

## VCXG.2-51MP

Gigabit Ethernet, 5 Megapixel, mono polarized

Article number: 11707067

### Overview

- 2448 x 2048 px
- Sony IMX264 Gen2
- 2/3" CMOS
- 35 fps
- Gigabit Ethernet



Picture similar



GEN<i>i>CAM



### Technical data

#### Sensor information

Sensor	Sony IMX264 Gen2
Mono/Color	Mono polarized
Sensor type	2/3" CMOS
Shutter type	Global shutter
Resolution	2464 × 2048 px
Pixel size	3.45 × 3.45 μm
Exposure time	0.001 ... 60000 ms

#### Data quality (EMVA 1288 typical)

Dark noise	2.02 e-
Saturation capacity	9122 e-
Dynamic range	70.6 dB
Signal-to-noise ratio	39.6 dB
Quantum efficiency	24.4 % @ 533 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
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	Exposure Auto Gain Auto
Image Pre-processing	Image Flipping (X/Y) 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

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### Camera features

Process Synchronization	<ul style="list-style-type: none"> <li>Events</li> <li>Timer</li> <li>Trigger Delay</li> <li>Debouncer</li> <li>Counter</li> <li>Sequencer</li> <li>Trigger via Action CMD (GigE)</li> <li>Additional Output Modes (e.g. Trigger Ready)</li> <li>Chunk data inside transferred image</li> <li>Encoder support via Counter End trigger source</li> </ul>
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Additional Functions	<ul style="list-style-type: none"> <li>User Set</li> <li>Integrated temperature sensor</li> <li>Readable additional information (e.g. sensor information)</li> </ul>
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Calibration data	<ul style="list-style-type: none"> <li>Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values)</li> <li>Customer data storage (128 bytes user defined)</li> </ul>
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Internal image buffer	<ul style="list-style-type: none"> <li>115 MB</li> <li>8 images (Trigger Mode)</li> <li>1 image (Free Running Mode)</li> </ul>
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### 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)
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Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
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### Interfaces and connectors

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

Power consumption	<ul style="list-style-type: none"> <li>Approx. 2.8 W @ 12 VDC and 24 fps</li> <li>Approx. 3.5 W @ 48 VDC (PoE) and 24 fps</li> </ul>
Operating voltage	0

### Non-volatile memory

Flash memory size	128 kB
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### 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	<ul style="list-style-type: none"> <li>1 input line</li> <li>1 output line</li> <li>2 general purpose lines</li> </ul>
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### Conformity

Conformity	<ul style="list-style-type: none"> <li>CE</li> <li>RoHS</li> <li>UL recognized</li> </ul>
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## Dimension drawing

