Allied Vision

Alvium C

Alvium 1800 C-203



Alvium 1800 C-203 innovative MIPI CSI-2 camera with Sony IMX422 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model	Alvium 1800 C-203
Product series	Alvium C
Status	Available

Sensor

Sensor type	Area scan
Chroma	Color, Mono
Spectrum	Visible
Spectral range	300 nm to 1100 nm
Resolution	1,632 × 1,248 (2.00 MP)
Sensor model	Sony IMX422
Sensor architecture (material)	cmos
Shutter type(s)	Global shutter (GS)
Sensor size	7.3 × 5.6 mm (9.2 mm, Type 1/1.7)
Pixel size	4.50 µm × 4.50 µm

Pixel formats

Sensor bit depth	10-bit, 12-bit, 8-bit
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	225 fps
Exposure time	18 µs to 10 s
Gain	0.0 dB to 48.0 dB

I/Os and power

Non-isolated lines	2 programmable GPIOs
Power supply	5 VDC over MIPI CSI-2
Power consumption	Typical: 3.1 W

Operating conditions

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

Mechanical properties

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

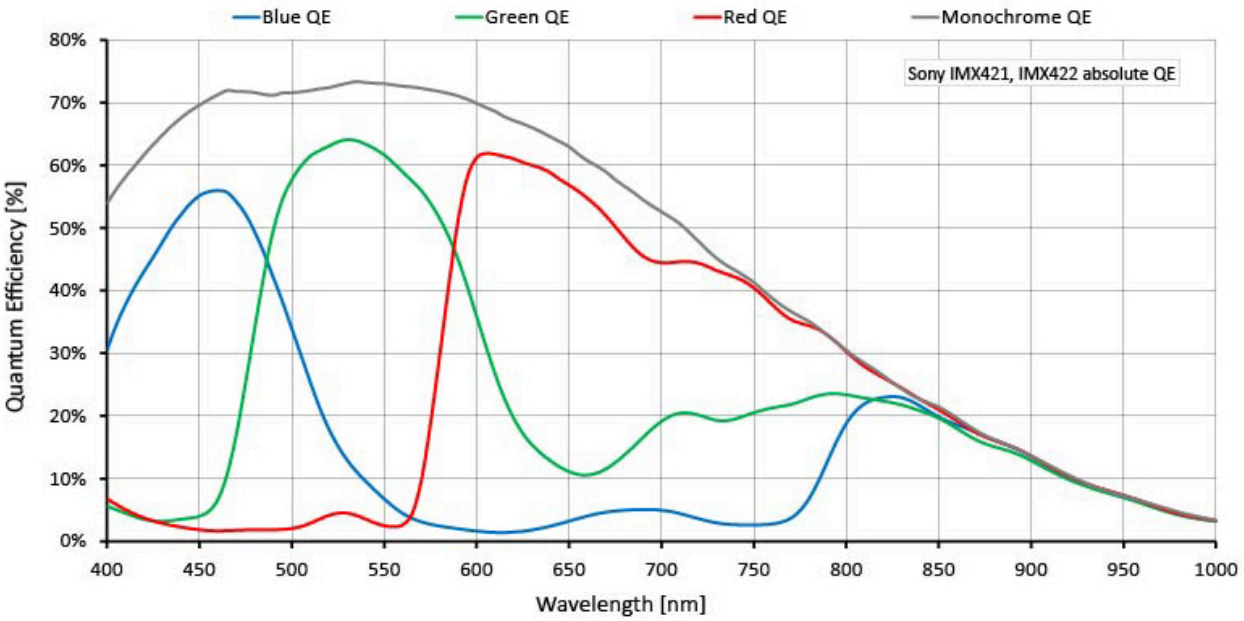
On-board memory and FPGA

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

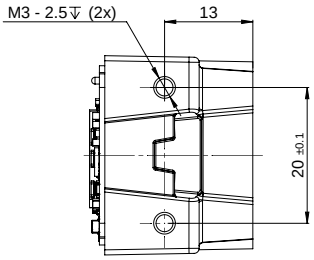
Interfaces

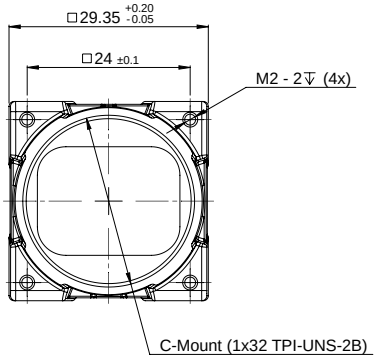
Digital interface	MIPI CSI-2, up to 4 lanes

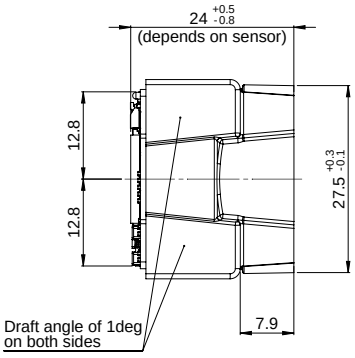
Quantum Efficiency

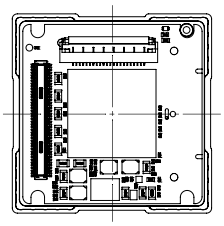


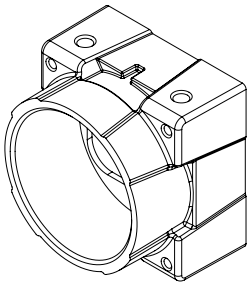
Technical Drawing

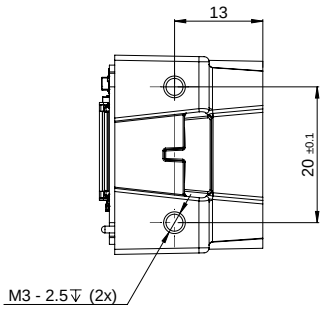


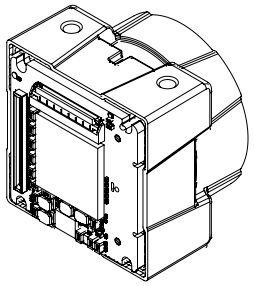












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