VCXG.2-204M

Gigabit Ethernet, 20.1 Megapixel, Monochrome

Article number: 11708160

Overview

- 4480 x 4496 px
- Sony IMX541
- 1.1" CMOS
- 6 fps
- Gigabit Ethernet

Picture similar

Technical data

Sensor information	
Sensor	Sony IMX541 Gen4
Mono/Color	Mono
Sensor type	1.2″ CMOS
Shutter type	Global shutter
Resolution	4480 × 4496 px
Pixel size	2.74 × 2.74 µm
Exposure time	0.001 … 60000 ms
Data quality (EMVA 1288 typical)	
Dark noise	2.28 e-
Saturation capacity	9038 e-
Dynamic range	69.8 dB
Signal-to-noise ratio	39.6 dB
Quantum efficiency	71.1 % @ 536 nm 1 % @ 1041 nm 18.9 % @ 840 nm 7.4 % @ 930 nm 67.1 % @ 406 nm
Acquisition formats	
Image formats, interface frame rate max.	Full Frame, 4480 × 4496 px, max. 6 fps Binning 2×2, 2240 × 2248 px, max. 23 fps Binning 2×1, 2240 × 4496 px, max. 6 fps Binning 1×2, 4480 × 2248 px, max. 6 fps
Image formats, aquisition frame rate max. (Burst Mode)	Full Frame, 4480 × 4496 px, max. 6 fps

Acquisition formats	
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

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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 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
Additional Functions	User Set Integrated temperature sensor Readable additional information (e.g. sensor information)
Calibration data	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	231 MB 4 image (Trigger Mode) 1 image (Free Running Mode)
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 type
Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
Power supply	via M8 / 8 pins or Power over Ethernet (PoE)

Mechanical data	
Lens mount	C-mount
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. 3.4 W @ 12 VDC and 6 fps Approx. 4.1 W @ 48 VDC (PoE) and 6 fps
Non-volatile memory	
Flash memory size	128 kB
Environmental conditions	
Operating temperature	0 … +65 ° @ T = measurement point
Humidity	10 … 90 % (non-condensing)
Protection class	IP 40 (with mounted lens and cable)
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