

# FXO 25GigE

fxo535M25GE



## General

|                 |             |
|-----------------|-------------|
| Model:          | fxo535M25GE |
| Product code:   | F002310     |
| Product series: | FXO 25GigE  |
| Status:         | Available   |

## Sensor

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| Sensor type:                    | Area scan                                     |
| Chroma:                         | Mono                                          |
| Spectrum:                       | Visible                                       |
| Spectral range:                 | 400 nm to 1000 nm                             |
| Resolution:                     | 4,096 × 3,008 (12.30 MP)                      |
| Sensor model:                   | Sony IMX535                                   |
| Sensor architecture (material): | cmos                                          |
| Shutter type(s):                | global-shutter                                |
| Sensor size:                    | 11.22 × 8.24 mm (13.92 mm, 14mm (Type 1/1.1)) |
| Pixel size:                     | 2.74 µm × 2.74 µm                             |

## Pixel formats

|                           |               |
|---------------------------|---------------|
| Sensor bit depth:         | 8-Bit, 12-Bit |
| Monochrome pixel formats: | mono8, mono12 |

## Imaging performance

|                |       |
|----------------|-------|
| Dynamic range: | 72 dB |
| SNR:           | 39 dB |

## Timing and gain

|                  |                   |
|------------------|-------------------|
| Max. frame rate: | 182.5 fps         |
| Exposure time:   | 4 $\mu$ s to 60 s |
| Gain:            | 0.0 dB to 48.0 dB |

## I/Os and power

|                              |                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------|
| Non-isolated lines:          | 0 x LVDS input, 0 x LVDS output, 0 x TTL input, 0 x TTL output, 2 x 24V input, 4 x Open drain output, |
| Specific non-isolated lines: | 1 x RS232 input, 1 x RS232 output, 0 x RS422 input, 0 x RS422 output,                                 |
| Opto-isolated lines:         | 1 x Optical isolated input, 0 x Optical isolated input,                                               |
| Power supply:                | 10 to 25VDC                                                                                           |
| Power consumption:           | External: 18 W (typical)                                                                              |

## Operating conditions

|                                  |                 |
|----------------------------------|-----------------|
| Operating temperature (housing): | -10 °C to 60 °C |
|----------------------------------|-----------------|

## Mechanical properties

|                                    |                             |
|------------------------------------|-----------------------------|
| Body dimensions (L x W x H in mm): | 100 × 50 × 50               |
| Filter/protection glass:           | K9 - AR coating - 400-850nm |
| IP class:                          | IP30                        |
| Lens mount(s):                     | C-Mount                     |
| Weight:                            | 320 g                       |

## On-board memory and FPGA

|                              |            |
|------------------------------|------------|
| Image buffer (RAM):          | 4032 MByte |
| Non-volatile memory (Flash): | 128 MByte  |

## Interfaces

|                      |         |
|----------------------|---------|
| Digital interface:   | 25gige  |
| Interface connector: | (SFP28) |

## FW features - image control

|                 |                        |
|-----------------|------------------------|
| Exposure modes: | Manual, Auto, External |
| Gain modes:     | Auto, Manual           |

## FW features - image control

Image control features:

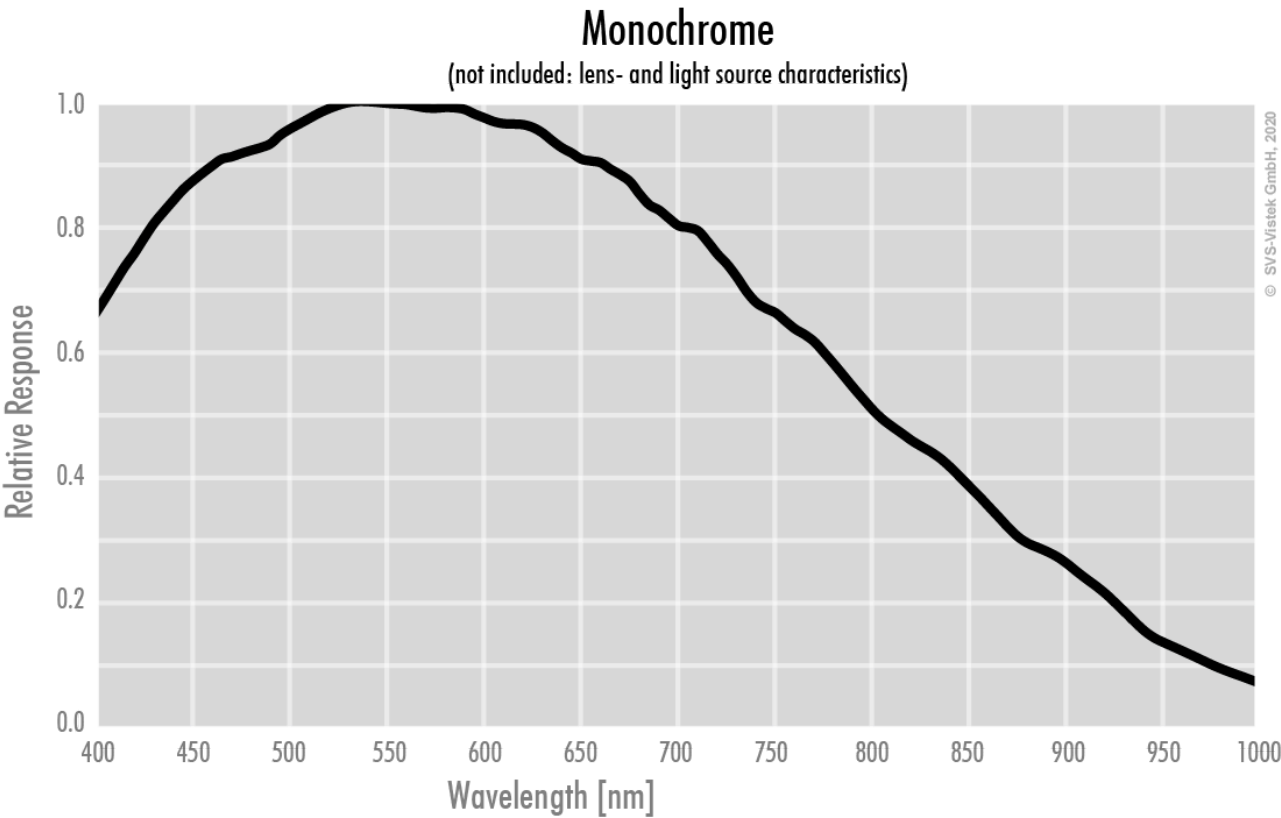
FW Features - Image Control

## FW features - camera control

Camera control features:

PTP, RDMA support, User Sets, PWM(4), Sequencer,

Quantum Efficiency



I/O pin assignment



|   |                         |    |                    |
|---|-------------------------|----|--------------------|
| 1 | VIN - (GND)             | 7  | OUT 1 (open drain) |
| 2 | VIN + (10 V to 25 V DC) | 8  | OUT 2 (open drain) |
| 3 | IN 4 (RXD RS232)        | 9  | IN 3 + (opto In +) |
| 4 | OUT 4 (TXD RS232)       | 10 | IN 3 - (opto In -) |
| 5 | IN 1 (0-24V)            | 11 | OUT 3 (open drain) |
| 6 | IN 2 (0-24V)            | 12 | OUT 0 (open drain) |