

VCXG-23M

Gigabit Ethernet, 2,3 Megapixel, Monochrome

Article number: 11165941

Overview

- 1920 x 1200 px
- Sony IMX174
- 1/1.2" CMOS
- 53 fps
- Gigabit Ethernet



GEN<i>i>CAM



Technical data

Sensor information

Sensor	Sony IMX174 Gen1
Mono/Color	Mono
Sensor type	1/1.2" CMOS
Shutter type	Global shutter
Resolution	1920 × 1200 px
Pixel size	5.86 × 5.86 µm
Exposure time	0.035 ... 60000 ms

Data quality (EMVA 1288 typical)

Dark noise	6.16 e-
Saturation capacity	31414 e-
Dynamic range	72.9 dB
Signal-to-noise ratio	45 dB
Quantum efficiency	68.6 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 1920 × 1200 px, max. 53 fps Binning 2×2, 960 × 600 px, max. 83 fps Binning 2×1, 960 × 1200 px, max. 83 fps Binning 1×2, 1920 × 600 px, max. 83 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 1920 × 1200 px, max. 82 fps
Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed

Image preprocessing

Analog controls	Gain (0 ... 48 dB) Offset (0 ... 255 LSB 12 Bit)
-----------------	---

Color models	Mono
--------------	------

Camera features

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
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

VCXG-23M

Gigabit Ethernet, 2,3 Megapixel, Monochrome

Article number: 11165941

Technical data

Camera features

Process Synchronization	Events Timer Trigger Delay Debouncer Counter Sequencer Trigger via Action CMD (GigE) Additional Output Modes (e.g. Trigger Ready) 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	53 MB 8 images (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
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
------------	---------

Mechanical data

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. 2,3 W @ 12 VDC and 53 fps approx. 2,8 W @ 48 VDC (PoE) and 53 fps

Non-volatile memory

Flash memory size	128 kB
-------------------	--------

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
-------	--

Conformity

Conformity	CE RoHS EAC KC (R-R-BkR-VCXG-23C) BIS-CRS (R-41207004)
------------	--

Dimension drawing

