

## VCXG-124M.I

Gigabit Ethernet, 12,3 Megapixel, Monochrome

Article number: 11186795

### Overview

- 4096 x 3000 px
- Sony IMX304
- 1.1" CMOS
- 9 fps
- Gigabit Ethernet
- available on request



GEN<i>i>CAM



### Technical data

#### Sensor information

|               |                    |
|---------------|--------------------|
| Sensor        | Sony IMX304 Gen2   |
| Mono/Color    | Mono               |
| Sensor type   | 1.1" CMOS          |
| Shutter type  | Global shutter     |
| Resolution    | 4096 × 3000 px     |
| Pixel size    | 3.45 × 3.45 µm     |
| Exposure time | 0.001 ... 60000 ms |

#### Acquisition formats

|                                                         |                                                                                                                                                                            |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image formats, interface frame rate max.                | Full Frame, 4096 × 3000 px, max. 9 fps<br>Binning 2×2, 2048 × 1500 px, max. 15 fps<br>Binning 2×1, 2048 × 3000 px, max. 15 fps<br>Binning 1×2, 4096 × 1500 px, max. 15 fps |
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 4096 × 3000 px, max. 15 fps                                                                                                                                    |
| Pixel formats                                           | Mono8<br>Mono10                                                                                                                                                            |

#### Image preprocessing

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Analog controls | Gain (0 ... 48 dB)<br>Offset (0 ... 255 LSB 12 Bit) |
| Color models    | Mono                                                |

#### Camera features

|                         |                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Basic Functions         | Exposure<br>Gain<br>Trigger / Exposure Active (Flash)<br>Binning 2x2<br>Partial Scan<br>Offset<br>Free Running Mode (Live Image) |
| Auto Functions          | Exposure Auto<br>Gain Auto                                                                                                       |
| Image Pre-processing    | Image Flipping (X/Y)<br>LUT / Gamma                                                                                              |
| Acquisition / Interface | Burst Mode<br>Adjustable Framerate<br>Short Exposure Time Enable<br>Device Link Throughput Limit<br>Internal Image Buffer        |
| Synchronization         | free running<br>trigger                                                                                                          |
| Trigger sources         | Hardware<br>Software<br>ActionCommand                                                                                            |
| Trigger delay           | 0 ... 2 sec, tracking and buffering of up to 256 trigger signals                                                                 |

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## Technical data

### Camera features

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Process Synchronization | Events                                                    |
|                         | Timer                                                     |
|                         | Trigger Delay                                             |
|                         | Debouncer                                                 |
|                         | Counter                                                   |
|                         | Sequencer                                                 |
|                         | Trigger via Action CMD (GigE)                             |
|                         | Additional Output Modes (e.g. Trigger Ready)              |
|                         | PWM (PWM Duration / PWM Duty Cycle)                       |
|                         | 4 power outputs with up to 120 W (max. 48 V / 2.5 A)      |
|                         | Selectable Output format (e.g. Tri State, Push Pull)      |
|                         | Chunk data inside transferred image                       |
|                         | Encoder support via Counter End trigger source            |
|                         |                                                           |
| Additional Functions    | User Set                                                  |
|                         | Integrated temperature sensor                             |
|                         | Readable additional information (e.g. sensor information) |
|                         | Save Custom Data                                          |
| Internal image buffer   | 36 MB                                                     |
|                         | 1 image (Trigger Mode)                                    |
|                         | 1 image (Free Running Mode)                               |

### Interfaces and connectors

|                   |                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Data interface    | Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer rate 100 Mbits/sec, Connector: M12 / 8 pol x-coded, screwable type |
| Process interface | M12 / 12 pins a-coded (SACC-CI-M12MS-12CON-L180)                                                                                           |
| Power supply      | via M12/12 pins a-coded or Power over Ethernet (PoE)                                                                                       |

### Mechanical data

|            |                         |
|------------|-------------------------|
| Lens mount | C-mount                 |
| Width      | 40 mm                   |
| Height     | 40 mm                   |
| Depth      | 50.8 mm                 |
| Weight     | ≤ 137 g                 |
| Material   | aluminum, hard-anodized |

### Electrical data

|                          |                                        |
|--------------------------|----------------------------------------|
| Voltage supply range +Vs | 12 ... 24 V DC (external power supply) |
|                          | 36 ... 57 V DC (Power over Ethernet)   |
| Power consumption        | approx. 2,5 W @ 12 VDC and 9 fps       |
|                          | approx. 3,2 W @ 48 VDC (PoE) and 9 fps |

### Non-volatile memory

|                   |        |
|-------------------|--------|
| Flash memory size | 128 kB |
|-------------------|--------|

### Environmental conditions

|                       |                                                 |
|-----------------------|-------------------------------------------------|
| Operating temperature | 0 ... +65 ° @ T = measurement point             |
| Humidity              | 10 ... 90 % (non-condensing)                    |
| Protection class      | IP 40                                           |
|                       | IP 54 (with mounted tube and cable)             |
|                       | IP 65 (with mounted tube and cable)             |
|                       | IP 67 (with mounted tube and cable)             |
|                       | IP 69K (with stainless steel housing accessory) |

### Digital I/Os

|       |                                                                                 |
|-------|---------------------------------------------------------------------------------|
| Lines | 4 input lines                                                                   |
|       | 4 power output lines with pulse width modulation (PWM) (max. 48 V / max. 2,5 A) |

### Conformity

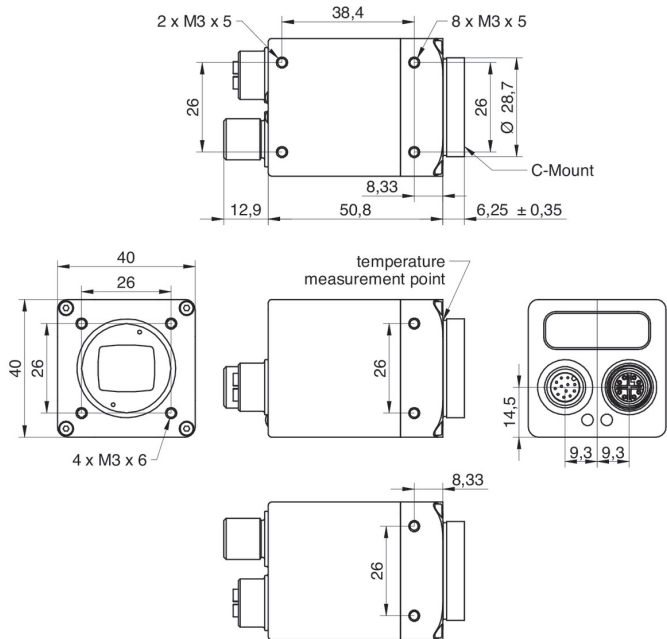
|            |      |
|------------|------|
| Conformity | CE   |
|            | RoHS |
|            | EAC  |

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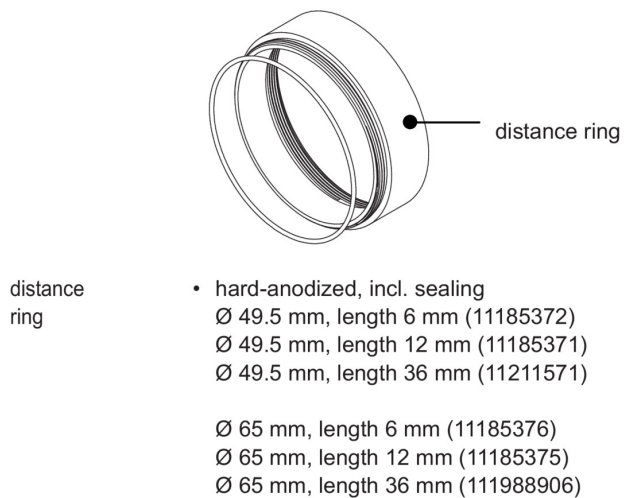
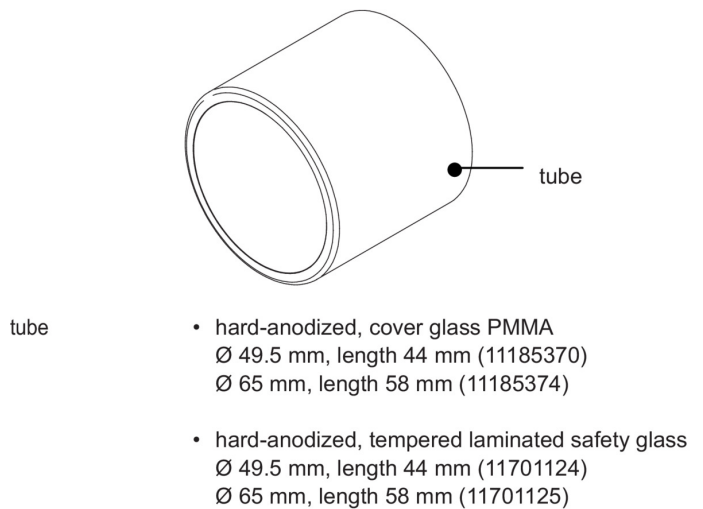
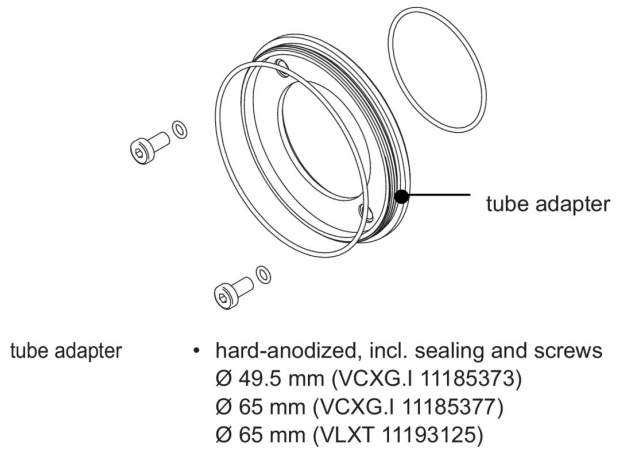
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### Dimension drawing



### Principle

Optional accessories for protection class IP 65/67:



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### Principle

