Alvium 1800 U

Alvium 1800 U-030 VSWIR



Alvium 1800 U-030 VSWIR innovative USB camera with Sony IMX991 SenSWIR InGaAs global shutter sensor provides industrial performance for cost effective embedded and machine vision applications.

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□□	Alvium 1800 U-030 VSWIR
□□□□	Alvium 1800 U
□□	Available

□□□	
□□□□□	Area scan
□□	Mono
□□	SWIR, eXtended SWIR
□□□□	400 nm to 1700 nm
□□□	656 × 520 (0.30 MP)
□□□□□	Sony IMX991 | InGaAs
□□□□□ (□□)	cmos-ingaas
□□□□	Global shutter (GS)
□□□□□	3.3 × 2.6 mm (4.1 mm, Type 1/4)
□□□□	5.00 µm × 5.00 µm

□□□□	
□□□□□	10-bit, 12-bit, 8-bit
□□□□□□	Mono8 (default)

□□□□□	
□□□□□	249 fps
□□□□	15 µs to 10 s
□□	0.0 dB to 42.0 dB

I/O □□□

□□□□	4 programmable GPIOs
□□□□	Power over USB 3.1 Gen 1 | External power 5.0 V
□□	USB power: 2.0 W (typical) | Ext. power: 2.2 W (typical)

□□□□

□□□□ (□□)	-20 °C to 55 °C ((housing))

□□□□

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

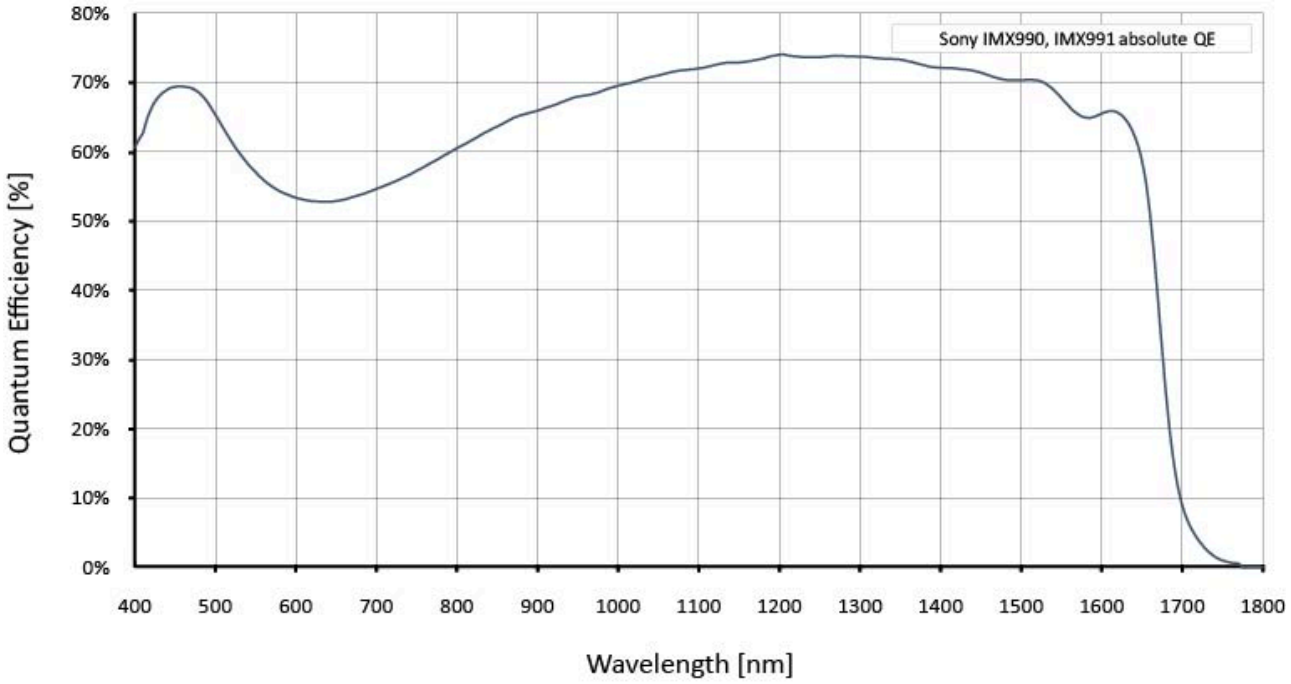
□□□□□□ FPGA

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

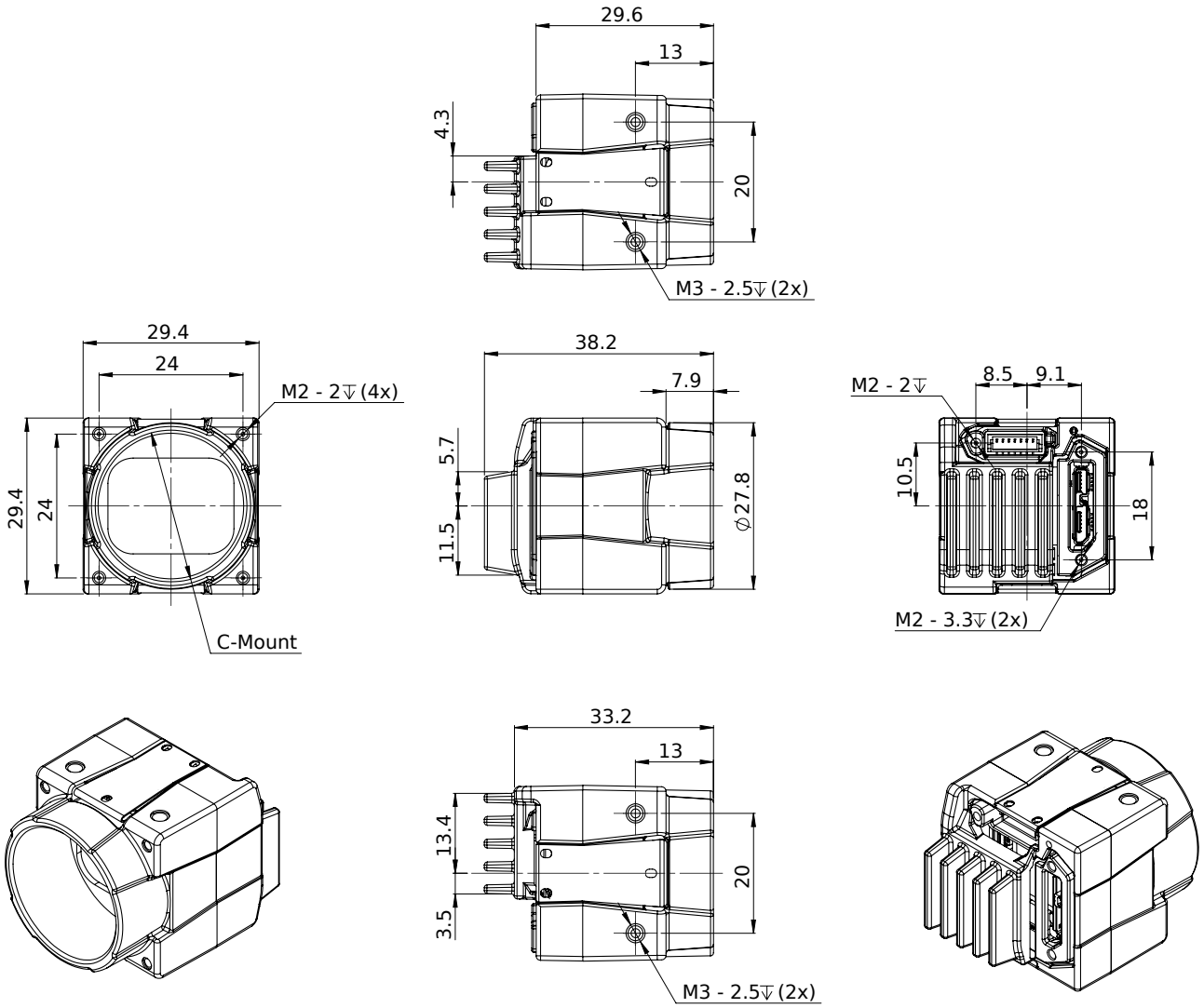
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□□□□	usb3.0
□□□□	USB3 Vision

□□□□


Sony IMX990, IMX991 absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
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)