Allied Vision

Alvium G1

Alvium G1-1242



Alvium G1-1242 innovative GigE camera with Sony IMX545 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

一般

型號	Alvium G1-1242
產品系列	Alvium G1
狀態	Available

感測器

感測器類型	Area scan
色度	Color, Mono
光譜	Visible
光譜範圍	300 nm to 1100 nm
解析度	4,128 × 3,008 (12.40 MP)
感測器型號	Sony IMX545
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	11.3 × 8.2 mm (14 mm, Type 1/1.1)
像素大小	2.74 µm × 2.74 µm

像素格式

感測器位深	12-bit
YUV 像素格式	YCbCr411_8_CbYYCrYY, YCbCr422_8_CbYCrY, YCbCr8_CbYCr
RGB 像素格式	BGR8, RGB8 (default)
Bayer 像素格式	BayerRG12

影像性能

量子效率 @ 529 nm	68 %

時序與增益

最大影格率	9 fps
曝光時間	37 µs to 10 s
增益	0.0 dB to 48.0 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: 3.8 W at 12 VDC (typical) | Power over Ethernet: 4.0 W (typical)

操作條件

操作溫度 (機殼)	-20 °C to 65 °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

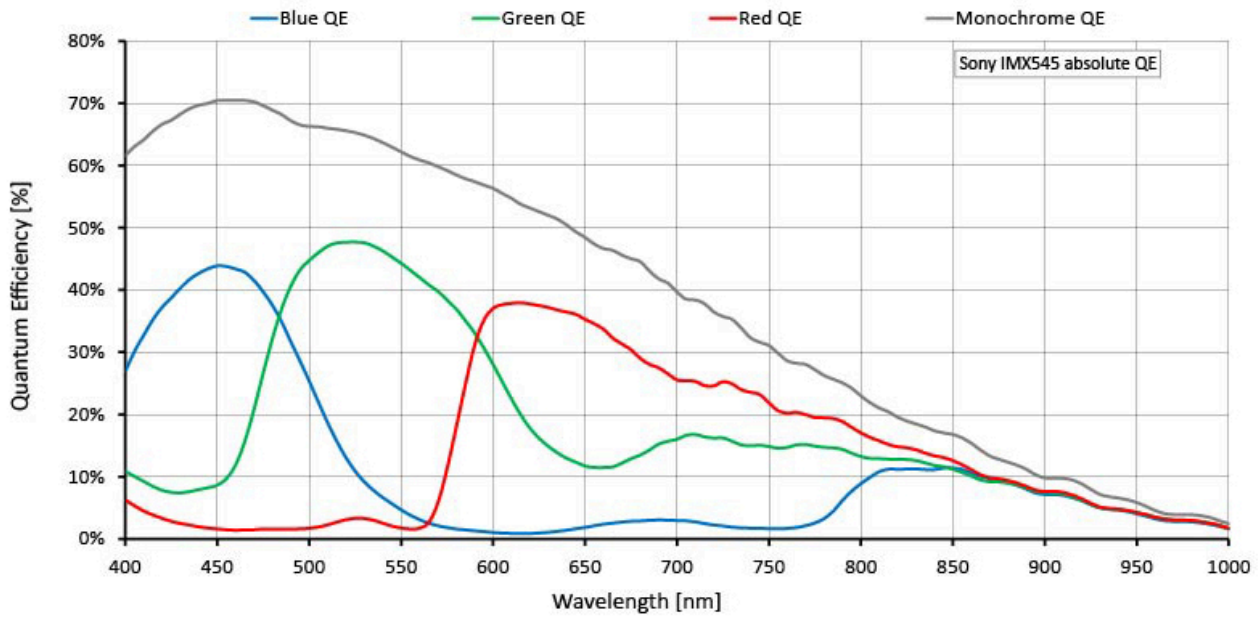
板載記憶體與 FPGA

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

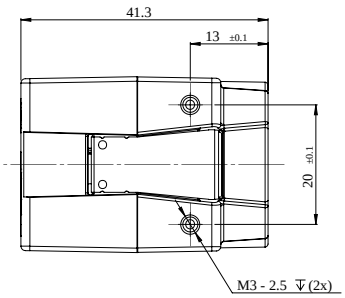
介面

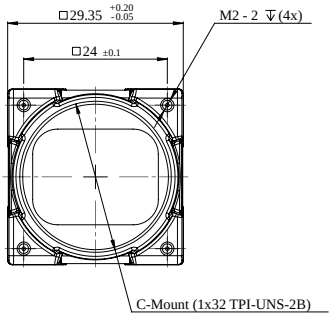
數位介面	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)

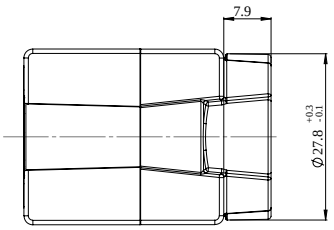
量子效率

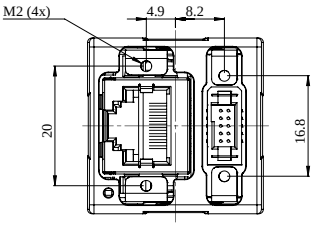

Blue QE
Green QE
Red QE
Monochrome QE
Sony IMX545 absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]

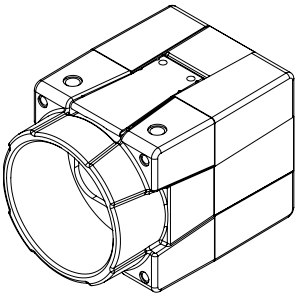
技術圖紙

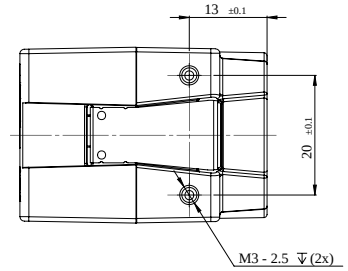

41.3
13 ±0.1
20 ±0.1
M3 - 2.5 ↧(2x)


□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)

