

# VCXU.2-65C.R

USB 3.0, 6,2 Megapixel, Color

Article number: 11708177

## 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	Color
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	2.96 e-
Saturation capacity	14516 e-
Dynamic range	71.9 dB
Signal-to-noise ratio	41.6 dB
Quantum efficiency	56.4 % @ 465 nm 61.7 % @ 536 nm 47.5 % @ 631 nm 59.8 % @ 467 nm 64.7 % @ 533 nm 46.7 % @ 630 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

### Acquisition formats

Pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8
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### Image preprocessing

Analog controls	Gain (0 ... 26 dB) Offset (0 ... 255 LSB 12 Bit)
Color models	Mono Raw Bayer RGB BGR

### Camera features

Basic Functions	Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
Synchronization	free running trigger
Trigger sources	Hardware Software

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### Camera features

Trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
Process Synchronization	Events Timer Trigger Delay Debouncer Counter Chunk data inside transferred image Encoder support via Counter End trigger source
Additional Functions	User Set Integrated temperature sensor Readable additional information (e.g. sensor information)
Calibration data	Integrated color correction matrix (3000 K, 5000 K, 6500 K, 9500 K, and user defined) Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values) Customer data storage (128 bytes user defined)
Internal image buffer	450 MB 25 images (Trigger Mode) 1 image (Free Running Mode)

### 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)

### Interfaces and connectors

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

