

# VCXU.2-65M.R

USB 3.0, 6,2 Megapixel, Monochrome

Article number: 11708178

## Overview

- 3072 x 2048 px
- Sony IMX178
- 1/1.8" CMOS
- 47 fps
- USB 3.0



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
Exposure time	0.014 ... 60000 ms

### Data quality (EMVA 1288 typical)

Dark noise	3.01 e-
Saturation capacity	14522 e-
Dynamic range	71.8 dB
Signal-to-noise ratio	41.6 dB
Quantum efficiency	75.4 % @ 536 nm 75.3 % @ 533 nm

### Acquisition formats

Image formats, interface frame rate max.	Full Frame, 3072 × 2048 px, max. 47 fps Binning 2×2, 1536 × 1024 px, max. 47 fps Binning 2×1, 1536 × 2048 px, max. 47 fps Binning 1×2, 3072 × 1024 px, max. 47 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 3072 × 2048 px, max. 47 fps
Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed

### Image preprocessing

Analog controls	Gain (0 ... 26 dB) Offset (0 ... 255 LSB 12 Bit)
Color models	Mono
<b>Camera features</b>	
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	Image Flipping (X/Y) LUT / Gamma
Synchronization	free running trigger
Trigger sources	Hardware Software
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 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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Internal image buffer	450 MB 25 images (Trigger Mode) 1 image (Free Running Mode)
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### Interfaces and connectors

Data interface	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B
Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
Power supply	via USB 3.0 interface

### Mechanical data

Lens mount	C-mount
Width	29 mm
Height	29 mm
Depth	38 mm
Weight	≤ 90 g
Material	zinc die casting, baked varnish

### Electrical data

Power consumption	Approx. 2.4 W @ 47 fps
Operating voltage	5 VDC (via USB3.0 interface)

### 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
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## Dimension drawing

