

# EoSens CoaXPress-12

EoSens10CCX12-FM

## General

|                |                     |
|----------------|---------------------|
| Model          | EoSens10CCX12-FM    |
| Product code   | F006026             |
| Product series | EoSens CoaXPress-12 |
| Status         | Available           |

## Sensor

|                                |                                      |
|--------------------------------|--------------------------------------|
| Sensor type                    | Area scan                            |
| Chroma                         | Color                                |
| Spectrum                       | Visible                              |
| Spectral range                 | 350 nm to 1000 nm                    |
| Resolution                     | 4,608 × 2,176 (10.00 MP)             |
| Sensor model                   | Gpixel GSPRINT4510                   |
| Sensor architecture (material) | cmos                                 |
| Shutter type(s)                | Global shutter (GS)                  |
| Sensor size                    | 20.74 × 9.79 mm (22.93 mm, Type 4/3) |
| Pixel size                     | 4.50 µm × 4.50 µm                    |

## Pixel formats

|                   |                 |
|-------------------|-----------------|
| Sensor bit depth  | 8-bit, 12-bit   |
| RGB pixel formats | bayer8, bayer12 |

## Imaging performance

|               |         |
|---------------|---------|
| Dynamic range | 68.8 dB |
|---------------|---------|

## Timing and gain

|                 |         |
|-----------------|---------|
| Max. frame rate | 482 fps |
|-----------------|---------|

## Timing and gain

|                           |                        |
|---------------------------|------------------------|
| Max. frame rate ROI modes | 4608 x 2176   478 fps, |
| Exposure time             | 1 $\mu$ s to 1 s       |
| Gain                      | 0.0 dB to 12.0 dB      |

## I/Os and power

|                             |                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------|
| Non-isolated lines          | 0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 0 x Open drain output, |
| Specific non-isolated lines | 0 x RS232 input, 0 x RS232 output, 0 x RS422 input, 0 x RS422 output,                                 |
| Opto-isolated lines         | 0 x Optical isolated input, 0 x Optical isolated input,                                               |
| I/O connector               | 12-pin Hirose HR10A-10P-12S                                                                           |
| Power supply                | 12 to 24VDC, Power over CoaXPress                                                                     |
| Power consumption           | External: 20 W (typical)                                                                              |

## Mechanical properties

|                                   |              |
|-----------------------------------|--------------|
| Body dimensions (L x W x H in mm) | 93 x 80 x 80 |
| IP class                          | IP30         |
| Lens mount(s)                     | F-Mount      |
| Weight                            | 630 g        |

## Interfaces

|                     |                           |
|---------------------|---------------------------|
| Digital interface   | cxp-12 with 4 connections |
| Interface connector | (micro-BNC)               |

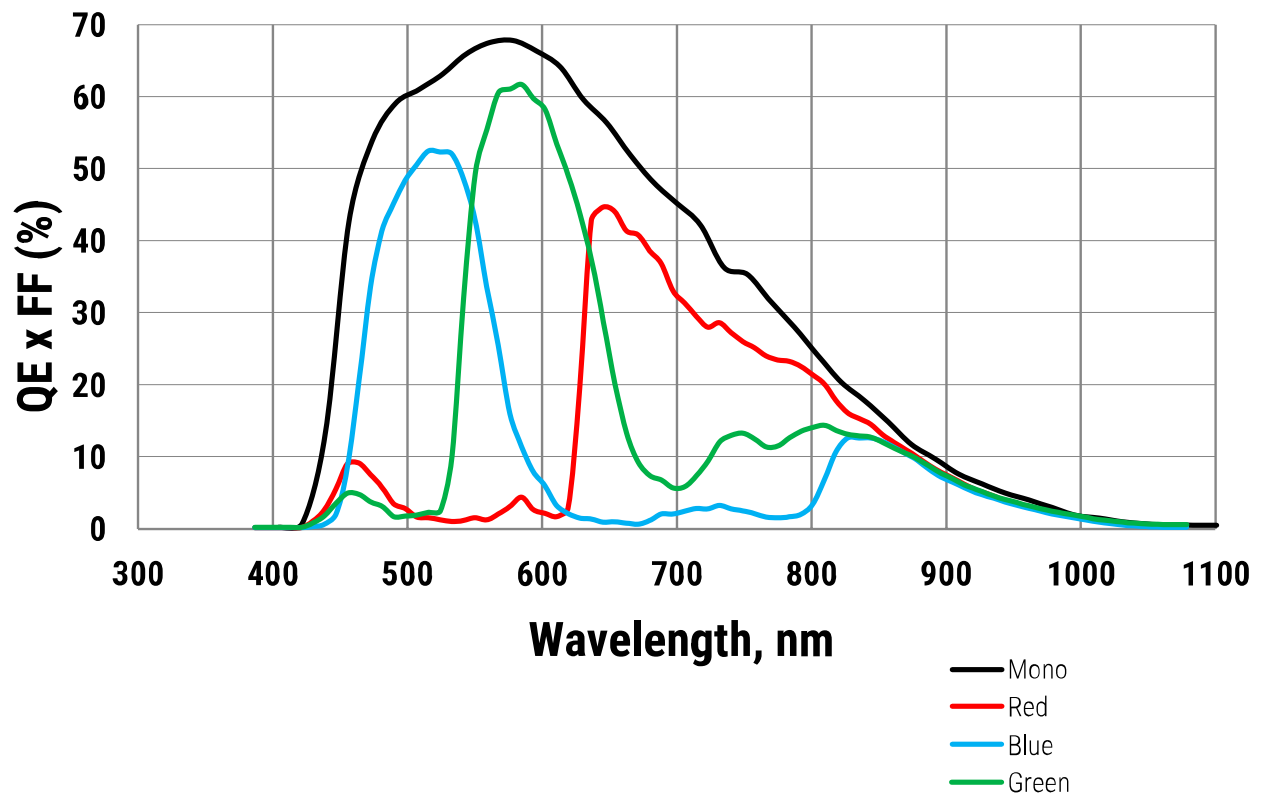
## FW features - image control

|                        |                   |
|------------------------|-------------------|
| Exposure modes         | external          |
| Gain modes             | digital, analog   |
| White balance modes    | true              |
| Image control features | roi, mirror-image |

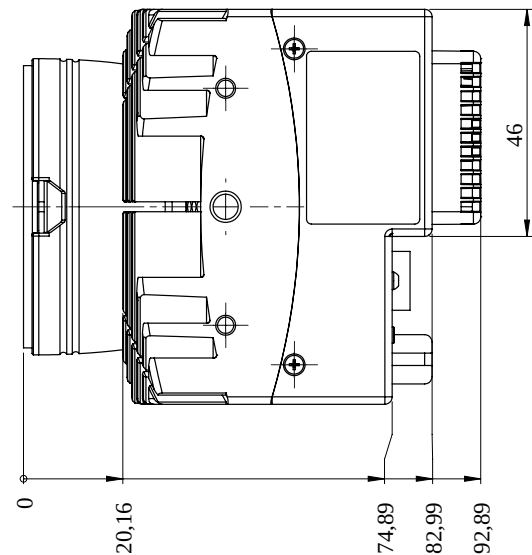
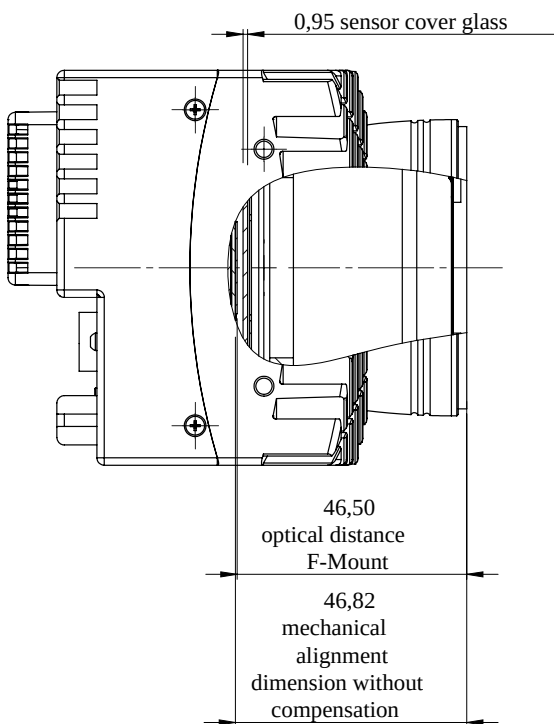
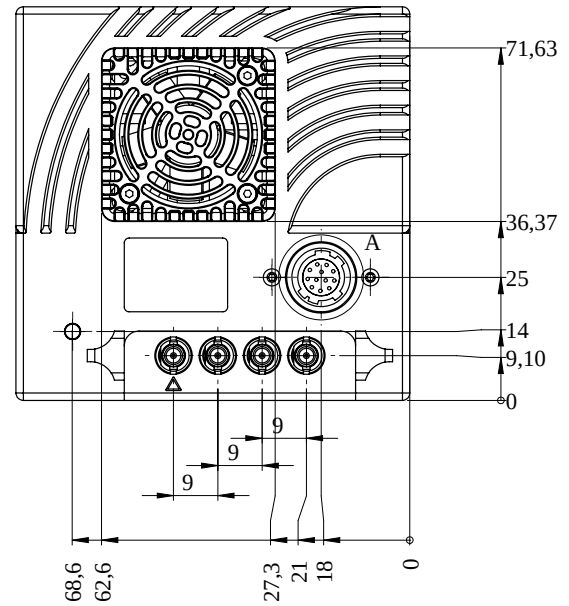
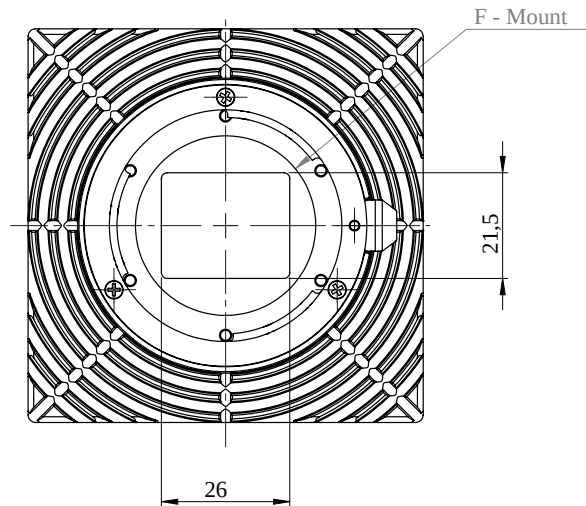
## FW features - camera control

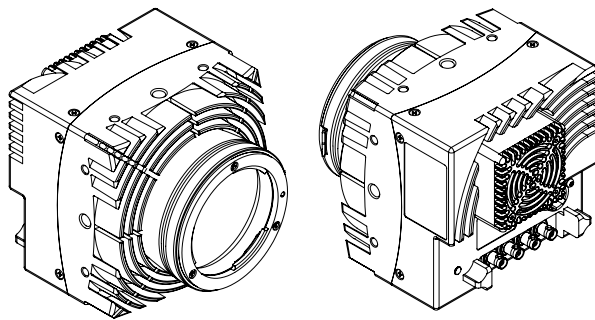
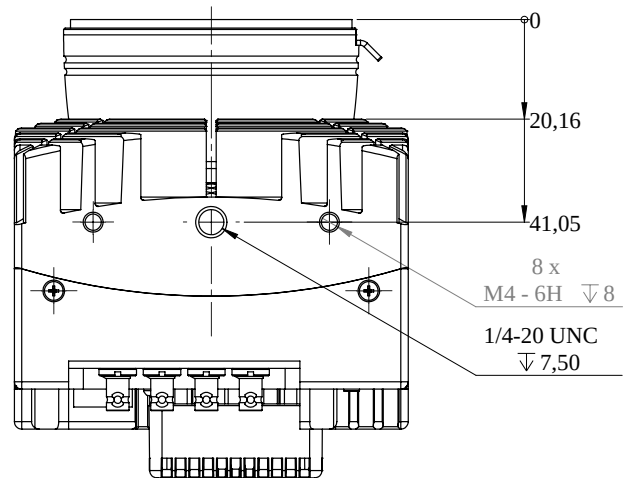
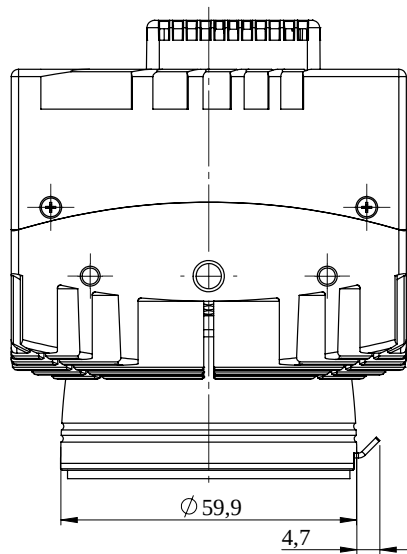
|                    |                            |
|--------------------|----------------------------|
| Trigger modes/sync | external, trigger-over-cxp |
|--------------------|----------------------------|

## Quantum Efficiency

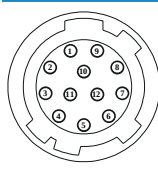


## Technical Drawing





## I/O pin assignment

|                                                                                     | Pin    | Signal             | Pin | Signal            |
|-------------------------------------------------------------------------------------|--------|--------------------|-----|-------------------|
|  | 1 + 12 | GND                | 6   | IN0               |
|                                                                                     | 2 + 11 | VCC<br>(12 - 24 V) | 7   | IO <sub>GND</sub> |
|                                                                                     | 3      | IO <sub>GND</sub>  | 8   | OUT1              |
|                                                                                     | 4      | OUT0               | 9   | IO <sub>GND</sub> |
|                                                                                     | 5      | IO <sub>GND</sub>  | 10  | IN1               |