Allied Vision

# Alvium G5

## Alvium G5-2050



Alvium G5-2050 innovative 5GBASE-T camera with Sony IMX183 CMOS rolling shutter sensor provides industrial performance for cost effective machine vision applications.

## 一般

| | |
|---|---|
| 型號 | Alvium G5-2050 |
| 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 | 5,496 × 3,672 (20.20 MP) |
| 感測器型號 | Sony IMX183 |
| 感測器架構 (材料) | cmos |
| 快門類型 | Global Reset Shutter, Rolling shutter (RS) |
| 感測器尺寸 | 13.1 × 8.8 mm (15.9 mm, Type 1) |
| 像素大小 | 2.40 µm × 2.40 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 | 80 % |

## 時序與增益

| | |
|---|---|
| 最大影格率 | 26 fps |
| 曝光時間 | 13 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: 6.5 W at 12 VDC (typical) \| Power over Ethernet: 7.0 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 |

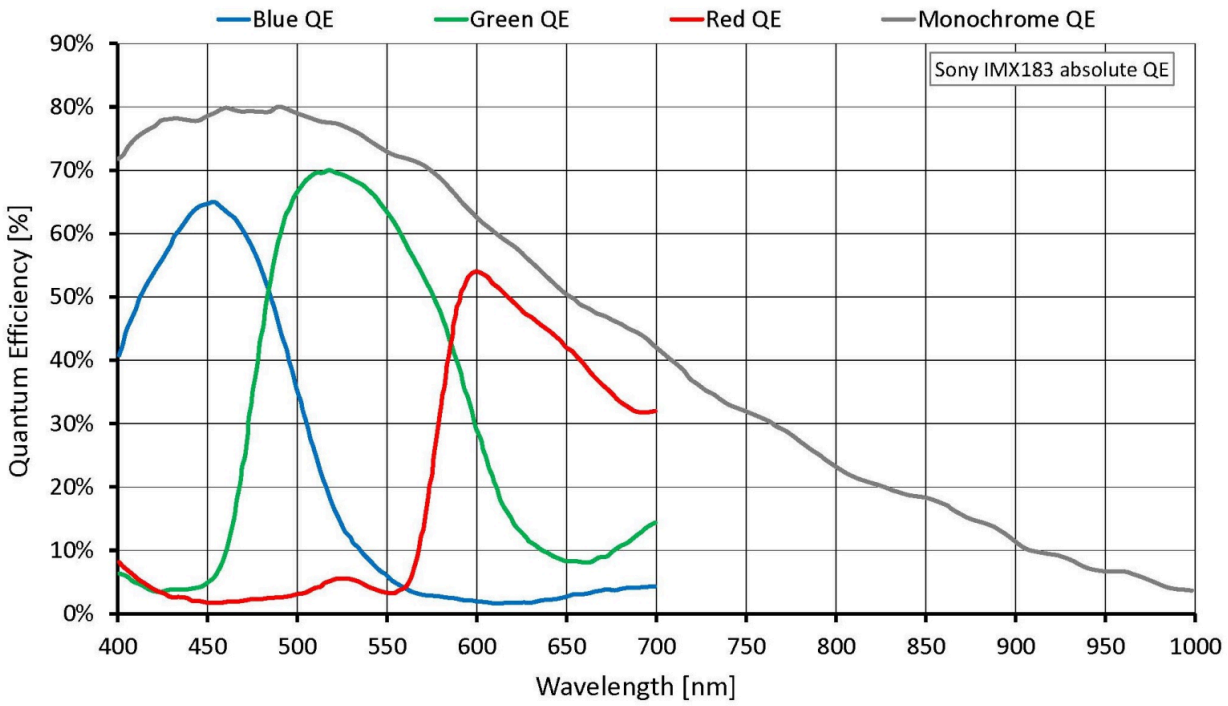
## 板載記憶體與 FPGA

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

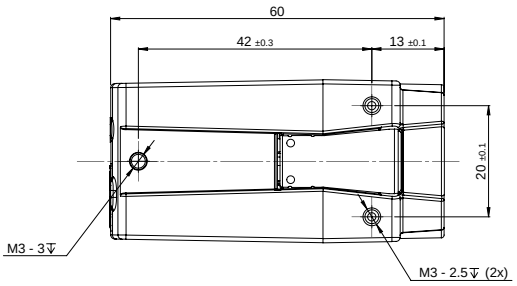
## 介面

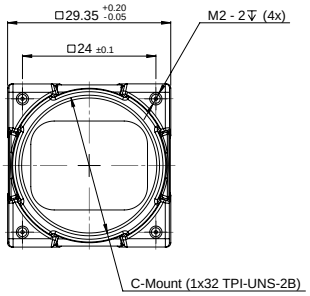
| | |
|---|---|
| 數位介面 | IEEE 802.3: 5GBASE-T or 2.5GBASE-T (NBASE-T) and 1000BASE-T, IEEE 802.3af Power Class 0 PoE |

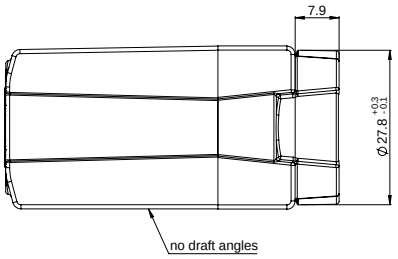
## 量子效率

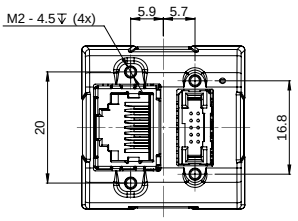

Blue QE
Green QE
Red QE
Monochrome QE
Sony IMX183 absolute QE
Quantum Efficiency [%]
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
400
450
500
550
600
650
700
750
800
850
900
950
1000
Wavelength [nm]

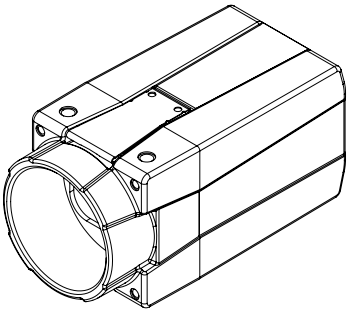
# 技術圖紙

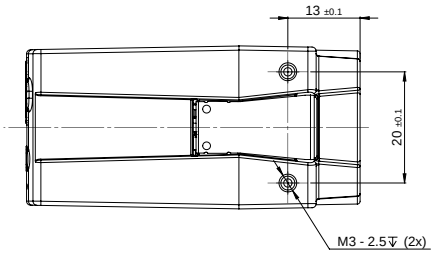


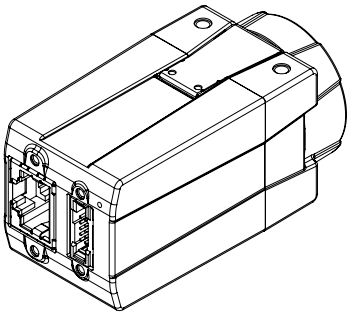





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