

SHR 10GigE

shr411MXGE



General

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|-----------------|------------|
| Model: | shr411MXGE |
| Product code: | F004092 |
| Product series: | SHR 10GigE |
| Status: | Available |

Sensor

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|---------------------------------|--|
| Sensor type: | Area scan |
| Chroma: | Mono |
| Spectrum: | Visible |
| Spectral range: | 400 nm to 1000 nm |
| Resolution: | 14,192 × 10,640 (151.00 MP) |
| Sensor model: | Sony IMX411ALR |
| Sensor architecture (material): | cmos |
| Shutter type(s): | rolling-shutter |
| Sensor size: | 53.36 × 40.01 mm (66.69 mm, 66.7mm (Type 4.2)) |
| Pixel size: | 3.76 μm × 3.76 μm |

Pixel formats

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|---------------------------|-----------------------|
| Sensor bit depth: | 8-Bit, 12-Bit, 16-Bit |
| Monochrome pixel formats: | mono8, mono12, mono16 |

Imaging performance

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|----------------|---------|
| Dynamic range: | 78 dB |
| SNR: | 46.9 dB |

Timing and gain

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|------------------|-------------------|
| Max. frame rate: | 6.2 fps |
| Exposure time: | 60 μ s (max) |
| Gain: | 0.0 dB to 36.0 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 consumption: | External: 19 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): | 83 x 80 x 80 |
| Filter/protection glass: | Borofloat B270i - AR coating |
| IP class: | IP30 |
| Lens mount(s): | M72x0.75 |
| Weight: | 580 g |

Interfaces

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

FW features - image control

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

FW features - camera control

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

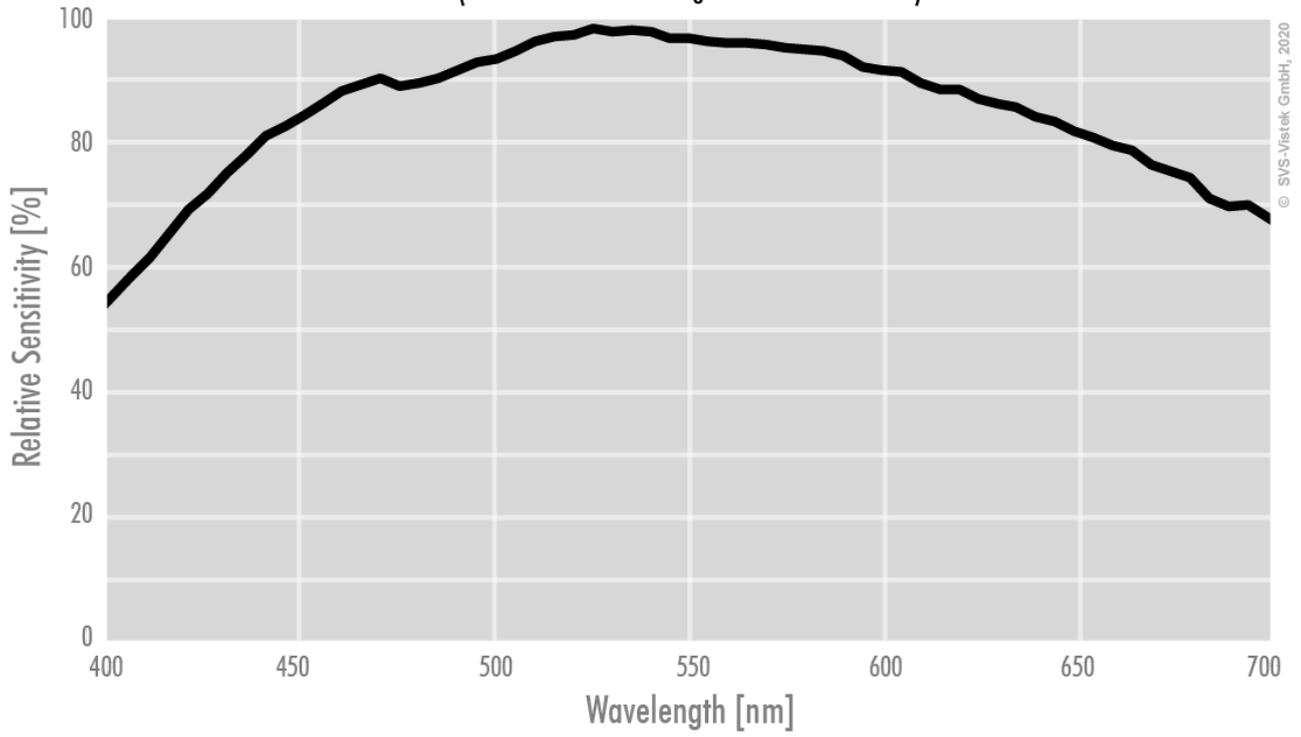
FW features - camera control

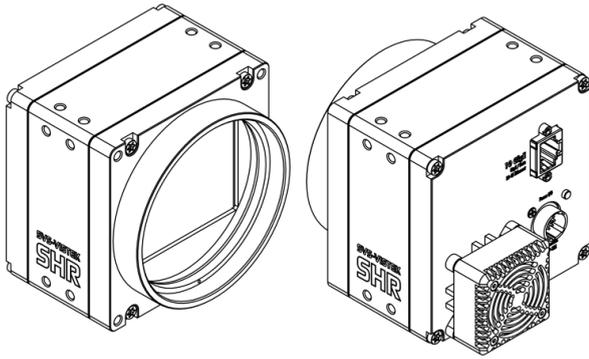
Camera control features:

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

Monochrome

(not included: lens- and light source characteristics)





I/O pin assignment



| | | | |
|---|-----------------------|----|--------------------|
| 1 | VIN - (GND) | 7 | OUT 1 (open drain) |
| 2 | VIN + (10V to 25V 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) |