

FXO 10GigE

fxo540MXGE



General

| | |
|-----------------|------------|
| Model: | fxo540MXGE |
| Product code: | F002090 |
| Product series: | FXO 10GigE |
| Status: | Available |

Sensor

| | |
|---------------------------------|---|
| Sensor type: | Area scan |
| Chroma: | Mono |
| Spectrum: | Visible |
| Spectral range: | 400 nm to 1000 nm |
| Resolution: | 5,320 × 4,600 (24.50 MP) |
| Sensor model: | Sony IMX540 |
| Sensor architecture (material): | cmos |
| Shutter type(s): | global-shutter |
| Sensor size: | 14.58 × 12.6 mm (19.27 mm, 19.3mm (Type 1.2)) |
| Pixel size: | 2.74 μm × 2.74 μm |

Pixel formats

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

Imaging performance

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|----------------|----------|
| Dynamic range: | 72 dB |
| SNR: | 39.11 dB |

Timing and gain

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|------------------|-------------------|
| Max. frame rate: | 30.4 fps |
| Exposure time: | 9 μ s to 60 s |
| Gain: | 0.0 dB to 48.0 dB |

I/Os and power

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|------------------------------|---|
| 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 over Ethernet |
| Power consumption: | External: 9 W (typical) |

Operating conditions

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

Mechanical properties

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|------------------------------------|-----------------------------|
| Body dimensions (L x W x H in mm): | 76 × 50 × 50 |
| Filter/protection glass: | K9 - AR coating - 400-850nm |
| IP class: | IP30 |
| Lens mount(s): | C-Mount |
| Weight: | 240 g |

On-board memory and FPGA

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|------------------------------|-----------|
| Image buffer (RAM): | 896 MByte |
| Non-volatile memory (Flash): | 32 MByte |

Interfaces

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|----------------------|---------|
| Digital interface: | 10gige |
| Interface connector: | (RJ-45) |

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

Trigger modes/sync:

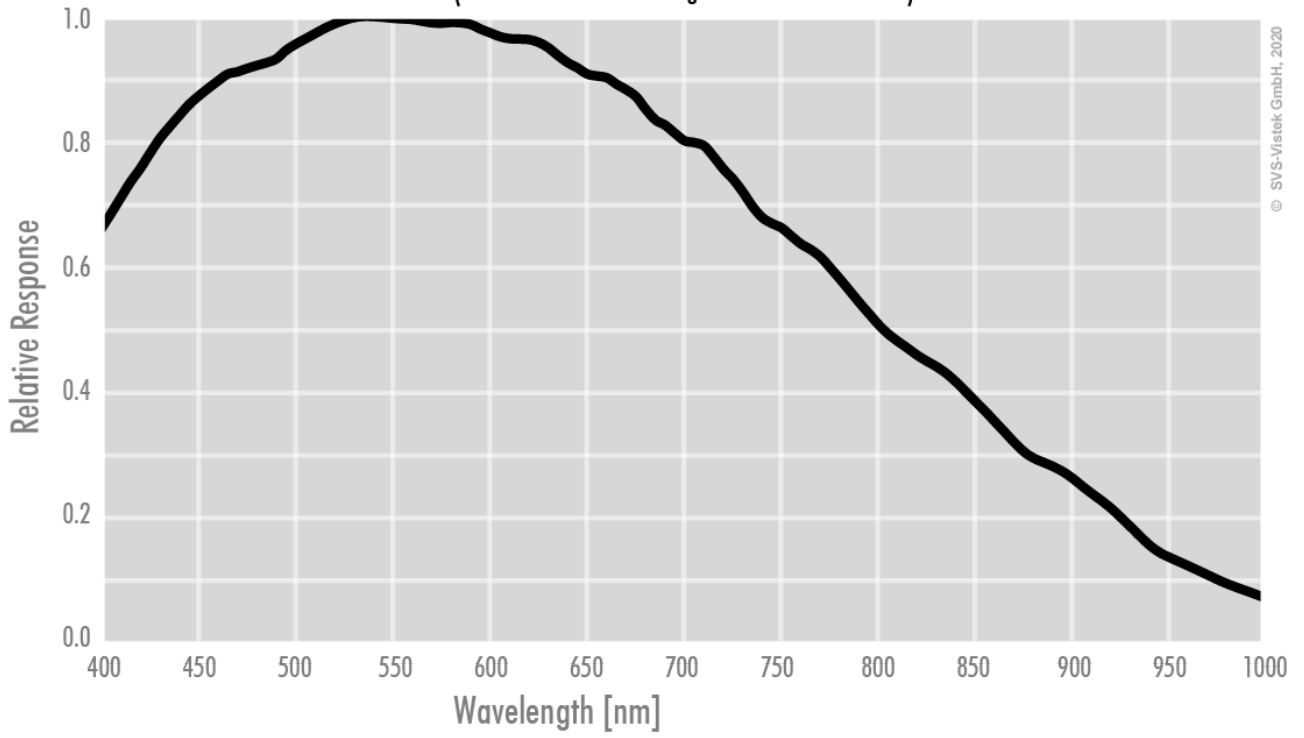
INTERNAL,SOFTWARE,EXTERNAL

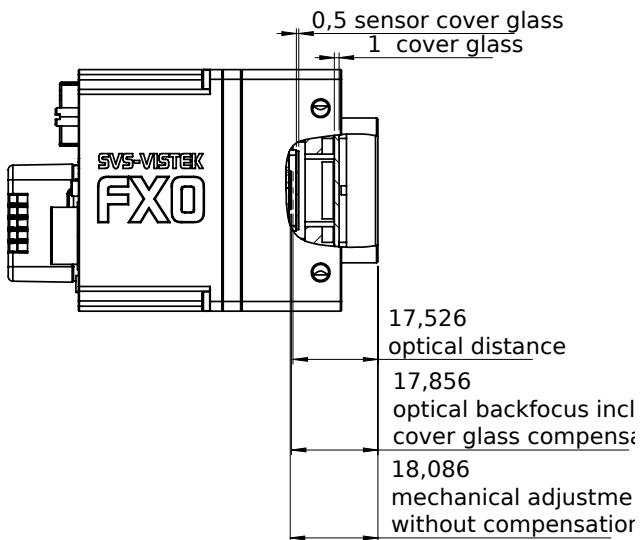
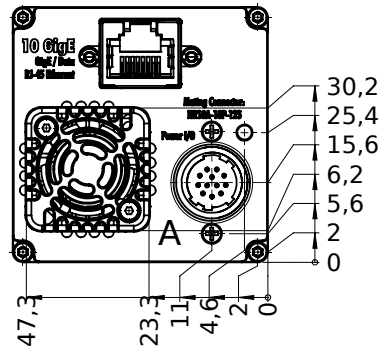
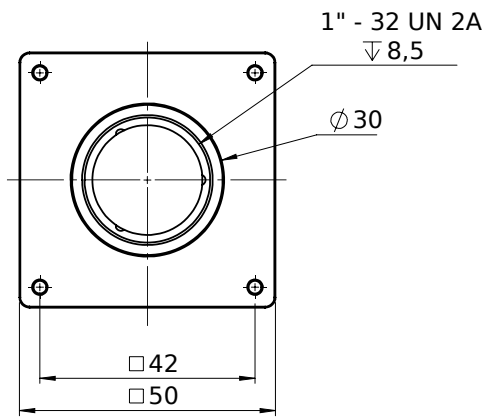
Camera control features:

PTP, User Sets, POE, PWM(4), Sequencer,

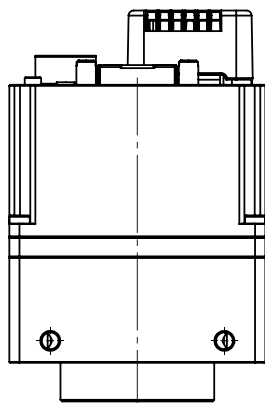
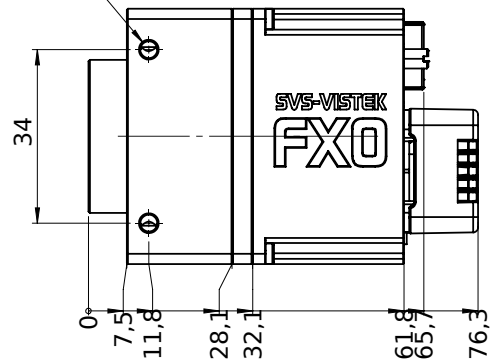
Monochrome

(not included: lens- and light source characteristics)

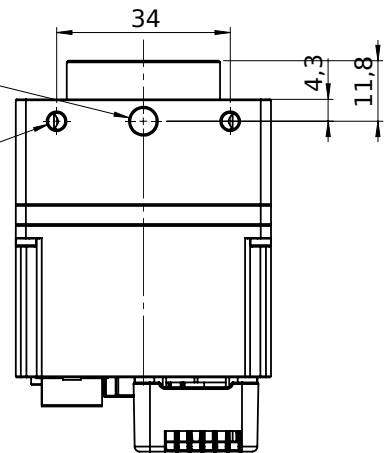


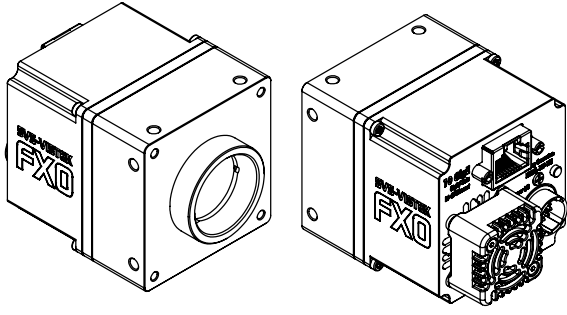


M4 - 6H ∇ 5
 same from left



1/4 - 20 UNC
 ∇ 5,0
 M4 - 6H ∇ 5
 same from top





I/O pin assignment

Hirose 12 Pin



| | | | |
|---|-------------------------|----|--------------------|
| 1 | VIN - (GND) | 7 | OUT1 (open drain) |
| 2 | VIN + (10 V to 25 V DC) | 8 | OUT2 (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) |