Allied Vision

# FXO 25GigE

## fxo425C25GE

## General

| | |
|---|---|
| Model | fxo425C25GE |
| Product code | F002297 |
| Product series | FXO 25GigE |
| Status | Available |

## Sensor

| | |
|---|---|
| Sensor type | Area scan |
| Chroma | Color |
| Spectrum | Visible |
| Spectral range | 400 nm to 1000 nm |
| Resolution | 1,600 × 1,104 (1.80 MP) |
| Sensor model | Sony IMX425 |
| Sensor architecture (material) | cmos |
| Shutter type(s) | Global shutter (GS) |
| Sensor size | 14.4 × 9.94 mm (17.5 mm, Type 1.1) |
| Pixel size | 9.00 µm × 9.00 µm |

## Pixel formats

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

## Timing and gain

| | |
|---|---|
| Max. frame rate | 671 fps |
| Exposure time | 6 µs 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 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 |

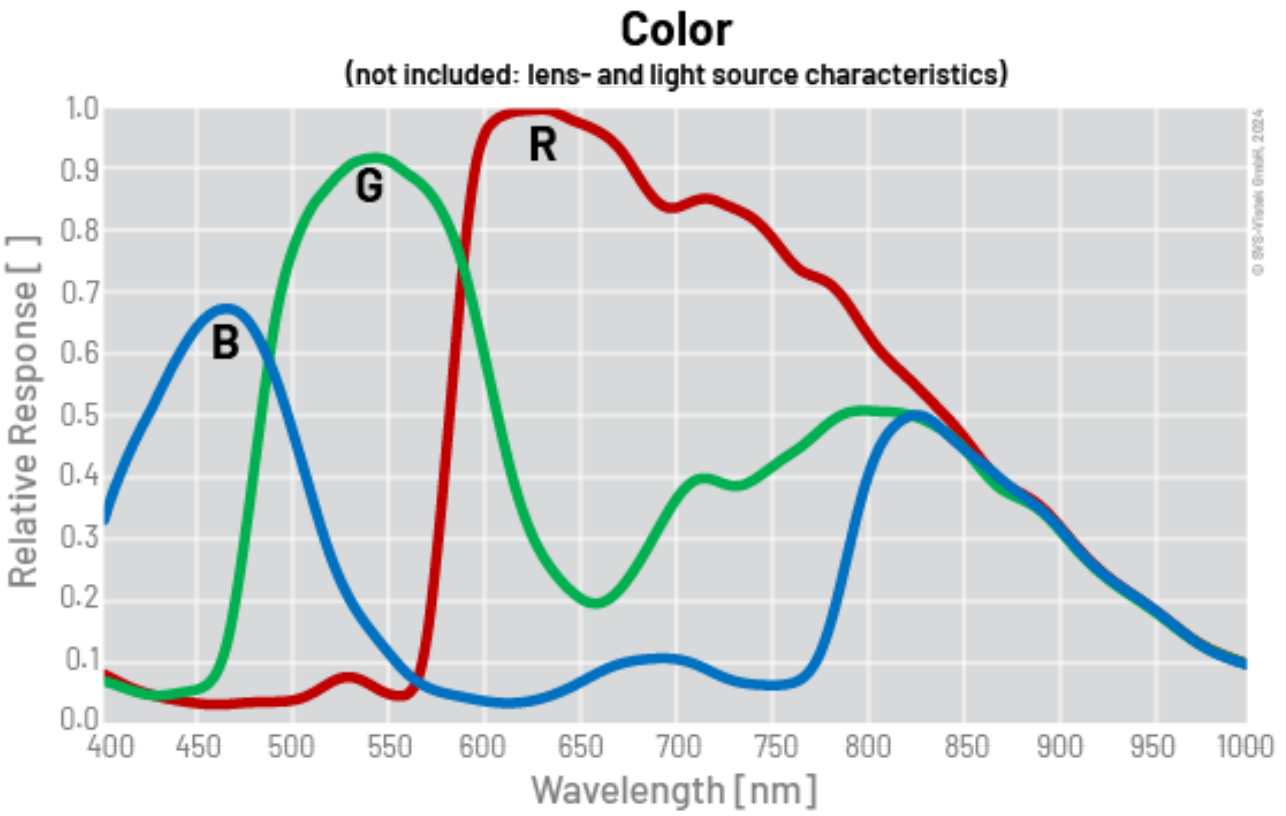
## FW features - image control

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

Hirose 12 Pin

| | | | | | |
|---|---|---|---|---|---|
| 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) |