

In series

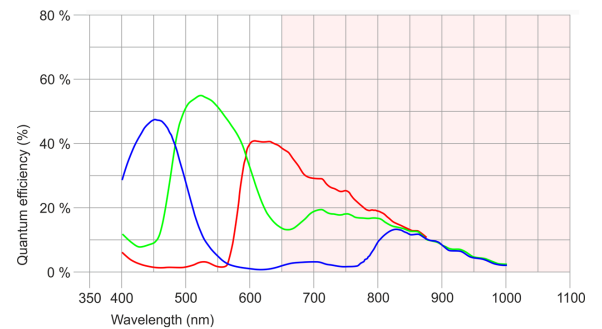
The model is in series and available for the long term.



Specification

Sensor

| | |
|---|------------------------|
| Sensor type | CMOS Color |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Readout mode | Progressive scan |
| Pixel Class | 25 MP |
| Resolution | 24.55 Mpix |
| Resolution (h x v) | 5328 x 4608 Pixel |
| Aspect ratio | 5:4 |
| ADC | 12 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1.2" |
| Optical Size | 14.599 mm x 12.626 mm) |
| Optical sensor diagonal | 19.3 mm |
| Pixel size | 2.74 μ m |
| Manufacturer | Sony |
| Sensor Model | IMX540-AAQJ-C |
| Gain (master/RGB) | -/- |
| AOI horizontal | same frame rate |
| AOI vertical | increased frame rate |
| AOI image width / step width | 256 / 2 |
| AOI image height / step width | 2 / 2 |
| AOI position grid (horizontal/vertical) | 2 / 2 |
| Binning horizontal | same frame rate |
| Binning vertical | same frame rate |
| Binning method | M/C automatic |
| Binning factor | 2 / 4 / 8 |
| Subsampling horizontal | same frame rate |
| Subsampling vertical | same frame rate |
| Subsampling method | M/C automatic |
| Subsampling factor | 2, 4, 8 |



Model

| | |
|-----------------------------------|--------------------|
| Frame rate freerun mode | 5.0 fps |
| Frame rate trigger (continuous) | 5.0 fps |
| Frame rate trigger (maximum) | 6.0 fps |
| Exposure time (minimum - maximum) | 0.035 ms - 2000 ms |
| Long exposure (maximum) | 120000 ms |
| Power consumption | 1.8 W - 5.1 W |
| Image memory | 128 MB |

Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.

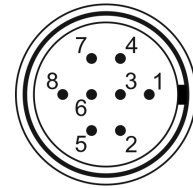
| | |
|---|---------------------------------|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Allowed device temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

Connectors

| | |
|---------------------|---|
| Interface connector | GigE RJ45, screwable |
| I/O connector | 8-pin Hirose connector (HR25-7TR-8PA(73)) |
| Power supply | 12 V - 24 V or PoE |

Pin assignment I/O connector

| | |
|---|---|
| 1 | Ground (GND) |
| 2 | Flash output with optocoupler (-) - Line 1 |
| 3 | General Purpose I/O (GPIO) 1 - Line 2 |
| 4 | Trigger input with optocoupler (-) - Line 0 |
| 5 | Flash output with optocoupler (+) - Line 1 |
| 6 | General Purpose I/O (GPIO) 2 |
| 7 | Trigger input with optocoupler (+) - Line 0 |
| 8 | Input power supply (VCC) 12-24 V DC |



Design

| | |
|------------------|-----------------------------|
| Lens Mount | C-Mount |
| IP code | IP30 |
| Dimensions H/W/L | 34.0 mm x 44.0 mm x 47.0 mm |
| Mass | 104 g |

Features

Image Acquisition

| | |
|-----------------------------|---|
| Freerun | ✓ |
| Software trigger | ✓ |
| Hardware trigger | ✓ |
| Trigger controlled exposure | ✓ |
| Denoiser | ✓ |
| Long exposure | ✓ |
| Line scan | - |
| Line scan highspeed | - |

Flashing

| | |
|--------------|---|
| Flashing | ✓ |
| PWM flashing | ✓ |

| | | |
|---------------------------|--------------------------------|--|
| Image Adjustments | Auto exposure | ✓ |
| | Auto gain | ✓ |
| | Auto whitebalance | ✓ |
| | Color correction | ✓ |
| | Gamma | ✓ |
| | LUT | ✓ |
| | Mirror/flip | X/Y |
| On-board Image Processing | Pixel formats | BayerRG8 BayerRG10p BayerRG12 BayerRG12p BayerRG10 |
| | Region of interest | ✓ |
| | Decimation (FPGA) | ✓ |
| | Decimation (Sensor) | 2x2 |
| | Binning (FPGA) | ✓ |
| | Binning (Sensor) | - |
| Others | IP settings | ✓ |
| | Bandwidth management | ✓ |
| | Chunks | ✓ |
| | Sequencer | ✓ |
| | PTP | ✓ |
| | Firmware update | ✓ |
| | 1st supported firmware version | 3.31 |



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