

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



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

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)
Color models	Mono

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	31 MB 1 images (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
Process interface	M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180)
Power supply	via M8 / 4 pins

Mechanical data

Lens mount	CS-mount
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Mechanical data

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 7 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
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Dimension drawing

