



# EXO GigE

## exo367CGE

### Allgemein

|              |           |
|--------------|-----------|
| Modell       | exo367CGE |
| Produktcode  | F002199   |
| Produktserie | EXO GigE  |
| Status       | Available |

### Sensor

|                              |                                                |
|------------------------------|------------------------------------------------|
| Sensortyp                    | Area scan                                      |
| Chroma                       | Color                                          |
| Spektrum                     | Visible                                        |
| Spektralbereich              | 400 nm to 1000 nm                              |
| Auflösung                    | 4,416 × 4,428 (19.60 MP)                       |
| Sensormodell                 | Sony IMX367                                    |
| Sensorarchitektur (Material) | cmos                                           |
| Verschlusstyp(en)            | Global shutter (GS)                            |
| Sensorgröße                  | 15.24 × 15.28 mm (21.58 mm, 21.6mm (Type 4/3)) |
| Pixelgröße                   | 3.45 µm × 3.45 µm                              |

### Pixelformate

|                  |                       |
|------------------|-----------------------|
| Sensor-Bittiefe  | 8-bit, 12-bit         |
| RGB-Pixelformate | bayer8, bayer12packed |

### Timing und Verstärkung

|                 |                   |
|-----------------|-------------------|
| Max. Bildrate   | 6.2 fps           |
| Belichtungszeit | 26 µs to 60 s     |
| Verstärkung     | 0.0 dB to 48.0 dB |

## I/Os und Stromversorgung

|                                       |                                                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Nicht-isolierte Leitungen             | 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, |
| Spezifische nicht-isolierte Leitungen | 1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,                                 |
| Optisch isolierte Leitungen           | 1 x Optical isolated input, 0 x Optical isolated input,                                               |
| Stromversorgung                       | 10 to 25VDC, Power over Ethernet                                                                      |
| Stromverbrauch                        | External: 5.5 W (typical)                                                                             |

## Betriebsbedingungen

|                              |                 |
|------------------------------|-----------------|
| Betriebstemperatur (Gehäuse) | -10 °C to 65 °C |
|------------------------------|-----------------|

## Mechanische Eigenschaften

|                                      |                 |
|--------------------------------------|-----------------|
| Gehäuseabmessungen (L x B x H in mm) | 46 × 58 × 58    |
| Filter-/Schutzglas                   | K9 - AR coating |
| IP-Klasse                            | IP40            |
| Objektivanschluss/-anschlüsse        | M42             |
| Gewicht                              | 400 g           |

## Onboard-Speicher und FPGA

|                                  |           |
|----------------------------------|-----------|
| Bildpuffer (RAM)                 | 192 MByte |
| Nichtflüchtiger Speicher (Flash) | 32 MByte  |

## Schnittstellen

|                         |         |
|-------------------------|---------|
| Digitale Schnittstelle  | gige    |
| Schnittstellenanschluss | (RJ-45) |

## FW-Funktionen – Bildsteuerung

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| Belichtungsmodi          | manual, auto, external                                                     |
| Verstärkungsmodi         | auto, manual                                                               |
| Weißabgleichmodi         | auto, manual                                                               |
| Bildsteuerungsfunktionen | roi, lut, color-transformation, mirror-image, dpc, shading-correction, ffc |

## FW-Funktionen – Kamerasteuerung

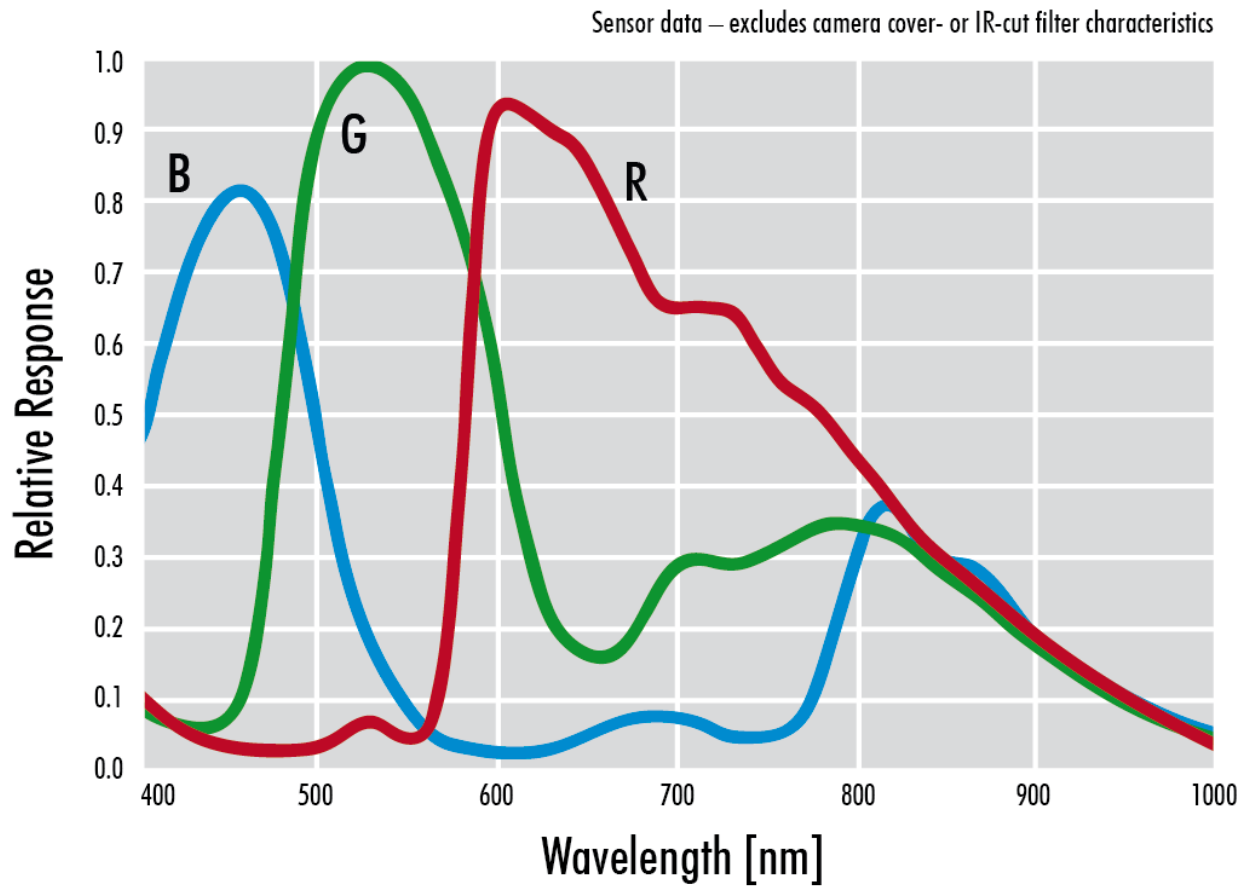
|                             |                              |
|-----------------------------|------------------------------|
| Triggermodi/Synchronisation | internal, software, external |
|-----------------------------|------------------------------|

## FW-Funktionen – Kamerasteuerung

Kamerasteuerungsfunktionen

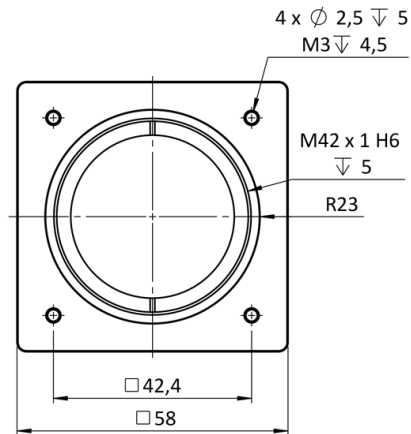
PTP, User Sets, POE, PWM(4), Sequencer,

## Quanteneffizienz

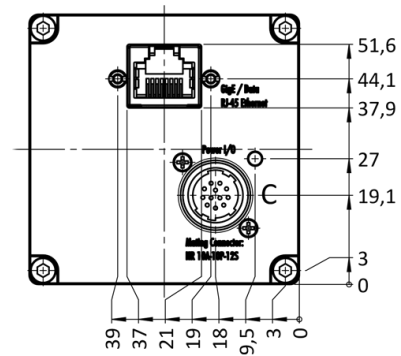


## Technische Zeichnung

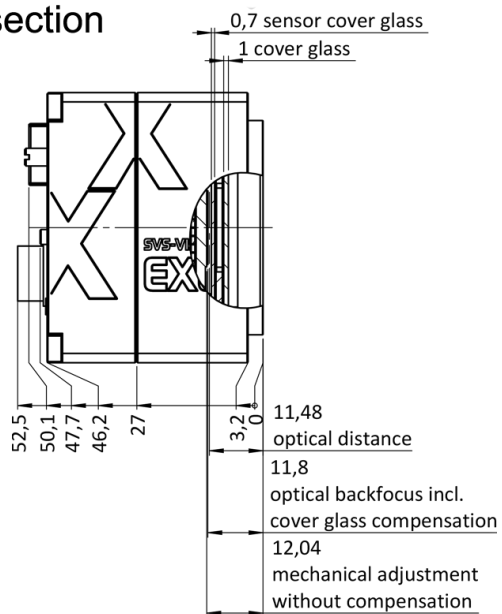
front



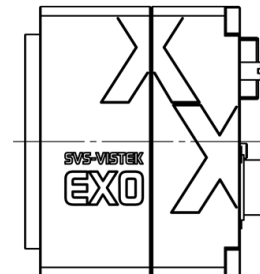
back



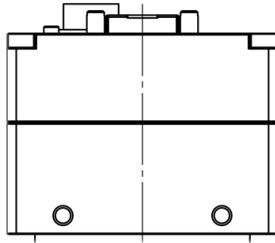
cross section



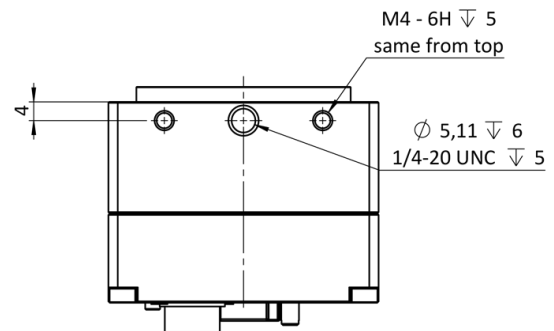
right side



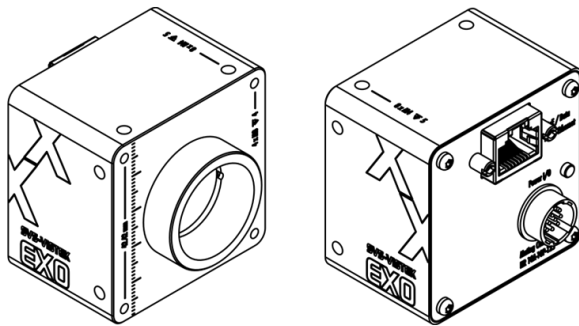
top



bottom



3D



## I/O-Pin-Belegung

|                                                                                                          |   |       |                   |    |        |              |
|----------------------------------------------------------------------------------------------------------|---|-------|-------------------|----|--------|--------------|
| <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) |