

FXO CoaXPress

fxo546CCX



General

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|-----------------|---------------|
| Model: | fxo546CCX |
| Product code: | F002155 |
| Product series: | FXO CoaXPress |
| Status: | Available |

Sensor

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|---------------------------------|--|
| Sensor type: | Area scan |
| Chroma: | Color |
| Spectrum: | Visible |
| Spectral range: | 400 nm to 1000 nm |
| Resolution: | 2,832 × 2,840 (8.00 MP) |
| Sensor model: | Sony IMX546LQA |
| Sensor architecture (material): | cmos |
| Shutter type(s): | global-shutter |
| Sensor size: | 7.76 × 7.78 mm (10.99 mm, 11.1mm (Type 2/3)) |
| Pixel size: | 2.74 μm × 2.74 μm |

Pixel formats

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

Timing and gain

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|------------------|-------------------|
| Max. frame rate: | 88 |
| Exposure time: | 7 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 CoaXPress |
| Power consumption: | External: 8 W (typical) |

Operating conditions

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|----------------------------------|-----------------|
| Operating temperature (housing): | -10 °C to 65 °C |
|----------------------------------|-----------------|

Mechanical properties

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|------------------------------------|--------------|
| Body dimensions (L x W x H in mm): | 70 x 50 x 50 |
| Filter/protection glass: | IR-Cut 680 |
| IP class: | IP30 |
| Lens mount(s): | C-Mount |
| Weight: | 240 g |

On-board memory and FPGA

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|------------------------------|----------|
| Non-volatile memory (Flash): | 32 MByte |
|------------------------------|----------|

Interfaces

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|----------------------|--------------------------|
| Digital interface: | cxp-12 with 1 connection |
| Interface connector: | (micro-BNC) |

FW features - image control

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|-------------------------|-----------------------------|
| Exposure modes: | Manual, Auto, External |
| Gain modes: | Auto, Manual |
| White balance modes: | auto, manual |
| Image control features: | FW Features - Image Control |

FW features - camera control

| | |
|---------------------|----------------------------|
| Trigger modes/sync: | INTERNAL,SOFTWARE,EXTERNAL |
|---------------------|----------------------------|

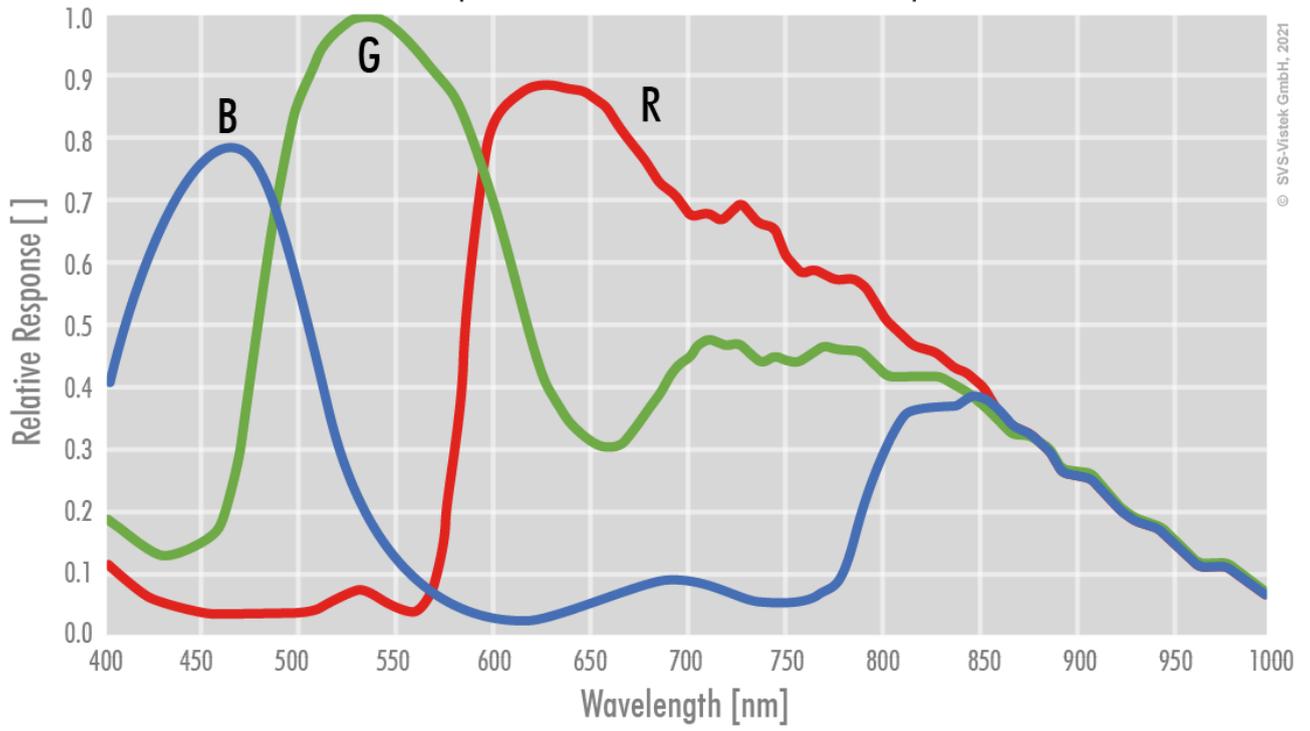
FW features - camera control

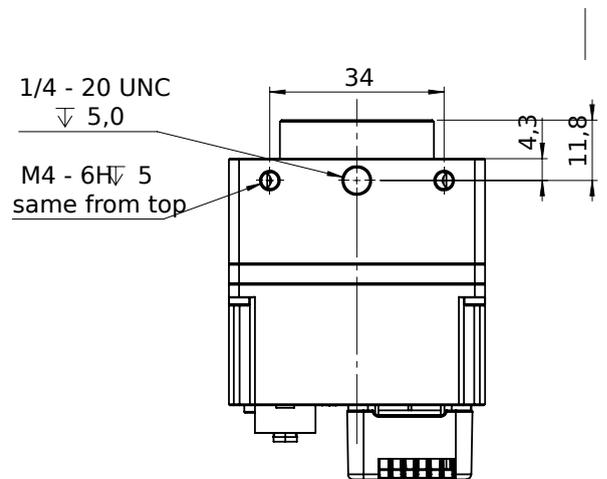
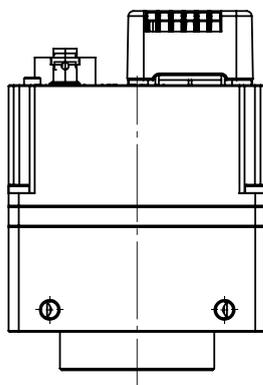
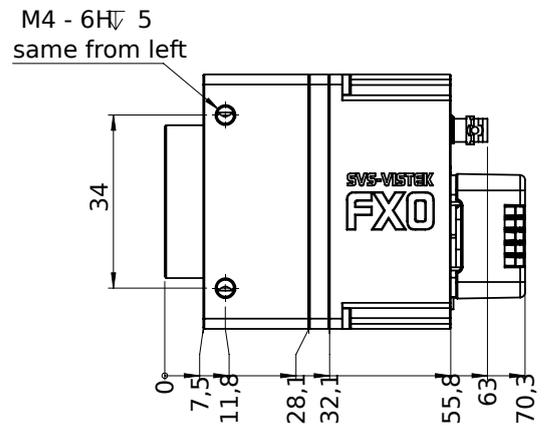
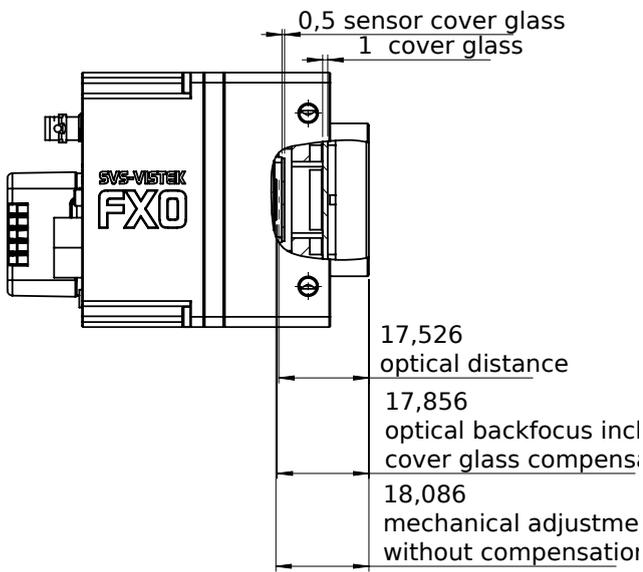
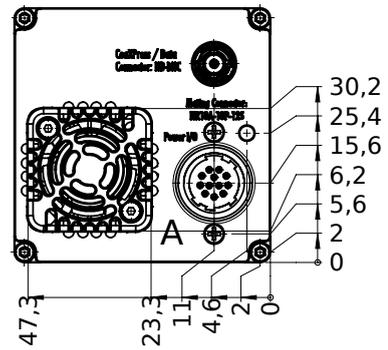
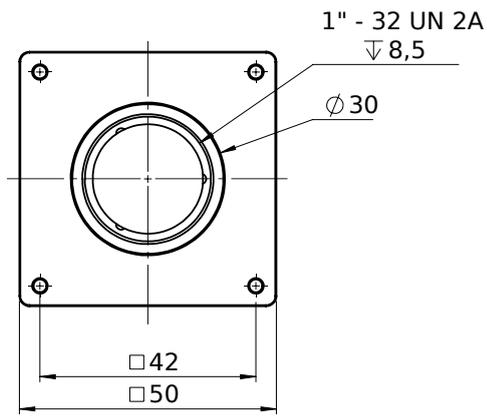
Camera control features:

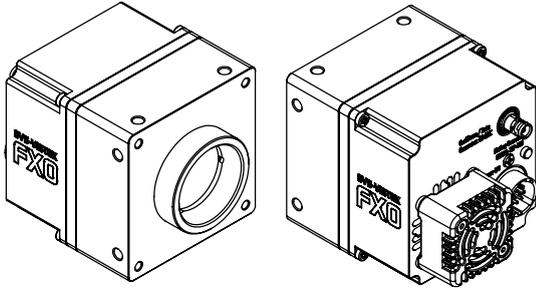
PoCxP, User Sets, PWM(4), Sequencer,

Color

(not included: lens- and light source characteristics)







I/O pin assignment

Hirose 12 Pin



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|---|-----------------------|----|-------------------|
| 1 | VIN - (GND) | 7 | OUT1 (open drain) |
| 2 | VIN + (10V to 25V DC) | 8 | OUT2 (open drain) |
| 3 | IN4 (RXD RS232) | 9 | IN3 + (opto In +) |
| 4 | OUT4 (TXD RS232) | 10 | IN3 - (opto In -) |
| 5 | IN1 (0-24V) | 11 | OUT3 (open drain) |
| 6 | IN2 (0-24V) | 12 | OUT0 (open drain) |