

VLXT-90C.I

Gigabit Ethernet, 8,8 Megapixel, Color

Article number: 11194280

Overview

- 4096 × 2160 px
- Sony IMX255
- 1" CMOS
- 95 fps
- 10 GigE



Picture similar



GEN*i*CAM



Technical data

Sensor information

| | |
|---------------|--------------------|
| Sensor | Sony IMX255 Gen2 |
| Mono/Color | Color |
| Sensor type | 1" CMOS |
| Shutter type | Global shutter |
| Resolution | 4096 × 2160 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 × 2160 px, max. 95 fps Binning 2×2, 2048 × 1080 px, max. 95 fps Binning 2×1, 2048 × 2160 px, max. 95 fps Binning 1×2, 4096 × 1080 px, max. 95 fps |
|--|---|

| | |
|---|---|
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 4096 × 2160 px, max. 95 fps |
|---|---|

| | |
|---------------|--|
| Pixel formats | BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8 |
|---------------|--|

Image preprocessing

| | |
|-----------------|---|
| Analog controls | Gain (0 ... 48 dB) Offset (0 ... 255 LSB 12 Bit) |
|-----------------|---|

Image preprocessing

| | |
|--------------|---------------------------------|
| Color models | Mono Raw Bayer RGB BGR |
|--------------|---------------------------------|

Camera features

| | |
|-----------------|---|
| Basic Functions | Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image) |
|-----------------|---|

| | |
|----------------|---|
| Auto Functions | Exposure Auto Gain Auto White Balance Auto Color Transformation Auto |
|----------------|---|

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|----------------------|--|
| Image Pre-processing | Image Flipping (X/Y) Color Processing (RGB, BGR, Mono) Color Enhancement (with optimized ColorTransformationMatrix) LUT / Gamma |
|----------------------|--|

| | |
|-------------------------|---|
| Acquisition / Interface | Burst Mode Adjustable Framerate Short Exposure Time Enable Device Link Throughput Limit Internal Image Buffer |
|-------------------------|---|

| | |
|-----------------|-------------------------|
| Synchronization | free running trigger |
|-----------------|-------------------------|

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Camera features

| | |
|--------------------------------|--|
| Trigger sources | Hardware Software ActionCommand |
| Trigger delay | 0 ... 2 sec, tracking and buffering of up to 256 trigger signals |
| Process Synchronization | Events Timer Trigger Delay Debouncer Counter Sequencer Trigger via Action CMD (GigE) Action CMD Request ID Trigger ID inside Chunk Additional Output Modes (e.g. Trigger Ready) PWM (PWM Duration / PWM Duty Cycle) Selectable Output format (e.g. Tri State, Push Pull) Chunk data inside transferred image Encoder support via Counter End trigger source 4 power outputs with up to 120 W (max. 48 V / 2.5 A) |
| Time synchronization IEEE 1588 | IEEE 1588 / Master and Slave function IEEE 1588 / Scheduled Action CMD IEEE 1588 / Synchronized Acquisition Framerate |
| Additional Functions | User Set Integrated temperature sensor Readable additional information (e.g. sensor information) Save Custom Data |
| Lens control | Corning liquid lens |
| Sequencer | Automated control for series of images using different sets of parameters |
| Sequencer parameter | Exposure time gain factor output line ROI Offset x ROI Offset y |
| Internal image buffer | 1024 MB 109 images (Trigger Mode) 1 image (Free Running Mode) |

Interfaces and connectors

| | |
|-------------------|--|
| Data interface | 10 Gigabit Ethernet, Transfer rate 10000 Mbits/sec, Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer rate 100 Mbits/sec, Connector: M12 / 8-pol x-coded (SACC-CI-M12FS-8CON-L180-10G) |
| Process interface | M12 / 12 pins a-coded (SACC-CI-M12MS-12CON-L180) |
| Power supply | via M12/12 pins a-coded |

Mechanical data

| | |
|------------|----------|
| Lens mount | C-mount |
| Width | 60 mm |
| Height | 60 mm |
| Depth | 99.7 mm |
| Weight | ≤ 485 g |
| Material | aluminum |

Electrical data

| | |
|--------------------------|--|
| Voltage supply range +Vs | 19.2 ... 28.8 V DC (external power supply) |
| Power consumption | Approx. 10.8 W @ 24 VDC and 95 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) |

Digital I/Os

| | |
|-------|---|
| Lines | 2 input lines 4 power output lines with pulse width modulation (PWM) (max. 48 V / max. 2,5 A) RS232 |
|-------|---|

Conformity

| | |
|------------|------------------------------------|
| Conformity | CE RoHS EAC UL recognized |
|------------|------------------------------------|

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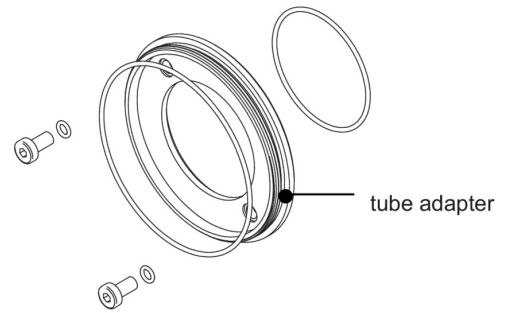
Article number: 11194280

Dimension drawing



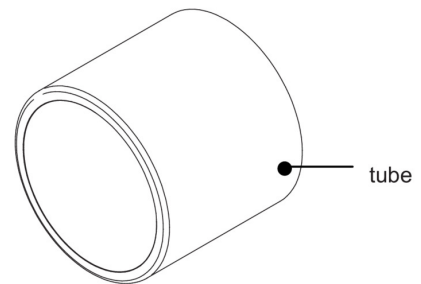
Principle

Optional accessories for protection class IP 65/67:



tube adapter

- hard-anodized, incl. sealing and screws
 \varnothing 49,5 mm (VCXG.I 11185373)
 \varnothing 65 mm (VCXG.I 11185377)
 \varnothing 95 mm (VCXG.I 11704311)
 \varnothing 65 mm (VLXT 11193125)
 \varnothing 95 mm (VLXT.EF 11704315)



tube

- hard-anodized, cover glass PMMA
 \varnothing 49,5 mm, Length 44 mm (11185370)
 \varnothing 65 mm, Length 58 mm (11185374)
 \varnothing 95 mm, length 70 mm (11704312)
- hard-anodized, tempered laminated safety glass
 \varnothing 49,5 mm, Length 44 mm (11701124)
 \varnothing 65 mm, Length 58 mm (11701125)