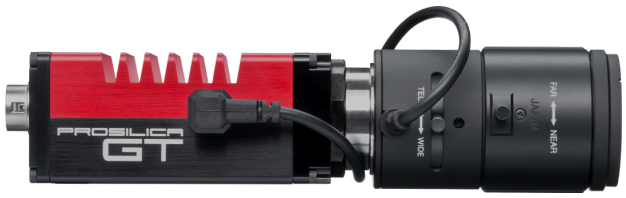
Allied Vision



Prosilica GT

Prosilica GT 2050NIR

Prosilica GT2050NIR is a 4.2 Megapixel camera with a GigE Vision compliant Gigabit Ethernet port and Hirose I/O port. This camera incorporates a NIR-optimized variant of the high-quality CMOSIS/ams CMV4000 CMOS sensor. At 900 nm this sensor offers double the quantum efficiency, an increase from 8% to 16% absolute.

一般

型號	Prosilica GT 2050NIR
產品系列	Prosilica GT
狀態	Available

感測器

感測器類型	Area scan
色度	Mono
光譜	Visible NIR
解析度	2,048 × 2,048 (4.20 MP)
感測器型號	CMOSIS/ams CMV4000 NIR
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	11.26 × 11.26 mm (16 mm, Type 1)
像素大小	5.50 µm × 5.50 µm

像素格式

感測器位深	12-bit

影像性能

量子效率 @ 529 nm	79 %
量子效率 @ 850 nm	42 %

時序與增益

最大影格率	28 fps
曝光時間	50 µs to 126 s
增益	0.0 dB to 26.0 dB

I/O 與電源

非隔離線	1 input, 2 outputs
特定非隔離線	1
光隔離線	1 input, 2 outputs
電源供應	7 to 25 VDC AUX or 802.3at Type 1 PoE
功耗	3.5 W at 12 VDC; 4.3 W PoE

操作條件

操作溫度 (機殼)	-20 °C to 65 °C (ambient (without condensation))

機械特性

機殼尺寸 (長 x 寬 x 高 mm)	86 × 53 × 33
重量	210 g

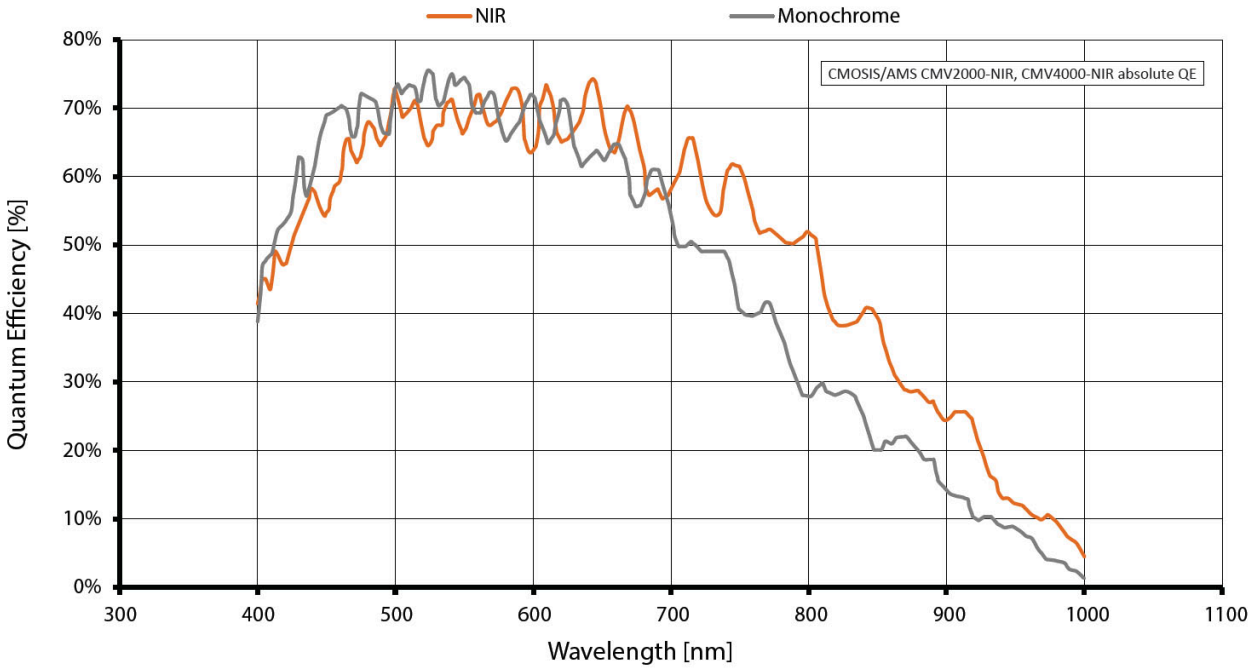
板載記憶體與 FPGA

影像緩衝區 (RAM)	128 MByte
非揮發性記憶體 (Flash)	1024 KByte

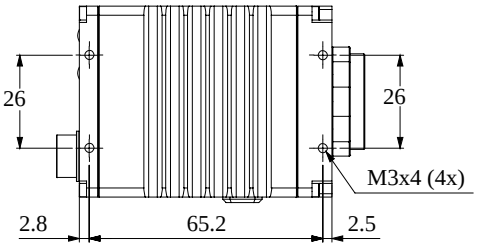
介面

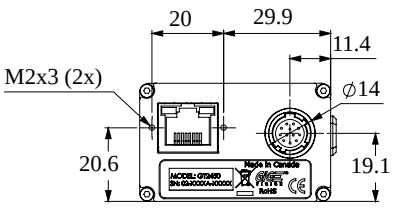
數位介面	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)

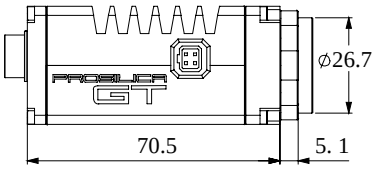
量子效率

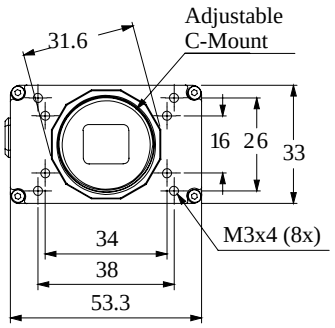

NIR
Monochrome
CMOSIS/AMS CMV2000-NIR, CMV4000-NIR absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
300
400
500
600
700
800
900
1000
1100
Wavelength [nm]

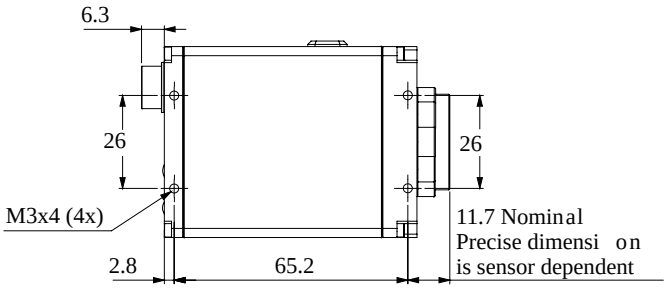
技術圖紙


26
26
M3x4 (4x)
2.8
65.2
2.5


20
29.9
11.4
M2x3 (2x)
⌀14
20.6
19.1


⌀26.7
70.5
5. 1


Adjustable
C-Mount
31.6
16
26
33
M3x4 (8x)
34
38
53.3


6.3
26
26
M3x4 (4x)
11.7 Nominal
Precise dimensi on
is sensor dependent
2.8
65.2