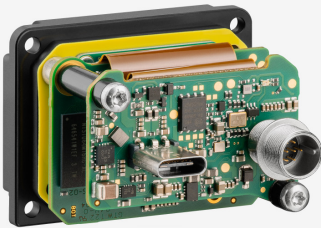
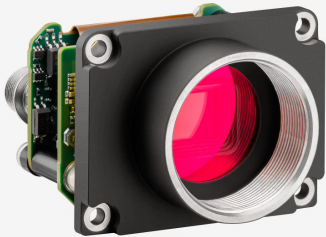


In series

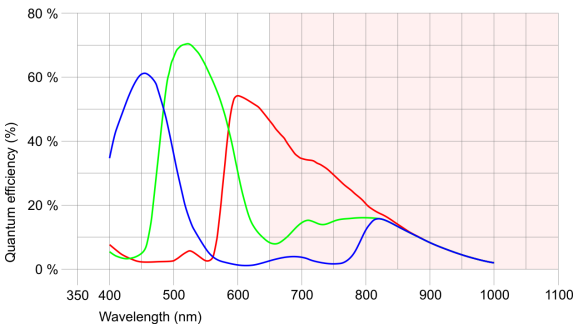
The model is in series and available for the long term.



Specification

Sensor

Sensor type	CMOS Color
Shutter	Global Shutter
Sensor characteristic	Linear
Readout mode	-
Pixel Class	2 MP
Resolution	2.35 Mpix
Resolution (h x v)	1936 x 1216 Pixel
Aspect ratio	16:10
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1/1.2"
Optical Size	11.345 mm x 7.126 mm
Optical sensor diagonal	13.4 mm 1/1.2"
Pixel size	5.86 µm
Manufacturer	Sony
Sensor Model	IMX249LQJ-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	
Binning vertical	
Binning method	M/C automatic
Binning factor	1x1
Decimation (subsampling) horizontal	
Decimation (subsampling) vertical	
Decimation (subsampling) method	M/C automatic
Decimation (subsampling) factor	1x1



Model

Frame rate freerun mode	46 fps
Frame rate trigger (continuous)	47 fps
Frame rate trigger (maximum)	47 fps
Exposure time (minimum - maximum)	0.031 ms - 2000 ms
Long exposure (maximum)	90000 ms
Power consumption	1.6 W - 3 W
Image memory	128 MB

Ambient conditions

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

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	USB Type-C
I/O connector	8-pin Hirose connector (HR25-7TR-8PA(73))
Power supply	USB cable

Pin assignment I/O connector

1	Ground (GND)
2	Flash output with optocoupler (-) - Line 1
3	General Purpose I/O (GPIO) 1, 3.3 V - Line 2
4	Trigger input with optocoupler (-) - Line 0
5	Flash output with optocoupler (+) - Line 1
6	General Purpose I/O (GPIO) 2, 3.3 V - Line 3
7	Trigger input with optocoupler (+) - Line 0
8	Output supply voltage, 5 V (100 mA)



Design

Lens Mount	C-Mount
IP code	-
Dimensions H/W/L	34.0 mm x 44.0 mm x 31.0 mm
Mass	46 g
Housing material	-

Features

List of on-camera image pre-processing features.

All features of the table are available via our IDS peak software for image pre-processing on the host computer (sensor model dependent).

Image Acquisition

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

Flashing

Flashing	✓
PWM flashing	✓

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Image Adjustments

Auto exposure	✓
Auto gain	✓
Auto whitebalance	✓
Color correction	✓
Gamma	✓
LUT	✓
Mirror/flip	X/Y

On-board Image Processing

Pixel formats	Mono8 BayerRG8 BayerRG10 BayerRG10p BayerRG12 BayerRG12p BGR8 RGB8 BGR10p32 RGB10p32
Region of interest	✓
Decimation (FPGA)	✓
Decimation (Sensor)	
Binning (FPGA)	✓
Binning (Sensor)	

Others

Chunks	✓
Sequencer	-
Events	✓
Firmware update	✓
1st supported firmware version	2.20.17746