

## VCXG.2-57C

Gigabit Ethernet, 5 Megapixel, Color

Article number: 11708165

### Overview

- 2464 × 2048 px
- Sony IMX548
- 1/1.8" CMOS
- 25 fps
- Gigabit Ethernet



Picture similar



GEN*i*CAM



### Technical data

#### Sensor information

Sensor	Sony IMX546 Gen4
Mono/Color	Color
Sensor type	1/1.8" CMOS
Shutter type	Global shutter
Resolution	2464 × 2048 px
Pixel size	2.74 × 2.74 μm
Exposure time	0.001 ... 60000 ms

#### Data quality (EMVA 1288 typical)

Dark noise	2.47 e-
Saturation capacity	9303 e-
Dynamic range	69.5 dB
Signal-to-noise ratio	39.7 dB
Quantum efficiency	43.9 % @ 465 nm 50.9 % @ 536 nm 40.2 % @ 630 nm

#### Acquisition formats

Image formats, interface frame rate max.	Full Frame, 2464 × 2048 px, max. 25 fps Binning 2×2, 1232 × 1024 px, max. 75 fps Binning 2×1, 1232 × 2048 px, max. 25 fps Binning 1×2, 2464 × 1024 px, max. 75 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 2464 × 2048 px, max. 25 fps

#### Acquisition formats

Pixel formats	BayerRG8 BayerRG10 BayerRG12 BayerRG12 Packed Mono8 Mono10 Mono12 Mono12 Packed RGB8 BGR8
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#### Image preprocessing

Analog controls	Gain (0 ... 18 dB) Offset (0 ... 63 LSB 10 Bit)
Color models	Mono Raw Bayer RGB BGR
Color processing	Integrated color processor for high quality color calculation

#### 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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2023-07-18 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

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## Technical data

### Camera features

Auto Functions	Exposure Auto Gain Auto White Balance Auto Color Transformation 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 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 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	Integrated color correction matrix (3000 K, 5000 K, 6500 K, 9500 K, and user defined) 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	185 MB 8 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. 2.7 W @ 12 VDC and 25 fps Approx. 3.3 W @ 48 VDC (PoE) and 25 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 (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

