

VEXG-02C

Gigabit Ethernet, 0,3 Megapixel, Color

Article number: 11151559

Overview

- 640 × 480 px
- Onsemi PYTHON300
- 1/4" CMOS
- 217 fps
- Gigabit Ethernet



Picture similar



GEN<i>i>CAM



Technical data

Sensor information

Sensor	onsemi PYTHON300
Mono/Color	Color
Sensor type	1/4" CMOS
Shutter type	Global shutter
Resolution	640 × 480 px
Pixel size	4.8 × 4.8 µm
Exposure time	0.04 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	12.27 e-
Saturation capacity	9612 e-
Dynamic range	57.3 dB
Signal-to-noise ratio	39.8 dB
Quantum efficiency	47.7 % @ 465 nm 52.8 % @ 536 nm 54.7 % @ 631 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 640 × 480 px, max. 217 fps Binning 2×2, 320 × 240 px, max. 217 fps Binning 2×1, 320 × 480 px, max. 217 fps Binning 1×2, 640 × 240 px, max. 217 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 640 × 480 px, max. 217 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	1 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/sec, Fast Ethernet, Transfer Rate 100 Mb/s/sec, Connector: 8P8C Modular Jack (RJ45), screwable type
Process interface	M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180)

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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 217 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

