VCXG-23C

Gigabit Ethernet, 2,3 Megapixel, Color

Article number: 11165942

Overview

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



Technical data

Sensor information	
Sensor	Sony IMX174 Gen1
Mono/Color	Color
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

Acquisition formats	
Image formats, interface frame rate max.	Full Frame, 1920 × 1200 px, max. 53 fps Binning 2×2, 960 × 600 px, max. 82 fps Binning 2×1, 960 × 1200 px, max. 82 fps Binning 1×2, 1920 × 600 px, max. 82 fps
Image formats, aquisition frame rate max. (Burst Mode)	Full Frame, 1920 × 1200 px, max. 82 fps
Pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8

Image preprocessing	
Analog controls	Gain (0 … 48 dB) Offset (0 … 255 LSB 12 Bit)

Image preprocessing	
Color models	Mono Raw Bayer RGB

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
Image Pre-processing	Image Flipping (X/Y) 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

2022-02-16 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

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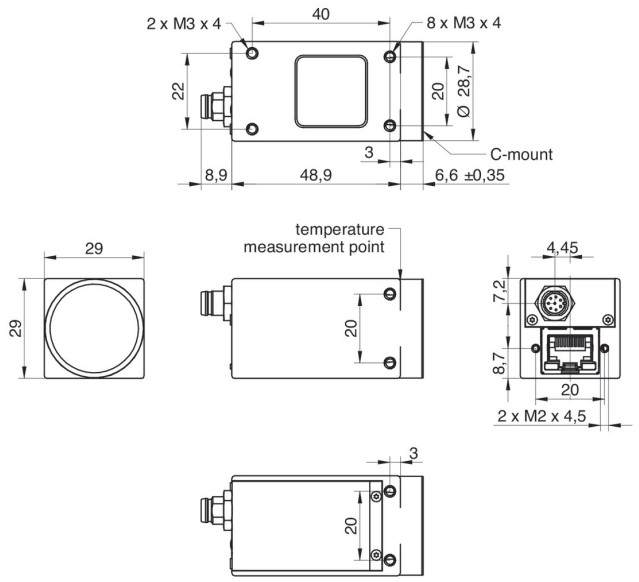
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Technical data

Camera features	
Trigger delay	0 … 2 sec, tracking and buffering of up to 256 trigger signals
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 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)
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. 2,4 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



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