

VCXG-201M.R

Gigabit Ethernet, 20 Megapixel, Monochrome

Article number: 11194343

Overview

- 5472 x 3648 px
- Sony IMX183
- 1" CMOS
- 6 fps
- Gigabit Ethernet



Picture similar



GEN*i*CAM



Technical data

Sensor information

Sensor	Sony IMX183
Mono/Color	Mono
Sensor type	1" CMOS
Shutter type	Rolling shutter Global reset shutter
Resolution	5472 × 3648 px
Pixel size	2.4 × 2.4 μm
Exposure time	0.115 ... 60000 ms

Data quality (EMVA 1288 typical)

Dark noise	3.11 e-
Saturation capacity	14844 e-
Dynamic range	71.7 dB
Signal-to-noise ratio	41.7 dB
Quantum efficiency	78.2 % @ 535 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 5472 × 3648 px, max. 6 fps Binning 2×2, 2736 × 1824 px, max. 9 fps Binning 2×1, 2736 × 3648 px, max. 6 fps Binning 1×2, 5472 × 1824 px, max. 9 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 5472 × 3648 px, max. 9 fps
Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed

Image preprocessing

Analog controls	Gain (0 ... 20 dB) Offset (0 ... 255 LSB 12 Bit)
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Color models	Mono
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Camera features

Basic Functions	Exposure Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
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Auto Functions	Exposure Auto Gain Auto
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Image Pre-processing	LUT / Gamma
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Acquisition / Interface	Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer
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Synchronization	free running trigger
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Trigger sources	Hardware Software ActionCommand
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Trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
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Camera features

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
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Additional Functions	User Set Integrated temperature sensor Readable additional information (e.g. sensor information) Save Custom Data
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Internal image buffer	58 MB 1 image (Trigger Mode) 1 image (Free Running Mode)
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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 type
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Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
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Power supply	via M8 / 8 pins or Power over Ethernet (PoE)
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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. 2.5 W @ 12 VDC and 6 fps Approx. 3.0 W @ 48 VDC (PoE) and 6 fps

Non-volatile memory

Flash memory size	128 kB
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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
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Conformity

Conformity	CE RoHS KC (R-REI-BkR-VCXG-201MR) EAC BIS-CRS (R-41207004)
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Dimension drawing

