

Allied Vision

Alvium G1

Alvium G1-130 VSWIR

Alvium G1-130 VSWIR innovative GigE camera with global shutter Sony IMX990 SenSWIR InGaAs sensor enables short wave infrared (SWIR) imaging with industrial performance for various machine vision applications.

般	
型號	Alvium G1-130 VSWIR
產品系列	Alvium G1
狀態	Available

感測器	
感測器類型	Area scan
色度	Mono
光譜	SWIR, Visible SWIR
光譜範圍	400 nm to 1700 nm
解析度	1,296 × 1,032 (1.30 MP)
感測器型號	Sony IMX990 | InGaAs
感測器架構 (材料)	cmos-ingaas
快門類型	Global shutter (GS)
感測器尺寸	6.4 × 5.1 mm (8.2 mm, Type 1/2)
像素大小	5.00 µm × 5.00 µm

像素格式	
感測器位深	10-bit, 12-bit, 8-bit
單色像素格式	Mono8 (default)

時序與增益	
最大影格率	88 fps
曝光時間	19 µs to 10 s
增益	0.0 dB to 42.0 dB

I/O 與電源

非隔離線	2 GPIOs (LVTTL)
光隔離線	1 input, 1 output
電源供應	10.8 to 26.4 VDC AUX | IEEE 802.3af, Power Class 0 PoE
功耗	External power: 2.9 W at 12 VDC (typical) | Power over Ethernet: 3.2 W (typical)

操作條件

操作溫度	-20 °C to 55 °C (機殼)

機械特性

機殼尺寸 (長 x 寬 x 高 mm)	41 × 29 × 29
鏡頭接口	C-Mount, CS-Mount
重量	70 g

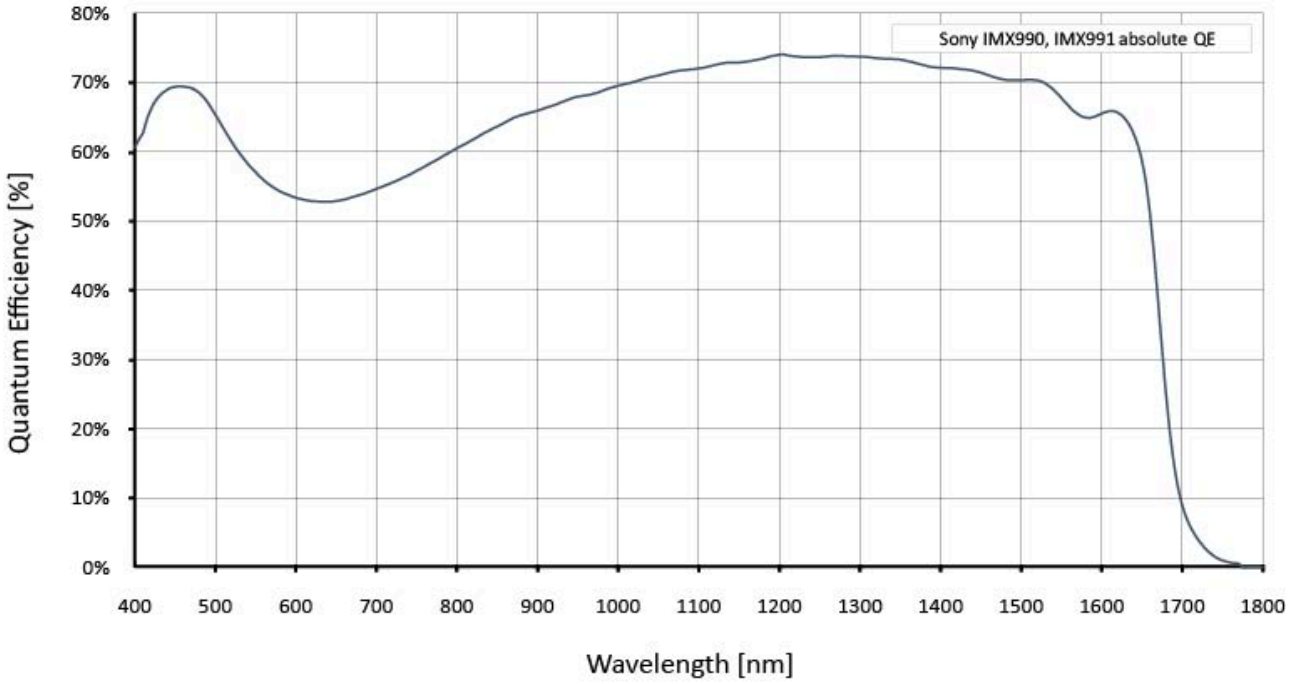
板載記憶體與 FPGA

影像緩衝區 (RAM)	32 MByte
非揮發性記憶體 (Flash)	1024 KByte

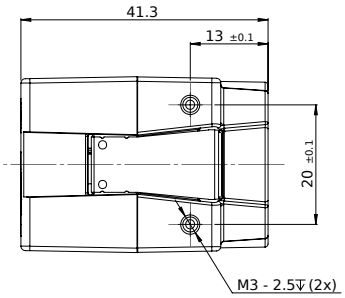
介面

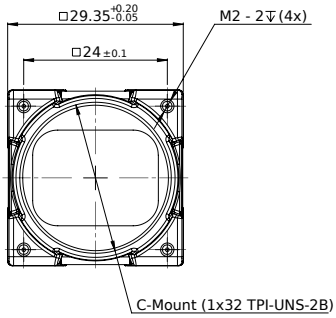
數位介面	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)

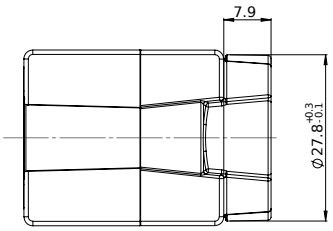
□□□□

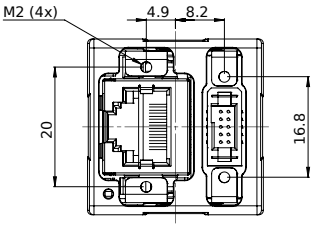

Sony IMX990, IMX991 absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
Wavelength [nm]

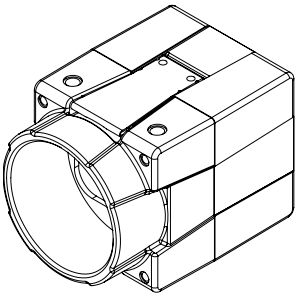
□□□□

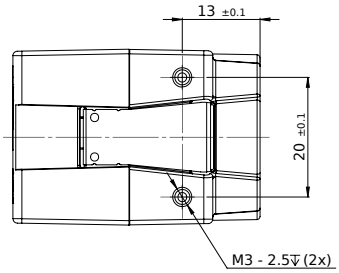

41.3
13 ±0.1
20 ±0.1
M3 - 2.5↧(2x)


□29.35+0.20 -0.05
M2 - 2↧(4x)
□24 ±0.1
C-Mount (1x32 TPI-UNS-2B)


7.9
Ø27.8+0.3 -0.1


M2 (4x)
4.9
8.2
20
16.8




13 ±0.1
20 ±0.1
M3 - 2.5↧(2x)

