



For more information please contact:

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

Tel: (416) 674-2804  
[sales@bockoptronics.ca](mailto:sales@bockoptronics.ca)  
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# EoSens® Creation2.0CXGE- CM2

Creation 10GigE

## High-Speed Processing at the edge

The EoSensEoSens® Creation 10GigE offers excellent high-speed image quality with the highest data rates. With its open camera concept, it allows application-specific internal processing of the images at a data rate of up to 50Gbit/s. The Creation is suitable for image pre-processing as well as complete image processing in real time and deliver only the user-programmed, finished results.

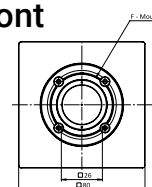
### Technical Highlights:

- High-speed image sensor
- extremely fast internal data processing
- economical 10GigE interface
- can also be operated as a standard machine vision camera

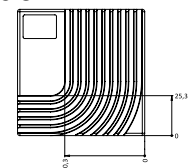
#### SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	536 fps
Chroma	color
Interface	10GigE

front



back



**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	536 fps
1024 x 768	3152 fps	1421 fps
640 x 480	5020 fps	3570 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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**

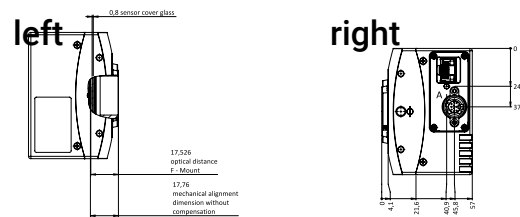
AOI	yes
Shading correction	yes
Defect pixel correction	yes
POE	yes

**HOUSING**

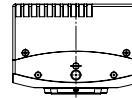
Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 57.2 mm
Weight	500 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	70 g / 7 grms
Protection class	IP30

**I/O-INTERFACES**

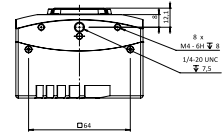
Input up to 24V	2 x
Input Galvanic	2 x
Output Galvanic	2 x
Power supply	12 to 24 V (DC)
Power consumption	13 W (dep. on operating mode)



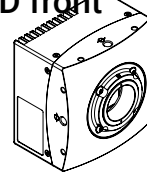
top



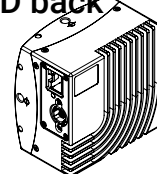
bottom



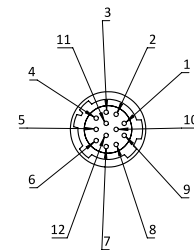
3D front



3D back

**PINOUT MATING CONNECTOR**

Pin	Hirose Pinout
1	GND
2	VCC (12 - 24V)
3	IO GND
4	OUT 0
5	IO GND
6	IN 0
7	IO GND
8	OUT 1
9	IO GND
10	IN 1
11	VCC (12 - 24V)
12	GND





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Creation 10GigE

## High-Speed Processing at the edge

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- can also be operated as a standard machine vision camera

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Resolution [MP]	2 MP
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Interface	10GigE

**SENSOR**

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Sensor type	Area CMOS
Shutter type	global shutter
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Sensor format	4/3 "
Pixel size (h x v)	10 x 10 µm

**FRAME RATES**

<b>Resolution</b>	<b>capture &amp; process</b>	<b>output</b>
1920 x 1080	2247 fps	536 fps
1024 x 768	3152 fps	1421 fps
640 x 480	5020 fps	3570 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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
POE	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 57.2 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	13 W (dep. on operating mode)

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# EoSens® Creation2.0CXGE- CMF2

Creation 10GigE

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### Technical Highlights:

- High-speed image sensor
- extremely fast internal data processing
- economical 10GigE interface
- can also be operated as a standard machine vision camera

#### SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	536 fps
Chroma	color
Interface	10GigE

**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**

<b>Resolution</b>	<b>capture &amp; process</b>	<b>output</b>
1920 x 1080	2247 fps	536 fps
1024 x 768	3152 fps	1421 fps
640 x 480	5020 fps	3570 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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
POE	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 67.2 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	13 W (dep. on operating mode)

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# EoSens® Creation2.0CXGE- FM2

Creation 10GigE

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### Technical Highlights:

- High-speed image sensor
- extremely fast internal data processing
- economical 10GigE interface
- can also be operated as a standard machine vision camera

#### SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	536 fps
Chroma	color
Interface	10GigE

**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**

<b>Resolution</b>	<b>capture &amp; process</b>	<b>output</b>
1920 x 1080	2247 fps	536 fps
1024 x 768	3152 fps	1421 fps
640 x 480	5020 fps	3570 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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
POE	yes

**HOUSING**

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 86 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	13 W (dep. on operating mode)

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# EoSens® Creation2.0CXGE- FMD2

Creation 10GigE

## High-Speed Processing at the edge

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### Technical Highlights:

- High-speed image sensor
- extremely fast internal data processing
- economical 10GigE interface
- can also be operated as a standard machine vision camera

#### SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	536 fps
Chroma	color
Interface	10GigE

**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**

<b>Resolution</b>	<b>capture &amp; process</b>	<b>output</b>
1920 x 1080	2247 fps	536 fps
1024 x 768	3152 fps	1421 fps
640 x 480	5020 fps	3570 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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
POE	yes

**HOUSING**

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 86 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	13 W (dep. on operating mode)

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# EoSens® Creation2.0CXGE- FMF2

Creation 10GigE

## High-Speed Processing at the edge

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- economical 10GigE interface
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#### SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	536 fps
Chroma	color
Interface	10GigE

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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**

<b>Resolution</b>	<b>capture &amp; process</b>	<b>output</b>
1920 x 1080	2247 fps	536 fps
1024 x 768	3152 fps	1421 fps
640 x 480	5020 fps	3570 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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
POE	yes

**HOUSING**

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 96 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)
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# EoSens® Creation2.0MXGE- CM2

Creation 10GigE

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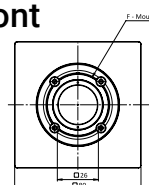
### Technical Highlights:

- High-speed image sensor
- extremely fast internal data processing
- economical 10GigE interface
- can also be operated as a standard machine vision camera

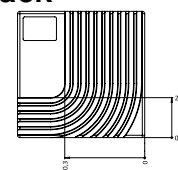
#### SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	536 fps
Chroma	mono
Interface	10GigE

front



back



**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	536 fps
1024 x 768	3152 fps	1421 fps
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1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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**

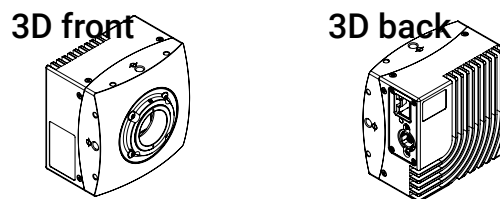
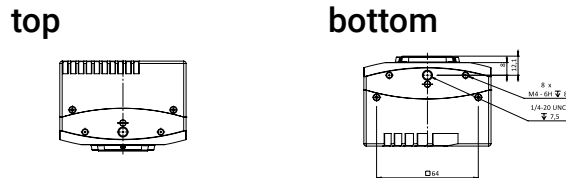
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POE	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 57.2 mm
Weight	500 g
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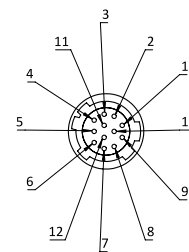
**I/O-INTERFACES**

Input up to 24V	2 x
Input Galvanic	2 x
Output Galvanic	2 x
Power supply	12 to 24 V (DC)
Power consumption	13 W (dep. on operating mode)



**PINOUT MATING CONNECTOR**

Pin	Hirose Pinout
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4	OUT 0
5	IO GND
6	IN 0
7	IO GND
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9	IO GND
10	IN 1
11	VCC (12 - 24V)
12	GND





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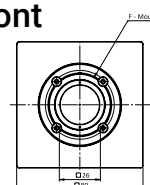
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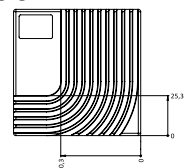
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Pixel format / max	mono8, mono10 / 10 bit
Internal memory	2000 MB SDRAM
FPGA-Type	Kintex UltraScale KU035-2, 2 GB DDR4

**FEATURE SET**

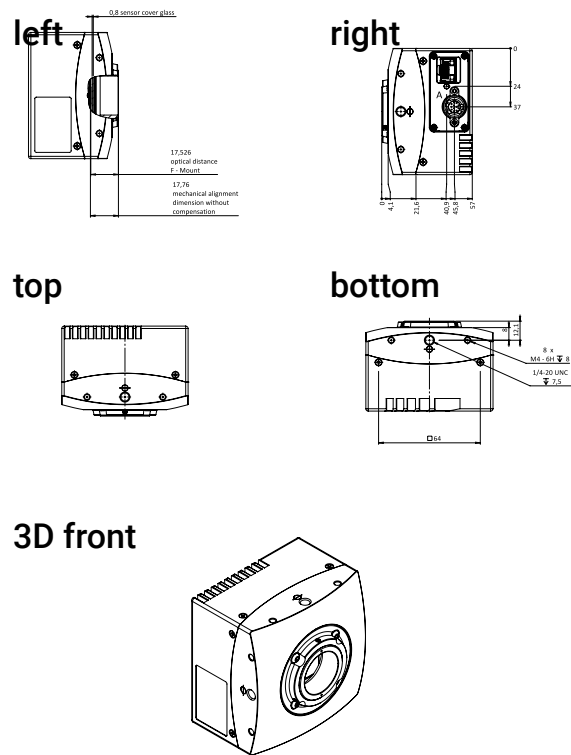
AOI	yes
Shading correction	yes
Defect pixel correction	yes
POE	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 57.2 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	13 W (dep. on operating mode)



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[www.bockoptronics.ca](http://www.bockoptronics.ca)





# EoSens<sup>®</sup> Creation2.0MXGE- CMF2

Creation 10GigE

## High-Speed Processing at the edge

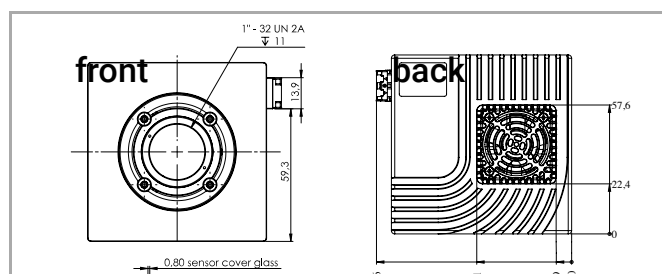
The EoSensEoSens<sup>®</sup> Creation 10GigE offers excellent high-speed image quality with the highest data rates. With its open camera concept, it allows application-specific internal processing of the images at a data rate of up to 50Gbit/s. The Creation is suitable for image pre-processing as well as complete image processing in real time and deliver only the user-programmed, finished results.

### Technical Highlights:

- High-speed image sensor
- extremely fast internal data processing
- economical 10GigE interface
- can also be operated as a standard machine vision camera

#### SPECIFICATIONS

Resolution [MP]	2 MP
Resolution (h x v)	1920 x 1080 px
Frame rate (max.)	536 fps
Chroma	mono
Interface	10GigE



**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	536 fps
1024 x 768	3152 fps	1421 fps
640 x 480	5020 fps	3570 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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**

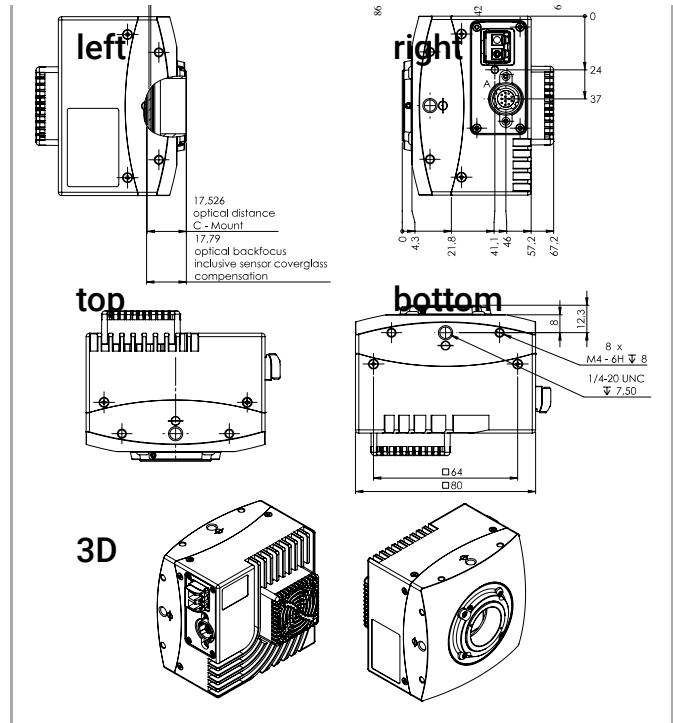
AOI	yes
Shading correction	yes
Defect pixel correction	yes
POE	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	80 x 80 x 67.2 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	13 W (dep. on operating mode)



For more information please contact:



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# EoSens® Creation2.0MXGE- FMD2

Creation 10GigE

## High-Speed Processing at the edge

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Sensor format	4/3 "
Pixel size (h x v)	10 x 10 µm

**FRAME RATES**

<b>Resolution</b>	<b>capture &amp; process</b>	<b>output</b>
1920 x 1080	2247 fps	536 fps
1024 x 768	3152 fps	1421 fps
640 x 480	5020 fps	3570 fps
128 x 128	18177 fps	18177 fps
1920 x 8	170578 fps	41423 fps

**CAMERA**

Exposure modes	EXTERNAL
Trigger modes	Button, External TTL Signal,
Exposure time (min)	4 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
POE	yes

**HOUSING**

Lens mount	F-Mount
Dimensions (w x h x d)	80 x 80 x 86 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**

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Input Galvanic	2 x
Output Galvanic	2 x
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# EoSens® Creation2.0MXGE- FM2

Creation 10GigE

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# EoSens® Creation2.0MXGE- FMF2

Creation 10GigE

## High-Speed Processing at the edge

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POE	yes

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