Baumer
Passion for Sensors

Industrial cameras / EX series

VEXU-24C

USB 3.0, 2,3 Megapixel, Color

Article number: 11151568

Overview

- 1920 × 1200 px
- Sony IMX249
- 1/1.2" CMOS
- 38 fps
- USB 3.0



Technical data

Sensor information	
Sensor	Sony IMX249 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	0.057 … 60000 ms
Data quality (EMVA 1288 typical)	
Dark noise	7.41 e-
Saturation capacity	32014 e-
Dynamic range	71.7 dB
Signal-to-noise ratio	45.1 dB
Quantum efficiency	55.8 % @ 465 nm 61.5 % @ 536 nm 47.2 % @ 631 nm
Acquisition formats	
Image formats, interface frame rate max.	Full Frame, 1920 × 1200 px, max. 38 fps Binning 2×2, 960 × 600 px, max. 38 fps Binning 2×1, 960 × 1200 px, max. 38 fps Binning 1×2, 1920 × 600 px, max. 38 fps
Image formats, aquisition frame rate max. (Burst Mode)	Full Frame, 1920 × 1200 px, max. 38 fps
Pixel formats	BayerRG8 BayerRG12

Image preprocessing	
Analog controls	Gain (0 … 48 dB) Offset (0 … 255 LSB 12 Bit)
Color models	Raw Bayer
Camera features	
Basic Functions	Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
Acquisition / Interface	Adjustable Framerate
Synchronization	free running trigger
Trigger sources	Hardware Software
Process Synchronization	Debouncer
Additional Functions	User Set
Internal image buffer	0 MB
Interfaces and connectors	
Data interface	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B
Process interface	M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180)
Power supply	via USB 3.0 interface
Mechanical data	
Lens mount	CS-mount
Width	29 mm

2022-11-10 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

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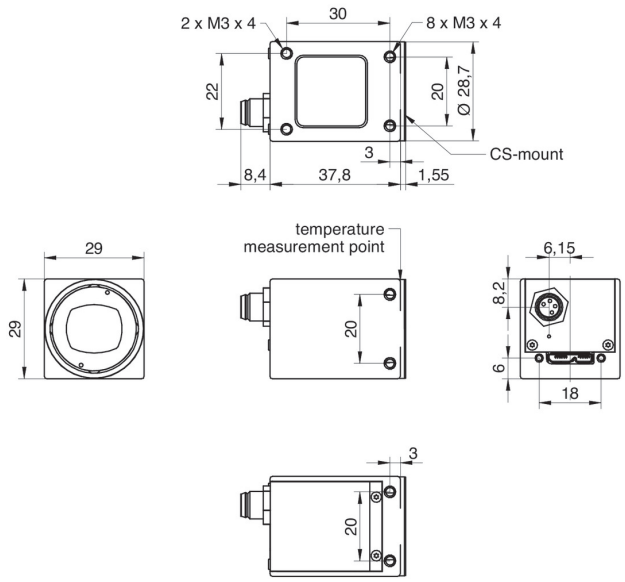
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Technical data

Mechanical data	
Height	29 mm
Depth	38 mm
Weight	≤ 90 g
Material	zinc die casting, nickel-plated, IP 40
Electrical data	
Power consumption	approx. 1,5 W @ 38,0 fps
Operating voltage	5 VDC (via USB3.0 interface)
Non-volatile memory	
Flash memory size	128 kB

Environmental conditions	
Operating temperature	+5 … +65 °C @ T = measurement point
Humidity	10 … 90 % (non-condensing)
Protection class	IP 40
Digital I/Os	
Lines	1 input line 1 output line
Conformity	
Conformity	CE RoHS EAC

Dimension drawing



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