

## VCXU-50MP

USB 3.0, 5 Megapixel, mono polarized

Article number: 11206488

### Overview

- 2448 x 2048 px
- Sony IMX250MZR
- 2/3" CMOS
- 73 fps
- USB 3.0



### Technical data

#### Sensor information

Sensor	Sony IMX250MZR
Mono/Color	Mono polarized
Sensor type	2/3" CMOS
Shutter type	Global shutter
Resolution	2448 × 2048 px
Pixel size	3.45 × 3.45 µm
Exposure time	0.001 ... 60000 ms

#### Data quality (EMVA 1288 typical)

Dark noise	2.09 e-
Saturation capacity	9327 e-
Dynamic range	70.6 dB
Signal-to-noise ratio	39.7 dB
Quantum efficiency	24.5 % @ 536 nm

#### Acquisition formats

Image formats, interface frame rate max.	Full Frame, 2448 × 2048 px, max. 73 fps Binning 2×2, 1224 × 1024 px, max. 77 fps Binning 2×1, 1224 × 2048 px, max. 77 fps Binning 1×2, 2448 × 1024 px, max. 77 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 2448 × 2048 px, max. 77 fps
Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed

#### Image preprocessing

Analog controls	Gain (0 ... 48 dB) Offset (0 ... 255 LSB 12 Bit)
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Color models	Mono Mono polarized
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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)
Auto Functions	White Balance 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 Short Exposure Time Enable 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

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#### Camera features

Process Synchronization	Events
	Timer
	Trigger Delay
	Debouncer
	Counter
	Sequencer
	Trigger via Action CMD (GigE)
	Additional Output Modes (e.g. Trigger Ready)
Additional Functions	Chunk data inside transferred image
	User Set
Internal image buffer	Integrated temperature sensor
	445 MB
	31 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

#### Mechanical data

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. 3,3 W @ 73 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	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

