

# VCXU-25C

USB 3.0, 2,3 Megapixel, Color

Article number: 11165903

## Overview

- 1920 x 1200 px
- onsemi PYTHON2000
- 2/3" CMOS
- 167 fps
- USB 3.0



Picture similar



GEN<i>i>CAM



## Technical data

### Sensor information

Sensor	onsemi PYTHON2000
Mono/Color	Color
Sensor type	2/3" CMOS
Shutter type	Global shutter
Resolution	1920 × 1200 px
Pixel size	4.8 × 4.8 μm
Exposure time	0.02 ... 1000 ms

### Data quality (EMVA 1288 typical)

Dark noise	11.34 e-
Saturation capacity	8338 e-
Dynamic range	56.7 dB
Signal-to-noise ratio	39.2 dB
Quantum efficiency	38.1 % @ 465 nm 41.3 % @ 536 nm 44.4 % @ 631 nm

### Acquisition formats

Image formats, interface frame rate max.	Full Frame, 1920 × 1200 px, max. 167 fps Binning 2×2, 960 × 600 px, max. 167 fps Binning 2×1, 960 × 1200 px, max. 167 fps Binning 1×2, 1920 × 600 px, max. 167 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 1920 × 1200 px, max. 167 fps

### Acquisition formats

Pixel formats	BayerRG8 BayerRG10 Mono8 Mono10 RGB8 BGR8
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### Image preprocessing

Analog controls	Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit)
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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)
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

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### Camera features

Acquisition / Interface	Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer
Synchronization	free running trigger
Trigger sources	Hardware Software
Trigger delay	0 ... 2 s, 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) Save Custom Data
Internal image buffer	475 MB 72 images (Trigger Mode) 1 image (Free Running Mode)

### Interfaces and connectors

Data interface	USB 3.0, Transfer Rate 5000 Mb/s, Connector: USB 3.0 Micro B
Process interface	M8 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)

### Interfaces and connectors

Power supply via USB 3.0 interface

### Mechanical data

Lens mount	C-mount
Width	29 mm
Height	29 mm
Depth	38 mm
Weight	≤ 90 g
Material	zinc die casting, baked varnish (until 02-2020 nickel-chrome-plated), IP 40

### Electrical data

Power consumption	Approx. 3.8 W @ 167 fps
Operating voltage	5 VDC (via USB3.0 interface)

### 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	1 input line 1 output line 2 general purpose lines
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### Conformity

Conformity	CE RoHS UL recognized KC (R-R-BKR-VCXU-53M) EAC
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## Dimension drawing

