

VCXG-201M.R

Gigabit Ethernet, 20 Megapixel, Monochrome

Article number: 11194343

Overview

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



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)
Auto Functions	Exposure Auto Gain Auto
Image Pre-processing	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

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Camera features

Process Synchronization	Events
	Timer
	Trigger Delay
	Debouncer
	Counter
	Trigger via Action CMD (GigE)
	Chunk data inside transferred image
Additional Functions	Encoder support via Counter End trigger source
	User Set
	Integrated temperature sensor
	Readable additional information (e.g. sensor information)
Internal image buffer	Save Custom Data
	58 MB
	1 image (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 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. 2.5 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

Conformity

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

