Allied Vision

Alvium 1800 C

Alvium 1800 C-158

Alvium 1800 C-158 innovative MIPI CSI-2 camera with Sony IMX273 CMOS global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

General

Model:	Alvium 1800 C-158
Product series:	Alvium 1800 C
Status:	Available

Sensor

Sensor type:	Area scan
Chroma:	Mono or Color
Spectrum:	Visible
Spectral range:	300 nm to 1100 nm
Resolution:	1,456 × 1,088 (1.60 MP)
Sensor model:	Sony IMX273
Shutter type(s):	Global Shutter
Sensor size:	6.3 mm ø (Type 1/2.9)
Pixel size:	3.45 µm × 3.45 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)

Pixel formats

Bayer pixel formats:	BayerGR10, BayerGR10p, BayerGR12, BayerGR12p, BayerGR8

Imaging performance

Quantum efficiency @ 529 nm:	64 %

Timing and gain

Max. frame rate:	262 fps
Exposure time:	28 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: 2.4 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, S-Mount
Weight:	40 g

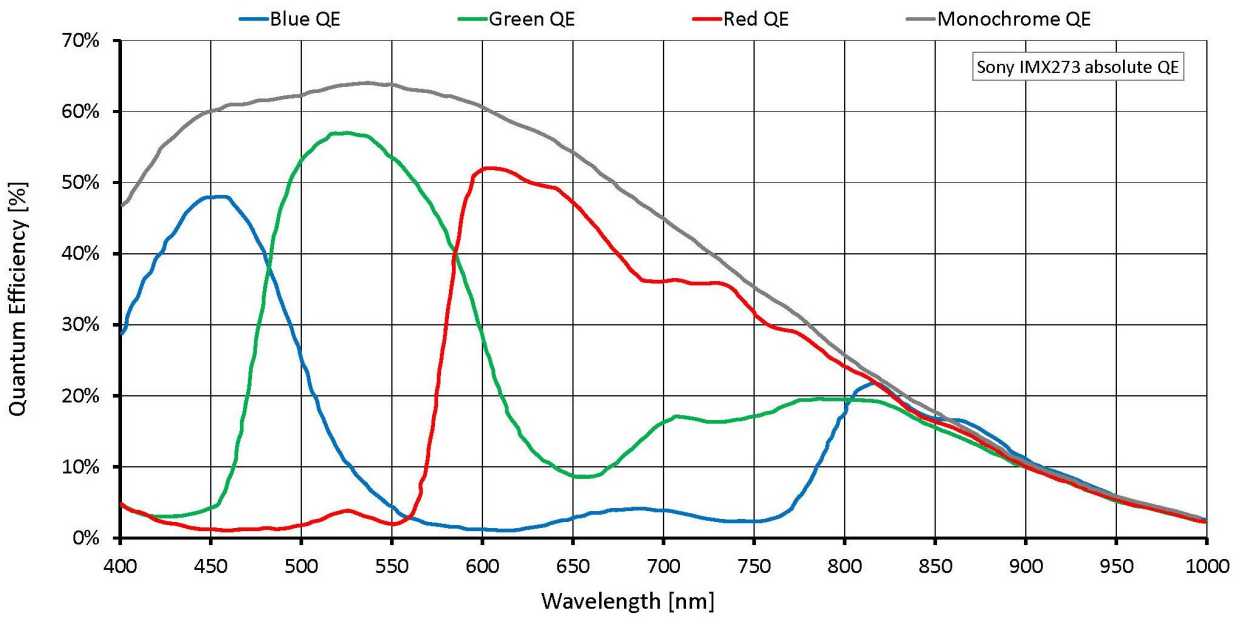
On-board memory and FPGA

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

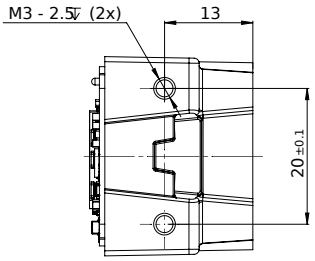
Interfaces

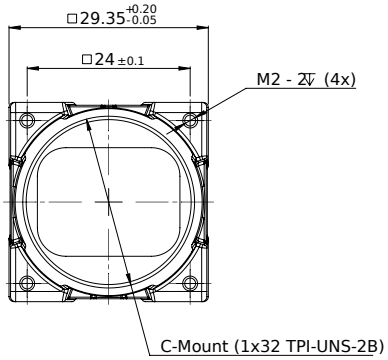
Digital interface:	MIPI CSI-2, up to 4 lanes

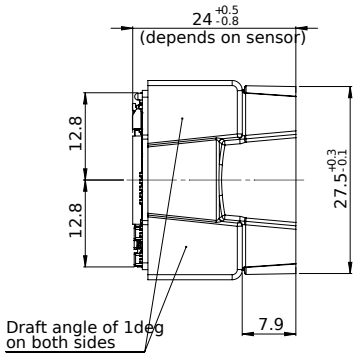
Quantum Efficiency

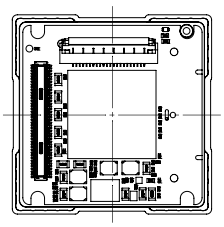


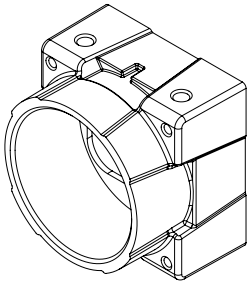
Technical Drawing

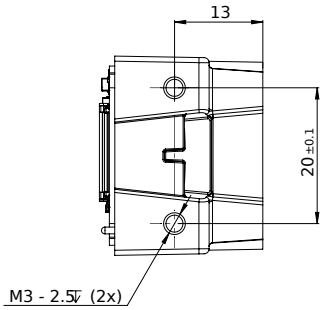


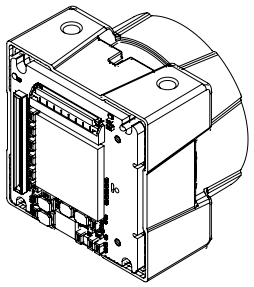












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