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.

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General

Model	Alvium FP3-320 VSWIR
Product series	Alvium FP3
Status	Prototype/engineering sample

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR, Visible SWIR
Spectral range	400 nm to 1700 nm
Resolution	2,080 × 1,544 (3.20 MP)
Sensor model	Sony IMX993 | InGaAs
Sensor architecture (material)	cmos-ingaas
Shutter type(s)	Global shutter (GS)
Sensor size	7.2 × 5.3 mm (8.9 mm, Type 1/1.8)
Pixel size	3.45 µm × 3.45 µm

Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-bit
Monochrome pixel formats	GREY, RAW10, RAW12, RAW8, Y10, Y12

Timing and gain

Max. frame rate	Mainly depends on hardware and register settings.

Timing and gain

Exposure time	33 µs to 10 s
Gain	0.0 dB to 42.0 dB

I/Os and power

Non-isolated lines	2 programmable GPIOs
I/O connector	Coax, STP
Power supply	5 VDC over MIPI CSI-2
Power consumption	Value for the integrated serializer adds to CSI-2 model value.

Operating conditions

Operating temperature (housing)	-20 °C to 65 °C ((housing))

Mechanical properties

Body dimensions (L x W x H in mm)	41 × 29 × 29
Lens mount(s)	C-Mount, CS-Mount
Weight	70 g

On-board memory and FPGA

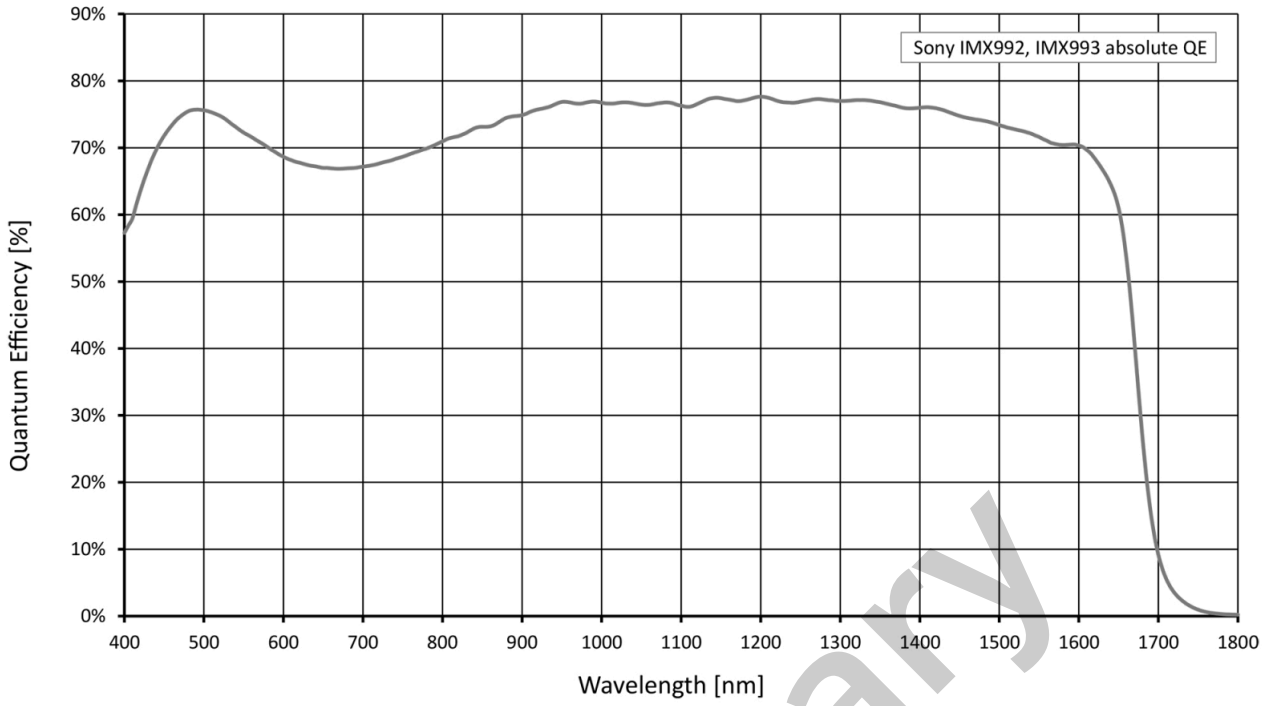
Image buffer (RAM)	256 KByte
Non-volatile memory (Flash)	1024 KByte

Interfaces

Digital interface	FPD-Link III, based on MIPI CSI-2, up to 4 lanes

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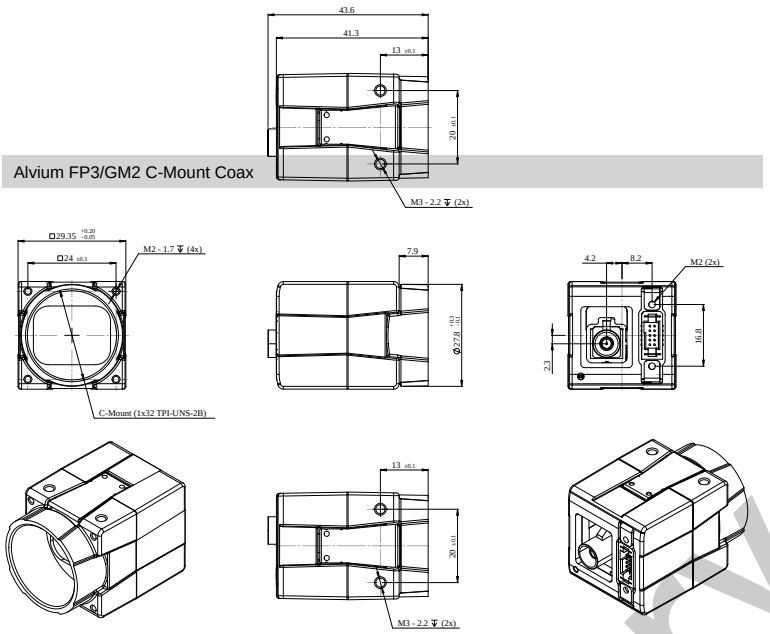
Quantum Efficiency



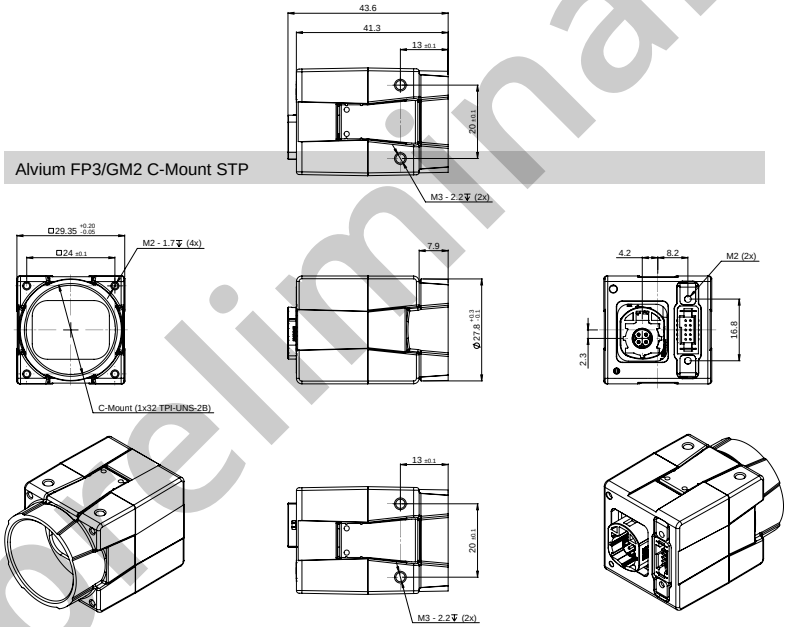
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Technical Drawing

Alvium FP3/GM2 C-Mount Coax



Alvium FP3/GM2 C-Mount STP



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