

# VEXG-100C.R

Gigabit Ethernet, 10,6 Megapixel, Color

Article number: 11185990

## 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	Color
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	4.57 e-
Saturation capacity	5049 e-
Dynamic range	59.9 dB
Signal-to-noise ratio	37 dB
Quantum efficiency	39.3 % @ 465 nm 31.1 % @ 536 nm 20.6 % @ 631 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	BayerRG8 BayerRG12 BayerRG12 Packed

### Image preprocessing

Analog controls	Gain (0 ... 12 dB) Offset (0 ... 255 LSB 12 Bit)
-----------------	---

Color models	Raw Bayer
--------------	-----------

### 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, Fast Ethernet, Transfer Rate 100 Mb/s, Connector: 8P8C Modular Jack (RJ45), screwable type
----------------	---

# VEXG-100C.R

Gigabit Ethernet, 10,6 Megapixel, Color

Article number: 11185990

## Technical data

### Interfaces and connectors

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)
--------------------------	--

### Electrical data

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

### Non-volatile memory

Flash memory size	128 kB
-------------------	--------

### 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
-------	-------------------------------

### Conformity

Conformity	CE
------------	----

## Dimension drawing

