

VEXG-02C

Gigabit Ethernet, 0,3 Megapixel, Color

Article number: 11151559

Overview

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



GEN*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 Mbits/sec, Fast Ethernet, Transfer Rate 100 Mbits/sec, 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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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 217 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

