Allied Vision



Prosilica GT

Prosilica GT 1930L

Prosilica GT1930L is a 2.35 megapixel camera with a GigE Vision compliant Gigabit Ethernet port and Hirose I/O port. This camera incorporates the high quality Sony IMX174 Exmor CMOS sensor with Pregius global shutter technology providing excellent monochrome and color image quality.

一般

型號	Prosilica GT 1930L
產品系列	Prosilica GT
狀態	Available

感測器

感測器類型	Area scan
色度	Color, Mono
光譜	Visible
解析度	1,936 × 1,216 (2.40 MP)
感測器型號	Sony IMX174
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	11.34 × 7.13 mm (13.4 mm, Type 1/1.2)
像素大小	5.86 µm × 5.86 µm

像素格式

感測器位深	12-bit
YUV 像素格式	YUV411Packed, YUV422Packed, YUV444Packed
RGB 像素格式	BGR8Packed, RGB8Packed
Bayer 像素格式	BayerRG12

影像性能

量子效率 @ 529 nm	69 %

時序與增益

最大影格率	50 fps
曝光時間	27 µs to 85 s
增益	0.0 dB to 40.0 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	3.24 W at 12 VDC; 3.88 W PoE

操作條件

操作溫度 (機殼)	-30 °C to 70 °C (housing (without condensation))

機械特性

機殼尺寸 (長 x 寬 x 高 mm)	96 × 66 × 53
重量	372 g

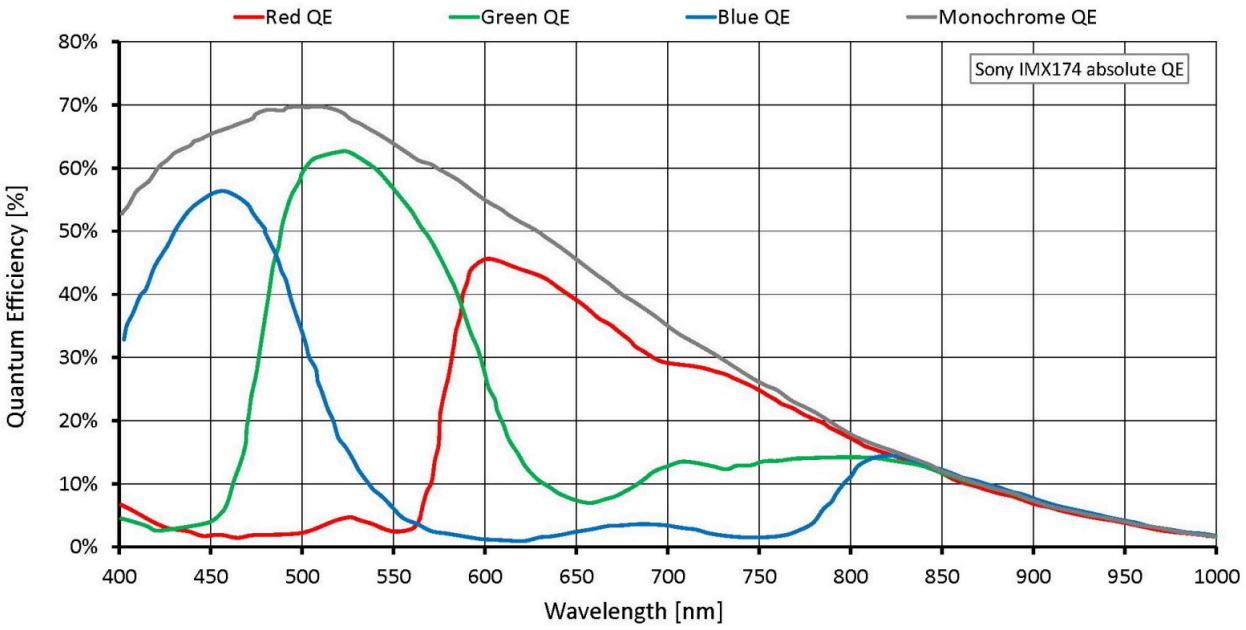
板載記憶體與 FPGA

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

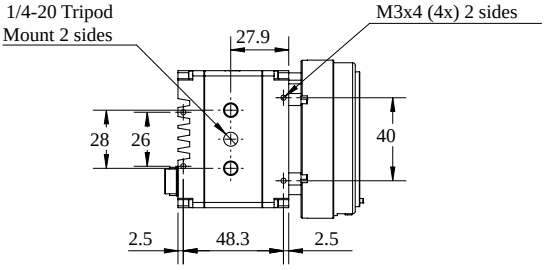
介面

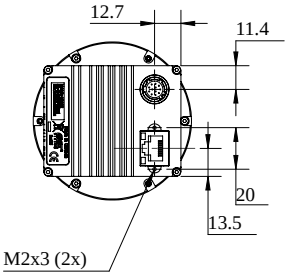
數位介面	IEEE 802.3 1000BASE-T, IEEE 802.3af (PoE)

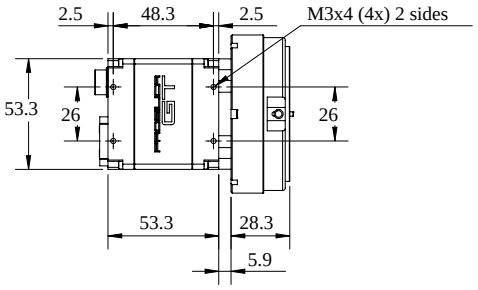
量子效率

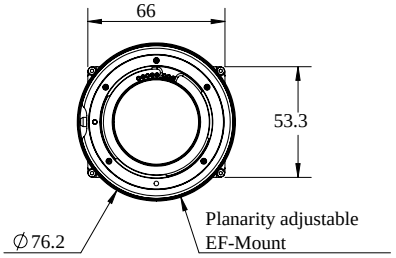

Red QE
Green QE
Blue QE
Monochrome QE
Sony IMX174 absolute QE
Quantum Efficiency [%]
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]

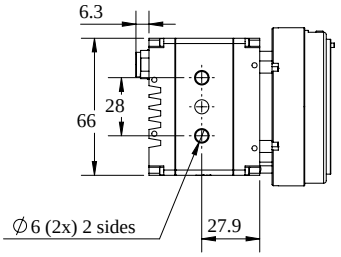
技術圖紙


1/4-20 Tripod
Mount 2 sides
M3x4 (4x) 2 sides
27.9
28
26
40
2.5
48.3
2.5


12.7
11.4
20
13.5
M2x3 (2x)


2.5
48.3
2.5
M3x4 (4x) 2 sides
53.3
26
26
53.3
28.3
5.9


66
53.3
∅76.2
Planarity adjustable
EF-Mount


6.3
66
28
∅6 (2x) 2 sides
27.9