



## SHR 10GigE

shr661MXGE

### 一般

|      |            |
|------|------------|
| 型號   | shr661MXGE |
| 產品編號 | F004143    |
| 產品系列 | SHR 10GigE |
| 狀態   | Available  |

### 感測器

|            |                                               |
|------------|-----------------------------------------------|
| 感測器類型      | Area scan                                     |
| 色度         | Mono                                          |
| 光譜         | Visible                                       |
| 光譜範圍       | 400 nm to 1000 nm                             |
| 解析度        | 13,392 × 9,528 (127.60 MP)                    |
| 感測器型號      | Sony IMX661                                   |
| 感測器架構 (材料) | cmos                                          |
| 快門類型       | Global shutter (GS)                           |
| 感測器尺寸      | 46.2 × 32.87 mm (56.7 mm, 56.73mm (Type 3.6)) |
| 像素大小       | 3.45 μm × 3.45 μm                             |

### 像素格式

|        |                     |
|--------|---------------------|
| 感測器位深  | 8-bit, 12-bit       |
| 單色像素格式 | mono8, mono12packed |

### 影像性能

|      |         |
|------|---------|
| 動態範圍 | 74.4 dB |
| 訊噪比  | 41.5 dB |

## 時序與增益

|       |                     |
|-------|---------------------|
| 最大影格率 | 8.2 fps             |
| 曝光時間  | 163 $\mu$ s to 60 s |
| 增益    | 0.0 dB to 36.0 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,                                               |
| 電源供應   | 10 to 25VDC, Power over Ethernet (POE+, in option -P)                                                 |
| 功耗     | External: 18 W (typical)                                                                              |

## 操作條件

|           |                 |
|-----------|-----------------|
| 操作溫度 (機殼) | -10 °C to 60 °C |
|-----------|-----------------|

## 機械特性

|                     |                              |
|---------------------|------------------------------|
| 機殼尺寸 (長 x 寬 x 高 mm) | 83 × 80 × 80                 |
| 濾光片/保護玻璃            | Borofloat B270i - AR coating |
| 防護等級                | IP30                         |
| 鏡頭接口                | M72x0.75                     |
| 重量                  | 580 g                        |

## 板載記憶體與 FPGA

|                 |          |
|-----------------|----------|
| 非揮發性記憶體 (Flash) | 32 MByte |
|-----------------|----------|

## 介面

|       |         |
|-------|---------|
| 數位介面  | 10gige  |
| 介面連接器 | (RJ-45) |

## FW 功能 – 影像控制

|        |                                                 |
|--------|-------------------------------------------------|
| 曝光模式   | manual, auto, external                          |
| 增益模式   | auto, manual                                    |
| 影像控制功能 | lut, mirror-image, dpc, shading-correction, ffc |

## FW 功能 – 相機控制

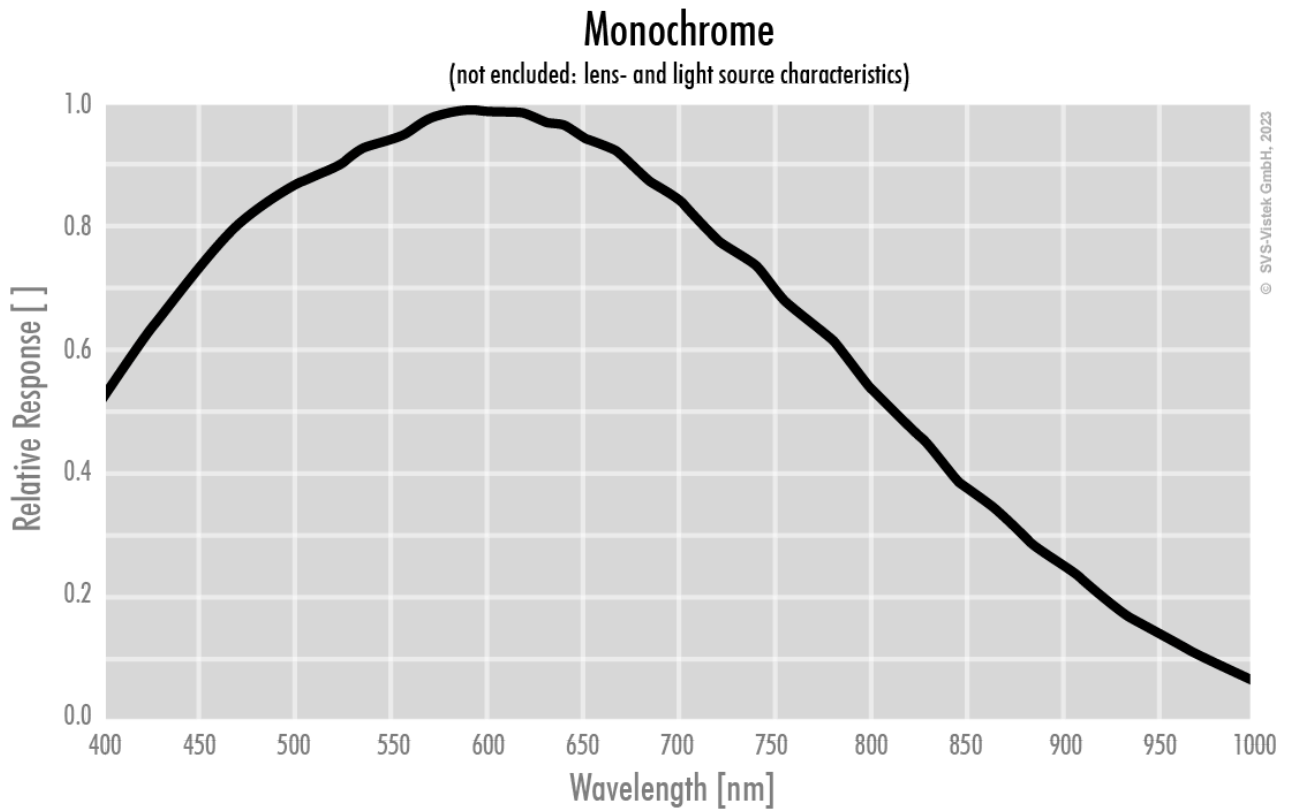
觸發模式/同步

internal, software, external

相機控制功能

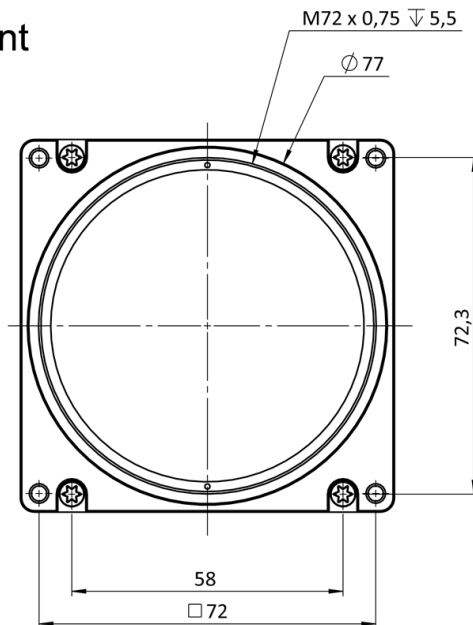
User Sets, POE, PWM(4), Sequencer,

量子效率

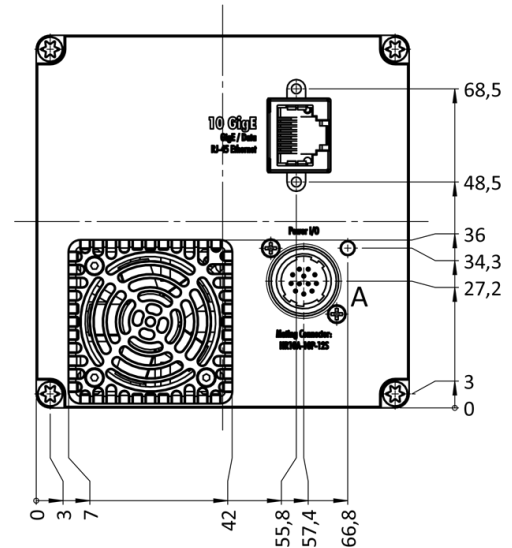


技術圖紙

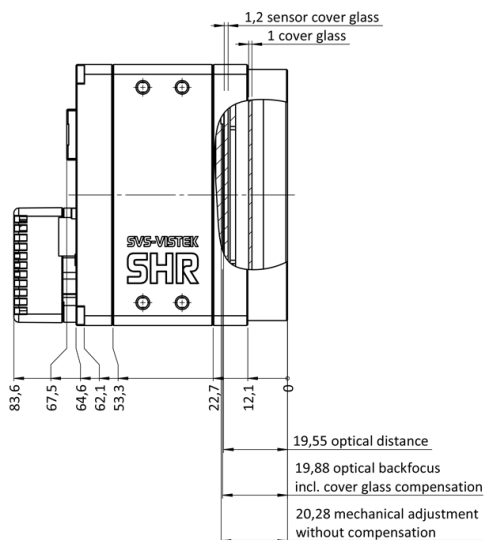
front



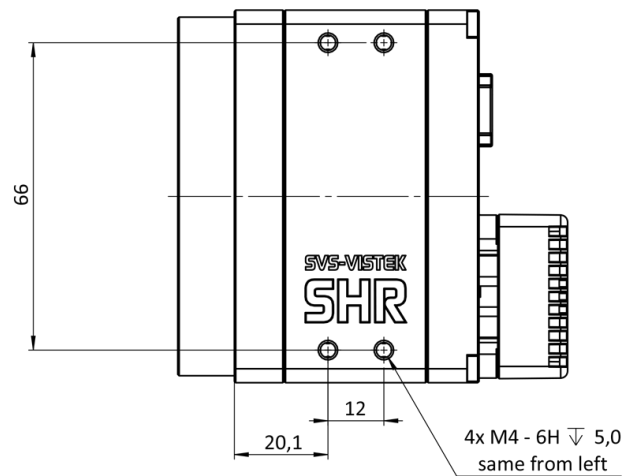
back



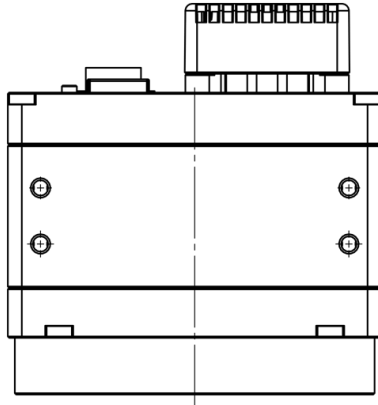
cross section



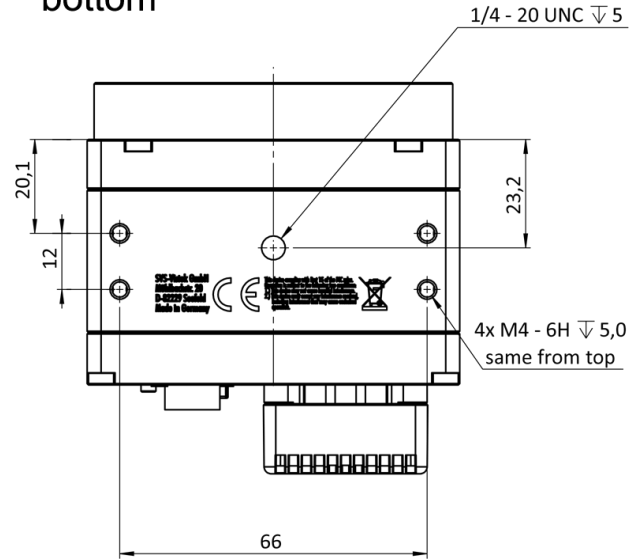
right side



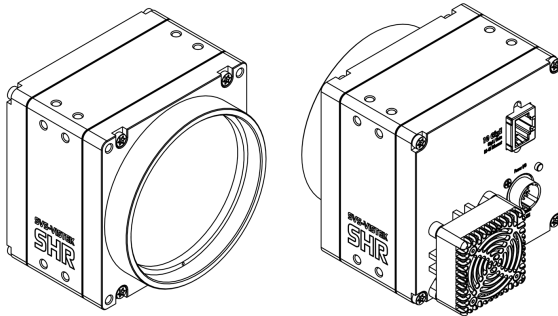
top



bottom

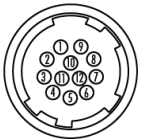


3D



## I/O 引脚分配

Hirose 12 Pin



|   |       |                   |    |        |              |
|---|-------|-------------------|----|--------|--------------|
| 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) |