Allied Vision

Alvium FP3

Alvium FP3-320 VSWIR



Preliminary product information. Features and technical specifications are subject to change without notice.

Alvium FP3-320 VSWIR innovative FPD-Link III camera with Sony IMX993 SenSWIR InGaAs global shutter sensor provides industrial performance for cost effective embedded vision applications.

preliminary

Generale

Modello	Alvium FP3-320 VSWIR
Serie di prodotti	Alvium FP3
Stato	Prototype/engineering sample

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.	Mainly depends on hardware and register settings.

Tempi e guadagno

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
Connettore I/O	Coax, STP
Alimentazione	5 VDC over MIPI CSI-2
Consumo energetico	Value for the integrated serializer adds to CSI-2 model value.

Condizioni operative

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

Proprietà meccaniche

Dimensioni custodia (L x P x A in mm)	41 × 29 × 29
Attacco/i obiettivo	C-Mount, CS-Mount
Peso	70 g

Memoria onboard e FPGA

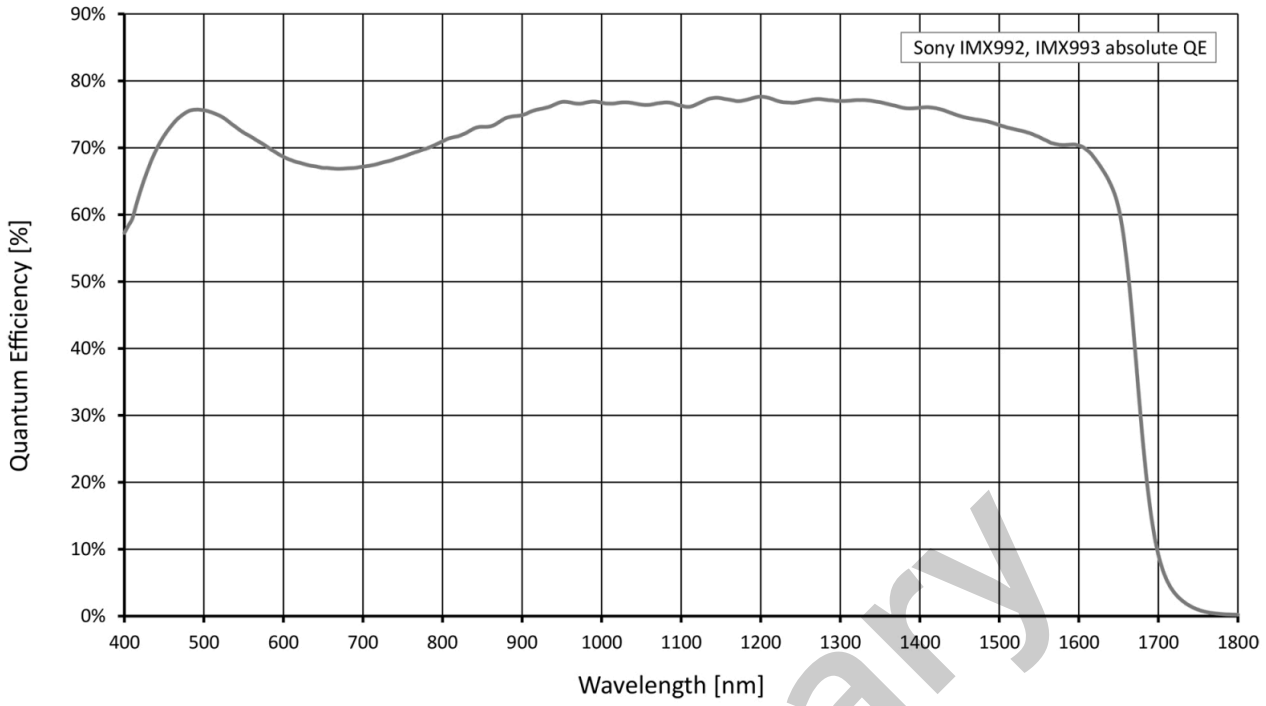
Buffer immagine (RAM)	256 KByte
Memoria non volatile (Flash)	1024 KByte

Interfacce

Interfaccia digitale	FPD-Link III, based on MIPI CSI-2, up to 4 lanes

preliminary

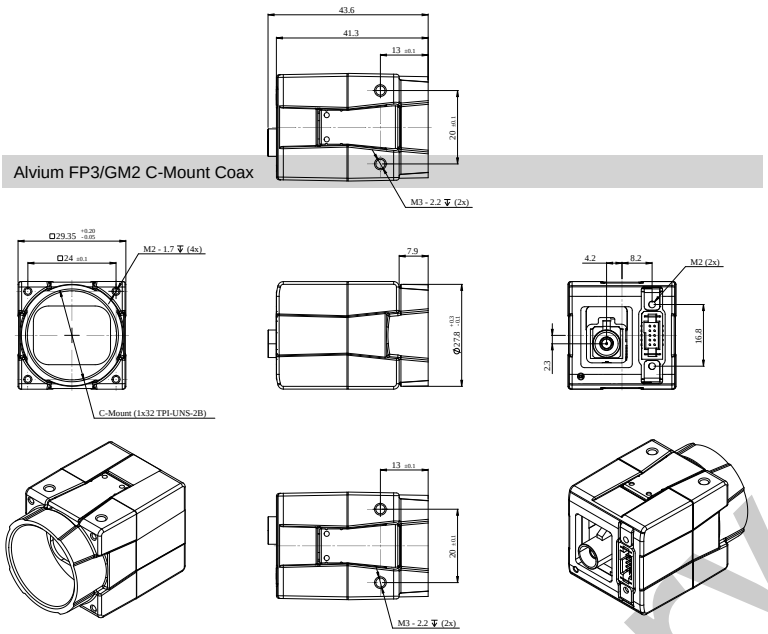
Efficienza quantica



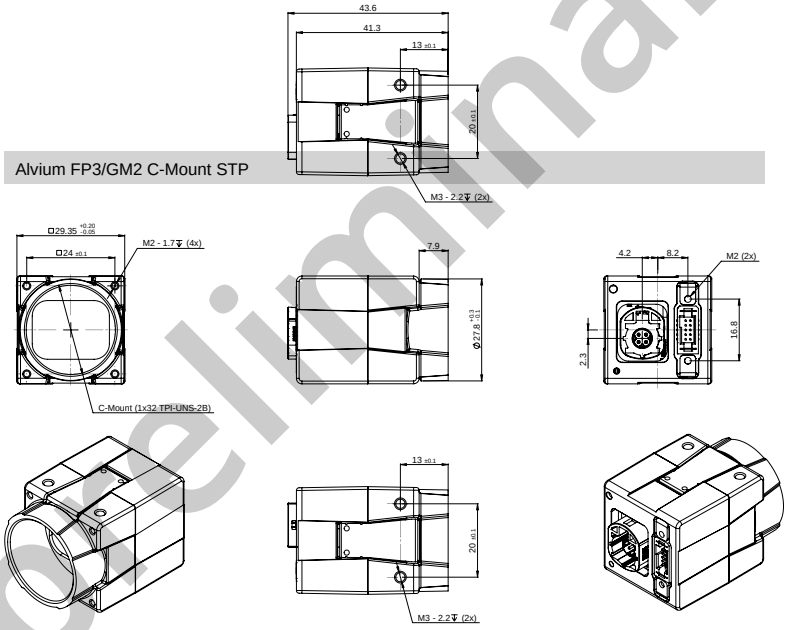
preliminary

Disegno tecnico

Alvium FP3/GM2 C-Mount Coax



Alvium FP3/GM2 C-Mount STP



preliminary