



Alvium C

Alvium 1800 C-234

Alvium 1800 C-234 innovative MIPI CSI-2 camera with Sony IMX249 CMOS global shutter sensor provides industrial performance for cost effective embedded vision applications.

General

Model	Alvium 1800 C-234
Product series	Alvium C
Status	Available

Sensor

Sensor type	Area scan
Chroma	Mono or Color
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	1,936 × 1,216 (2.40 MP)
Sensor model	Sony IMX249
Shutter type(s)	Global Shutter
Sensor size	13.4 mm ø (Type 1/1.2)
Pixel size	5.86 µm × 5.86 µm

Pixel formats

Monochrome pixel formats	GREY, RAW10, RAW12, RAW8, Y10, Y12
YUV pixel formats	UYVY, YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit
RGB pixel formats	BGR8, RGB3, RGB8 (default), RGB888 (default)
Bayer pixel formats	BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

Timing and gain

Max. frame rate	40 fps
Exposure time	34 µs to 10 s

Timing and gain

Gain	0.0 dB to 48.0 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: 1.9 W
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Operating conditions

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

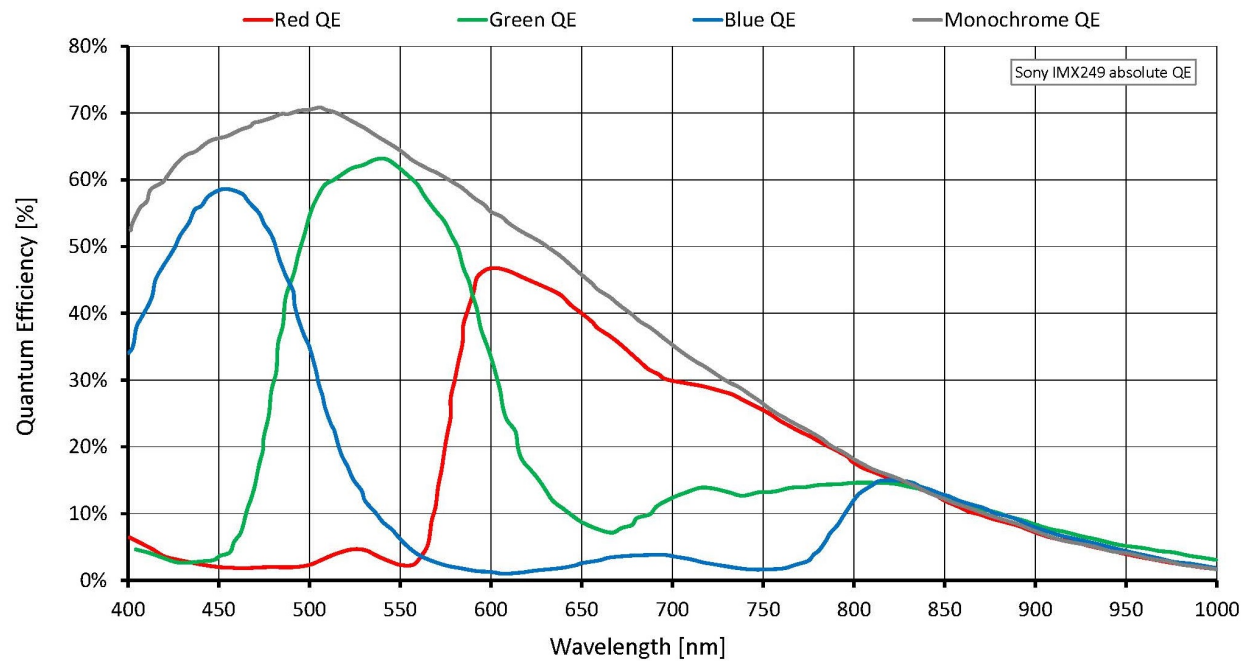
Image buffer (RAM)	256 KByte
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Non-volatile memory (Flash)	1024 KByte
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Interfaces

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



Technical Drawing

