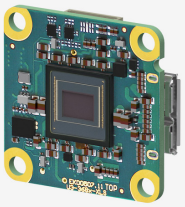
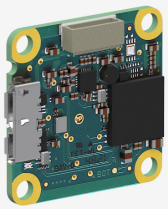
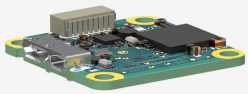
U3-38C2XLS-M Rev.1.2 (1010298)

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



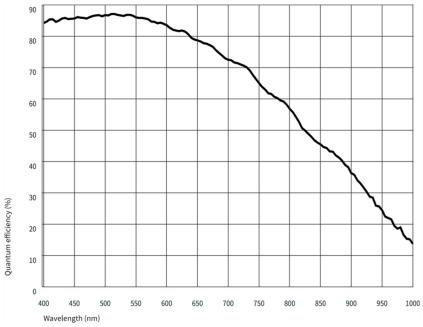




Specification

Sensor

Sensor type	CMOS Mono
Shutter	Rolling shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	2 MP
Resolution	2.16 Mpix
Resolution (h x v)	1968 x 1100 Pixel
Aspect ratio	16:9
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1/3"
Optical Size	5.707 mm x 3.190 mm
Optical sensor diagonal	6.54 mm (1/2.45")
Pixel size	2.9 µm
Micro lens shift	0.00
Manufacturer	Sony
Sensor Model	IMX662-AAMR-C
Gain (master/RGB)	-/-
AOI horizontal	same frame rate
AOI vertical	same frame rate
AOI image width / step width	48 / 48
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	M/C automatic
Binning factor	2
Subsampling horizontal	-
Subsampling vertical	-
Subsampling method	-
Subsampling factor	-



IDS Imaging Development Systems Inc.
92 Montvale Ave, Suite 4750 · Stoneham, MA 02180, USA · Phone +1 (781) 787-0048 · E-Mail usasales@ids-imaging.com

Model

Frame rate freerun mode (in 10-bit mode)	93 fps
Frame rate trigger (maximum)	-
Exposure time (minimum - maximum)	0.009 ms - 2000 ms
Power consumption	0.5 W - 0.9 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	3 g

Features

Image Acquisition	Freerun	✓
	Software trigger	✓
	Hardware trigger	✓
	Trigger controlled exposure	-
	Denoiser	-
	Long exposure	-
	Line scan	-
	Line scan highspeed	-
	Global start	-
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	Mono10g40IDS Mono12g24IDS
Region of interest	✓
Decimation (FPGA)	-
Decimation (Sensor)	-
Binning (FPGA)	-
Binning (Sensor)	2x2 Increases frame rate.

Others

Chunks	-
Sequencer	-
Events	-
Firmware update	✓
1st supported firmware version	3.x

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