

# VCXG-124C.PTP

Gigabit Ethernet, 12,2 Megapixel, Color

Article number: 11217712

## Overview

- 4096 x 3000 px
- Sony IMX304
- 1.1" CMOS
- 9 fps
- Gigabit Ethernet



Picture similar



GEN*i*>CAM



## Technical data

### Sensor information

Sensor	Sony IMX304 Gen2
Mono/Color	Color
Sensor type	1.1" CMOS
Shutter type	Global shutter
Resolution	4096 × 3000 px
Pixel size	3.45 × 3.45 μm
Exposure time	0.001 ... 60000 ms

### Acquisition formats

Image formats, interface frame rate max.	Full Frame, 4096 × 3000 px, max. 9 fps Binning 2×2, 2048 × 1500 px, max. 15 fps Binning 2×1, 2048 × 3000 px, max. 15 fps Binning 1×2, 4096 × 1500 px, max. 15 fps
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Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 4096 × 3000 px, max. 15 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 ... 48 dB) Offset (0 ... 255 LSB 12 Bit)
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### Image preprocessing

Color models	Mono Raw Bayer RGB
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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)
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Auto Functions	White Balance 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 Short Exposure Time Enable 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 128 trigger signals
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## Technical data

### Camera features

Process Synchronization	<ul style="list-style-type: none"> <li>Events</li> <li>Timer</li> <li>Trigger Delay</li> <li>Debouncer</li> <li>Counter</li> <li>Sequencer</li> <li>Trigger via Action CMD (GigE)</li> <li>Action CMD Request ID</li> <li>Trigger ID inside Chunk</li> <li>Additional Output Modes (e.g. Trigger Ready)</li> <li>Chunk data inside transferred image</li> <li>Encoder support via Counter End trigger source</li> </ul>
Time synchronization IEEE 1588	<ul style="list-style-type: none"> <li>IEEE 1588 / Master and Slave function</li> <li>IEEE 1588 / Scheduled Action CMD</li> <li>IEEE 1588 / Synchronized Acquisition Framerate</li> </ul>
Additional Functions	<ul style="list-style-type: none"> <li>User Set</li> <li>Integrated temperature sensor</li> <li>Readable additional information (e.g. sensor information)</li> <li>Save Custom Data</li> </ul>
Internal image buffer	<ul style="list-style-type: none"> <li>36 MB</li> <li>1 image (Trigger Mode)</li> <li>1 image (Free Running Mode)</li> </ul>

### 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)
Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)

### Interfaces and connectors

Power supply	via M8/8 pins or Power over Ethernet (PoE)
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### 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. 2.8 W @ 12 VDC and 9 fps Approx. 3.7 W @ 48 VDC (PoE) and 9 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"> <li>1 input line</li> <li>1 output line</li> <li>2 general purpose lines</li> </ul>
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### Conformity

Conformity	<ul style="list-style-type: none"> <li>CE</li> <li>RoHS</li> <li>UL recognized</li> <li>BIS-CRS (R-41207004)</li> </ul>
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## Dimension drawing

