



Alvium GM2

Alvium GM2-234

Alvium GM2-234 innovative V camera with Sony IMX249 CMOS global shutter sensor provides industrial performance for cost effective embedded vision applications.

General

Model	Alvium GM2-234
Product series	Alvium GM2
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
Sensor architecture (material)	CMOS
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

Sensor bit depth	10-bit, 12-bit; Adaptive (10-bit, 12-bit)
Monochrome pixel formats	Mono8, Mono10, Mono10p, Mono12, Mono12p, RAW8, RAW10, RAW12, GREY, Y10, Y12
YUV pixel formats	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr, YUV422 8-bit, UYVY
RGB pixel formats	RGB8 (default), BGR8, RGB888 (default), RGB3
Bayer pixel formats	BayerGR8, BayerGR10, BayerGR10p, BayerGR12, BayerGR12p

Timing and gain

Max. frame rate	Mainly depends on hardware and register settings.
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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))
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Mechanical properties

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

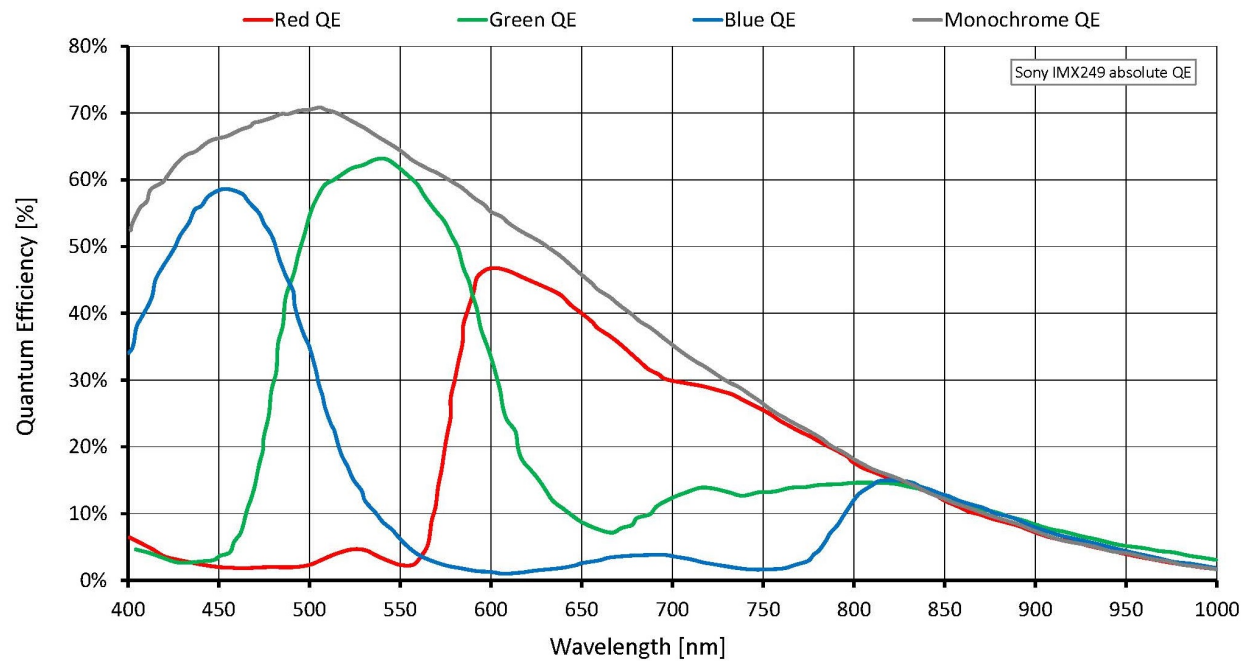
On-board memory and FPGA

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

Interfaces

Digital interface	GMSL2, based on MIPI CSI-2, up to 4 lanes
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Quantum Efficiency



Technical Drawing

