

VCXG-15C.PTP

Gigabit Ethernet, 1,5 Megapixel, Color

Article number: 11700941

Overview

- 1440 x 1080 px
- Sony IMX273
- 1/2.9" CMOS
- 79 fps
- Gigabit Ethernet



GEN<i>i>CAM



Technical data

Sensor information

Sensor	Sony IMX273 Gen2
Mono/Color	Color
Sensor type	1/2.9" CMOS
Shutter type	Global shutter
Resolution	1440 × 1080 px
Pixel size	3.45 × 3.45 µm
Exposure time	0.001 ... 60000 ms

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 1440 × 1080 px, max. 79 fps Binning 2×2, 720 × 540 px, max. 120 fps Binning 2×1, 720 × 1080 px, max. 120 fps Binning 1×2, 1440 × 540 px, max. 120 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 1440 × 1080 px, max. 121 fps
Pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8

Image preprocessing

Analog controls	Gain (0 ... 48 dB) Offset (0 ... 255 LSB 12 Bit)
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Image preprocessing

Color models	Mono Raw Bayer RGB BGR
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Camera features

Basic Functions	Exposure Gain / Color Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
Auto Functions	White Balance Auto
Image Pre-processing	Image Flipping (X/Y) Color Processing (RGB, BGR, Mono) Color Enhancement (with optimized ColorTransformationMatrix) LUT / Gamma
Acquisition / Interface	Burst Mode Adjustable Framerate Short Exposure Time Enable 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

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Camera features

Process Synchronization	Events
	Timer
	Trigger Delay
	Debouncer
	Counter
	Sequencer
	Trigger via Action CMD (GigE)
	Action CMD Request ID
	Trigger ID inside Chunk
	Additional Output Modes (e.g. Trigger Ready)
	Chunk data inside transferred image
	Encoder support via Counter End trigger source
Time synchronization IEEE 1588	IEEE 1588 / Master and Slave function IEEE 1588 / Scheduled Action CMD IEEE 1588 / Synchronized Acquisition Framerate
Additional Functions	User Set
	Integrated temperature sensor
	Readable additional information (e.g. sensor information)
	Save Custom Data
Internal image buffer	36 MB
	8 images (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 (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. 2,4 W @ 12 VDC and 79 fps approx. 3,0 W @ 48 VDC (PoE) and 79 fps

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

Conformity

Conformity	CE RoHS EAC BIS-CRS (R-41207004)
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Dimension drawing

