Allied Vision

# Alvium C

## Alvium 1800 C-320 VSWIR



Alvium 1800 C-320 VSWIR innovative MIPI CSI-2 camera with Sony IMX993 SenSWIR InGaAs global shutter sensor provides industrial performance for cost effective embedded vision applications.

## Generale

| | |
|---|---|
| Modello | Alvium 1800 C-320 VSWIR |
| Serie di prodotti | Alvium C |
| Stato | Available |

## Sensore

| | |
|---|---|
| Tipo di sensore | Area scan |
| Croma | Mono |
| Spettro | SWIR, Visible SWIR |
| Gamma spettrale | 400 nm to 1700 nm |
| Risoluzione | 2,080 × 1,544 (3.20 MP) |
| Modello sensore | Sony IMX993 \| InGaAs |
| Architettura sensore (Materiale) | cmos-ingaas |
| Tipi di otturatore | Global shutter (GS) |
| Dimensione sensore | 7.2 × 5.3 mm (8.9 mm, Type 1/1.8) |
| Dimensione pixel | 3.45 µm × 3.45 µm |

## Formati pixel

| | |
|---|---|
| Profondità bit sensore | 10-bit, 12-bit, 8-bit |
| Formati pixel monocromatici | GREY, RAW10, RAW12, RAW8, Y10, Y12 |

## Tempi e guadagno

| | |
|---|---|
| Frequenza fotogrammi max. | 131 fps |
| Tempo di esposizione | 33 µs to 10 s |
| Guadagno | 0.0 dB to 42.0 dB |

## I/O e alimentazione

| | |
|---|---|
| Linee non isolate | 2 programmable GPIOs |
| Alimentazione | 5 VDC over MIPI CSI-2 |
| Consumo energetico | Typical: 2.6 W |

## Condizioni operative

| | |
|---|---|
| Temperatura operativa (Custodia) | -20 °C to 55 °C ((housing)) |

## Proprietà meccaniche

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

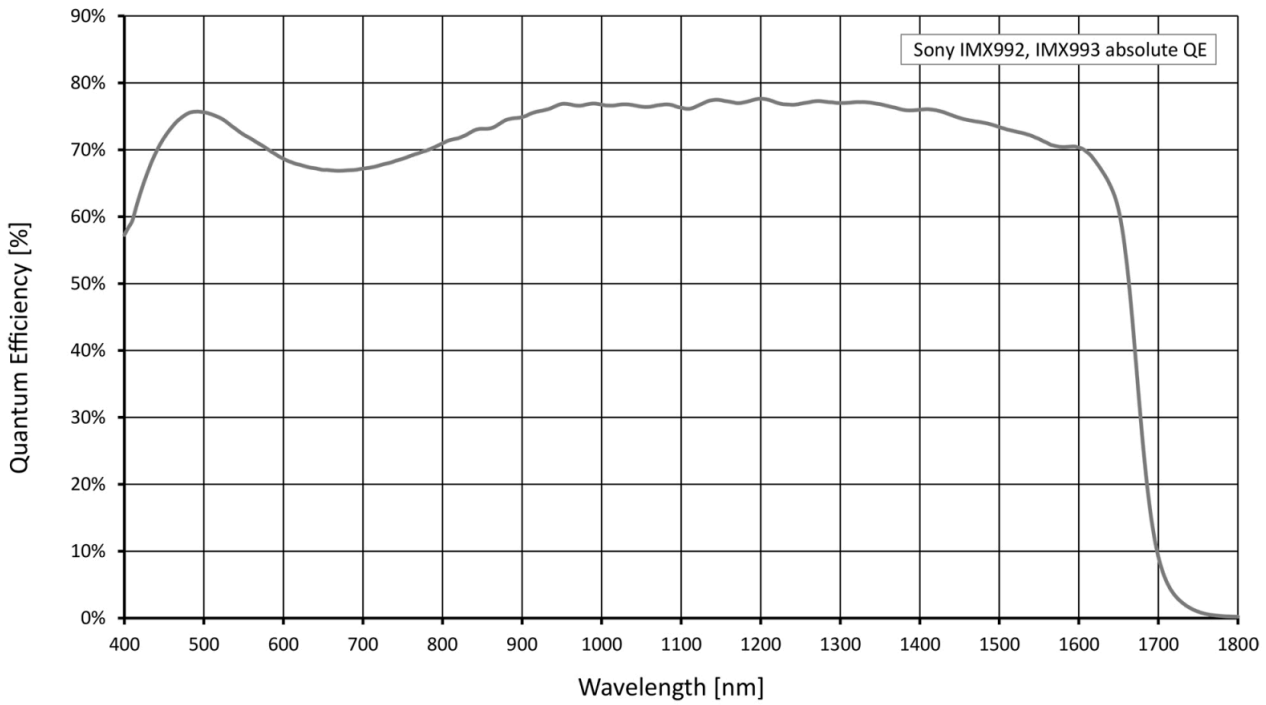
## Memoria onboard e FPGA

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

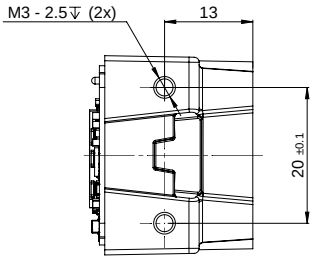
## Interfacce

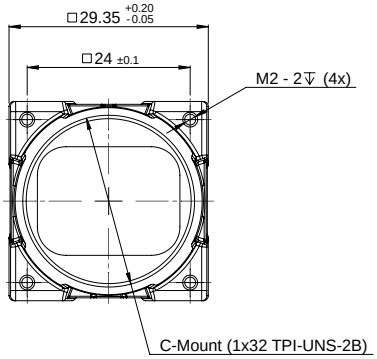
| | |
|---|---|
| Interfaccia digitale | MIPI CSI-2, up to 4 lanes |

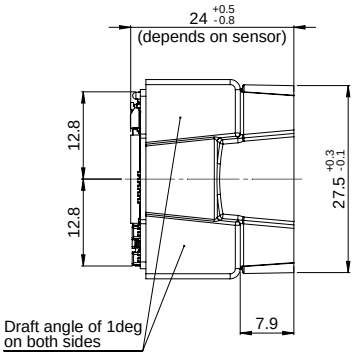
## Efficienza quantica

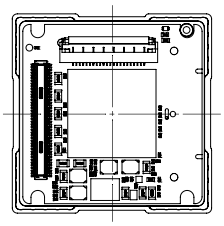


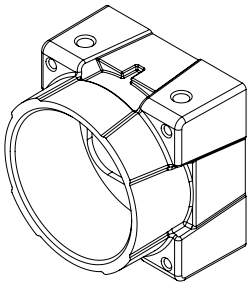
# Disegno tecnico

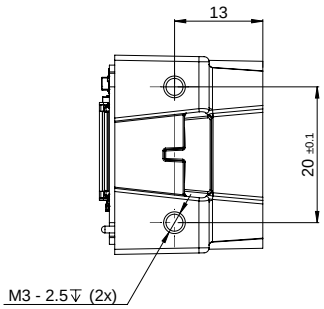


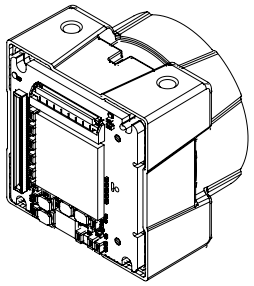







Allied Vision