

V CXG-02M

Gigabit Ethernet, 0,3 Megapixel, Monochrome

Article number: 11165842

Overview

- 640 x 480 px
- Onsemi PYTHON300
- 1/4" CMOS
- 403 fps
- Gigabit Ethernet



Technical data

Sensor information

Sensor	onsemi PYTHON300
Mono/Color	Mono
Sensor type	1/4" CMOS
Shutter type	Global shutter
Resolution	640 × 480 px
Pixel size	4.8 × 4.8 μm
Exposure time	0.02 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	10.3 e-
Saturation capacity	7876 e-
Dynamic range	57 dB
Signal-to-noise ratio	39 dB
Quantum efficiency	56.3 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 640 × 480 px, max. 403 fps Binning 2×2, 320 × 240 px, max. 595 fps Binning 2×1, 320 × 480 px, max. 595 fps Binning 1×2, 640 × 240 px, max. 595 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 640 × 480 px, max. 573 fps
Pixel formats	Mono8 Mono10

Image preprocessing

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

Camera features

Basic Functions	Exposure Gain Trigger / Exposure Active (Flash) Binning 2x2 Partial Scan Offset Free Running Mode (Live Image)
Auto Functions	Exposure Auto Gain Auto
Image Pre-processing	Image Flipping (X/Y) LUT / Gamma
Acquisition / Interface	Burst Mode Adjustable Framerate Device Link Throughput Limit Internal Image Buffer
Synchronization	free running trigger
Trigger sources	Hardware Software ActionCommand
Trigger delay	0 ... 2 sec, tracking and buffering of up to 256 trigger signals

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Camera features

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
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Additional Functions	User Set Integrated temperature sensor Readable additional information (e.g. sensor information) Save Custom Data
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Internal image buffer	15 MB 16 images (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 / 8 pins (SACC-DSI-M8MS-8CON-M8-L180)
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Power supply	via M8 / 8 pins or Power over Ethernet (PoE)
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Mechanical data

Lens mount	C-mount
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Mechanical data

Width	29 mm
Height	29 mm
Depth	49 mm
Weight	≤ 120 g
Material	zinc die casting, baked varnish (until 02-2020 nickel-chrome-plated), IP 40

Electrical data

Voltage supply range +Vs	12 ... 24 V DC (external power supply) 36 ... 57 V DC (Power over Ethernet)
Power consumption	approx. 2,4 W @ 12 VDC and 403 fps approx. 2,9 W @ 48 VDC (PoE) and 403 fps

Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	0 ... +65 ° @ T = measurement point
Humidity	10 ... 90 % (non-condensing)
Protection class	IP 40

Digital I/Os

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

Conformity	CE RoHS KC (MISP-REI-BKR-VCXG-13M) EAC
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Dimension drawing

