



# EoSens4.0MCX6-CM

## EoSens® CoaXPress

## High-speed with CoaXPress

Our EoSens® CoaXPress series delivers the highest frame rates with the highest image quality. The high light sensitivity of the sensor also ensures good image quality in difficult lighting situations. The powerful CoaXPress interface with multiple connections allows a low-latency connection to the host PC and guarantees stable transmission of highest data rates.

### Technical Highlights:

- High data rates due to CoaXPress interface
- Image sensor with high light sensitivity
- 25 GBit/s data transmission for real-time streaming
- Shock and vibration resistant
- Fanless design



## SPECIFICATIONS

|                    |                          |
|--------------------|--------------------------|
| Resolution [MP]    | 4 MP                     |
| Resolution (h x v) | 2336 x 1728 px           |
| Frame rate (max.)  | 563 fps                  |
| Chroma             | mono (color on request)  |
| Interface          | CXP-6 with 4 Connections |

## SENSOR

|                     |                 |
|---------------------|-----------------|
| Sensor              | AM41            |
| Manufacturer        | Alexima         |
| Sensor type         | Area CMOS       |
| Shutter type        | global shutter  |
| Sensor size (h x v) | 16.35 x 12.1 mm |
| Optical diagonal    | 20.34 mm        |
| Sensor format       | 4/3 "           |
| Pixel size (h x v)  | 7 x 7 μm        |

## FRAME RATES

|             |          |
|-------------|----------|
| 2336 x 1920 | 563 fps  |
| 1920 x 1080 | 900 fps  |
| 1024 x 768  | 1264 fps |
| 640 x 480   | 2020 fps |
| 128 x 128   | 7492 fps |

## CAMERA

|                     |                                          |
|---------------------|------------------------------------------|
| Exposure modes      | EXTERNAL                                 |
| Trigger modes       | Button, External TTL Signal, CXP-Trigger |
| Exposure time (min) | 1 $\mu$ s                                |
| Exposure time (max) | 1 sec (external $\infty$ )               |
| Pixel format / max  | mono8, mono10 / 10 bit                   |

## FEATURE SET

|                         |     |
|-------------------------|-----|
| AOI                     | yes |
| Shading correction      | yes |
| Defect pixel correction | yes |
| PoCXP                   | yes |

## HOUSING

|                         |                             |
|-------------------------|-----------------------------|
| Lens mount              | C-Mount                     |
| Dimensions (w x h x d)  | 80 x 80 x 60 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 | 10 W (dep. on operating mode) |

