Allied Vision

Alvium G5

Alvium G5-1240



Alvium G5-1240 innovative 5GBASE-T camera with Sony IMX226 CMOS rolling shutter sensor provides industrial performance for cost effective machine vision applications.

一般

型號	Alvium G5-1240
產品系列	Alvium G5
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	4,024 × 3,036 (12.20 MP)
感測器型號	Sony IMX226
感測器架構 (材料)	cmos
快門類型	Global Reset Shutter, Rolling shutter (RS)
感測器尺寸	7.4 × 5.6 mm (9.3 mm, Type 1/1.7)
像素大小	1.85 µm × 1.85 µm

像素格式

感測器位深	10-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	74 %

時序與增益

最大影格率	42 fps
曝光時間	10 µs to 10 s
增益	0.0 dB to 27.0 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: 6.1 W at 12 VDC (typical) | Power over Ethernet: 6.8 W (typical)

操作條件

操作溫度 (機殼)	-20 °C to 60 °C (housing temperature)

機械特性

機殼尺寸 (長 x 寬 x 高 mm)	60 × 29 × 29
鏡頭接口	C-Mount, CS-Mount
重量	100 g

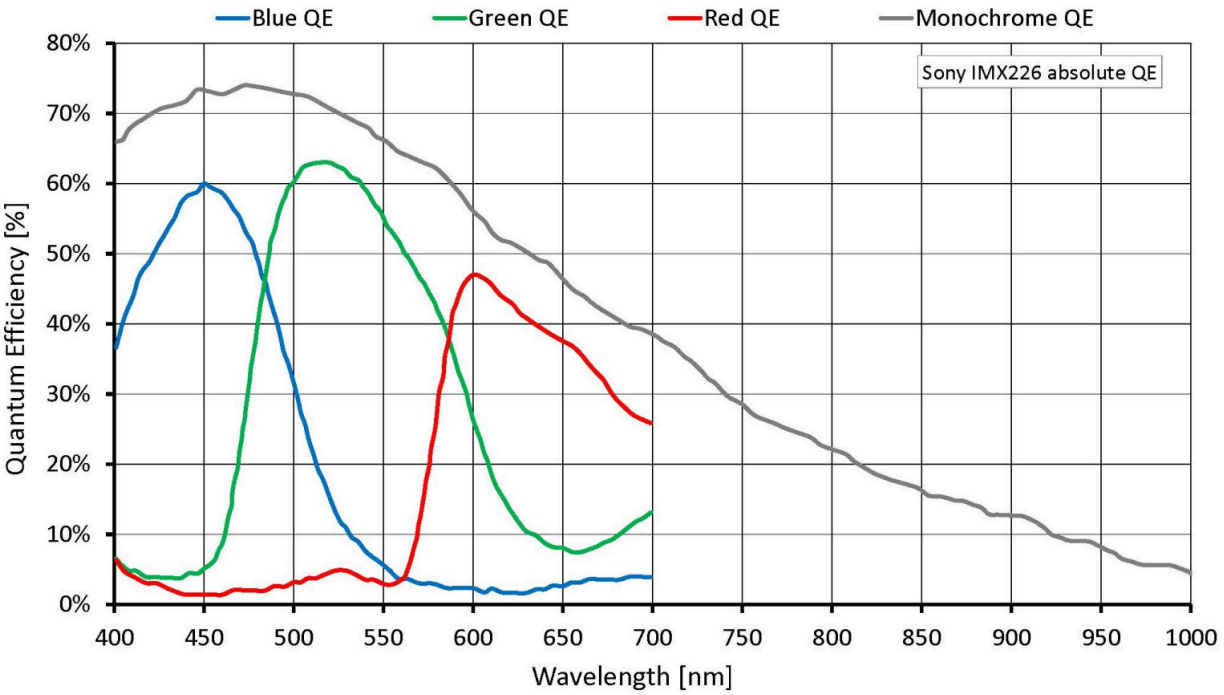
板載記憶體與 FPGA

影像緩衝區 (RAM)	512 MByte
非揮發性記憶體 (Flash)	1024 KByte

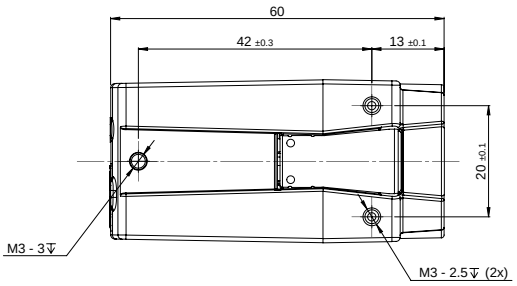
介面

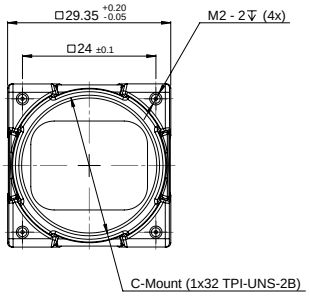
數位介面	IEEE 802.3: 5GBASE-T or 2.5GBASE-T (NBASE-T) and 1000BASE-T, IEEE 802.3af Power Class 0 PoE

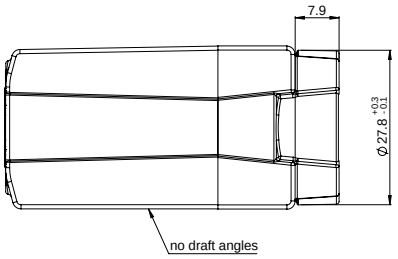
量子效率

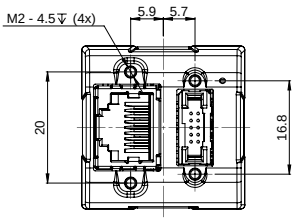

Blue QE
Green QE
Red QE
Monochrome QE
Sony IMX226 absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]

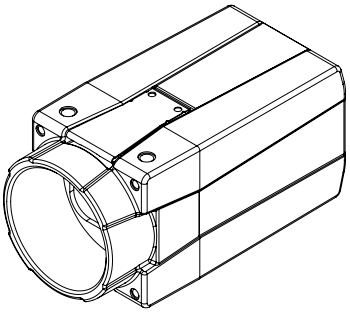
技術圖紙

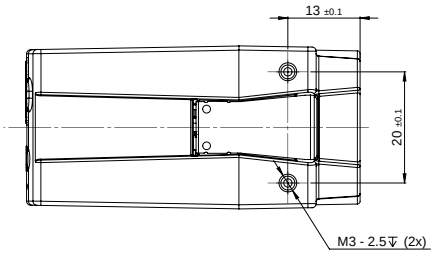


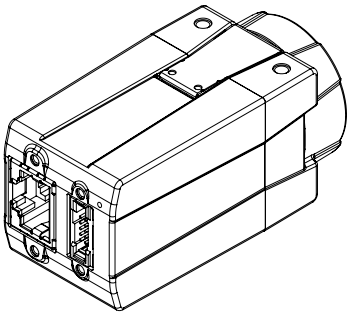












Allied Vision