

VCXU.2-201M.R

USB 3.0, 20,0 Megapixel, Monochrome

Article number: 11708180

Overview

- 5472 x 3648 px
- Sony IMX183
- 1" CMOS
- 15 fps
- USB 3.0



Picture similar



Technical data

Sensor information

Sensor	Sony IMX183
Mono/Color	Mono
Sensor type	1" CMOS
Shutter type	Rolling shutter Global reset shutter
Resolution	5472 × 3648 px
Pixel size	2.4 × 2.4 μm
Exposure time	0.053 ... 60000 ms

Data quality (EMVA 1288 typical)

Dark noise	3.08 e-
Saturation capacity	14737 e-
Dynamic range	71.8 dB
Signal-to-noise ratio	41.7 dB
Quantum efficiency	80 % @ 536 nm 79.7 % @ 533 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 5472 × 3648 px, max. 15 fps Binning 2×2, 2736 × 1824 px, max. 20 fps Binning 2×1, 2736 × 3648 px, max. 15 fps Binning 1×2, 5472 × 1824 px, max. 15 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 5472 × 3648 px, max. 20 fps
Pixel formats	Mono8 Mono10 Mono12 Mono12 Packed

Image preprocessing

Analog controls	Gain (0 ... 20 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
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 Chunk data inside transferred image Encoder support via Counter End trigger source
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Additional Functions	User Set Integrated temperature sensor Readable additional information (e.g. sensor information)
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Calibration data	Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values) Customer data storage (128 bytes user defined)
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Internal image buffer	457 MB 8 images (Trigger Mode) 1 image (Free Running Mode)
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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 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
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Power supply	via USB 3.0 interface
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Mechanical data

Lens mount	C-mount
Width	29 mm
Height	29 mm
Depth	38 mm
Weight	≤ 90 g
Material	zinc die casting, baked varnish

Electrical data

Power consumption	Approx. 3.3 W @ 15 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
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Conformity

Conformity	CE RoHS EAC BIS-CRS (R-41207004)
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Dimension drawing

