



## HR CoaXPress

### hr65MCX

#### Generale

|                   |              |
|-------------------|--------------|
| Modello           | hr65MCX      |
| Codice prodotto   | F004137      |
| Serie di prodotti | HR CoaXPress |
| Stato             | Available    |

#### Sensore

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Tipo di sensore                  | Area scan                           |
| Croma                            | Mono                                |
| Spettro                          | Visible                             |
| Gamma spettrale                  | 400 nm to 1000 nm                   |
| Risoluzione                      | 9,344 × 7,000 (65.00 MP)            |
| Modello sensore                  | Gpixel GMAX3265                     |
| Architettura sensore (Materiale) | cmos                                |
| Tipi di otturatore               | Global shutter (GS)                 |
| Dimensione sensore               | 29.9 × 22.4 mm (37.36 mm, Type 2.3) |
| Dimensione pixel                 | 3.20 µm × 3.20 µm                   |

#### Formati pixel

|                             |               |
|-----------------------------|---------------|
| Profondità bit sensore      | 8-bit, 10-bit |
| Formati pixel monocromatici | mono8, mono10 |

#### Prestazioni di imaging

|                |         |
|----------------|---------|
| Gamma dinamica | 65.6 dB |
| SNR            | 40 dB   |

## Tempi e guadagno

|                           |                    |
|---------------------------|--------------------|
| Frequenza fotogrammi max. | 35.5 fps           |
| Tempo di esposizione      | 12 $\mu$ s to 60 s |
| Guadagno                  | 0.0 dB to 18.0 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, 4 x Open drain output, |
| Linee non isolate specifiche | 1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,                                 |
| Linee otticamente isolate    | 1 x Optical isolated input, 0 x Optical isolated input,                                               |
| Connettore I/O               | 12-pin Hirose HR10A-10P-12S                                                                           |
| Alimentazione                | 10 to 25VDC, Power over CoaXPress                                                                     |
| Consumo energetico           | External: 10.5 W (typical)                                                                            |

## Condizioni operative

|                                  |                 |
|----------------------------------|-----------------|
| Temperatura operativa (Custodia) | -10 °C to 65 °C |
|----------------------------------|-----------------|

## Proprietà meccaniche

|                                       |                    |
|---------------------------------------|--------------------|
| Dimensioni custodia (L x P x A in mm) | 76 × 70 × 70       |
| Vetro filtro/protezione               | N-BK7 - AR coating |
| Classe IP                             | IP30               |
| Attacco/i obiettivo                   | M58x0.75           |
| Peso                                  | 420 g              |

## Memoria onboard e FPGA

|                              |           |
|------------------------------|-----------|
| Memoria non volatile (Flash) | 160 MByte |
|------------------------------|-----------|

## Interfacce

|                        |                          |
|------------------------|--------------------------|
| Interfaccia digitale   | cxp-6 with 4 connections |
| Connettore interfaccia | (Din1.0/2.3)             |
| Standard Vision        | CoaXPress 1.0            |

## Funzioni FW – Controllo immagine

|                         |                        |
|-------------------------|------------------------|
| Modalità di esposizione | manual, auto, external |
| Modalità di guadagno    | auto, manual           |

## Funzioni FW – Controllo immagine

Funzioni di controllo immagine

roi, lut, mirror-image, dpc, shading-correction, ffc

## Funzioni FW – Controllo fotocamera

Modalità di trigger/sincronizzazione

internal, software, external

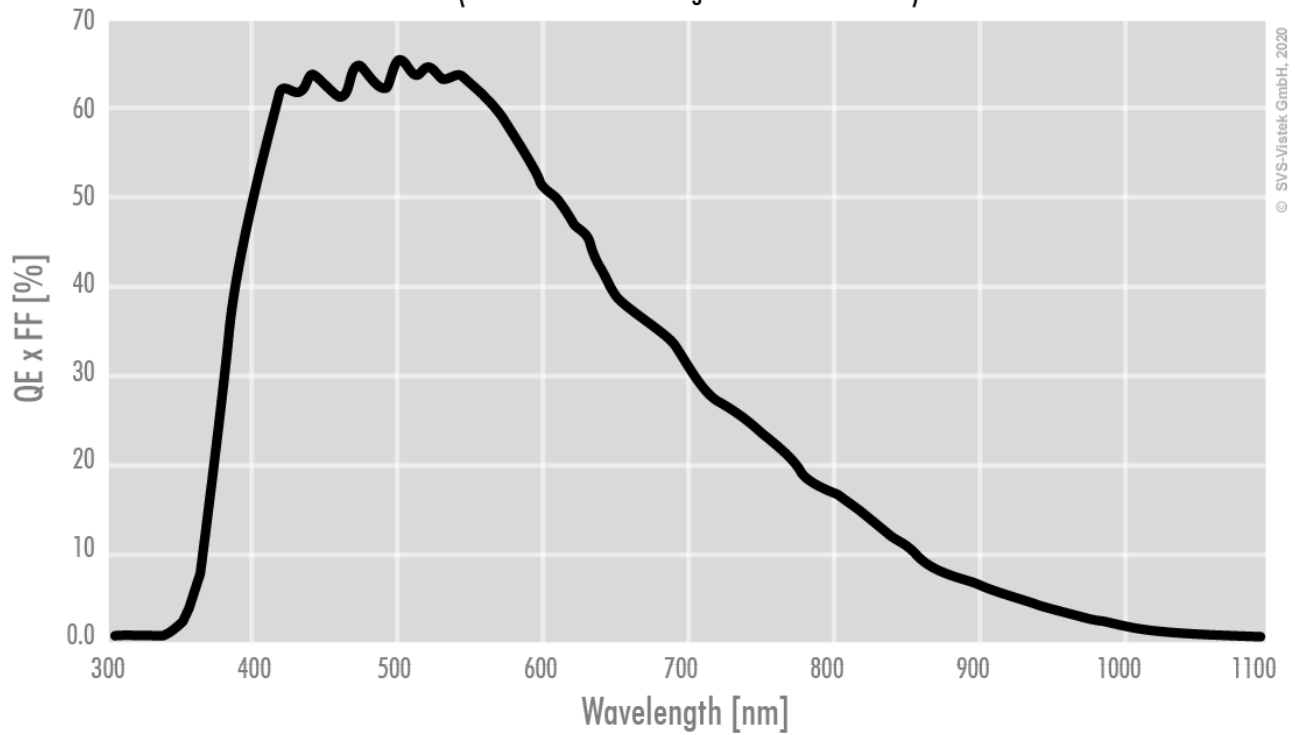
Funzioni di controllo della fotocamera

PoCxP, User Sets, PWM(4), Sequencer,

## Efficienza quantica

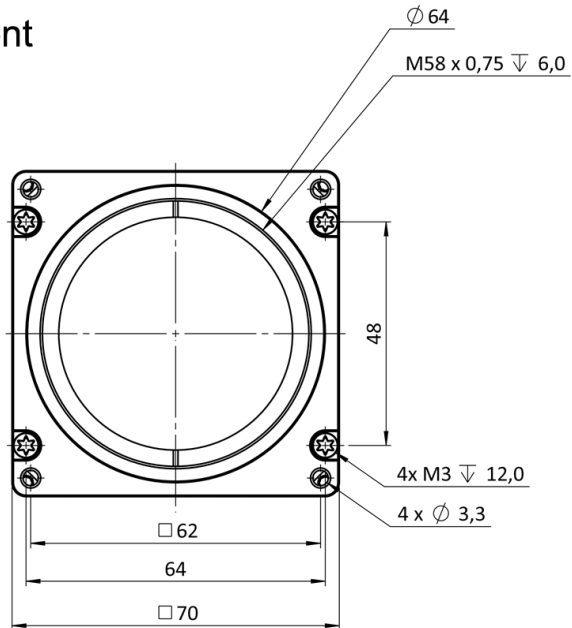
### Monochrome

(not included: lens- and light source characteristics)

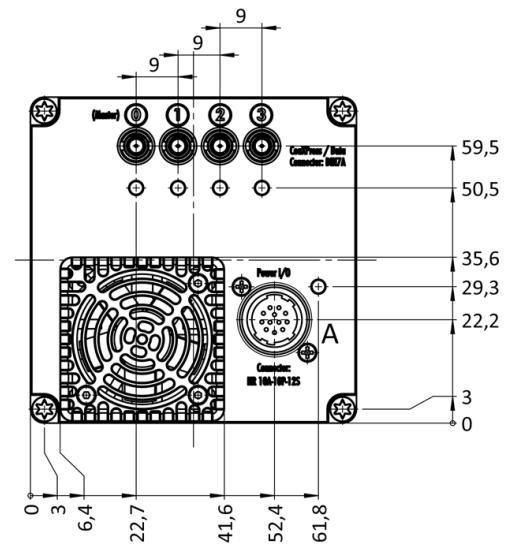


## Disegno tecnico

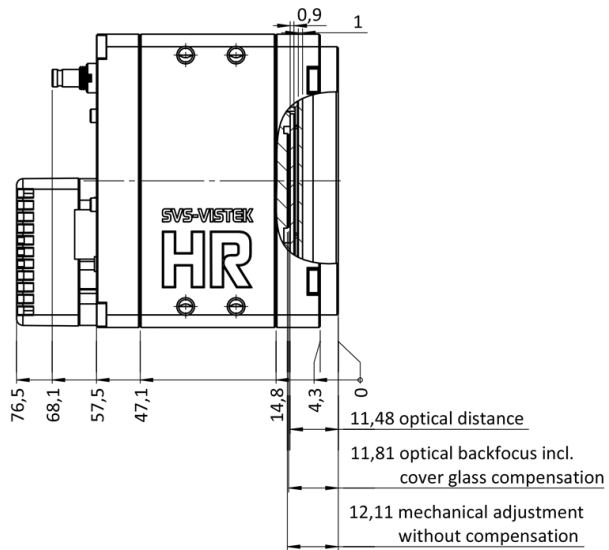
front



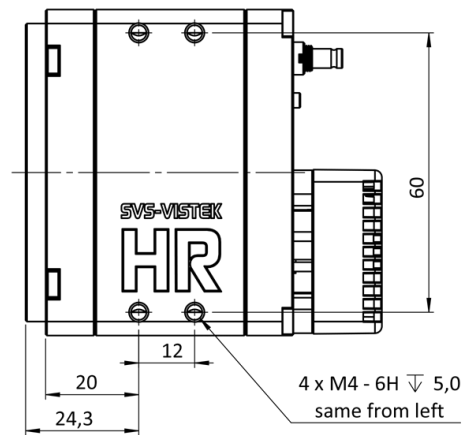
back



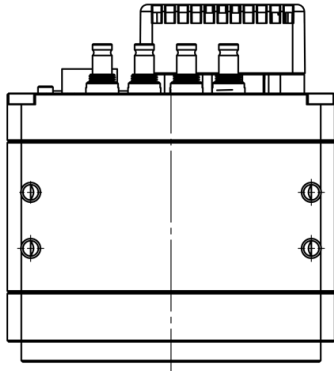
cross section



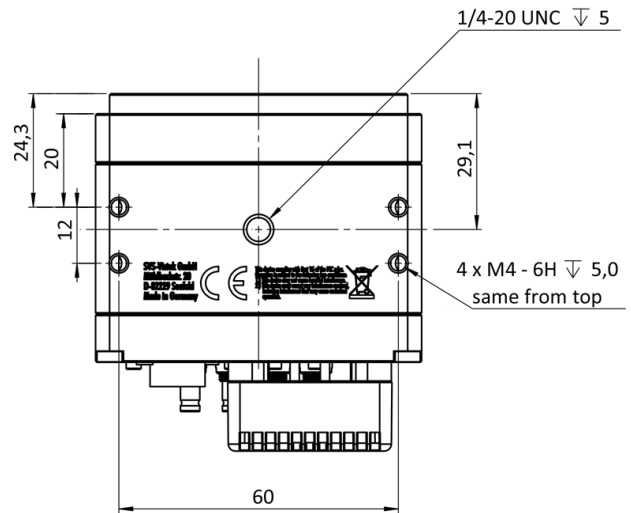
right side



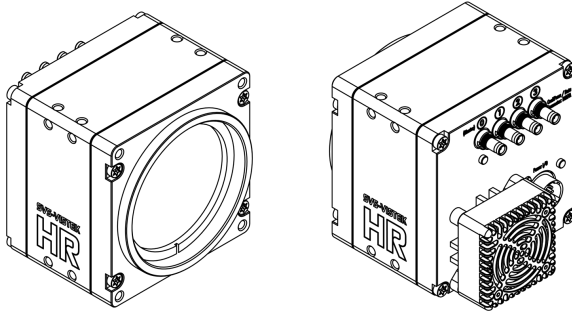
top



bottom

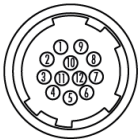


3D



## Assegnazione pin I/O

Hirose 12 Pin



|   |       |                   |    |        |              |
|---|-------|-------------------|----|--------|--------------|
| 1 | VIN - | (GND)             | 7  | OUT 1  | (open drain) |
| 2 | VIN + | (10 V to 25 V DC) | 8  | OUT 2  | (open drain) |
| 3 | IN 4  | (RXD RS232)       | 9  | IN 3 + | (opto In +)  |
| 4 | OUT 4 | (TXD RS232)       | 10 | IN 3 - | (opto In -)  |
| 5 | IN 1  | (0-24V)           | 11 | OUT 3  | (open drain) |
| 6 | IN 2  | (0-24V)           | 12 | OUT 0  | (open drain) |