Allied Vision

# Alvium C

## Alvium 1800 C-234

Alvium 1800 C-234 innovative MIPI CSI-2 camera with Sony IMX249 CMOS global shutter sensor provides industrial performance for cost effective embedded vision applications.

## Generale

| | |
|---|---|
| Modello | Alvium 1800 C-234 |
| Serie di prodotti | Alvium C |
| Stato | Available |

## Sensore

| | |
|---|---|
| Tipo di sensore | Area scan |
| Croma | Mono or Color |
| Spettro | Visible |
| Gamma spettrale | 300 nm to 1100 nm |
| Risoluzione | 1,936 × 1,216 (2.40 MP) |
| Modello sensore | Sony IMX249 |
| Tipi di otturatore | Global Shutter |
| Dimensione sensore | 13.4 mm ø (Type 1/1.2) |
| Dimensione pixel | 5.86 µm × 5.86 µm |

## Formati pixel

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|---|---|
| Formati pixel monocromatici | GREY, RAW10, RAW12, RAW8, Y10, Y12 |
| Formati pixel YUV | UYVY, YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit |
| Formati pixel RGB | BGR8, RGB3, RGB8 (default), RGB888 (default) |
| Formati pixel Bayer | BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8 |

## Tempi e guadagno

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|---|---|
| Frequenza fotogrammi max. | 40 fps |
| Tempo di esposizione | 34 µs to 10 s |

## Tempi e guadagno

| | |
|---|---|
| Guadagno | 0.0 dB to 48.0 dB |

## I/O e alimentazione

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|---|---|
| Linee non isolate | 2 programmable GPIOs |
| Alimentazione | 5 VDC over MIPI CSI-2 |
| Consumo energetico | Typical: 1.9 W |

## Condizioni operative

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|---|---|
| Temperatura operativa (Custodia) | -20 °C to 65 °C ((housing)) |

## Proprietà meccaniche

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|---|---|
| Dimensioni custodia (L x P x A in mm) | 26 × 29 × 29 |
| Attacco/i obiettivo | C-Mount, CS-Mount |
| Peso | 40 g |

## Memoria onboard e FPGA

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|---|---|
| Buffer immagine (RAM) | 256 KByte |
| Memoria non volatile (Flash) | 1024 KByte |

## Interfacce

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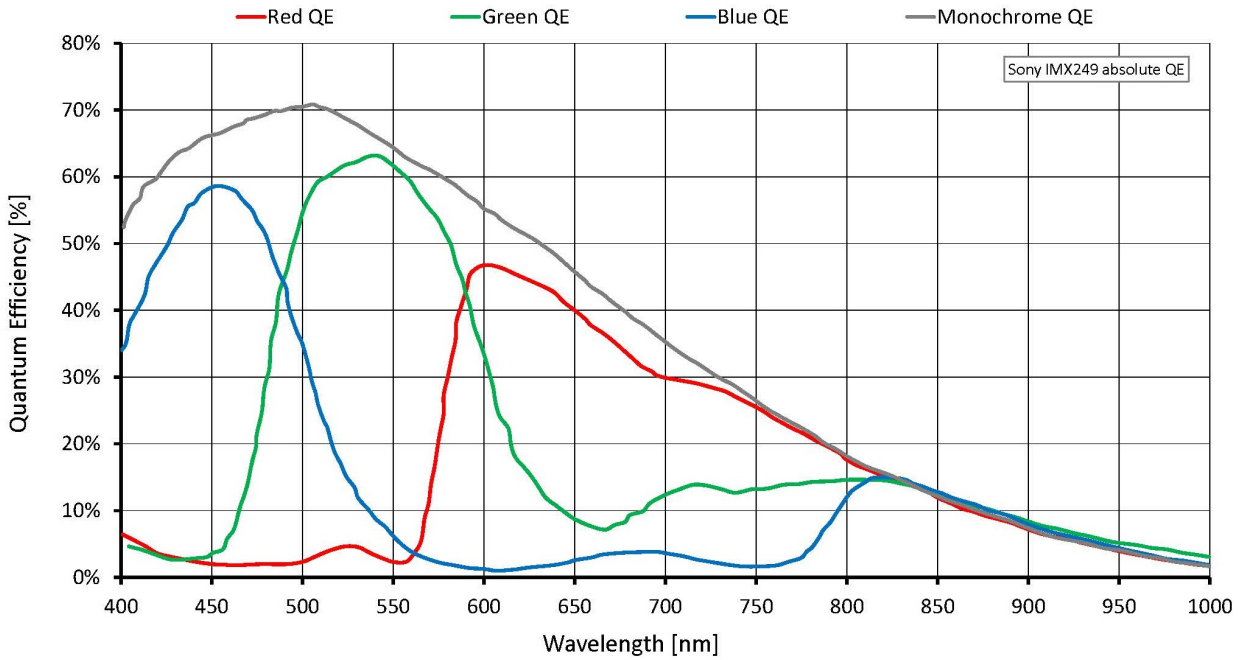
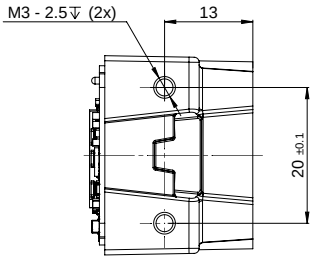
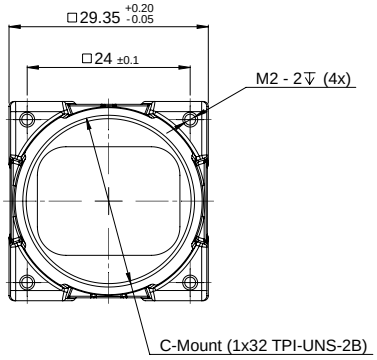
|---|---|
| Interfaccia digitale | MIPI CSI-2, up to 4 lanes |

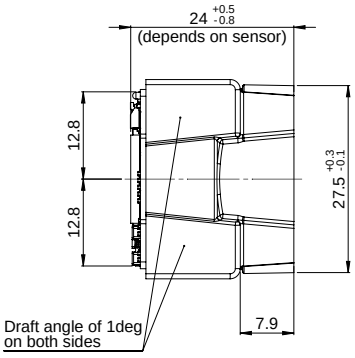
## Efficienza quantica

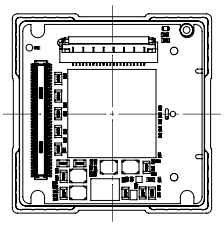


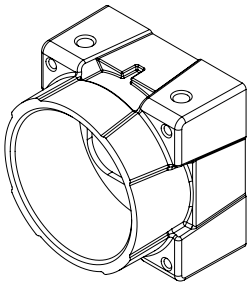
# Disegno tecnico

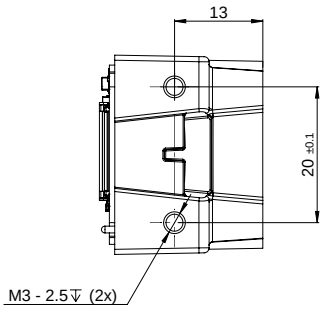


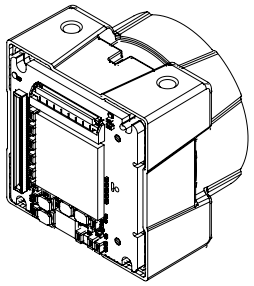







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