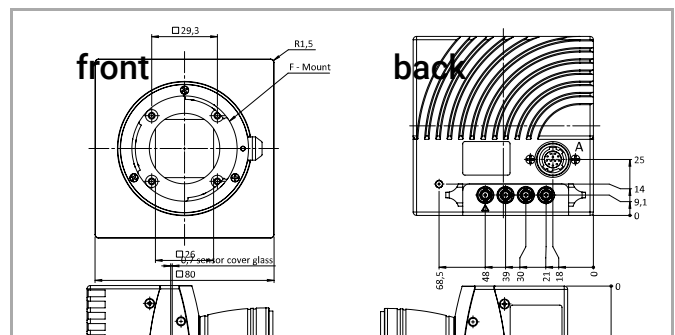
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	2247 fps
Chroma	mono
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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

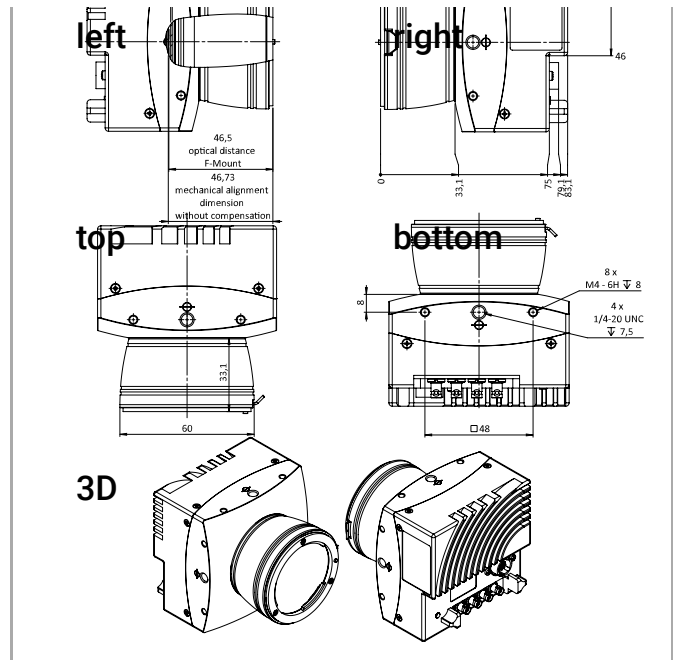
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 83.9 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	11 W (dep. on operating mode)



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EoSens® Creation2.0CCX12- CMF2

Creation CoaXPress12



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Technical Highlights:

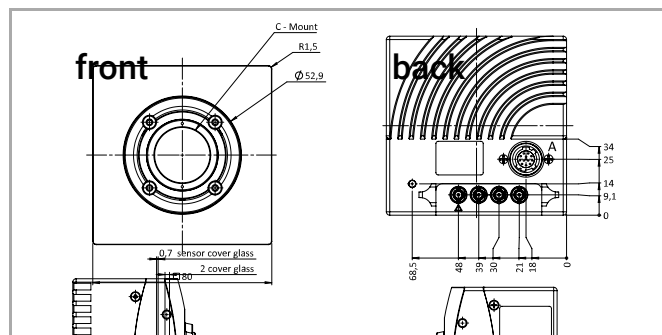
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

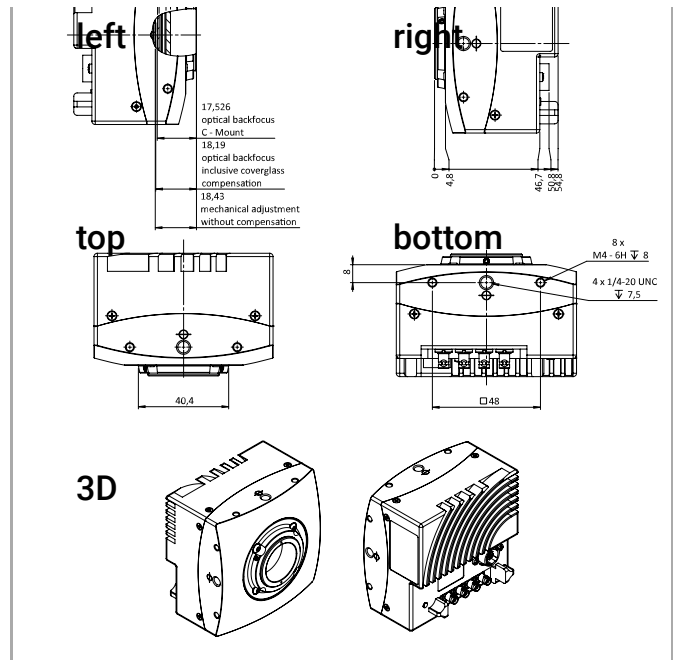
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 64.9 mm
Weight	500 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	11 W (dep. on operating mode)



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EoSens® Creation2.0MCX12- FMF2

Creation CoaXPress12

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Technical Highlights:

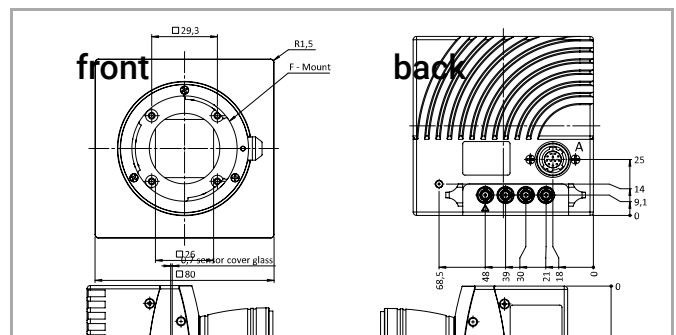
- High-speed image sensor
- Open platform concept
- powerful CoaXPress-12 interface
- clear separation between basic function and application IP
- Powerful, fast Xilinx FPGA with additional external memory
- Higher image and data rates can be used up to the performance limit of the sensor
- IP protection concept for encryption of application specific programming

SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	2247 fps
Chroma	mono
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

Resolution	capture & process	output
1920 x 1080	2247 fps	2247 fps
1024 x 768	3152 fps	2967 fps
640 x 480	5020 fps	5020 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	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	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

FEATURE SET

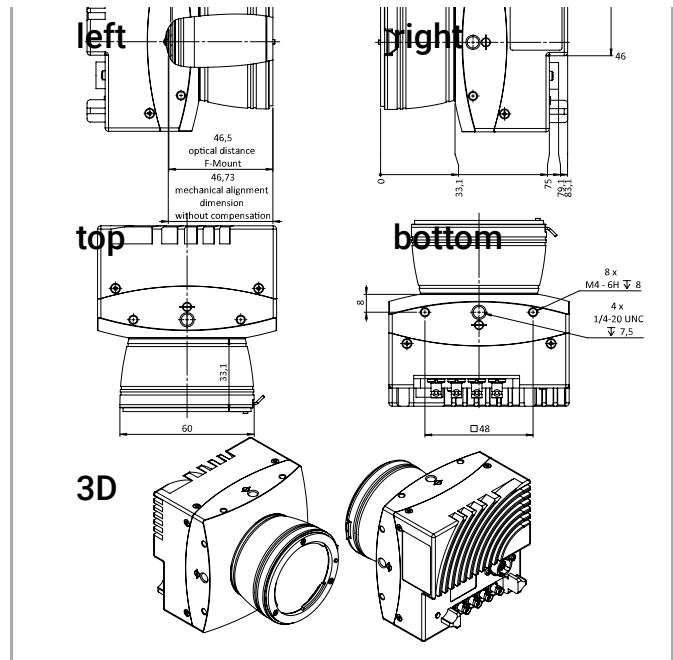
AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 93.9 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	11 W (dep. on operating mode)



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