Allied Vision



# HR CoaXPress

## hr455CCX

## Generale

| | |
|---|---|
| Modello | hr455CCX |
| Codice prodotto | F004097 |
| Serie di prodotti | HR CoaXPress |
| Stato | Available |

## Sensore

| | |
|---|---|
| Tipo di sensore | Area scan |
| Croma | Color |
| Spettro | Visible |
| Gamma spettrale | 400 nm to 1000 nm |
| Risoluzione | 9,568 × 6,380 (61.00 MP) |
| Modello sensore | Sony IMX455 |
| Architettura sensore (Materiale) | cmos |
| Tipi di otturatore | Rolling shutter (RS) |
| Dimensione sensore | 35.98 × 23.99 mm (43.24 mm, Type 2.7) |
| Dimensione pixel | 3.76 µm × 3.76 µm |

## Formati pixel

| | |
|---|---|
| Profondità bit sensore | 8-bit, 10-bit, 12-bit, 16-bit |
| Formati pixel RGB | bayer8, bayer10, bayer12, bayer16 |

## Prestazioni di imaging

| | |
|---|---|
| Gamma dinamica | 81.4 dB |
| SNR | 47 dB |

## Tempi e guadagno

| | |
|---|---|
| Frequenza fotogrammi max. | 18 fps |
| Tempo di esposizione | 34 µs to 60 s |
| Guadagno | 0.0 dB to 36.0 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: 14 W (typical) |

## Condizioni operative

| | |
|---|---|
| Temperatura operativa | -10 °C to 45 °C (ambiente, senza condensa) |

## Proprietà meccaniche

| | |
|---|---|
| Dimensioni custodia (L x P x A in mm) | 78 × 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 |
| Modalità di guadagno | auto, manual |

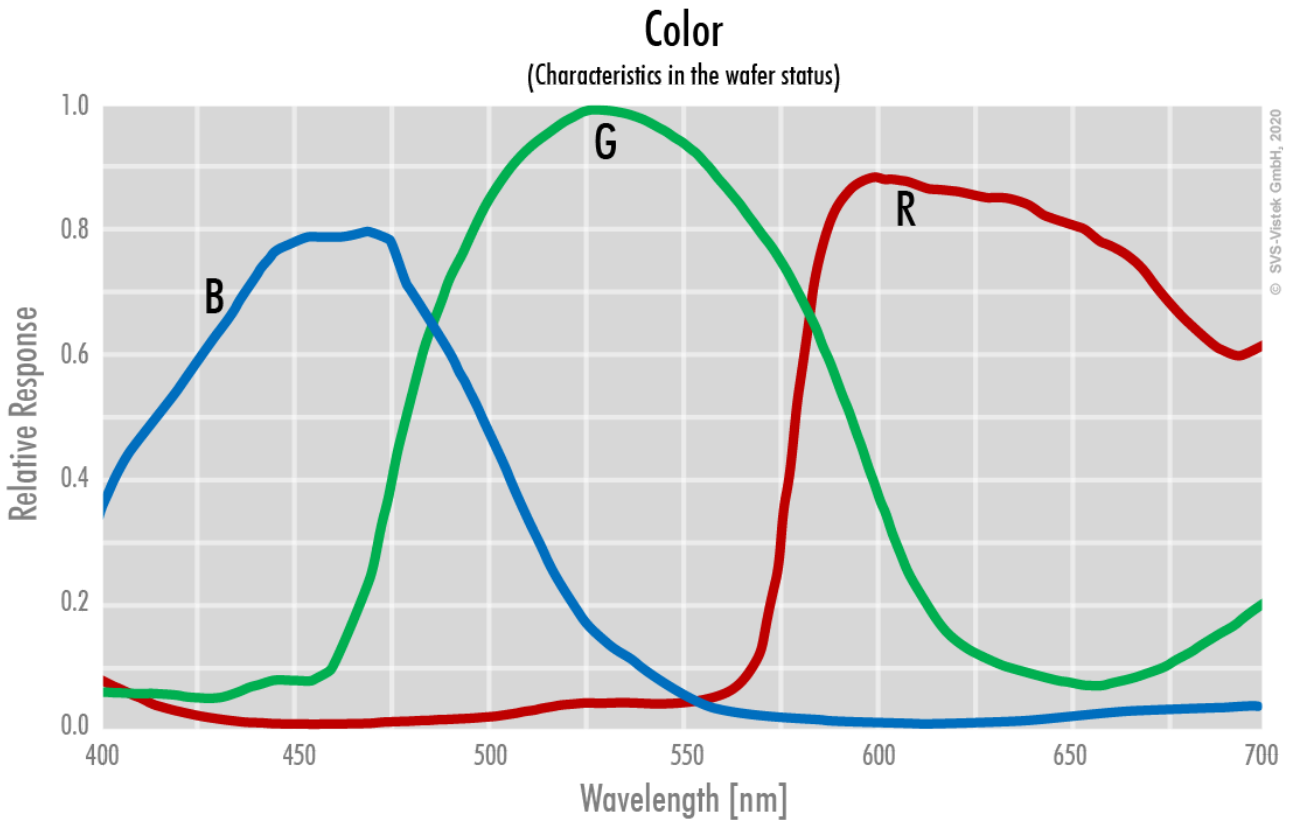
## Funzioni FW – Controllo immagine

| | |
|---|---|
| Modalità di bilanciamento del bianco | auto, manual |
| Funzioni di controllo immagine | roi, lut, mirror-image, dpc, shading-correction, ffc |

## Funzioni FW – Controllo fotocamera

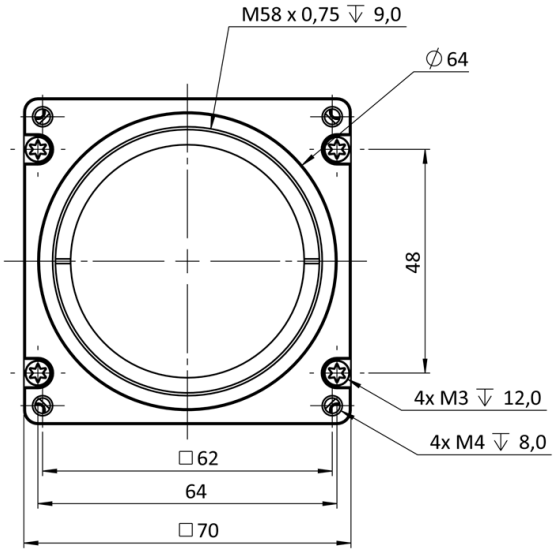
| | |
|---|---|
| Modalità di trigger/sincronizzazione | internal, software, external |
| Funzioni di controllo della fotocamera | PoCxP, User Sets, PWM(4), Sequencer, |

## Efficienza quantica

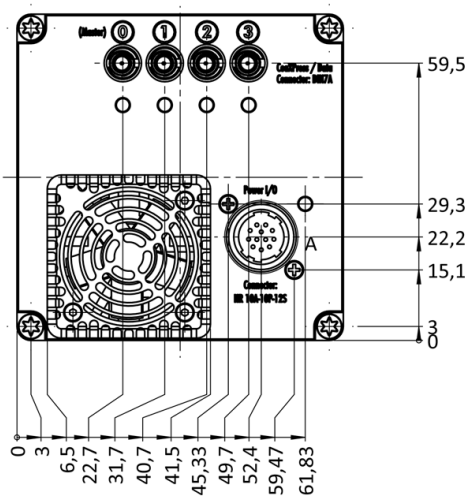


## Disegno tecnico

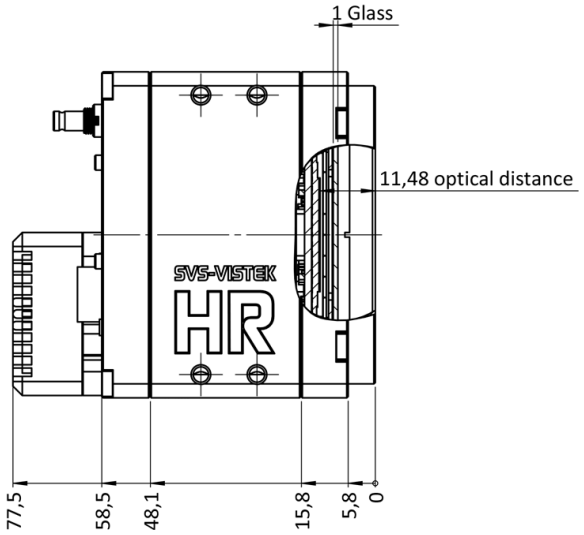
### front



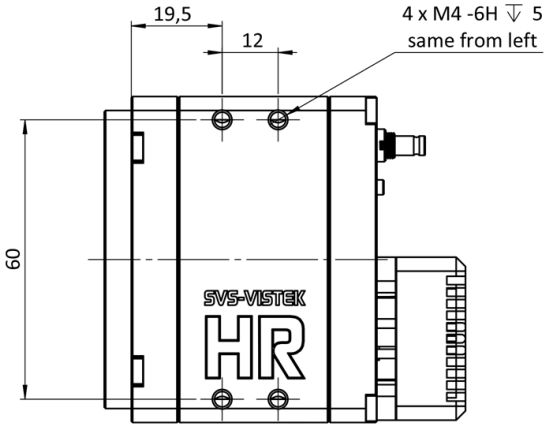

### back



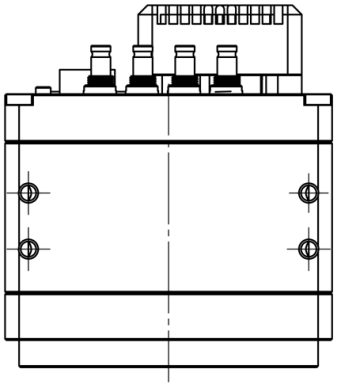

### cross section



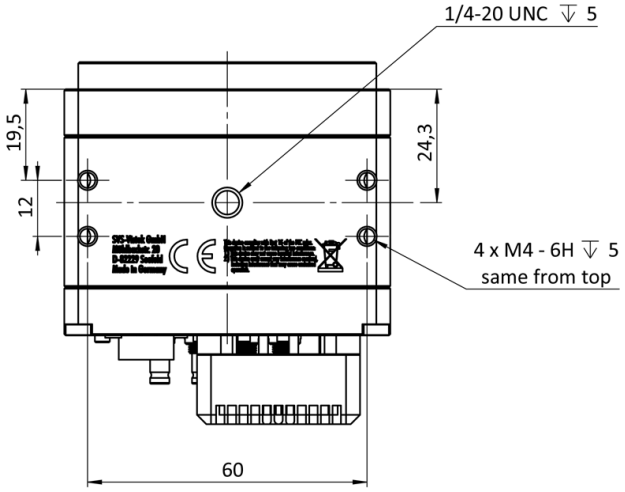

### right side



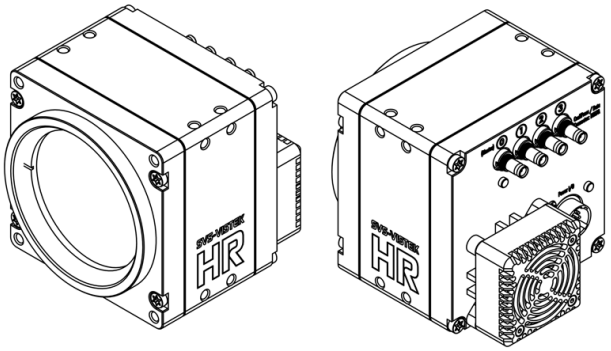
top



bottom

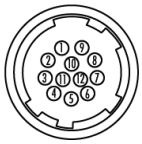



3D



## 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) |