

VCXG.2-65M.R

Gigabit Ethernet, 6,2 Megapixel, Monochrome

Article number: 11708163

Overview

- 3072 x 2048 px
- Sony IMX178
- 1/1.8" CMOS
- 19 fps
- Gigabit Ethernet



Picture similar



GEN<i>i>CAM



Technical data

Sensor information

| | |
|--------------|---|
| Sensor | Sony IMX178 |
| Mono/Color | Mono |
| Sensor type | 1/1.8" CMOS |
| Shutter type | Rolling shutter Global reset shutter |
| Resolution | 3072 × 2048 px |
| Pixel size | 2.4 × 2.4 μm |

Data quality (EMVA 1288 typical)

| | |
|-----------------------|---|
| Dark noise | 6.24 e- |
| Saturation capacity | 14322 e- |
| Dynamic range | 66.4 dB |
| Signal-to-noise ratio | 41.6 dB |
| Quantum efficiency | 0.4 % @ 1042 nm 4.7 % @ 840 nm 2.2 % @ 930 nm 18.6 % @ 406 nm 75.6 % @ 533 nm |

Acquisition formats

| | |
|---|---|
| Image formats, interface frame rate max. | Full Frame, 3072 × 2048 px, max. 19 fps Binning 2×2, 1536 × 1024 px, max. 29 fps Binning 2×1, 1536 × 2048 px, max. 29 fps Binning 1×2, 3072 × 1024 px, max. 29 fps |
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 3072 × 2048 px, max. 29 fps |

Acquisition formats

| | |
|---------------|--|
| Pixel formats | Mono8 Mono10 Mono12 Mono12 Packed |
|---------------|--|

Image preprocessing

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|--------------|------|
| Color models | Mono |
|--------------|------|

Camera features

| | |
|-------------------------|--|
| Basic Functions | Exposure Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image) |
| Auto Functions | Exposure Auto Gain Auto |
| Image Pre-processing | LUT / Gamma |
| Acquisition / Interface | Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer |
| Synchronization | free running trigger |
| Trigger sources | Hardware Software ActionCommand |

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Camera features

| | |
|-------------------------|--|
| Process Synchronization | Events Timer Trigger Delay Debouncer Counter Trigger via Action CMD (GigE) Additional Output Modes (e.g. Trigger Ready) Chunk data inside transferred image Encoder support via Counter End trigger source |
|-------------------------|--|

Additional Functions

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| User Set Integrated temperature sensor Readable additional information (e.g. sensor information) |
|--|

Calibration data

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|--|
| Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values) Customer data storage (128 bytes user defined) |
|--|

Interfaces and connectors

| | |
|-------------------|---|
| Data interface | Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable TYPE090 (according to GigE Vision Mechanical Supplement) |
| Process interface | M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180) |

Interfaces and connectors

| | |
|--------------|--|
| Power supply | via M8/8 pins or Power over Ethernet (PoE) |
|--------------|--|

Mechanical data

| | |
|------------|---------------------------------|
| Lens mount | C-mount |
| Width | 29 mm |
| Height | 29 mm |
| Depth | 49 mm |
| Weight | ≤ 120 g |
| Material | zinc die casting, baked varnish |

Electrical data

| | |
|--------------------------|--|
| Voltage supply range +Vs | 12 ... 24 V DC (external power supply) 36 ... 57 V DC (Power over Ethernet) |
| Power consumption | Approx. 2.6 W @ 12 VDC and 19 fps Approx. 3.2 W @ 48 VDC (PoE) and 19 fps |

Environmental conditions

| | |
|-----------------------|-------------------------------------|
| Operating temperature | 0 ... +65 ° @ T = measurement point |
| Storage temperature | -20 ... +70 °C |
| Protection class | IP 40 (with mounted lens and cable) |

Conformity

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

Dimension drawing

