

# VEXG-13C

Gigabit Ethernet, 1,3 Megapixel, Color

Article number: 11151560

## Overview

- 1280 × 1024 px
- onsemi PYTHON1300
- 1/2" CMOS
- 61 fps
- Gigabit Ethernet



Picture similar



GEN*i*CAM



## Technical data

### Sensor information

Sensor	onsemi PYTHON1300
Mono/Color	Color
Sensor type	1/2" CMOS
Shutter type	Global shutter
Resolution	1280 × 1024 px
Pixel size	4.8 × 4.8 μm
Exposure time	0.04 ... 1000 ms

### Data quality (EMVA 1288 typical)

Dark noise	10.91 e-
Saturation capacity	9781 e-
Dynamic range	58.4 dB
Signal-to-noise ratio	39.9 dB
Quantum efficiency	46.3 % @ 465 nm 50.9 % @ 536 nm 53.9 % @ 631 nm

### Acquisition formats

Image formats, interface frame rate max.	Full Frame, 1280 × 1024 px, max. 61 fps Binning 2×2, 640 × 512 px, max. 61 fps Binning 2×1, 640 × 1024 px, max. 61 fps Binning 1×2, 1280 × 512 px, max. 61 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 1280 × 1024 px, max. 61 fps
Pixel formats	BayerRG8 BayerRG10

### Image preprocessing

Analog controls	Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit)
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Color models	Raw Bayer
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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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Acquisition / Interface	Adjustable Framerate
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Synchronization	free running trigger
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Trigger sources	Hardware Software
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Process Synchronization	Debouncer
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Additional Functions	User Set
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Internal image buffer	4 MB 1 image (Trigger Mode) 1 image (Free Running Mode)
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### Interfaces and connectors

Data interface	Gigabit Ethernet, Transfer rate 1000 Mb/s, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: 8P8C Modular Jack (RJ45), screwable type
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Process interface	M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180)
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### Interfaces and connectors

Power supply via M8 / 4 pins

### Mechanical data

Lens mount CS-mount

Width 29 mm

Height 29 mm

Depth 49 mm

Weight ≤ 120 g

Material zinc die casting, nickel-plated, IP 40

### Electrical data

Voltage supply range +Vs 12 ... 24 V DC (external power supply)

Power consumption Approx. 2.2 W @ 12 VDC and 61 fps

### Non-volatile memory

Flash memory size 128 kB

### Environmental conditions

Operating temperature +5 ... +65 °C @ T = measurement point

Humidity 10 ... 90 % (non-condensing)

Protection class IP 40

### Digital I/Os

Lines 1 input line  
1 output line

### Conformity

Conformity CE  
RoHS  
EAC

## Dimension drawing

