

VCXG-50MP

Gigabit Ethernet, 5 Megapixel, mono polarized

Article number: 11206489

Overview

- 2448 x 2048 px
- Sony IMX250MZR
- 2/3" CMOS
- 24 fps
- Gigabit Ethernet



GEN<i>i>CAM



Technical data

Sensor information

| | |
|---------------|--------------------|
| Sensor | Sony IMX250MZR |
| Mono/Color | Mono polarized |
| Sensor type | 2/3" CMOS |
| Shutter type | Global shutter |
| Resolution | 2448 × 2048 px |
| Pixel size | 3.45 × 3.45 µm |
| Exposure time | 0.001 ... 60000 ms |

Data quality (EMVA 1288 typical)

| | |
|-----------------------|-----------------|
| Dark noise | 2.1 e- |
| Saturation capacity | 9324 e- |
| Dynamic range | 70.5 dB |
| Signal-to-noise ratio | 39.7 dB |
| Quantum efficiency | 25.6 % @ 536 nm |

Acquisition formats

| | |
|---|---|
| Image formats, interface frame rate max. | Full Frame, 2448 × 2048 px, max. 24 fps Binning 2×2, 1224 × 1024 px, max. 36 fps Binning 2×1, 1224 × 2048 px, max. 36 fps Binning 1×2, 2448 × 1024 px, max. 36 fps |
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 2448 × 2048 px, max. 35 fps |
| Pixel formats | Mono8 Mono10 Mono12 Mono12 Packed |

Image preprocessing

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

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

Camera features

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

VCXG-50MP

Gigabit Ethernet, 5 Megapixel, mono polarized

Article number: 11206489

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) |
| Additional Functions | Chunk data inside transferred image |
| | User Set |
| | Integrated temperature sensor |
| Internal image buffer | 115 MB |
| | 8 images (Trigger Mode) |
| | 1 image (Free Running Mode) |

Interfaces and connectors

| | |
|-------------------|---|
| Data interface | Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: 8P8C Modular Jack (RJ45), screwable type |
| Process interface | M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180) |
| Power supply | via M8 / 8 pins or Power over Ethernet (PoE) |

Mechanical data

| | |
|------------|---------|
| Lens mount | C-mount |
| Width | 29 mm |

Mechanical data

| | |
|----------|---|
| Height | 29 mm |
| Depth | 49 mm |
| Weight | ≤ 120 g |
| Material | zinc die casting, baked varnish (until 02-2020 nickel-chrome-plated), IP 40 |

Electrical data

| | |
|--------------------------|--|
| Voltage supply range +Vs | 12 ... 24 V DC (external power supply) |
| | 36 ... 57 V DC (Power over Ethernet) |
| Power consumption | approx. 2.8 W @ 12 VDC and 24 fps approx. 3.4 W @ 48 VDC (PoE) and 24 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 |

Digital I/Os

| | |
|-------|-------------------------|
| Lines | 1 input line |
| | 1 output line |
| | 2 general purpose lines |

Conformity

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

Dimension drawing

