

## VEXG-52C.R

Gigabit Ethernet, 5,0 Megapixel, Color

Article number: 11185977

### Overview

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



GEN*i*CAM



### Technical data

#### Sensor information

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

#### Acquisition formats

|                                                         |                                                                                                                                                                           |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image formats, interface frame rate max.                | Full Frame, 2592 × 1944 px, max. 14 fps<br>Binning 2×2, 1296 × 972 px, max. 14 fps<br>Binning 2×1, 1296 × 1944 px, max. 14 fps<br>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                                           | BayerRG8<br>BayerRG12<br>BayerRG12 Packed                                                                                                                                 |

#### Image preprocessing

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Analog controls | Gain (0 ... 12 dB)<br>Offset (0 ... 255 LSB 12 Bit) |
| Color models    | Raw Bayer                                           |

#### Camera features

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Basic Functions         | Exposure<br>Gain / Color Gain<br>Trigger / Exposure Active (Flash)<br>Binning 2x2<br>Partial Scan<br>Offset<br>Free Running Mode (Live Image) |
| Auto Functions          | White Balance Auto                                                                                                                            |
| Image Pre-processing    | Color Enhancement (with optimized ColorTransformationMatrix)                                                                                  |
| Synchronization         | free running<br>trigger                                                                                                                       |
| Trigger sources         | Hardware<br>Software                                                                                                                          |
| Process Synchronization | Debouncer                                                                                                                                     |
| Additional Functions    | User Set                                                                                                                                      |
| Internal image buffer   | 15 MB<br>1 image (Trigger Mode)<br>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. 2,0 W @ 12 VDC and 14 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<br>1 output line |
|-------|-------------------------------|

#### Conformity

|            |                            |
|------------|----------------------------|
| Conformity | CE<br>BIS-CRS (R-41207004) |
|------------|----------------------------|

### Dimension drawing

