

## VEXG-25M

Gigabit Ethernet, 2,3 Megapixel, Monochrome

Article number: 11166637

### Overview

- 1920 × 1200 px
- onsemi PYTHON2000
- 2/3" CMOS
- 41 fps
- Gigabit Ethernet



Picture similar



GEN*i*CAM



### Technical data

#### Sensor information

|               |                   |
|---------------|-------------------|
| Sensor        | onsemi PYTHON2000 |
| Mono/Color    | Mono              |
| Sensor type   | 2/3" CMOS         |
| Shutter type  | Global shutter    |
| Resolution    | 1920 × 1200 px    |
| Pixel size    | 4.8 × 4.8 μm      |
| Exposure time | 0.04 ... 1000 ms  |

#### Data quality (EMVA 1288 typical)

|                       |                 |
|-----------------------|-----------------|
| Dark noise            | 10.45 e-        |
| Saturation capacity   | 8929 e-         |
| Dynamic range         | 58 dB           |
| Signal-to-noise ratio | 39.5 dB         |
| Quantum efficiency    | 59.6 % @ 536 nm |

#### Acquisition formats

|                                                         |                                                                                                                                                                         |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image formats, interface frame rate max.                | Full Frame, 1920 × 1200 px, max. 41 fps<br>Binning 2×2, 960 × 600 px, max. 41 fps<br>Binning 2×1, 960 × 1200 px, max. 41 fps<br>Binning 1×2, 1920 × 600 px, max. 41 fps |
| Image formats, acquisition frame rate max. (Burst Mode) | Full Frame, 1920 × 1200 px, max. 41 fps                                                                                                                                 |
| Pixel formats                                           | Mono8<br>Mono10                                                                                                                                                         |

#### Image preprocessing

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Analog controls | Gain (0 ... 12 dB)<br>Offset (0 ... 63 LSB 10 Bit) |
|-----------------|----------------------------------------------------|

#### Image preprocessing

|              |      |
|--------------|------|
| Color models | Mono |
|--------------|------|

#### 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) |
| Acquisition / Interface | Adjustable Framerate                                                                                                                          |
| Synchronization         | free running<br>trigger                                                                                                                       |
| Trigger sources         | Hardware<br>Software                                                                                                                          |
| Process Synchronization | Debouncer                                                                                                                                     |

|                       |                                                               |
|-----------------------|---------------------------------------------------------------|
| Additional Functions  | User Set                                                      |
| Internal image buffer | 7 MB<br>1 image (Trigger Mode)<br>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 |
| Process interface | M8 / 4 pins (SACC-DSI-M 8MS-4CON-L180)                                                                                                |
| Power supply      | via M8 / 4 pins                                                                                                                       |

## VEXG-25M

Gigabit Ethernet, 2,3 Megapixel, Monochrome

Article number: 11166637

### Technical data

#### 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. 2.8 W @ 12 VDC and 41 fps      |

#### Non-volatile memory

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

#### Environmental conditions

|                       |                                       |
|-----------------------|---------------------------------------|
| Operating temperature | +5 ... +65 °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>RoHS<br>EAC |
|------------|-------------------|

### Dimension drawing

