Alvium C

Alvium 1800 C-510

Alvium 1800 C-510 innovative MIPI CSI-2 camera with Sony IMX548 CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

Generale

Modello	Alvium 1800 C-510
Serie di prodotti	Alvium C
Stato	Available

Sensore

Tipo di sensore	Area scan
Croma	Color, Mono
Spettro	Visible
Gamma spettrale	300 nm to 1100 nm
Risoluzione	2,464 × 2,064 (5.10 MP)
Modello sensore	Sony IMX548
Architettura sensore (Materiale)	cmos
Tipi di otturatore	Global shutter (GS)
Dimensione sensore	6.8 × 5.7 mm (8.8 mm, Type 1/1.8)
Dimensione pixel	2.74 µm × 2.74 µm

Formati pixel

Profondità bit sensore	12-bit
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

Prestazioni di imaging

Efficienza quantica @ 529 nm	68 %

Tempi e guadagno

Frequenza fotogrammi max.	81 fps
Tempo di esposizione	8 µs to 10 s
Guadagno	0.0 dB to 48.0 dB

I/O e alimentazione

Linee non isolate	2 programmable GPIOs
Alimentazione	5 VDC over MIPI CSI-2
Consumo energetico	Typical: 2.8 W

Condizioni operative

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

Proprietà meccaniche

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

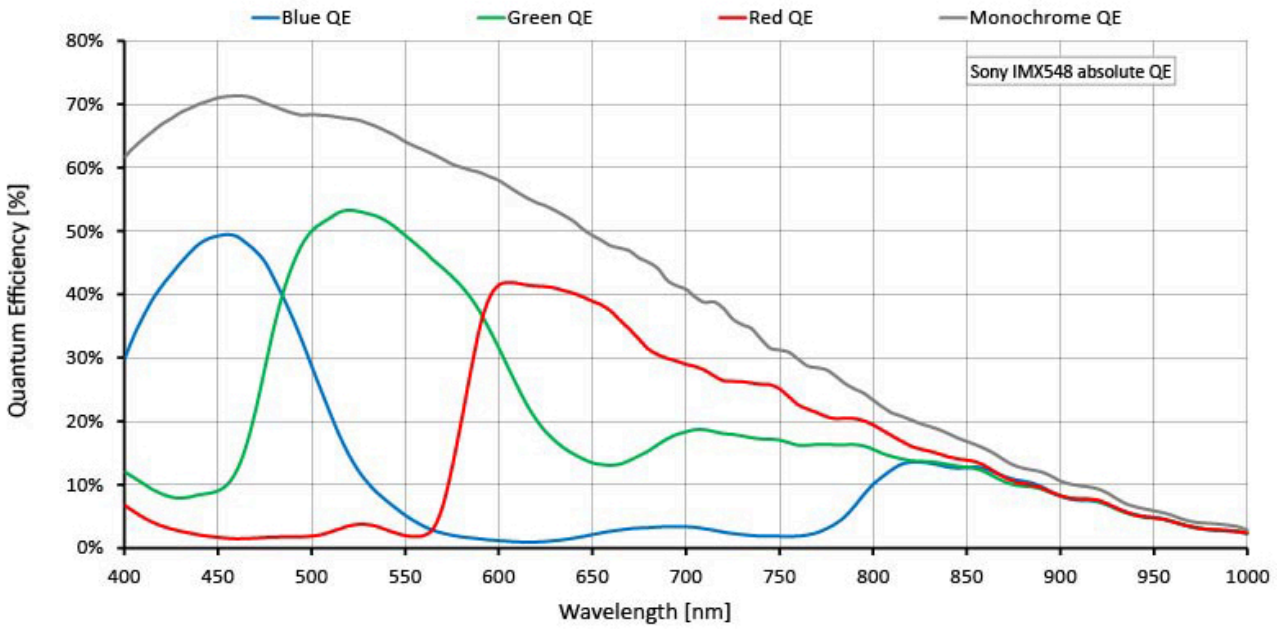
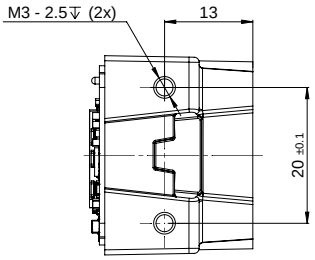
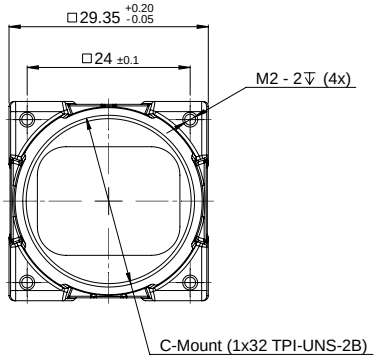
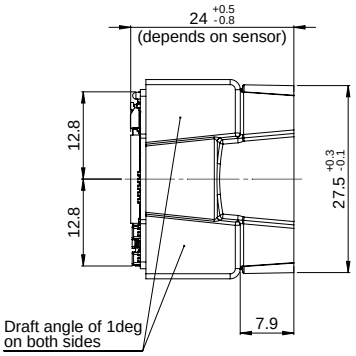
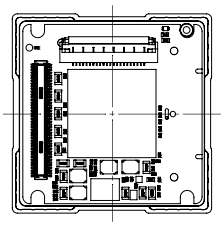
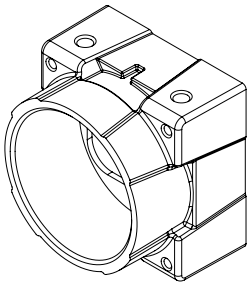
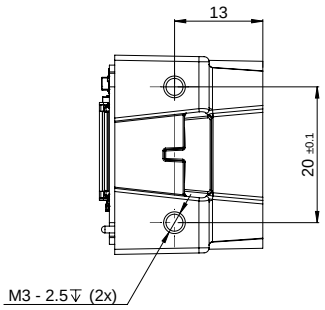
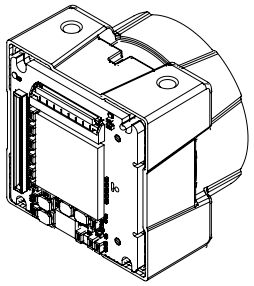
Memoria onboard e FPGA

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