

VCXU.2-127M

USB 3.0, 12.3 Megapixel, Monochrome

Article number: 11708188

Overview

- 4096 x 2992 px
- Sony IMX545
- 1/1.1" CMOS
- 31 fps
- USB 3.0



Picture similar



GEN*i*CAM



Technical data

Sensor information

Sensor	Sony IMX545 Gen4
Mono/Color	Mono
Sensor type	1/1.1" CMOS
Shutter type	Global shutter
Resolution	4096 × 2992 px
Pixel size	2.74 × 2.74 μm
Exposure time	0.001 ... 60000 ms

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 4096 × 2992 px, max. 31 fps Binning 2×2, 2048 × 1496 px, max. 85 fps Binning 2×1, 2048 × 2992 px, max. 31 fps Binning 1×2, 4096 × 1496 px, max. 31 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 4096 × 2992 px, max. 31 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 ActionCommand
Trigger delay	0 ... 2 s, tracking and buffering of up to 256 trigger signals

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Camera features

Process Synchronization	<ul style="list-style-type: none"> 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
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Additional Functions	<ul style="list-style-type: none"> User Set Integrated temperature sensor Readable additional information (e.g. sensor information)
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Calibration data	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 141 MB 4 image (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
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Mechanical data

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

Electrical data

Power consumption	Approx. 3.1 W @ 31 fps
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Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	0 ... +65 ° @ T = measurement point
Storage temperature	-20 ... +70 °C
Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40 (with mounted lens and cable)

Digital I/Os

Lines	<ul style="list-style-type: none"> 1 input line 1 output line 2 general purpose lines
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Output line sources	<ul style="list-style-type: none"> Off Exposure Active Timer1 Readout Active User0 User1 User2 TriggerReady
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Conformity

Conformity	<ul style="list-style-type: none"> CE RoHS UL recognized
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Dimension drawing

