

## VCXG-125C.R

Gigabit Ethernet, 12 Megapixel, Color

Article number: 11175752

### Overview

- 4000 x 3000 px
- Sony IMX226
- 1/1.7" CMOS
- 10 fps
- Gigabit Ethernet



GEN<i>CAM



### Technical data

#### Sensor information

Sensor	Sony IMX226
Mono/Color	Color
Sensor type	1/1.7" CMOS
Shutter type	Rolling shutter Global reset shutter
Resolution	4000 × 3000 px
Pixel size	1.85 × 1.85 µm
Exposure time	0.0085 ... 60000 ms

#### Data quality (EMVA 1288 typical)

Dark noise	2.99 e-
Saturation capacity	10805 e-
Dynamic range	69.5 dB
Signal-to-noise ratio	40.3 dB
Quantum efficiency	59.4 % @ 465 nm 64 % @ 536 nm 46.4 % @ 631 nm

#### Acquisition formats

Image formats, interface frame rate max.	Full Frame, 4000 × 3000 px, max. 10 fps Binning 2×2, 2000 × 1500 px, max. 15 fps Binning 2×1, 2000 × 3000 px, max. 10 fps Binning 1×2, 4000 × 1500 px, max. 15 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 4000 × 3000 px, max. 15 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 ... 20 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)
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
Synchronization	free running trigger
Trigger sources	Hardware Software ActionCommand
Trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
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
Internal image buffer	35 MB 1 image (Trigger Mode) 1 image (Free Running Mode)

### Interfaces and connectors

Data interface	Gigabit Ethernet, Transfer rate 1000 Mb/s/sec, Fast Ethernet, Transfer Rate 100 Mb/s/sec, Connector: 8P8C Modular Jack (RJ45), screwable type
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### Interfaces and connectors

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. 2.2 W @ 12 VDC and 10 fps approx. 2.7 W @ 48 VDC (PoE) and 10 fps
Sealing	zinc die casting, nickel-plated, IP 40

### Non-volatile memory

Flash memory size	128 kB
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### Environmental conditions

Operating temperature	0 ... +65 ° @ T = measurement point
Humidity	0 ... 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 KC (R-R-BkR-VCXG-125MR)
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### Dimension drawing

