

# VCXG.2-65M.R

Gigabit Ethernet, 6,2 Megapixel, Monochrome

Article number: 11708163

## Overview

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



Picture similar



GEN*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. 29 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)
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

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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)
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### Calibration data

Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values) Customer data storage (128 bytes user defined)
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### Interfaces and connectors

Data interface	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: 8P8C Modular Jack (RJ45), screwable type
Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)

### 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

Voltage supply range +Vs	12 ... 24 V DC (external power supply) 36 ... 57 V DC (Power over Ethernet)
Power consumption	Approx. 2.6 W @ 12 VDC and 19 fps Approx. 3.2 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
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## Dimension drawing

