

VCXG.2-127M

Gigabit Ethernet, 12.2 Megapixel, Monochrome

Article number: 11708158

Overview

- 4096 x 2992 px
- Sony IMX545
- 1/1.1" CMOS
- 10 fps
- Gigabit Ethernet



Picture similar



GEN<i>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

Data quality (EMVA 1288 typical)

Dark noise	2.35 e-
Saturation capacity	9205 e-
Dynamic range	69.7 dB
Signal-to-noise ratio	39.6 dB
Quantum efficiency	65.5 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 4096 × 2992 px, max. 10 fps Binning 2×2, 2048 × 1496 px, max. 36 fps Binning 2×1, 2048 × 2992 px, max. 11 fps Binning 1×2, 4096 × 1496 px, max. 11 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 4096 × 2992 px, max. 11 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
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Camera features

Basic Functions	Exposure 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
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Image Pre-processing	Image Flipping (X/Y) 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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Trigger sources	Hardware Software ActionCommand
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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	Gigabit Ethernet, Transfer rate 1000 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, Connector: 8P8C Modular Jack (RJ45), screwable TYPE090 (according to GigE Vision Mechanical Supplement)
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Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
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Power supply	via M8/8 pins or Power over Ethernet (PoE)
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Mechanical data

Lens mount	C-mount
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Mechanical data

Width	29 mm
Height	29 mm
Depth	49 mm
Weight	≤ 120 g
Material	zinc die casting, baked varnish

Electrical data

Voltage supply range +Vs	12 ... 24 V DC (external power supply) 36 ... 57 V DC (Power over Ethernet)
Power consumption	Approx. 2.9 W @ 12 VDC and 10 fps Approx. 3.5 W @ 48 VDC (PoE) and 10 fps

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
Output line sources	<ul style="list-style-type: none"> Off Exposure Active Timer1 Readout Active User0 User1 User2 TriggerReady

Conformity

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

