

# VCXG-65M.R

Gigabit Ethernet, 6,2 Megapixel, Monochrome

Article number: 11175757

## Overview

- 3072 x 2048 px
- Sony IMX178
- 1/1.8" CMOS
- 19 fps
- Gigabit Ethernet



Picture similar



GEN<i>i>CAM



## Technical data

### Sensor information

Sensor	Sony IMX178
Mono/Color	Mono
Sensor type	1/1.8" CMOS
Shutter type	Rolling shutter Global reset shutter
Resolution	3072 × 2048 px
Pixel size	2.4 × 2.4 μm

### Data quality (EMVA 1288 typical)

Dark noise	6.24 e-
Saturation capacity	14322 e-
Dynamic range	66.4 dB
Signal-to-noise ratio	41.6 dB
Quantum efficiency	0.4 % @ 1042 nm 4.7 % @ 840 nm 2.2 % @ 930 nm 18.6 % @ 406 nm 75.6 % @ 533 nm

### Acquisition formats

Image formats, interface frame rate max.	Full Frame, 3072 × 2048 px, max. 19 fps Binning 2×2, 1536 × 1024 px, max. 29 fps Binning 2×1, 1536 × 2048 px, max. 19 fps Binning 1×2, 3072 × 1024 px, max. 29 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 3072 × 2048 px, max. 29 fps

### Acquisition formats

Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed
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### Image preprocessing

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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### Camera features

Process Synchronization	Events Timer Trigger Delay Debouncer Counter Trigger via Action CMD (GigE) Additional Output Modes (e.g. Trigger Ready) 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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### 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 (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. 2.1 W @ 12 VDC and 19 fps Approx. 2.6 W @ 48 VDC (PoE) and 19 fps

### Environmental conditions

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

### Conformity

Conformity	CE RoHS UL recognized KC (R-R-BkR-VCXG-65R)
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## Dimension drawing

