Allied Vision



# HR 10GigE

## hr387MXGE

| □□ | |
|---|---|
| □□ | hr387MXGE |
| □□□□ | F004075 |
| □□□□ | HR 10GigE |
| □□ | Available |

| □□□ | |
|---|---|
| □□□□□ | Area scan |
| □□ | Mono |
| □□ | Visible |
| □□□□ | 400 nm to 1000 nm |
| □□□ | 5,440 × 3,076 (16.70 MP) |
| □□□□□ | Sony IMX387 |
| □□□□□□□□□ | cmos |
| □□□□ | Global shutter (GS) |
| □□□□□ | 18.77 × 10.61 mm (21.56 mm, Type 4/3) |
| □□□□ | 3.45 µm × 3.45 µm |

| □□□□ | |
|---|---|
| □□□□□□ | 8-bit, 12-bit |
| □□□□□□ | mono8, mono12 |

| □□□□□ | |
|---|---|
| □□□□ | 56.4 fps |
| □□□□ | 21 µs to 60 s |
| □□ | 0.0 dB to 48.0 dB |

## I/O□□□

| | |
|---|---|
| □□□□□IO | 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, |
| □□□□□□□IO | 1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output, |
| □□□□□□ | 1 x Optical isolated input, 0 x Optical isolated input, |
| I/O□□ | 12-pin Hirose HR10A-10P-12S |
| □□□□ | 10 to 25VDC, Power over Ethernet (POE+, in option -P) |
| □□ | External: 15.5 W (typical) |

## □□□□

| | |
|---|---|
| □□□□□L x W x H mm□ | 80 × 70 × 70 |
| □□□/□□□□ | N-BK7 - AR coating 380-850nm |
| IP□□□□ | IP30 |
| □□□□ | M58x0.75 |
| □□ | 400 g |

## □□□□FPGA

| | |
|---|---|
| □□□□RAM□ | 448 MByte |
| □□□□□□□□□□□ | 32 MByte |

## □□

| | |
|---|---|
| □□□□ | 10gige |
| □□□□□ | (RJ-45) |
| □□□□ | GigE Vision 2.0 |

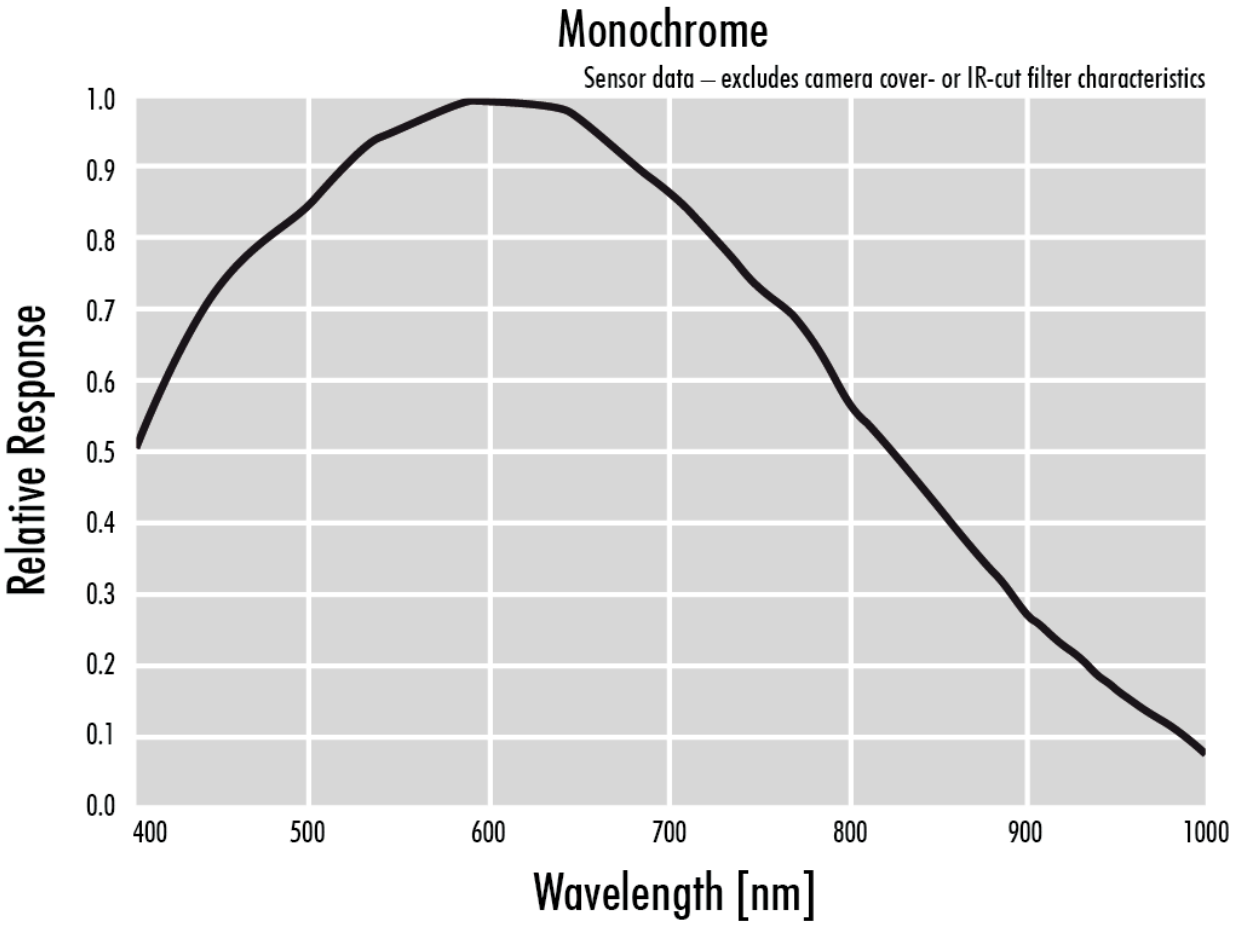
## □□□□ - □□□□

| | |
|---|---|
| □□□□ | manual, auto, external |
| □□□□ | auto, manual |
| □□□□□□ | lut, mirror-image, dpc, shading-correction, ffc |

## □□□□ - □□□□

| | |
|---|---|
| □□□□/□□ | internal, software, external |
| □□□□□□ | User Sets, POE, PWM(4), Sequencer, |

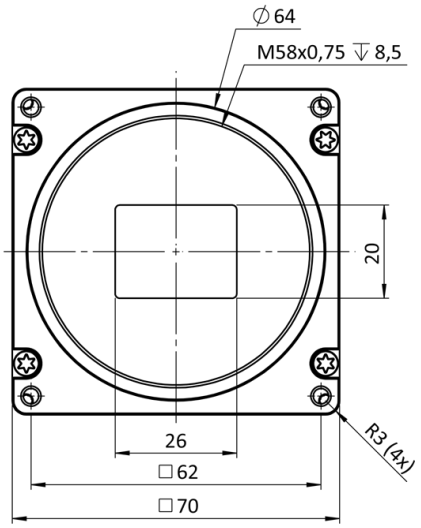
## Quantum Efficiency



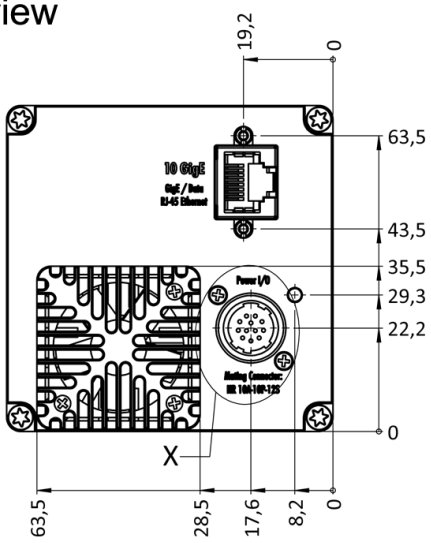
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## Technical Drawing

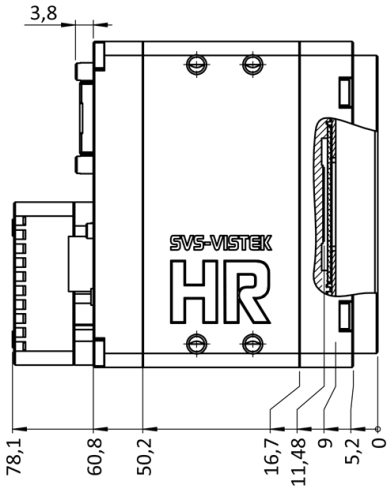
### front view



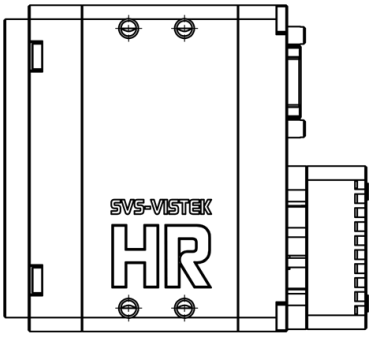

### back view



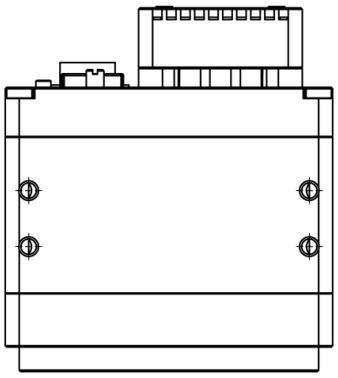

### cross section



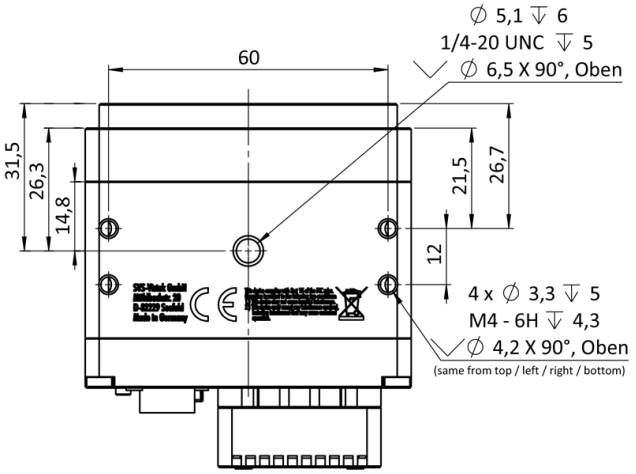

### right view



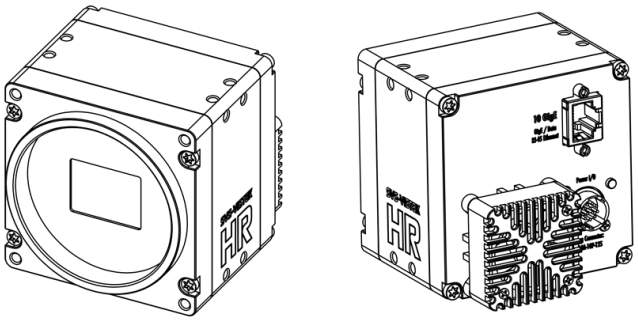
## top view



## bottom view

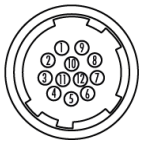



## 3D view



# I/O pin assignment

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) |