Allied Vision



# FXO 25GigE

fxo530M25GE-RF

Preliminary product information. Features and technical specifications are subject to change without notice.

## General

| | |
|---|---|
| Model | fxo530M25GE-RF |
| Product code | F002477 |
| Product series | FXO 25GigE |
| Status | Prototype/engineering sample |

## Sensor

| | |
|---|---|
| Sensor type | Area scan |
| Chroma | Mono |
| 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 |
| Monochrome pixel formats | mono8, mono12 |

## Imaging performance

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

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## Timing and gain

| | |
|---|---|
| Max. frame rate | 96 fps |
| Exposure time | 4 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: 17.5 W (typical) |

## Operating conditions

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

## Mechanical properties

| | |
|---|---|
| Body dimensions (L x W x H in mm) | 98 × 69 × 69 |
| Filter/protection glass | K9 - AR coating - 400-850nm |
| IP class | IP30 |
| Lens mount(s) | RF-Mount |
| Weight | 350 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 |

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## FW features - image control

| | |
|---|---|
| Gain modes | auto, manual |
| Image control features | roi, lut, mirror-image, dpc, shading-correction, ffc |

## FW features - camera control

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

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