

# FXO 25GigE

fxo531C25GE



## General

|                 |             |
|-----------------|-------------|
| Model:          | fxo531C25GE |
| Product code:   | F002307     |
| Product series: | FXO 25GigE  |
| Status:         | Available   |

## Sensor

|                                 |                                                |
|---------------------------------|------------------------------------------------|
| Sensor type:                    | Area scan                                      |
| Chroma:                         | Color                                          |
| Spectrum:                       | Visible                                        |
| Spectral range:                 | 400 nm to 1000 nm                              |
| Resolution:                     | 4,512 × 4,512 (20.40 MP)                       |
| Sensor model:                   | Sony IMX531AAQJ                                |
| Sensor architecture (material): | cmos                                           |
| Shutter type(s):                | global-shutter                                 |
| Sensor size:                    | 12.36 × 12.36 mm (17.48 mm, 17.5mm (Type 1.1)) |
| Pixel size:                     | 2.74 µm × 2.74 µm                              |

## Pixel formats

|                    |                 |
|--------------------|-----------------|
| Sensor bit depth:  | 8-Bit, 12-Bit   |
| RGB pixel formats: | bayer8, bayer12 |

## Imaging performance

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

## Timing and gain

|                  |                   |
|------------------|-------------------|
| Max. frame rate: | 109.5 fps         |
| Exposure time:   | 60 $\mu$ s (max)  |
| 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: 19 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:           | IR-Cut 680    |
| 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           |

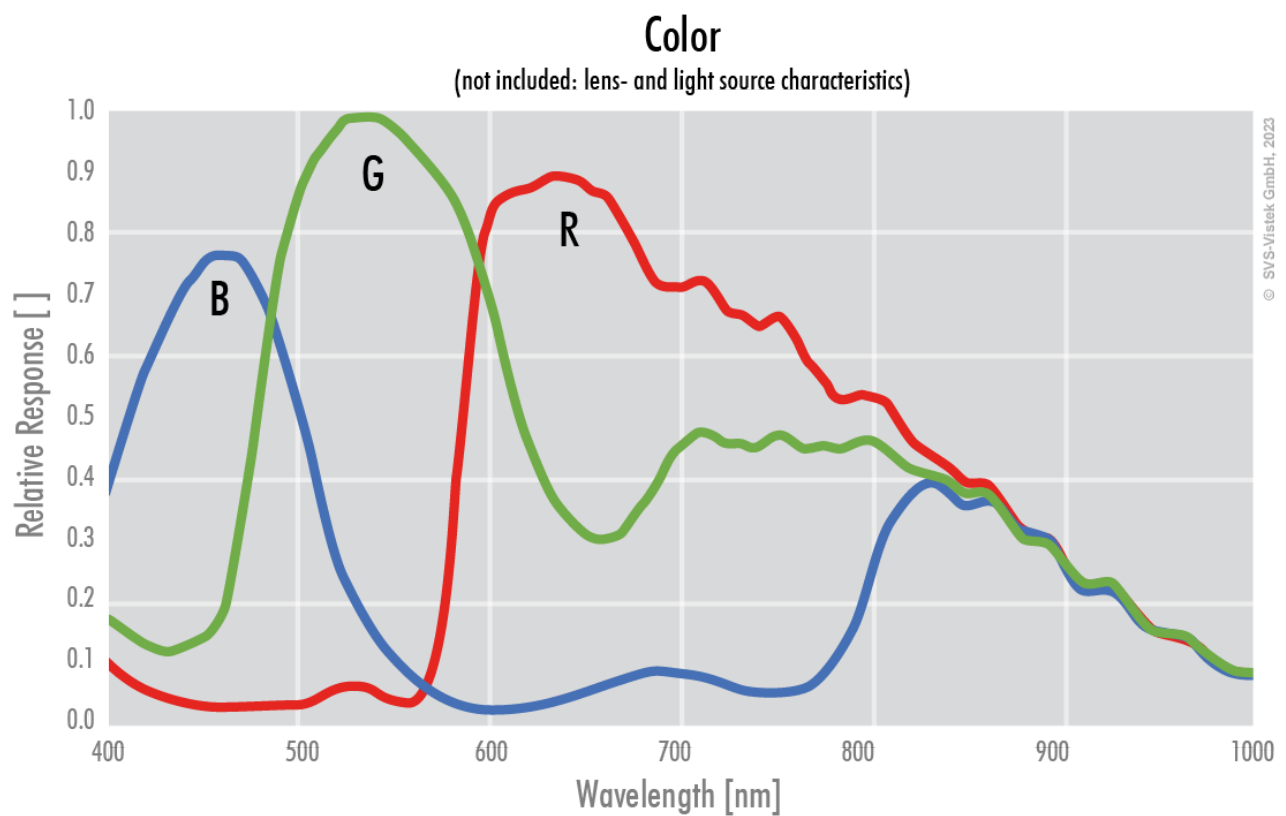
## FW features - image control

White balance modes: auto, manual

Image control features: FW Features - Image Control

## FW features - camera control

Camera control features: PTP, RDMA support, User Sets, PWM(4), Sequencer,



## 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) |