Allied Vision

Alvium 1500 C

Alvium 1500 C-120

Alvium C-1500-120 innovative MIPI CSI-2 camera with ON Semi AR0135CS CMOS global shutter sensor provides industrial performance for cost effective embedded applications.

般	
型號	Alvium 1500 C-120
產品系列	Alvium 1500 C
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	1,280 × 960 (1.20 MP)
感測器型號	ON Semi AR0135CS
感測器架構 (材料)	cmos
快門類型	Global shutter (GS)
感測器尺寸	4.8 × 3.6 mm (6 mm, Type 1/3)
像素大小	3.75 µm × 3.75 µm

像素格式	
感測器位深	10-bit
單色像素格式	GREY, RAW10, RAW12, RAW8, Y10, Y12
YUV 像素格式	UYVY, YUV422 8-bit
RGB 像素格式	RGB3, RGB888 (default)

影像性能	
量子效率 @ 529 nm	69 %

時序與增益	
最大影格率	52 fps
曝光時間	57 µs to 8 s

時序與增益

增益	0.0 dB to 17.7 dB

I/O 與電源

非隔離線	2 programmable GPIOs
電源供應	5 VDC over MIPI CSI-2
功耗	Typical: 1.1 W

操作條件

操作溫度	-20 °C to 65 °C (機殼)

機械特性

機殼尺寸 (長 x 寬 x 高 mm)	26 × 29 × 29
鏡頭接口	C-Mount, CS-Mount, S-Mount
重量	40 g

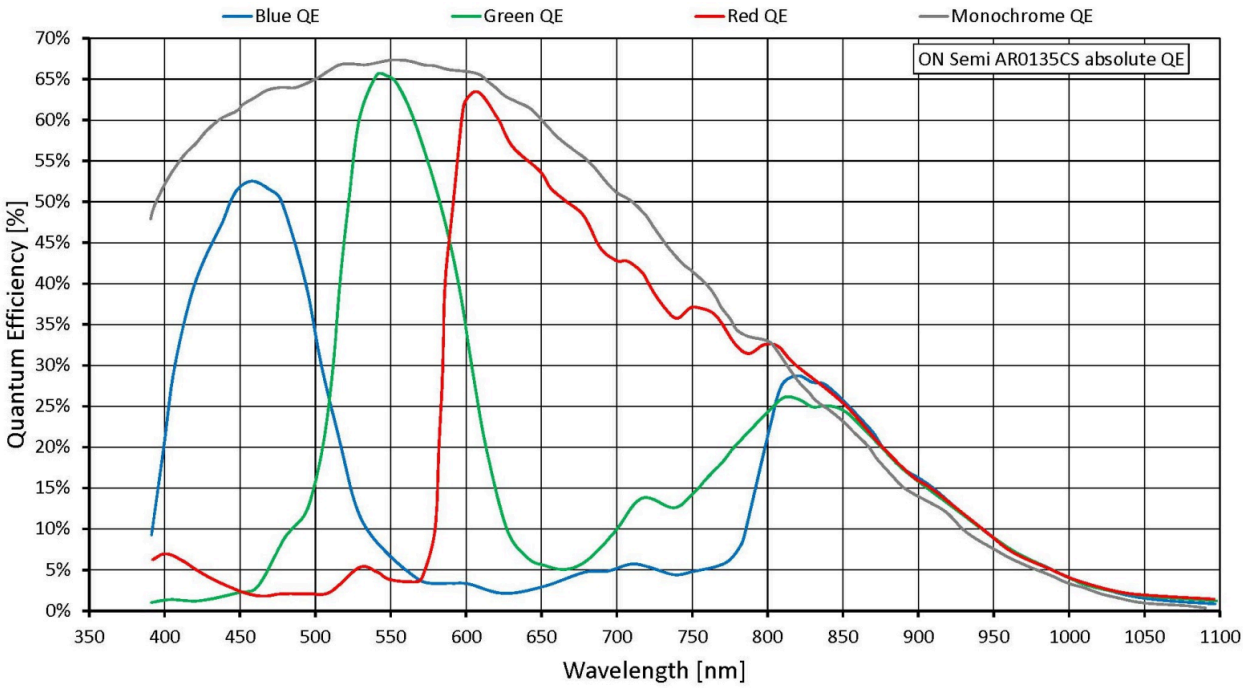
板載記憶體與 FPGA

影像緩衝區 (RAM)	256 KByte
非揮發性記憶體 (Flash)	1024 KByte

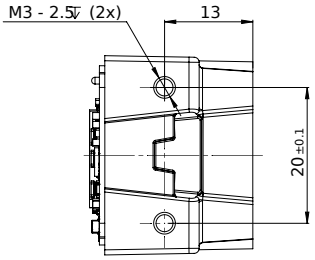
介面

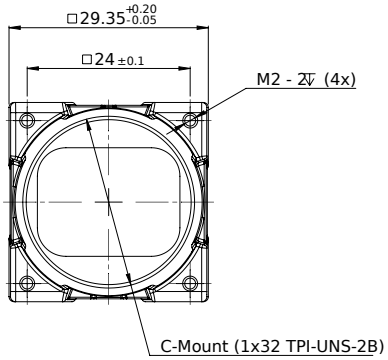
數位介面	MIPI CSI-2, up to 4 lanes

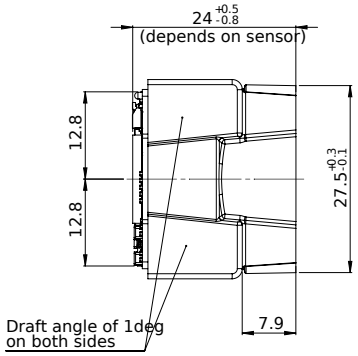
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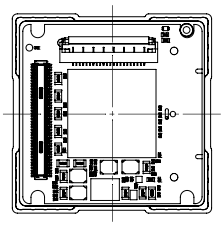

Blue QE
Green QE
Red QE
Monochrome QE
ON Semi AR0135CS absolute QE
Quantum Efficiency [%]
70%
65%
60%
55%
50%
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
350
400
450
500
550
600
650
700
750
800
850
900
950
1000
1050
1100
Wavelength [nm]

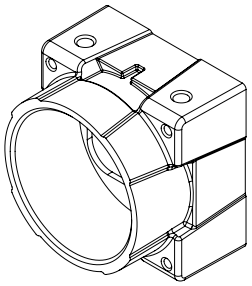
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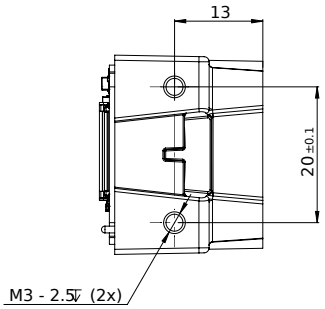

M3 - 2.5↧ (2x)
13
20 ±0.1


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


24 +0.5 -0.8
(depends on sensor)
12.8
12.8
27.5 +0.3 -0.1
Draft angle of 1deg
on both sides
7.9






13
20 ±0.1
M3 - 2.5↧ (2x)

