Allied Vision

Alvium G1

Alvium G1-030 VSWIR



Alvium G1-030 VSWIR innovative GigE camera with global shutter Sony IMX991 SenSWIR InGaAs sensor enables short wave infrared (SWIR) imaging with industrial performance for various machine vision applications.

一般

型號	Alvium G1-030 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	656 × 520 (0.30 MP)
感測器型號	Sony IMX991 | InGaAs
感測器架構 (材料)	cmos-ingaas
快門類型	Global shutter (GS)
感測器尺寸	3.3 × 2.6 mm (4.1 mm, Type 1/4)
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	249 fps
曝光時間	15 µs to 10 s

時序與增益

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: 2.8 W at 12 VDC (typical) | Power over Ethernet: 3.1 W (typical)

操作條件

操作溫度 (機殼)	-20 °C to 55 °C ((housing))

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

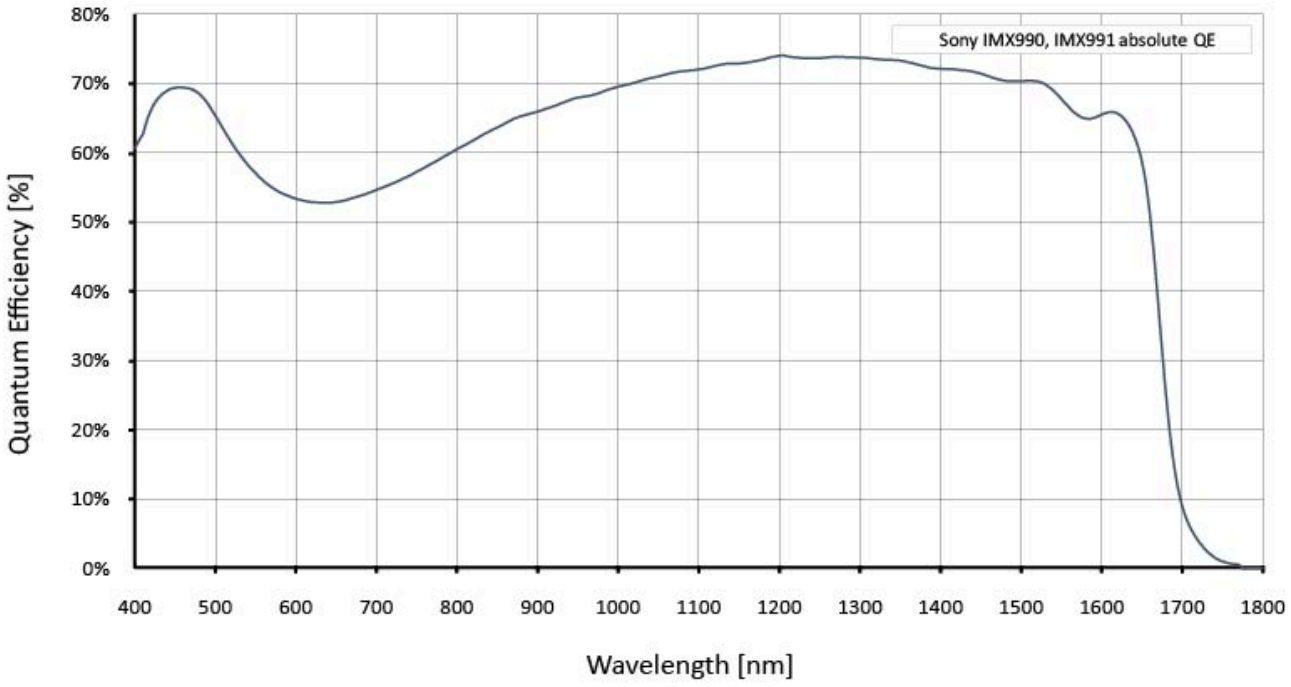
板載記憶體與 FPGA

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

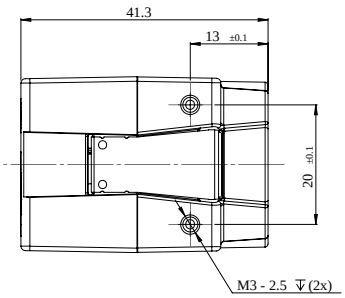
介面

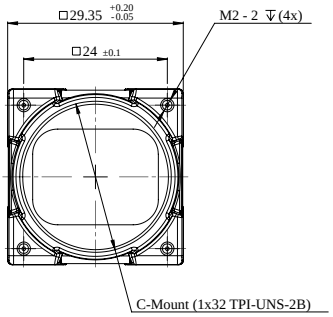
數位介面	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)

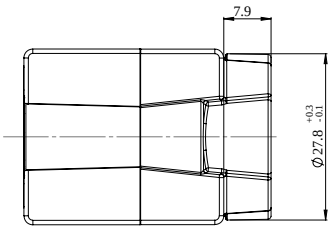
量子效率

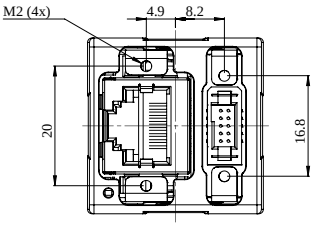

Sony IMX990, IMX991 absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
Wavelength [nm]

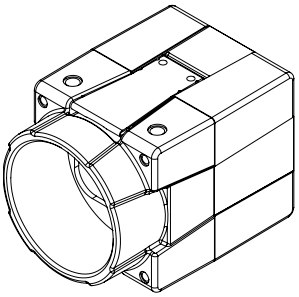
技術圖紙

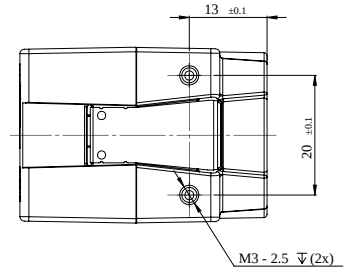

41.3
13 ±0.1
20 ±0.1
M3 - 2.5 ↧(2x)


□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)

