VCXG-201C.R

Gigabit Ethernet, 20,0 Megapixel, Color

Article number: 11172631

Overview

- 5472 x 3648 px
- Sony IMX183
- 1" CMOS
- 6 fps
- Gigabit Ethernet

Technical data

Sensor information	
Sensor	Sony IMX183
Mono/Color	Color
Sensor type	1″ CMOS
Shutter type	Rolling shutter Global reset shutter
Resolution	5472 × 3648 px
Pixel size	2.4 × 2.4 µm
Exposure time	0.115 … 60000 ms
Data quality (EMVA 1288 typical)	
Dark noise	3.1 e-
Saturation capacity	14619 e-
Dynamic range	71.7 dB
Signal-to-noise ratio	41.6 dB
Quantum efficiency	59.9 % @ 465 nm 66.6 % @ 535 nm 50.8 % @ 630 nm
Acquisition formats	
Image formats, interface frame rate max.	Full Frame, 5472 × 3648 px, max. 6 fps Binning 2×2, 2736 × 1824 px, max. 9 fps Binning 2×1, 2736 × 3648 px, max. 6 fps Binning 1×2, 5472 × 1824 px, max. 9 fps
Image formats, aquisition frame rate max. (Burst Mode)	Full Frame, 5472 × 3648 px, max. 9 fps

Acquisition formats	
Pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8
Image preprocessing	
Analog controls	Gain (0 … 20 dB) Offset (0 … 255 LSB 12 Bit)
Color models	Mono Raw Bayer RGB BGR
Camera features	
Basic Functions	Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
Auto Functions	Exposure Auto Gain Auto White Balance Auto Color Transformation Auto

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Camera features	
Image Pre-processing	Color Processing (RGB, BGR, Mono) Color Enhancement (with optimized ColorTransformationMatrix) 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 sec, tracking and buffering of up to 256 trigger signals
Process Synchronization	Events Timer Trigger Delay Debouncer Counter Trigger via Action CMD (GigE) 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) Save Custom Data
Internal image buffer	58 MB 1 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

Interfaces and connectors	
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 (until 02-2020 nickel-chrome-plated), IP 40
Electrical data	
Voltage supply range +Vs	12 … 24 V DC (external power supply) 36 … 57 V DC (Power over Ethernet)
Power consumption	approx. 2,5 W @ 12 VDC and 6 fps approx. 3,0 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
Digital I/Os	
Lines	1 input line 1 output line 2 general purpose lines
Conformity	
Conformity	CE RoHS KC (R-REI-BkR-VCXG-201MR) EAC BIS-CRS (R-41207004)

Dimension drawing