



## FXO 25GigE

fxo530C25GE

### General

|                |             |
|----------------|-------------|
| Model          | fxo530C25GE |
| Product code   | F002305     |
| Product series | FXO 25GigE  |
| Status         | Available   |

### Sensor

|                                |                                     |
|--------------------------------|-------------------------------------|
| Sensor type                    | Area scan                           |
| Chroma                         | Color                               |
| Spectrum                       | Visible                             |
| Spectral range                 | 400 nm to 1000 nm                   |
| Resolution                     | 5,328 × 4,608 (24.60 MP)            |
| Sensor model                   | Sony IMX530                         |
| Sensor architecture (material) | cmos                                |
| Shutter type(s)                | Global shutter (GS)                 |
| Sensor size                    | 14.6 × 12.63 mm (19.3 mm, Type 1.2) |
| 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 | 96 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,                                               |
| I/O connector               | 12-pin Hirose HR10A-10P-12S                                                                           |
| Power supply                | 10 to 25VDC                                                                                           |
| Power consumption           | External: 17.5 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 - 680nm |
| 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)              |
| Vision standard     | GigE Vision 2.0, 3.0 |

## FW features - image control

|                |                        |
|----------------|------------------------|
| Exposure modes | manual, auto, external |
|----------------|------------------------|

## FW features - image control

|            |              |
|------------|--------------|
| Gain modes | auto, manual |
|------------|--------------|

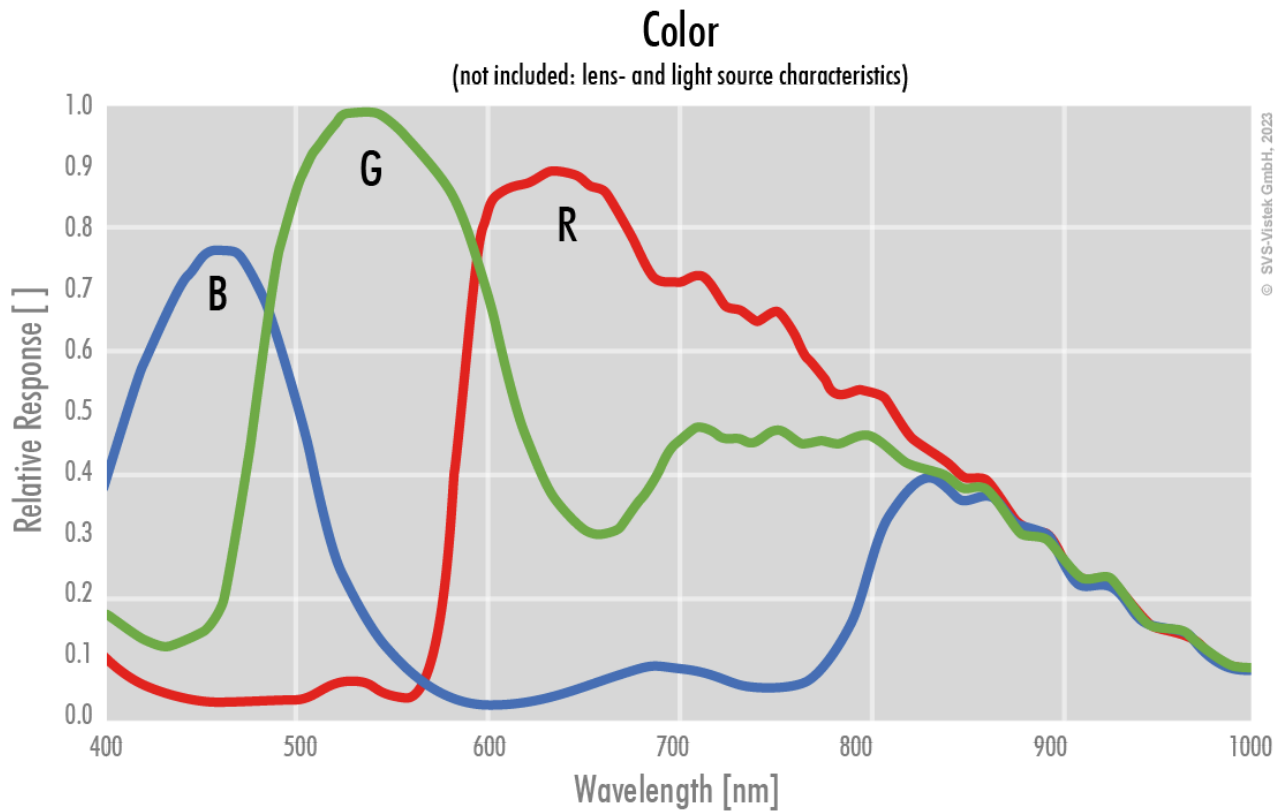
|                     |              |
|---------------------|--------------|
| White balance modes | auto, manual |
|---------------------|--------------|

|                        |                                              |
|------------------------|----------------------------------------------|
| Image control features | roi, lut, color-transformation, mirror-image |
|------------------------|----------------------------------------------|

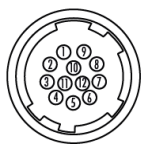
## FW features - camera control

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

## Quantum Efficiency



## I/O pin assignment

|                                                                                                          |   |       |                   |    |        |              |
|----------------------------------------------------------------------------------------------------------|---|-------|-------------------|----|--------|--------------|
| <p>Hirose 12 Pin</p>  | 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) |