

VCXG-65C.R

Gigabit Ethernet, 6,2 Megapixel, Color

Article number: 11175750

Overview

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



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

Data quality (EMVA 1288 typical)

Dark noise	2.9 e-
Saturation capacity	14036 e-
Dynamic range	71.8 dB
Signal-to-noise ratio	41.5 dB
Quantum efficiency	58.4 % @ 465 nm 62.8 % @ 536 nm 47.2 % @ 631 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	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8
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Image preprocessing

Color models	Mono Raw Bayer RGB BGR
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Camera features

Basic Functions	Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
Auto Functions	Exposure Auto Gain Auto White Balance Auto Color Transformation Auto

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Camera features

Image Pre-processing	Color Processing (RGB, BGR, Mono) Color Enhancement (with optimized ColorTransformationMatrix) LUT / Gamma
Acquisition / Interface	Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer
Process Synchronization	Events Timer Trigger Delay Debouncer Counter Trigger via Action CMD (GigE) 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) Save Custom Data

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)

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 (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
Protection class	IP 40

Conformity

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

