

## VEXG-13M

Gigabit Ethernet, 1,3 Megapixel, Monochrome

Article number: 11151562

### Overview

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



Picture similar



GEN<i>i>CAM



### Technical data

#### Sensor information

Sensor	onsemi PYTHON1300
Mono/Color	Mono
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	9.68 e-
Saturation capacity	9625 e-
Dynamic range	59.2 dB
Signal-to-noise ratio	39.8 dB
Quantum efficiency	61.4 % @ 536 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	Mono8 Mono10

#### Image preprocessing

Analogue controls	Gain (0 ... 12 dB) Offset (0 ... 63 LSB 10 Bit)
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#### Image preprocessing

Color models	Mono
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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)
Acquisition / Interface	Adjustable Framerate
Synchronization	free running trigger
Trigger sources	Hardware Software
Process Synchronization	Debouncer

Additional Functions	User Set
Internal image buffer	4 MB 1 image (Trigger Mode) 1 image (Free Running Mode)

#### 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
Process interface	M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180)
Power supply	via M8 / 4 pins

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### 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
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### 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
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### Conformity

Conformity	CE RoHS EAC
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## Dimension drawing

