

# VCXG-125M.R

Gigabit Ethernet, 12 Megapixel, Monochrome

Article number: 11175753

## Overview

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



Picture similar



GEN*i*CAM



## Technical data

### Sensor information

Sensor	Sony IMX226
Mono/Color	Mono
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	3.03 e-
Saturation capacity	11095 e-
Dynamic range	69.6 dB
Signal-to-noise ratio	40.5 dB
Quantum efficiency	76.3 % @ 536 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
Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed

### Image preprocessing

Analog controls	Gain (0 ... 20 dB) Offset (0 ... 255 LSB 12 Bit)
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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)
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Auto Functions	Exposure Auto Gain Auto
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Image Pre-processing	LUT / Gamma
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Acquisition / Interface	Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer
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Synchronization	free running trigger
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Trigger sources	Hardware Software ActionCommand
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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 Trigger via Action CMD (GigE) 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) Save Custom Data
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Internal image buffer	35 MB 1 image (Trigger Mode) 1 images (Free Running Mode)
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### 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
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Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
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Power supply	via M8 / 8 pins or Power over Ethernet (PoE)
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### Mechanical data

Lens mount	C-mount
Width	29 mm

### Mechanical data

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. 2.3 W @ 12 VDC and 10 fps Approx. 2.7 W @ 48 VDC (PoE) and 10 fps

### 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 KC (R-R-BkR-VCXG-125MR)
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## Dimension drawing

