



Alvium C

Alvium 1800 C-530 VSWIR

Alvium 1800 C-530 VSWIR innovative MIPI CSI-2 camera with Sony IMX992 SenSWIR InGaAs global shutter sensor provides industrial performance for cost effective embedded vision applications.

General

Model	Alvium 1800 C-530 VSWIR
Product series	Alvium C
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono
Spectrum	SWIR, Visible SWIR
Spectral range	400 nm to 1700 nm
Resolution	2,592 × 2,056 (5.30 MP)
Sensor model	Sony IMX992 InGaAs
Sensor architecture (material)	cmos-ingaas
Shutter type(s)	Global shutter (GS)
Sensor size	8.9 × 7.1 mm (11.4 mm, Type 1/1.4)
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
Bayer pixel formats	BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

Timing and gain

Max. frame rate	84 fps
Exposure time	36 µs to 10 s

Timing and gain

Gain	0.0 dB to 42.0 dB
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I/Os and power

Non-isolated lines	2 programmable GPIOs
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Power supply	5 VDC over MIPI CSI-2
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Power consumption	Typical: 2.7 W
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Operating conditions

Operating temperature (housing)	-20 °C to 55 °C ((housing))
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Mechanical properties

Body dimensions (L x W x H in mm)	26 × 29 × 29
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Lens mount(s)	C-Mount, CS-Mount
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Weight	40 g
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On-board memory and FPGA

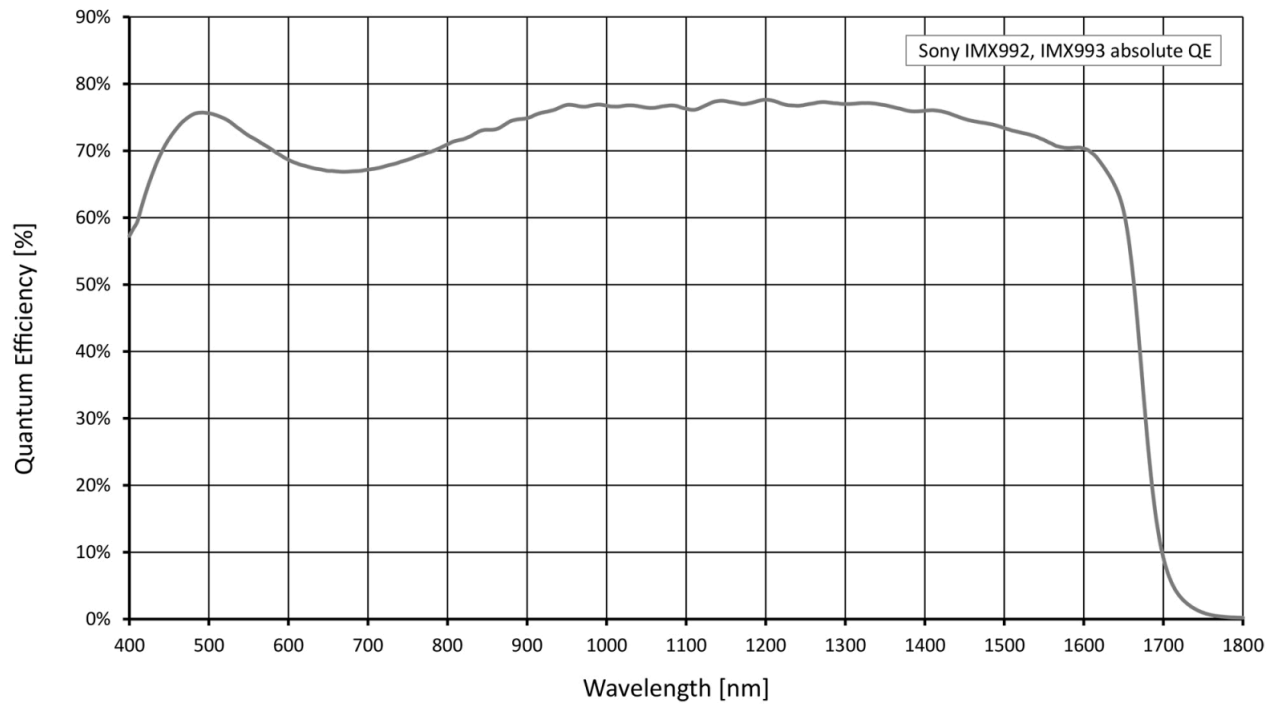
Image buffer (RAM)	256 KByte
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Non-volatile memory (Flash)	1024 KByte
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Interfaces

Digital interface	MIPI CSI-2, up to 4 lanes
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Quantum Efficiency



Technical Drawing

