



## EXO GigE

### exo183MGE

#### Allgemein

|              |           |
|--------------|-----------|
| Modell       | exo183MGE |
| Produktcode  | F002192   |
| Produktserie | EXO GigE  |
| Status       | Available |

#### Sensor

|                              |                                    |
|------------------------------|------------------------------------|
| Sensortyp                    | Area scan                          |
| Chroma                       | Mono                               |
| Spektrum                     | Visible                            |
| Spektralbereich              | 400 nm to 1000 nm                  |
| Auflösung                    | 5,496 × 3,672 (20.20 MP)           |
| Sensormodell                 | Sony IMX183                        |
| Sensorarchitektur (Material) | cmos                               |
| Verschlusstyp(en)            | Rolling shutter (RS)               |
| Sensorgröße                  | 13.19 × 8.81 mm (15.86 mm, Type 1) |
| Pixelgröße                   | 2.40 µm × 2.40 µm                  |

#### Pixelformate

|                         |                     |
|-------------------------|---------------------|
| Sensor-Bittiefe         | 8-bit, 12-bit       |
| Monochrome Pixelformate | mono8, mono12packed |

#### Bildgebungsleistung

|                |         |
|----------------|---------|
| Dynamikbereich | 71.5 dB |
| SNR            | 40 dB   |

## Timing und Verstärkung

|                       |                   |
|-----------------------|-------------------|
| Max. Bildrate         | 6 fps             |
| Max. Bildrate (Burst) | 16 fps            |
| Belichtungszeit       | 117 µs to 60 s    |
| Verstärkung           | 0.0 dB to 27.0 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,                                               |
| I/O-Anschluss                         | 12-pin Hirose HR10A-10P-12S                                                                           |
| Stromversorgung                       | 10 to 25VDC, Power over Ethernet                                                                      |
| Stromverbrauch                        | External: 5 W (typical)                                                                               |

## Betriebsbedingungen

|                              |                 |
|------------------------------|-----------------|
| Betriebstemperatur (Gehäuse) | -10 °C to 60 °C |
|------------------------------|-----------------|

## Mechanische Eigenschaften

|                                      |                             |
|--------------------------------------|-----------------------------|
| Gehäuseabmessungen (L x B x H in mm) | 43 × 50 × 50                |
| Filter-/Schutzglas                   | K9 - AR coating - 400-850nm |
| IP-Klasse                            | IP40                        |
| Objektivanschluss/-anschlüsse        | C-Mount                     |
| Gewicht                              | 140 g                       |

## Onboard-Speicher und FPGA

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

## Schnittstellen

|                         |             |
|-------------------------|-------------|
| Digitale Schnittstelle  | gige        |
| Schnittstellenanschluss | (RJ-45)     |
| Vision-Standard         | GigE Vision |

## FW-Funktionen – Bildsteuerung

|                          |                             |
|--------------------------|-----------------------------|
| Belichtungsmodi          | manual, auto                |
| Verstärkungsmodi         | auto, manual                |
| Bildsteuerungsfunktionen | roi, lut, mirror-image, dpc |

## FW-Funktionen – Kamerasteuerung

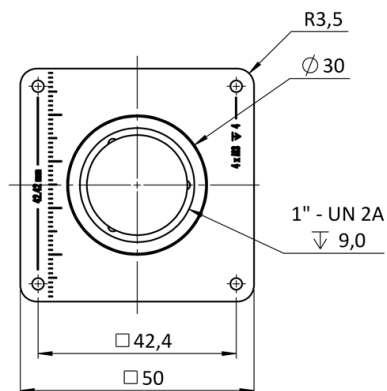
|                             |                                               |
|-----------------------------|-----------------------------------------------|
| Triggermodi/Synchronisation | internal, software, external                  |
| Kamerasteuerungsfunktionen  | BurstMode, User Sets, POE, PWM(4), Sequencer, |

## Quanteneffizienz

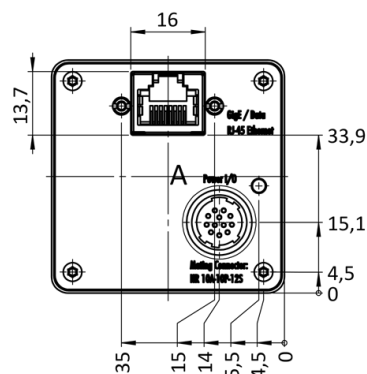


# Technische Zeichnung

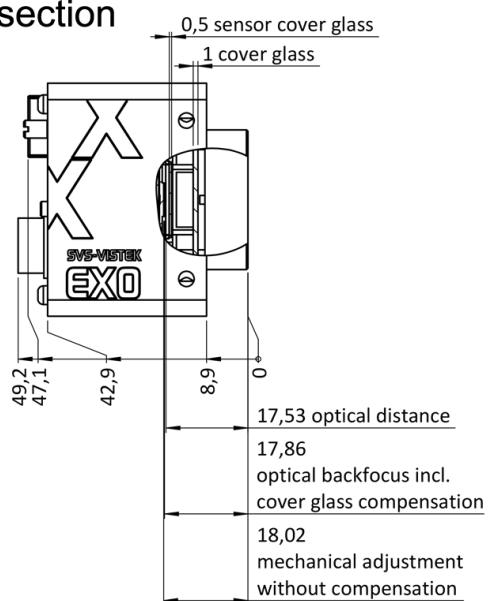
front



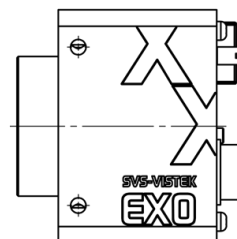
[back](#)



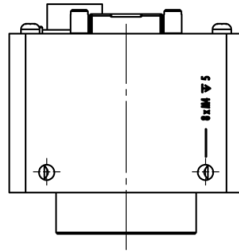
cross section



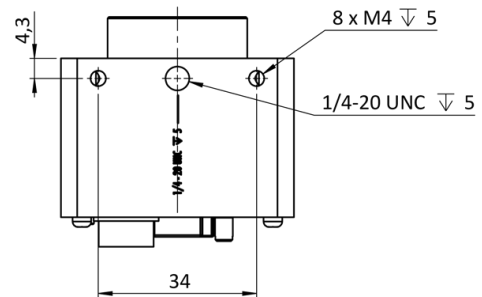
right side



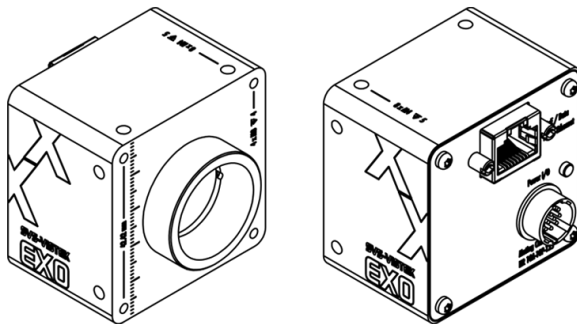
top



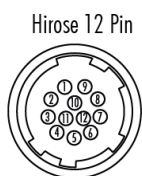
bottom



3D



## I/O-Pin-Belegung



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