Baumer
Passion for Sensors

Industrial cameras / CX series

VCXU-23M

USB 3.0, 2,3 Megapixel, Monochrome

Article number: 11151219

Overview

- 1920 x 1200 px
- Sony IMX174
- 1/1.2" CMOS
- 159 fps
- USB 3.0
- available



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	0,045 … 60000 ms
Acquisition formats	
Image formats, interface frame rate max.	Full Frame, 1920 × 1200 px, max. 159 fps Binning 2×2, 960 × 600 px, max. 166 fps Binning 2×1, 960 × 1200 px, max. 166 fps Binning 1×2, 1920 × 600 px, max. 166 fps
Image formats, aquisition frame rate max. (Burst Mode)	Full Frame, 1920 × 1200 px, max. 166 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
Trigger delay	0 … 2 sec, tracking and buffering of up to 256 trigger signals

2021-05-04 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

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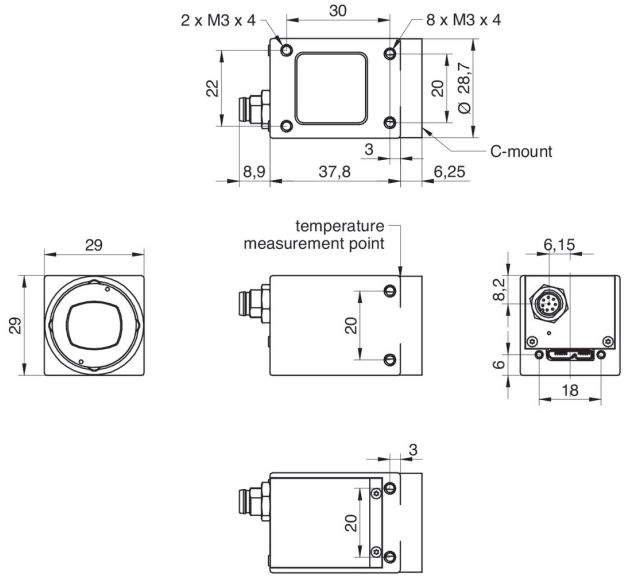
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Technical data

Camera features	
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	469 MB 71 images (Trigger Mode) 1 image (Free Running Mode)
Interfaces and connectors	
Data interface	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B
Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
Power supply	via USB 3.0 interface

Mechanical data	
Lens mount	C-mount
Width	29 mm
Height	29 mm
Depth	38 mm
Weight	≤ 90 g
Material	zinc die casting, baked varnish (until 02-2020 nickel-chrome-plated), IP 40
Electrical data	
Power consumption	approx. 2,8 W @ 159 fps
Operating voltage	5 VDC (via USB3.0 interface)
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

Dimension drawing



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