Allied Vision

# EXO GigE

## exo387CGE

## General

| | |
|---|---|
| Model: | exo387CGE |
| Product code(s): | F002201 |
| Product series: | EXO GigE |
| Status: | Discontinued |

## Sensor

| | |
|---|---|
| Sensor type: | Area scan |
| Chroma: | Color |
| Spectrum: | Visible |
| Spectral range: | 400 nm to 1000 nm |
| Resolution: | 5,456 × 3,076 (16.80 MP) |
| Sensor model: | Sony IMX387LQA |
| Sensor architecture (material): | cmos |
| Shutter type(s): | global-shutter |
| Sensor size: | 18.82 × 10.61 mm (21.61 mm, 21.7mm (Type 4/3)) |
| Pixel size: | 3.45 µm × 3.45 µm |

## Pixel formats

| | |
|---|---|
| Sensor bit depth: | 8-Bit,12-Bit,12-Bit |
| RGB pixel formats: | bayer8, bayer12packed |

## Imaging performance

| | |
|---|---|
| Dynamic range: | 70.5 dB |
| SNR: | 39.9 dB |

## Timing and gain

| | |
|---|---|
| Max. frame rate: | 7.4 fps |
| Max. frame rate burst: | 12 fps |
| Exposure time: | 60 µs (max) |
| Gain: | 0.0 dB to 48.0 dB |

## I/Os and power

| | |
|---|---|
| Non-isolated lines: | 0 x LVDS input, 0 x LVDS output0 x TTL input, 0 x TTL output, 2 x 24V input, 4 x Open drain output |
| Specific non-isolated lines: | 1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output |
| Opto-isolated lines: | 1 x Optical isolated input, 0 x Optical isolated Input, |
| Power supply: | 10 to 25VDC |
| Power consumption: | External: 5.5 W (typical at 12 VDC) |

## Operating conditions

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|---|---|
| Operating temperature (housing): | -10 °C to 65 °C |

## Mechanical properties

| | |
|---|---|
| Body dimensions (L x W x H in mm): | 46 × 58 × 58 |
| Filter/protection glass: | K9 - AR coating |
| IP class: | IP40 |
| Lens mount(s): | M42 |
| Weight: | 400 g |

## On-board memory and FPGA

| | |
|---|---|
| Image buffer (RAM): | 192 MByte |
| Non-volatile memory (Flash): | 32 KByte |

## Interfaces

| | |
|---|---|
| Digital interface: | gige |
| Interface connector: | (RJ-45) |

## FW features - image control

| | |
|---|---|
| Exposure modes: | Manual, Auto, External |

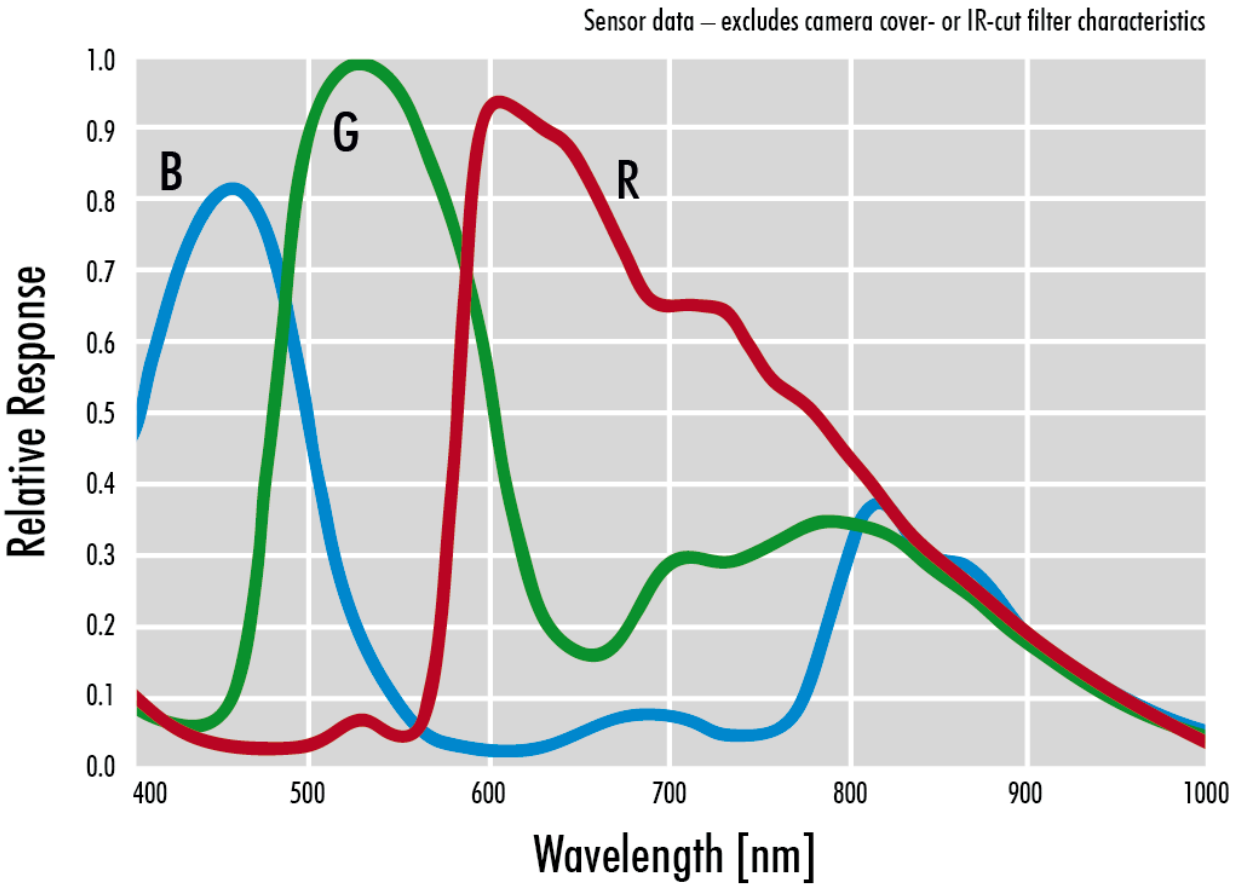
## FW features - image control

| | |
|---|---|
| Gain modes: | Auto, Manual |
| White balance modes: | auto, manual |
| Image control features: | FW Features - Image Control |

## FW features - camera control

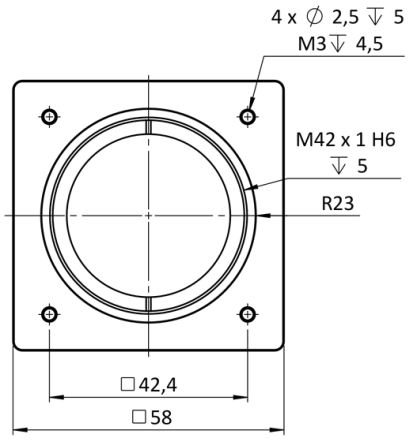
| | |
|---|---|
| Trigger modes/sync: | INTERNAL,SOFTWARE,EXTERNAL |
| Camera control features: | PTP, BurstMode, User Sets, POE, PWM(4), Sequencer, |

# Quantum Efficiency

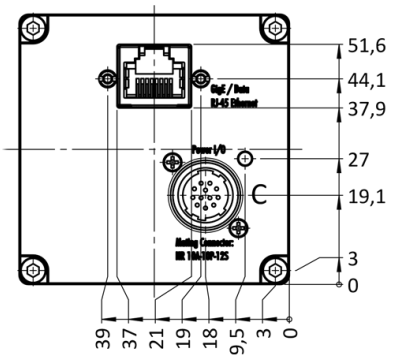


# Technical Drawing

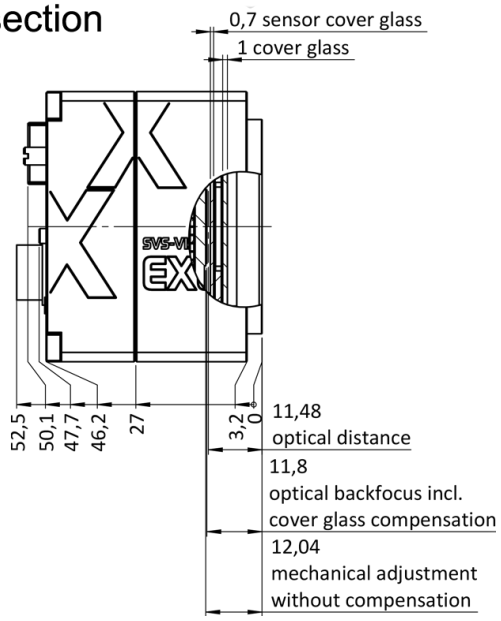
## front



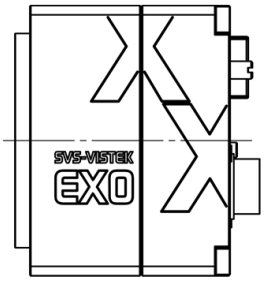

## back



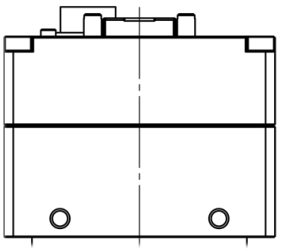

## cross section



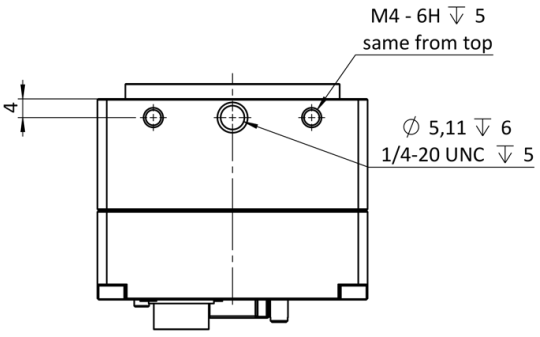

## right side



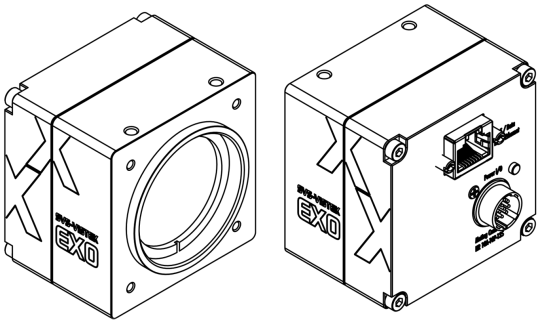

## top



## bottom

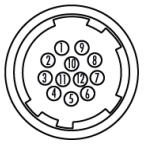


3D



# 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) |