

VEXG-52M.R

Gigabit Ethernet, 5 Megapixel, Monochrome

Article number: 11185978

Overview

- 2592 × 1944 px
- onsemi MT9P031
- 1/2.5" CMOS
- 14 fps
- Gigabit Ethernet



Picture similar



GEN<I>CAM



Technical data

Sensor information

Sensor	onsemi MT9P031
Mono/Color	Mono
Sensor type	1/2.5" CMOS
Shutter type	Rolling shutter Global reset shutter
Resolution	2592 × 1944 px
Pixel size	2.2 × 2.2 µm
Exposure time	0.02 ... 1000 ms

Data quality (EMVA 1288 typical)

Dark noise	4.13 e-
Saturation capacity	5229 e-
Dynamic range	61 dB
Signal-to-noise ratio	37.2 dB
Quantum efficiency	55.4 % @ 536 nm

Acquisition formats

Image formats, interface frame rate max.	Full Frame, 2592 × 1944 px, max. 14 fps Binning 2×2, 1296 × 972 px, max. 14 fps Binning 2×1, 1296 × 1944 px, max. 14 fps Binning 1×2, 2592 × 972 px, max. 14 fps
Image formats, acquisition frame rate max. (Burst Mode)	Full Frame, 2592 × 1944 px, max. 14 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)
Auto Functions	White Balance Auto
Image Pre-processing	Color Enhancement (with optimized ColorTransformationMatrix)
Synchronization	free running trigger
Trigger sources	Hardware Software
Process Synchronization	Debouncer
Additional Functions	User Set
Internal image buffer	15 MB 1 image (Trigger Mode) 1 image (Free Running Mode)

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
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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)
Power consumption	Approx. 2.0 W @ 12 VDC and 14 fps

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 BIS-CRS (R-41207004)
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Dimension drawing

