

HR CoaXPress

hr49CCX12



General

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|------------------|--------------|
| Model: | hr49CCX12 |
| Product code(s): | F004184 |
| Product series: | HR CoaXPress |
| Status: | Available |

Sensor

| | |
|---------------------------------|--|
| Sensor type: | Area scan |
| Chroma: | Color |
| Spectrum: | Visible |
| Spectral range: | 400 nm to 1000 nm |
| Resolution: | 7,008 × 7,000 (49.00 MP) |
| Sensor model: | Gpixel GMAX3265-49 |
| Sensor architecture (material): | cmos |
| Shutter type(s): | global-shutter |
| Sensor size: | 22.43 × 22.40 mm (31.70 mm, 37.4mm (2.3")) |
| Pixel size: | 3.20 μm × 3.20 μm |

Pixel formats

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|--------------------|-----------------|
| Sensor bit depth: | 8-Bit,10-Bit |
| RGB pixel formats: | bayer8, bayer10 |

Timing and gain

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|------------------|-------------------|
| Max. frame rate: | 71 fps |
| Exposure time: | 60 µs (max) |
| Gain: | 0.0 dB to 18.0 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, |
| Power supply: | 10 to 25VDC |
| Power consumption: | External: 18 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 × 70 × 70 |
| IP class: | IP30 |
| Lens mount(s): | M58x0.75 |
| Weight: | 420 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 4 connections |
| Interface connector: | (micro-BNC) |

FW features - image control

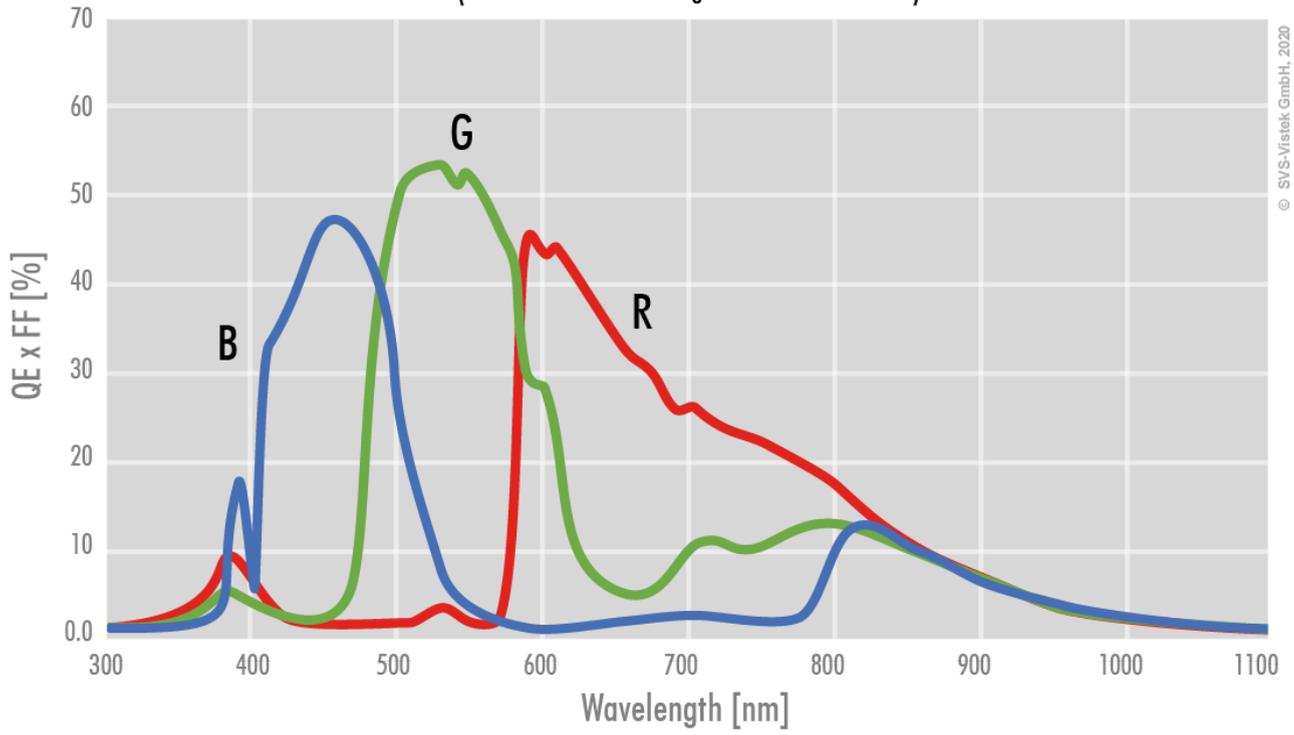
| | |
|-------------------------|-----------------------------|
| Exposure modes: | Manual, Auto, External |
| Gain modes: | Auto, Manual |
| White balance modes: | auto, manual |
| Image control features: | FW Features - Image Control |

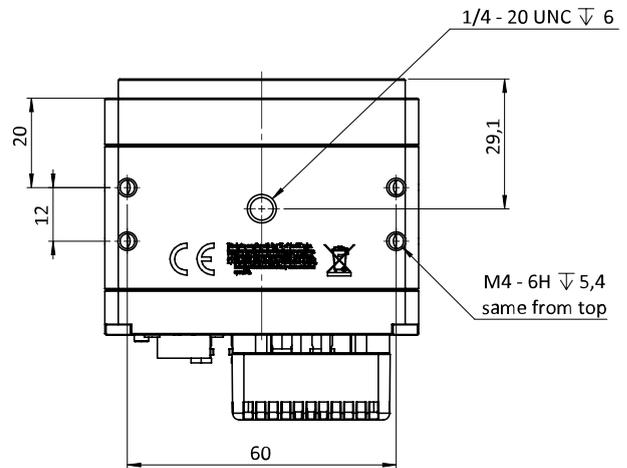
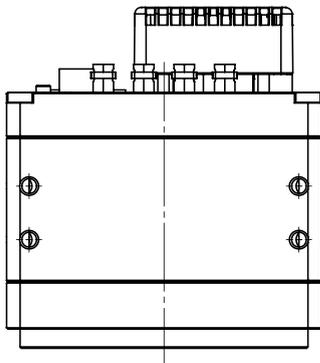
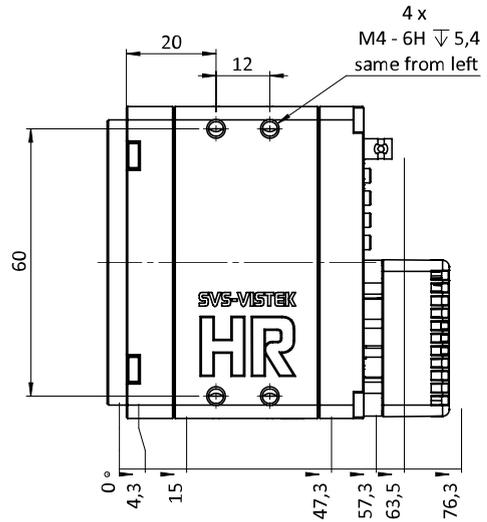
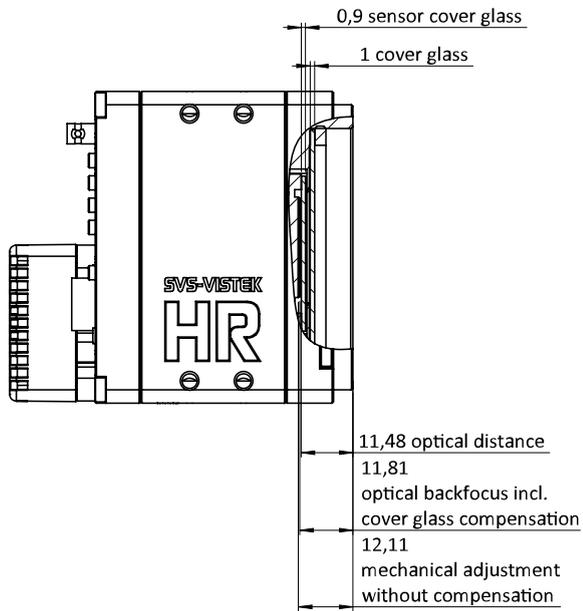
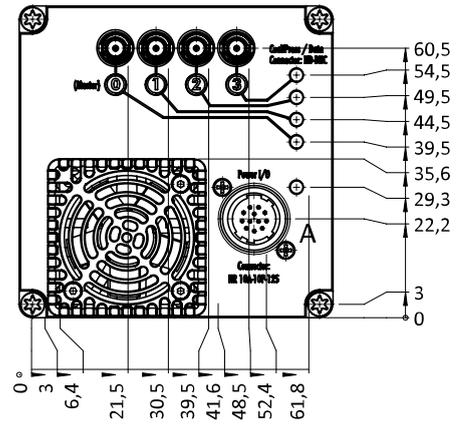
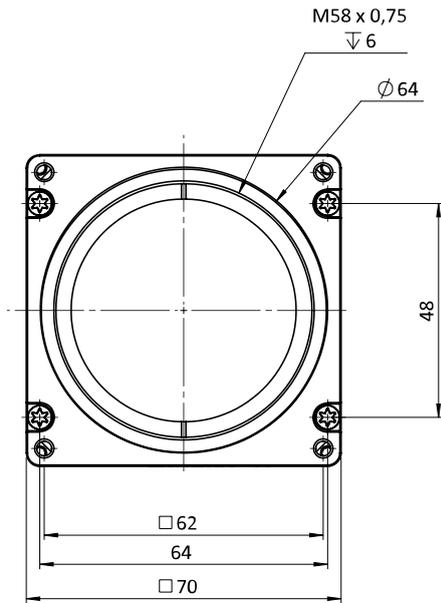
FW features - camera control

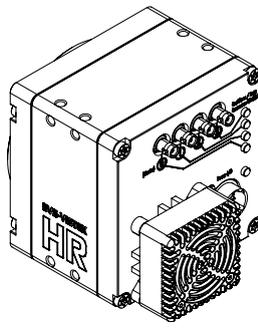
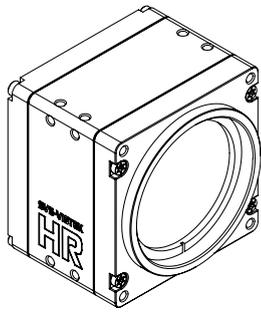
| | |
|--------------------------|-------------------------------|
| Trigger modes/sync: | INTERNAL,SOFTWARE,EXTERNAL |
| Camera control features: | User Sets, PWM(4), Sequencer, |

Color

(not included: lens- and light source characteristics)

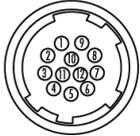






I/O pin assignment

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) |