

VCXU.2-127C

USB 3.0, 12.3 Megapixel, Color

Article number: 11708189

Overview

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



Picture similar



Technical data

Sensor information

Sensor	Sony IMX545 Gen4
Mono/Color	Color
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. 31 fps Binning 2×1, 2048 × 2992 px, max. 31 fps Binning 1×2, 4096 × 1496 px, max. 31 fps
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Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 4096 × 2992 px, max. 31 fps
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Pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8
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Image preprocessing

Analog controls	Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit)
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Image preprocessing

Color models	Mono Raw Bayer RGB BGR
Color processing	Integrated color processor for high quality color calculation

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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Auto Functions	Exposure Auto Gain Auto White Balance Auto Color Transformation Auto
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Image Pre-processing	Image Flipping (X/Y) Color Processing (RGB, BGR, Mono) Color Enhancement (with optimized ColorTransformationMatrix) LUT / Gamma
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Acquisition / Interface	Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer
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Synchronization	free running trigger
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Camera features

Trigger sources	Hardware Software ActionCommand
Trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals
Process Synchronization	Events Timer Trigger Delay Debouncer Counter Chunk data inside transferred image Encoder support via Counter End trigger source
Additional Functions	User Set Integrated temperature sensor Readable additional information (e.g. sensor information)
Calibration data	Integrated color correction matrix (3000 K, 5000 K, 6500 K, 9500 K, and user defined) Camera calibration data (user defined storage for intrinsic / extrinsic camera parameters, and geometry distortion values) Customer data storage (128 bytes user defined)
Internal image buffer	141 MB 4 image (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
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
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
Output line sources	Off Exposure Active Timer1 Readout Active User0 User1 User2 TriggerReady

Conformity

Conformity	CE RoHS
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Dimension drawing

