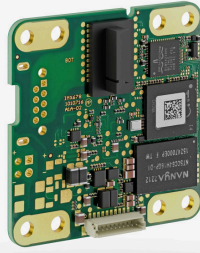
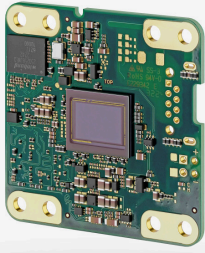


In development

The model is not yet in series production, but will be introduced shortly.

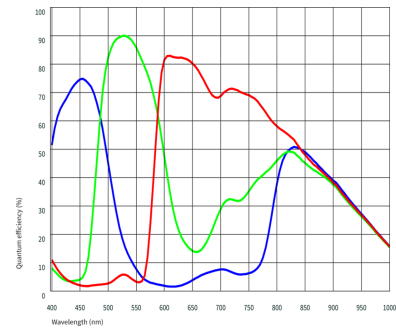


Specification

- PRELIMINARY -

Sensor

| | |
|---|----------------------|
| Sensor type | CMOS Color |
| Shutter | Rolling shutter |
| Sensor characteristic | Linear |
| Readout mode | - |
| Pixel Class | 2 MP |
| Resolution | 2.12 Mpix |
| Resolution (h x v) | 1936 x 1096 Pixel |
| Aspect ratio | 16:9 |
| ADC | 12 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1/3" |
| Optical Size | 5.614 mm x 3.178 mm |
| Optical sensor diagonal | 6.45 mm (1/2.48") |
| Pixel size | 2.9 µm |
| Manufacturer | Sony |
| Sensor Model | IMX662-AAQR1-C |
| Gain (master/RGB) | 31.6x/16x |
| 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 | increased frame rate |
| Binning vertical | increased frame rate |
| Binning method | |
| Binning factor | - |
| Subsampling horizontal | |
| Subsampling vertical | |
| Subsampling method | M/C automatic |
| Subsampling factor | - |



Subject to technical modifications (2025-01-15)

Model

| | |
|-----------------------------------|--------------------|
| Frame rate freerun mode | 59 fps |
| Frame rate trigger (continuous) | 59 fps |
| Frame rate trigger (maximum) | 61 fps |
| Exposure time (minimum - maximum) | 0.013 ms - 1999 ms |
| Power consumption | 2.1 W - 3.1 W |

Ambient conditions

For PCB versions, refer to the separate hints in the respective documentation.

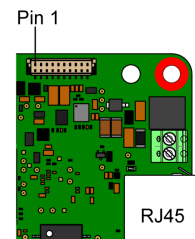
| | |
|---|---------------------------------|
| Allowed device temperature during operation | 0 °C - 35 °C / 32 °F - 95 °F |
| Allowed device temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

Connectors

| | |
|---------------------|--|
| Interface connector | GigE RJ45 |
| I/O connector | 10-pin Wuerth connector (WR-WTB 1.00 mm) |
| Power supply | 12 V - 24 V |

Pin assignment I/O connector

| | |
|----|---|
| 1 | Power supply (VCC) 12-24 V |
| 2 | Power supply, ground |
| 3 | General Purpose I/O (GPIO) 2, 3.3 V |
| 4 | General Purpose I/O (GPIO) 1, 3.3 V |
| 5 | I2C SCL (signal clock) 3.3 V |
| 6 | I2C SDA (signal data) 3.3 V |
| 7 | Trigger input without optocoupler 3.3 V |
| 8 | Flash output without optocoupler 3.3 V |
| 9 | Ground (GND) |
| 10 | Voltage output 3.3 V |



Design

| | |
|------------------|-----------------------------|
| Lens Mount | - |
| IP code | - |
| Dimensions H/W/L | 45.0 mm x 45.0 mm x 15.0 mm |
| Mass | 12 g |

Features

Image Acquisition

| | |
|-----------------------------|---|
| Freerun | ✓ |
| Software trigger | ✓ |
| Hardware trigger | ✓ |
| Trigger controlled exposure | - |
| Denoisier | ✓ |
| Long exposure | - |
| Line scan | - |
| Line scan highspeed | - |
| Global start | - |

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) | - |
| | Binning (FPGA) | - |
| | Binning (Sensor) | 2x2 Increases frame rate. |
| | | |
| Others | IP settings | ✓ |
| | Bandwidth management | ✓ |
| | Chunks | - |
| | Sequencer | - |
| | PTP | ✓ |
| | Firmware update | ✓ |
| | 1st supported firmware version | |