

# EoSens CoaXPress-12

EoSens10MCX12-FM

## Generale

|                   |                     |
|-------------------|---------------------|
| Modello           | EoSens10MCX12-FM    |
| Codice prodotto   | F006025             |
| Serie di prodotti | EoSens CoaXPress-12 |
| Stato             | Available           |

## Sensore

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Tipo di sensore                  | Area scan                            |
| Croma                            | Mono                                 |
| Spettro                          | Visible                              |
| Gamma spettrale                  | 350 nm to 1000 nm                    |
| Risoluzione                      | 4,608 × 2,176 (10.00 MP)             |
| Modello sensore                  | Gpixel GSPRINT4510                   |
| Architettura sensore (Materiale) | cmos                                 |
| Tipi di otturatore               | Global shutter (GS)                  |
| Dimensione sensore               | 20.74 × 9.79 mm (22.93 mm, Type 4/3) |
| Dimensione pixel                 | 4.50 µm × 4.50 µm                    |

## Formati pixel

|                             |               |
|-----------------------------|---------------|
| Profondità bit sensore      | 8-bit, 12-bit |
| Formati pixel monocromatici | mono8, mono12 |

## Prestazioni di imaging

|                |         |
|----------------|---------|
| Gamma dinamica | 68.8 dB |
|----------------|---------|

## Tempi e guadagno

|                           |         |
|---------------------------|---------|
| Frequenza fotogrammi max. | 482 fps |
|---------------------------|---------|

## Tempi e guadagno

|                                        |                        |
|----------------------------------------|------------------------|
| Frequenza fotogrammi max. modalità ROI | 4608 x 2176   478 fps, |
| Tempo di esposizione                   | 1 $\mu$ s to 1 s       |
| Guadagno                               | 0.0 dB to 12.0 dB      |

## I/O e alimentazione

|                              |                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| Linee non isolate            | 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, |
| Linee non isolate specifiche | 0 x RS232 input, 0 x RS232 output, 0 x RS422 input, 0 x RS422 output,                                 |
| Linee otticamente isolate    | 0 x Optical isolated input, 0 x Optical isolated input,                                               |
| Connettore I/O               | 12-pin Hirose HR10A-10P-12S                                                                           |
| Alimentazione                | 12 to 24VDC, Power over CoaXPress                                                                     |
| Consumo energetico           | External: 20 W (typical)                                                                              |

## Proprietà meccaniche

|                                       |              |
|---------------------------------------|--------------|
| Dimensioni custodia (L x P x A in mm) | 93 × 80 × 80 |
| Classe IP                             | IP30         |
| Attacco/i obiettivo                   | F-Mount      |
| Peso                                  | 630 g        |

## Interfacce

|                        |                           |
|------------------------|---------------------------|
| Interfaccia digitale   | cxp-12 with 4 connections |
| Connettore interfaccia | (micro-BNC)               |

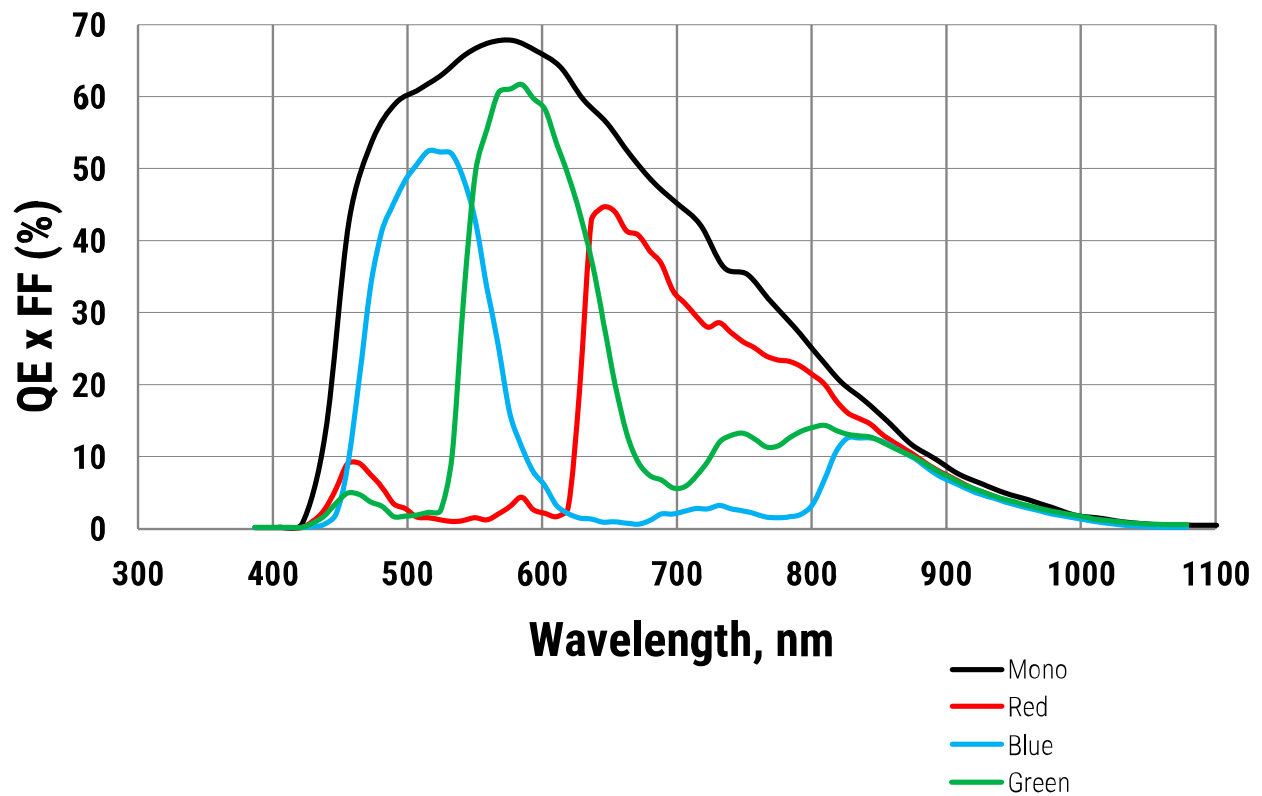
## Funzioni FW – Controllo immagine

|                                      |                   |
|--------------------------------------|-------------------|
| Modalità di esposizione              | external          |
| Modalità di guadagno                 | digital, analog   |
| Modalità di bilanciamento del bianco | true              |
| Funzioni di controllo immagine       | roi, mirror-image |

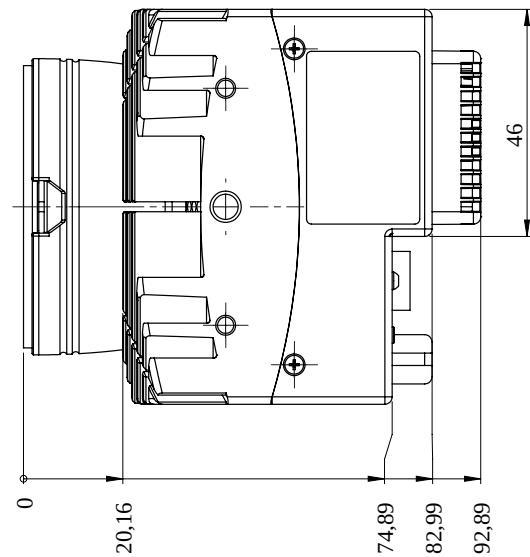
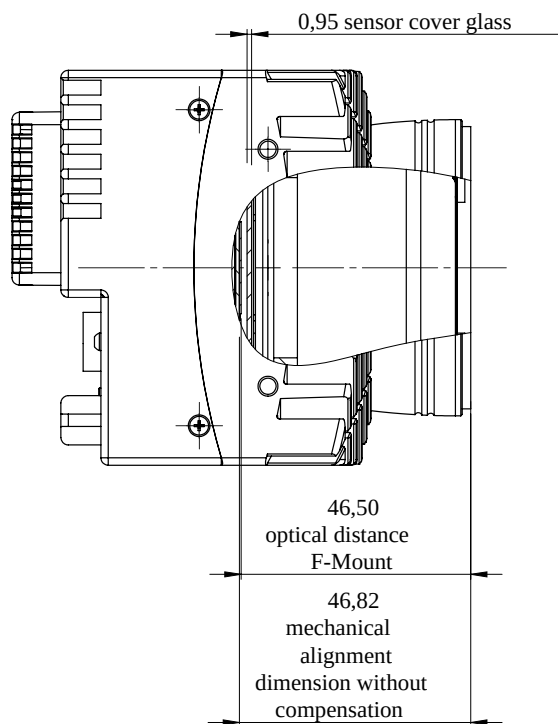
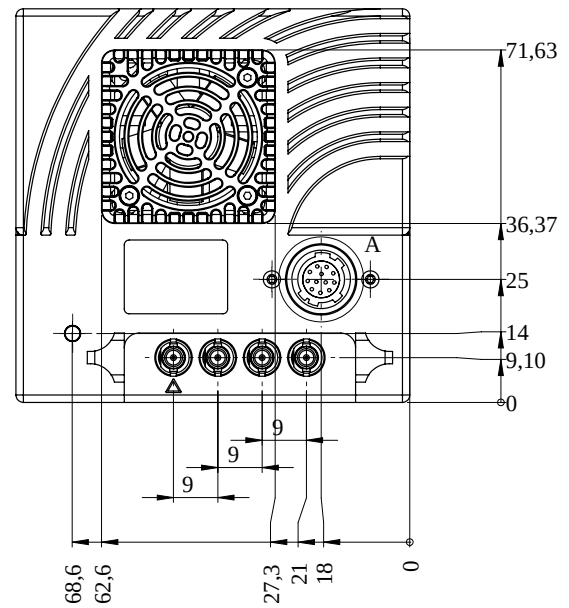
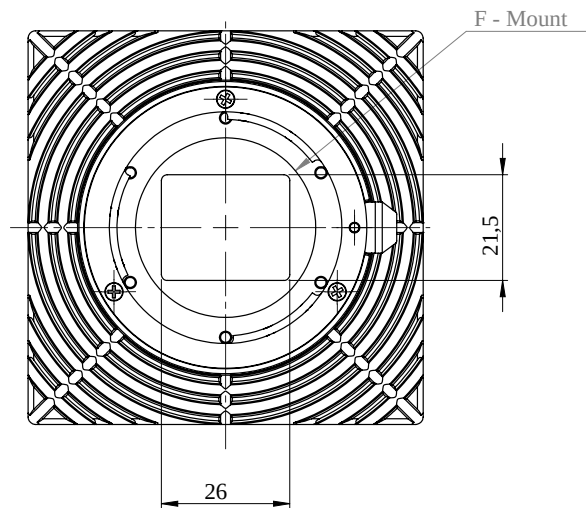
## Funzioni FW – Controllo fotocamera

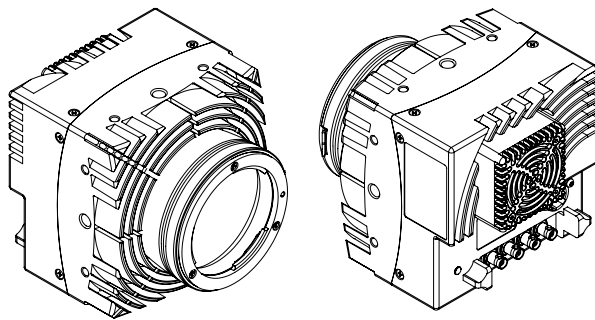
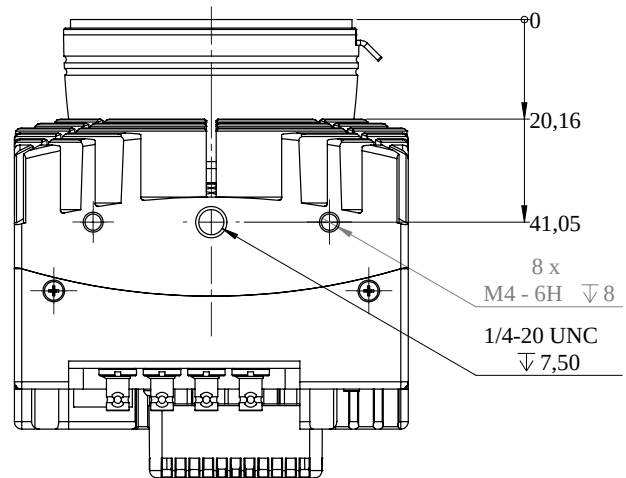
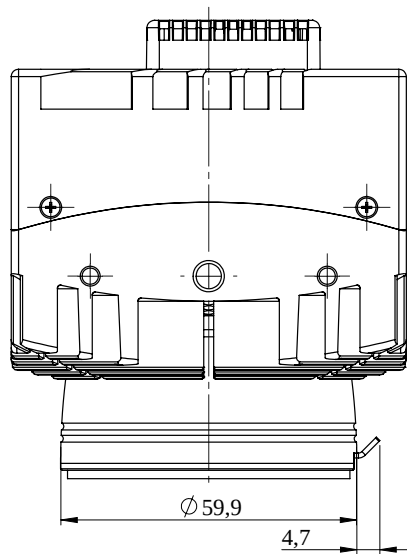
|                                      |                            |
|--------------------------------------|----------------------------|
| Modalità di trigger/sincronizzazione | external, trigger-over-cxp |
|--------------------------------------|----------------------------|

Efficienza quantica

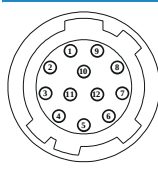


## Disegno tecnico





## Assegnazione pin I/O

|                                                                                     | 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               |