

Allied Vision

Alvium G5

Alvium G5-511

Alvium G5-511 innovative 5GBASE-T camera with Sony IMX547 CMOS global shutter sensor provides industrial performance for cost effective machine vision applications.

一般	
型號	Alvium G5-511
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	2,464 × 2,064 (5.10 MP)
感測器型號	Sony IMX547
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	6.8 × 5.7 mm (8.8 mm, Type 1/1.8)
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	79 fps
曝光時間	8 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: 6.5 W at 12 VDC (typical) | Power over Ethernet: 7.1 W (typical)

操作條件

操作溫度	-20 °C to 60 °C (機殼)

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, S-Mount
重量	100 g

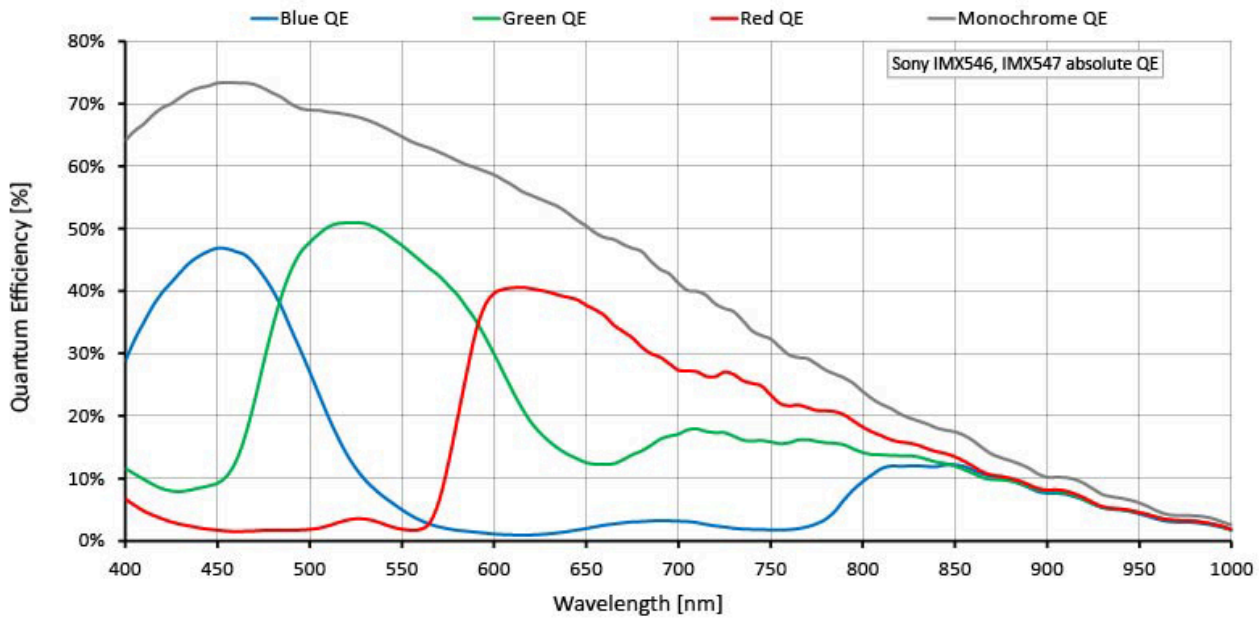
板載記憶體與 FPGA

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

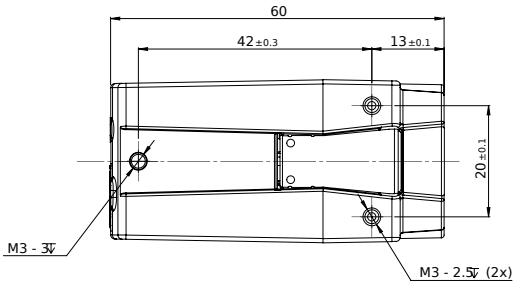
介面

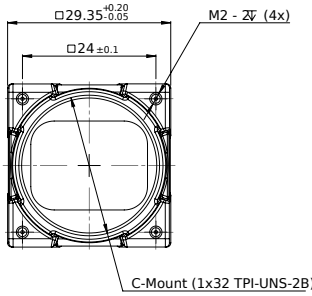
數位介面	IEEE 802.3: 5GBASE-T or 2.5GBASE-T (NBASE-T) and 1000BASE-T, IEEE 802.3af Power Class 0 PoE

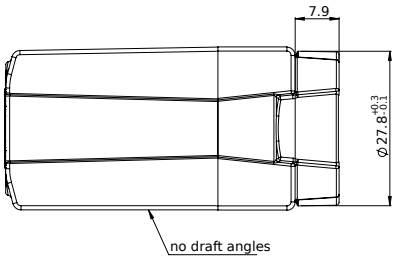
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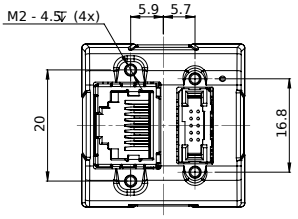

Blue QE
Green QE
Red QE
Monochrome QE
Sony IMX546, IMX547 absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]

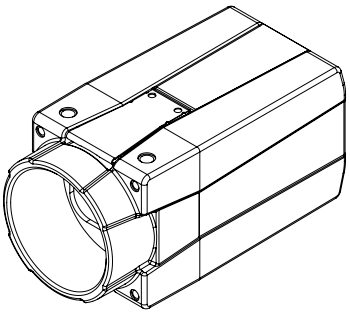
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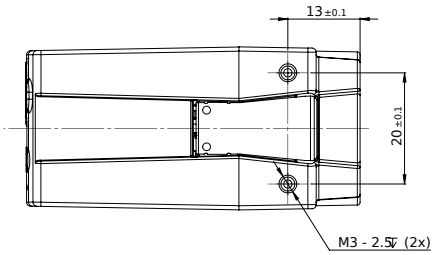

60
42 ±0.3
13 ±0.1
20 ±0.1
M3 - 3↧
M3 - 2.5↧ (2x)


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


7.9
Ø27.8 +0.3 -0.1
no draft angles


M2 - 4.5↧ (4x)
5.9
5.7
20
16.8




13 ±0.1
20 ±0.1
M3 - 2.5↧ (2x)

