

VCXG-125C.R

Gigabit Ethernet, 12 Megapixel, Color

Article number: 11175752

Overview

- 4000 x 3000 px
- Sony IMX226
- 1/1.7" CMOS
- 10 fps
- Gigabit Ethernet



Picture similar



GEN<i>i>CAM



Technical data

Sensor information

| | |
|---------------|---|
| Sensor | Sony IMX226 |
| Mono/Color | Color |
| Sensor type | 1/1.7" CMOS |
| Shutter type | Rolling shutter Global reset shutter |
| Resolution | 4000 × 3000 px |
| Pixel size | 1.85 × 1.85 μm |
| Exposure time | 0.0085 ... 60000 ms |

Data quality (EMVA 1288 typical)

| | |
|-----------------------|---|
| Dark noise | 2.99 e- |
| Saturation capacity | 10805 e- |
| Dynamic range | 69.5 dB |
| Signal-to-noise ratio | 40.3 dB |
| Quantum efficiency | 59.4 % @ 465 nm 64 % @ 536 nm 46.4 % @ 631 nm |

Acquisition formats

| | |
|--|---|
| Image formats, interface frame rate max. | Full Frame, 4000 × 3000 px, max. 10 fps Binning 2×2, 2000 × 1500 px, max. 15 fps Binning 2×1, 2000 × 3000 px, max. 10 fps Binning 1×2, 4000 × 1500 px, max. 15 fps |
|--|---|

| | |
|---|---|
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 4000 × 3000 px, max. 15 fps |
|---|---|

Acquisition formats

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

Image preprocessing

| | |
|-----------------|---|
| Analog controls | Gain (0 ... 20 dB) Offset (0 ... 255 LSB 12 Bit) |
|-----------------|---|

| | |
|--------------|---------------------------------|
| 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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Camera features

| | |
|-------------------------|--|
| Image Pre-processing | Color Processing (RGB, BGR, Mono) Color Enhancement (with optimized ColorTransformationMatrix) LUT / Gamma |
| Acquisition / Interface | Burst Mode Adjustable Framerate 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 |
| Process Synchronization | Events Timer Trigger Delay Debouncer Counter Trigger via Action CMD (GigE) 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 | 35 MB 1 image (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 |
|----------------|---|

Interfaces and connectors

| | |
|-------------------|--|
| 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 |
| 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. 2.2 W @ 12 VDC and 10 fps Approx. 2.7 W @ 48 VDC (PoE) and 10 fps |
| Sealing | zinc die casting, nickel-plated, IP 40 |

Non-volatile memory

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

Environmental conditions

| | |
|-----------------------|-------------------------------------|
| Operating temperature | 0 ... +65 ° @ T = measurement point |
| Humidity | 0 ... 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 KC (R-R-BkR-VCXG-125MR) |
|------------|---------------------------------------|

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Dimension drawing

