

VEXG-100M.R

Gigabit Ethernet, 10,6 Megapixel, Monochrome

Article number: 11185979

Overview

- 3856 × 2764 px
- onsemi MT9J003
- 1/2.3" CMOS
- 7 fps
- Gigabit Ethernet



Picture similar



GEN<i>i>CAM



Technical data

Sensor information

Sensor	onsemi MT9J003
Mono/Color	Mono
Sensor type	1/2.3" CMOS
Shutter type	Rolling shutter Global reset shutter
Resolution	3856 × 2764 px
Pixel size	1.67 × 1.67 μm
Exposure time	0.048 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	4.66 e-
Saturation capacity	4715 e-
Dynamic range	59.1 dB
Signal-to-noise ratio	36.7 dB
Quantum efficiency	43.8 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 3856 × 2764 px, max. 7 fps Binning 2×2, 1928 × 1382 px, max. 7 fps Binning 2×1, 1928 × 2764 px, max. 7 fps Binning 1×2, 3856 × 1382 px, max. 7 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 3856 × 2764 px, max. 7 fps
Pixel formats	Mono8 Mono12 Mono12 Packed

Image preprocessing

Analog controls	Gain (0 ... 12 dB) Offset (0 ... 255 LSB 12 Bit)
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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)
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Auto Functions	White Balance Auto
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Image Pre-processing	Color Enhancement (with optimized ColorTransformationMatrix)
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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	31 MB 1 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 / 4 pins (SACC-DSI-M 8MS-4CON-L180)
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)
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Electrical data

Power consumption	Approx. 2.2 W @ 12 VDC and 7 fps
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Non-volatile memory

Flash memory size	128 kB
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Environmental conditions

Operating temperature	+5 ... +60 °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
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Dimension drawing

