Alvium 1800 U

Alvium 1800 U-511



Alvium 1800 U-511 innovative USB camera with Sony IMX547 global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

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□□	Alvium 1800 U-511
□□□□	Alvium 1800 U
□□	Available

□□□	
□□□□□	Area scan
□□	Color, Mono
□□	Visible
□□□□	300 nm to 1100 nm
□□□	2,464 × 2,064 (5.10 MP)
□□□□□	Sony IMX547
□□□□□ (□□)	cmos
□□□□	Global shutter (GS)
□□□□□	6.8 × 5.7 mm (8.8 mm, Type 1/1.8)
□□□□	2.74 µm × 2.74 µm

□□□□	
□□□□□	12-bit
YUV □□□□	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB □□□□	BGR8, RGB8 (default)
Bayer □□□□	BayerRG12

□□□□	
□□□□ @ 529 nm	68 %

□□□□□

□□□□□	79 fps
□□□□	8 µs to 10 s
□□	0.0 dB to 48.0 dB

I/O □□□

□□□□	4 programmable GPIOs
□□□□	Power over USB 3.1 Gen 1 | External power 5.0 V
□□	USB power: 3.2 W (typical) | Ext. power: 3.4 W (typical)

□□□□

□□□□ (□□)	-20 °C to 65 °C ((housing))

□□□□

□□□□ (□ x □ x □ mm)	38 × 29 × 29
□□□□	C-Mount, CS-Mount, S-Mount
□□	65 g

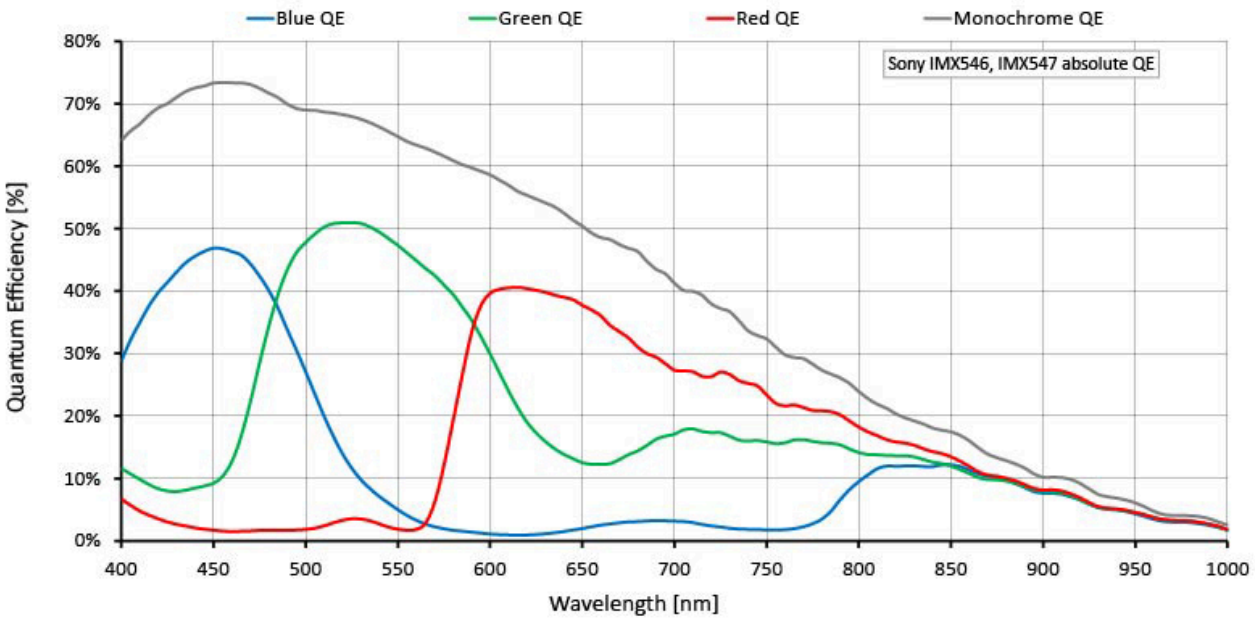
□□□□□□ FPGA

□□□□□ (RAM)	256 KByte
□□□□□□□ (Flash)	1024 KByte

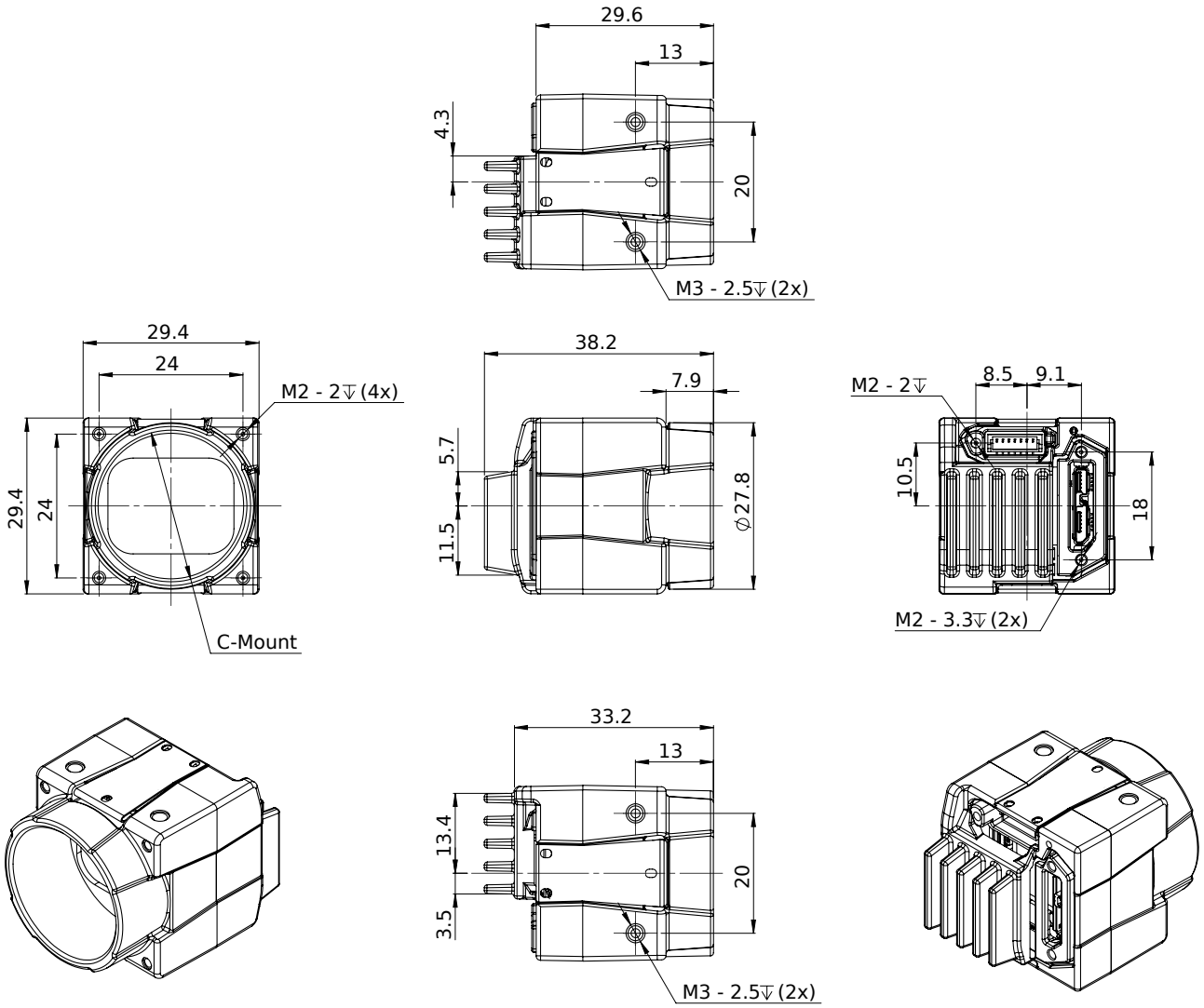
□□

□□□□	usb3.0
□□□□	USB3 Vision

□□□□


Blue QE
Green QE
Red QE
Monochrome QE
Sony IMX546, IMX547 absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]

□□□□


29.6
13
4.3
20
M3 - 2.5↧(2x)
29.4
24
M2 - 2↧(4x)
29.4
24
C-Mount
38.2
7.9
5.7
11.5
Ø27.8
M2 - 2↧
8.5
9.1
10.5
18
M2 - 3.3↧(2x)
33.2
13
13.4
3.5
20
M3 - 2.5↧(2x)