

V CXG.2-51C

Gigabit Ethernet, 5,0 Megapixel, Color

Article number: 11707058

Overview

- 2448 x 2048 px
- Sony IMX264
- 2/3" CMOS
- 24 fps
- Gigabit Ethernet



Picture similar



GEN<i>i>CAM



Technical data

Sensor information

| | |
|---------------|--------------------|
| Sensor | Sony IMX264 Gen2 |
| Mono/Color | Color |
| 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 | 2.08 e- |
| Saturation capacity | 9522 e- |
| Dynamic range | 70.8 dB |
| Signal-to-noise ratio | 39.8 dB |
| Quantum efficiency | 47.2 % @ 465 nm 58 % @ 536 nm 53.4 % @ 631 nm 46.8 % @ 467 nm 58.6 % @ 533 nm 52.5 % @ 630 nm |

Acquisition formats

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

Acquisition formats

| | |
|---------------|--|
| 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) |
|-----------------|---|

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

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 | 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 |
| Trigger sources | Hardware Software ActionCommand |
| Trigger delay | 0 ... 2 s, tracking and buffering of up to 256 trigger signals |
| Process Synchronization | Events Timer Trigger Delay Debouncer Counter Sequencer 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 | User Set Integrated temperature sensor Readable additional information (e.g. sensor information) |
| Calibration data | Integrated color correction matrix (3000 K, 5000 K, 6500 K, 9500 K, and user defined) Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values) Customer data storage (128 bytes user defined) |
| Internal image buffer | 115 MB 8 images (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: 8P8C Modular Jack (RJ45), screwable TYPE090 (according to GigE Vision Mechanical Supplement) |
| 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 |

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. 3.5 W @ 48 VDC (PoE) and 24 fps |

Non-volatile memory

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

Environmental conditions

| | |
|-----------------------|-------------------------------------|
| Operating temperature | 0 ... +65 ° @ T = measurement point |
| Storage temperature | -20 ... +70 °C |
| Humidity | 10 ... 90 % (non-condensing) |
| Protection class | IP 40 (with mounted lens and cable) |

Digital I/Os

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

Conformity

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

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Dimension drawing

