

VEXU-24M

USB 3.0, 2,3 Megapixel, Monochrome

Article number: 11151567

Overview

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



Picture similar



GEN*i*CAM



Technical data

Sensor information

Sensor	Sony IMX249 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	0.057 ... 60000 ms

Data quality (EMVA 1288 typical)

Dark noise	7.13 e-
Saturation capacity	32156 e-
Dynamic range	72.1 dB
Signal-to-noise ratio	45.1 dB
Quantum efficiency	70.6 % @ 536 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, acquisition frame rate max. (Burst Mode)	Full Frame, 1920 × 1200 px, max. 38 fps
Pixel formats	Mono8 Mono12

Image preprocessing

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

Color models	Mono
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Camera features

Basic Functions	Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
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Acquisition / Interface	Adjustable Framerate
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Synchronization	free running trigger
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Trigger sources	Hardware Software
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Process Synchronization	Debouncer
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Additional Functions	User Set
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Internal image buffer	0 MB
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Interfaces and connectors

Data interface	USB 3.0, Transfer Rate 5000 Mbits/sec, Connector: USB 3.0 Micro B
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Process interface	M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180)
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Power supply	via USB 3.0 interface
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Mechanical data

Lens mount	CS-mount
Width	29 mm
Height	29 mm

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Mechanical data

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
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Environmental conditions

Operating temperature	+5 ... +65 °C @ T = measurement point
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Environmental conditions

Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40

Digital I/Os

Lines	1 input line 1 output line
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Conformity

Conformity	CE RoHS EAC
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Dimension drawing

