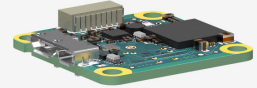
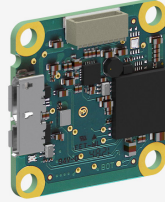
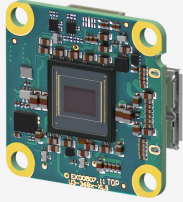


In development

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

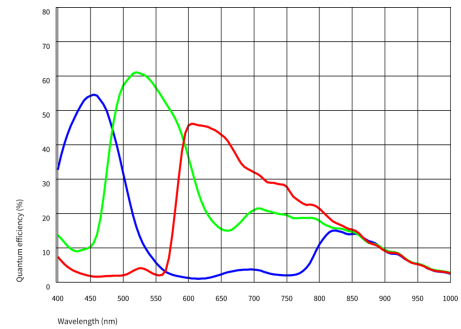


Specification

- PRELIMINARY -

Sensor

Sensor type	CMOS Color
Shutter	Global Shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	5 MP
Resolution	5.10 Mpix
Resolution (h x v)	2472 x 2062 Pixel
Aspect ratio	5:4
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1/1.8"
Optical Size	6.773 mm x 5.650 mm
Optical sensor diagonal	8.82 mm (1/1.81")
Pixel size	2.74 μm
Manufacturer	Sony
Sensor Model	IMX568-AAQJ-C
Gain (master/RGB)	15.9x/-
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	600 / 48
AOI image height / step width	14 / 8
AOI position grid (horizontal/vertical)	8 / 8
Binning horizontal	-
Binning vertical	-
Binning method	-
Binning factor	-
Subsampling horizontal	increased frame rate
Subsampling vertical	increased frame rate
Subsampling method	Color
Subsampling factor	2



Subject to technical modifications (2023-08-07)

Model

Frame rate freerun mode (in 8-bit mode)	49 fps
Frame rate trigger (continuous)	50 fps
Frame rate trigger (maximum)	50 fps
Exposure time (minimum - maximum)	0.009 ms - 2000 ms
Power consumption	0.5 W - 1.2 W

Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing. For PCB versions, refer to the separate hints in the respective documentation.

Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 80 °C / -4 °F - 176 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	USB 3.0 micro-B
I/O connector	8-pin connector
Power supply	USB cable

Pin assignment I/O connector

1	Voltage output 3.3 V
2	Ground (GND)
3	Flash output without optocoupler
4	Trigger input without optocoupler
5	General Purpose I/O (GPIO) 1
6	General Purpose I/O (GPIO) 2
7	Ground (GND)
8	USB Power: 5 V, max. 400 mA



Design

Lens Mount	-
IP code	-
Dimensions H/W/L	29.0 mm x 29.0 mm x 6.4 mm
Mass	5 g

Features

Image Acquisition

Freerun	✓
Software trigger	✓
Hardware trigger	✓
Trigger controlled exposure	-
Denoisier	-
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 BayerRG10g40IDS BayerRG12g24IDS
Region of interest	✓
Decimation (FPGA)	-
Decimation (Sensor)	2x2
Binning (FPGA)	-
Binning (Sensor)	-

Others

Chunks	-
Sequencer	-
Events	-
Firmware update	✓
1st supported firmware version	3.21