



# HR CoaXPress

hr342CCX

## 一般

|      |              |
|------|--------------|
| 型號   | hr342CCX     |
| 產品編號 | F004073      |
| 產品系列 | HR CoaXPress |
| 狀態   | Available    |

## 感測器

|            |                                        |
|------------|----------------------------------------|
| 感測器類型      | Area scan                              |
| 色度         | Color                                  |
| 光譜         | Visible                                |
| 光譜範圍       | 400 nm to 1000 nm                      |
| 解析度        | 6,464 × 4,852 (31.40 MP)               |
| 感測器型號      | Sony IMX342                            |
| 感測器架構 (材料) | cmos                                   |
| 快門類型       | Global shutter (GS)                    |
| 感測器尺寸      | 22.3 × 16.74 mm (27.88 mm, Type APS-C) |
| 像素大小       | 3.45 µm × 3.45 µm                      |

## 像素格式

|          |                 |
|----------|-----------------|
| 感測器位深    | 8-bit, 12-bit   |
| RGB 像素格式 | bayer8, bayer12 |

## 影像性能

|      |         |
|------|---------|
| 動態範圍 | 70.5 dB |
| 訊噪比  | 39.9 dB |

## 時序與增益

|       |                    |
|-------|--------------------|
| 最大影格率 | 35.7 fps           |
| 曝光時間  | 19 $\mu$ s to 60 s |
| 增益    | 0.0 dB to 48.0 dB  |

## I/O 與電源

|         |                                                                                                       |
|---------|-------------------------------------------------------------------------------------------------------|
| 非隔離線    | 0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 4 x Open drain output, |
| 特定非隔離線  | 1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,                                 |
| 光隔離線    | 1 x Optical isolated input, 0 x Optical isolated input,                                               |
| I/O 連接器 | 12-pin Hirose HR10A-10P-12S                                                                           |
| 電源供應    | 10 to 25VDC, Power over CoaXPress                                                                     |
| 功耗      | External: 12 W (typical)                                                                              |

## 操作條件

|           |                 |
|-----------|-----------------|
| 操作溫度 (機殼) | -10 °C to 65 °C |
|-----------|-----------------|

## 機械特性

|                     |                    |
|---------------------|--------------------|
| 機殼尺寸 (長 x 寬 x 高 mm) | 78 x 70 x 70       |
| 濾光片/保護玻璃            | N-BK7 - AR coating |
| 防護等級                | IP30               |
| 鏡頭接口                | M58x0.75           |
| 重量                  | 400 g              |

## 板載記憶體與 FPGA

|                 |           |
|-----------------|-----------|
| 非揮發性記憶體 (Flash) | 160 MByte |
|-----------------|-----------|

## 介面

|       |                          |
|-------|--------------------------|
| 數位介面  | cxp-6 with 4 connections |
| 介面連接器 | (Din1.0/2.3)             |
| 視覺標準  | CoaXPress 1.0            |

## FW 功能 – 影像控制

|      |              |
|------|--------------|
| 曝光模式 | manual, auto |
|------|--------------|

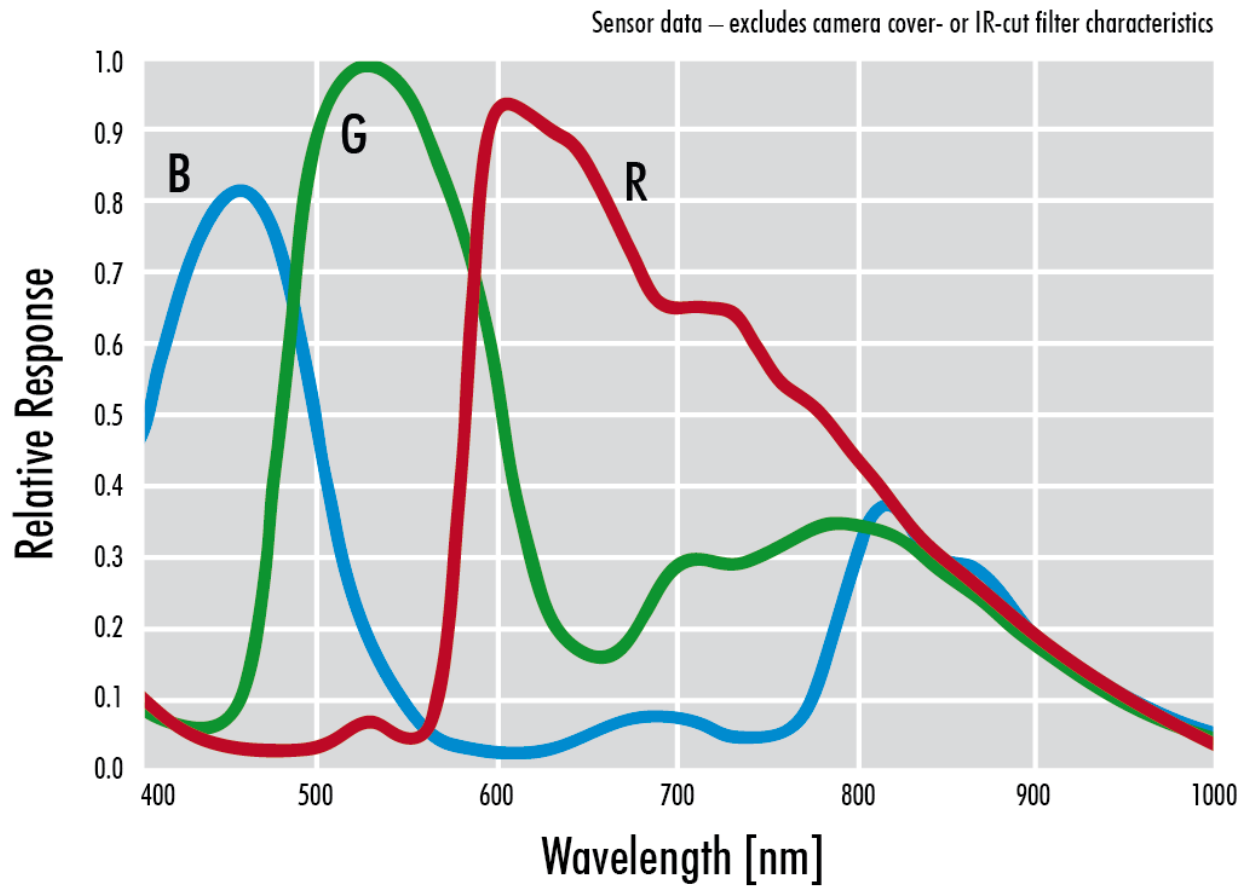
## FW 功能 – 影像控制

|        |                                                      |
|--------|------------------------------------------------------|
| 增益模式   | auto, manual                                         |
| 白平衡模式  | auto, manual                                         |
| 影像控制功能 | roi, lut, mirror-image, dpc, shading-correction, ffc |

## FW 功能 – 相機控制

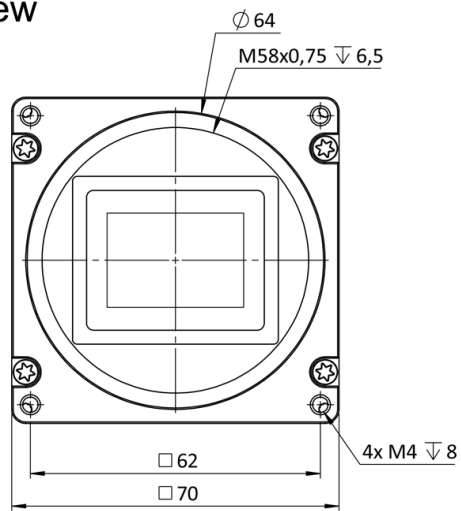
|         |                                      |
|---------|--------------------------------------|
| 觸發模式/同步 | internal, software, external         |
| 相機控制功能  | PoCxP, User Sets, PWM(4), Sequencer, |

量子效率

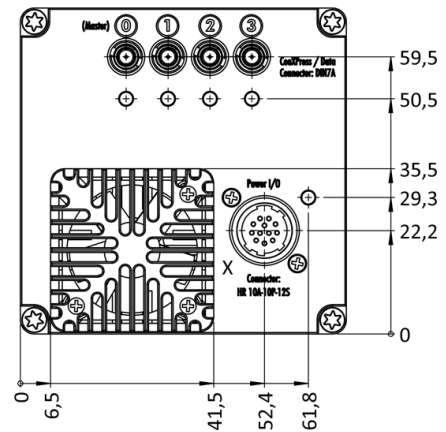


## 技術圖紙

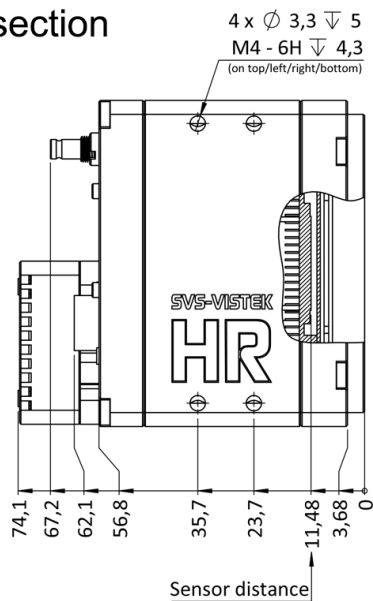
front view



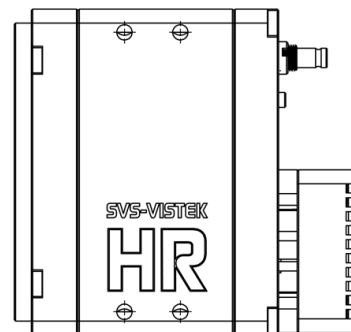
back view



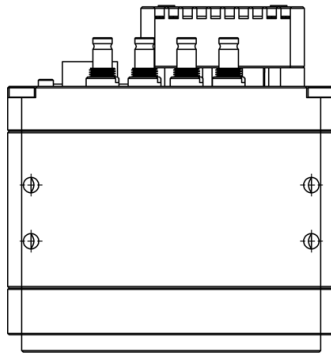
cross section



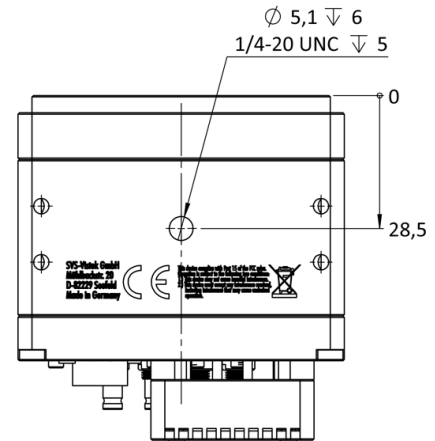
right view



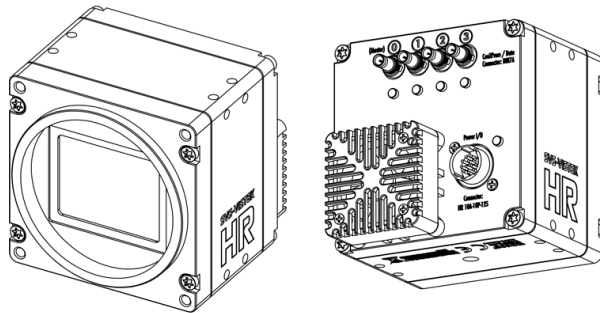
top view



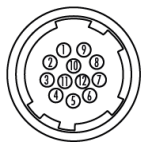
bottom view



3D view



## I/O 引腳分配

|                                                                                                          |   |                         |    |                    |
|----------------------------------------------------------------------------------------------------------|---|-------------------------|----|--------------------|
| <p>Hirose 12 Pin</p>  | 1 | VIN - (GND)             | 7  | OUT 1 (open drain) |
|                                                                                                          | 2 | VIN + (10 V to 25 V DC) | 8  | OUT 2 (open drain) |
|                                                                                                          | 3 | IN 4 (RXD RS232)        | 9  | IN 3 + (opto In +) |
|                                                                                                          | 4 | OUT 4 (TXD RS232)       | 10 | IN 3 - (opto In -) |
|                                                                                                          | 5 | IN 1 (0-24V)            | 11 | OUT 3 (open drain) |
|                                                                                                          | 6 | IN 2 (0-24V)            | 12 | OUT 0 (open drain) |