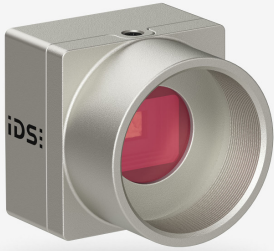


# U3-38J0XCP-C-HQ (AB03282)

## In series

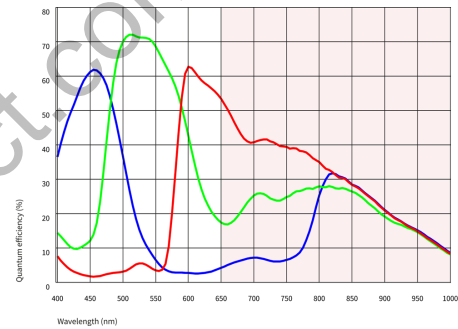
The model is in series and available for the long term.



## Specification

### Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	8 MP
Resolution	8.41 Mpix
Resolution (h x v)	3864 x 2176 Pixel
Aspect ratio	16:9
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1/3"
Optical Size	5.603 mm x 3.155 mm)
Optical sensor diagonal	6.43 mm (1/2.49")
Pixel size	1.45 μm
Manufacturer	Sony
Sensor Model	IMX415-AAQR-C
Gain (master/RGB)	-/-
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	24 / 24
AOI image height / step width	40 / 4
AOI position grid (horizontal/vertical)	2 / 4
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	-



Subject to technical modifications (2023-06-20)

Page 1 of 3

### Model

Frame rate freerun mode	25 fps
Frame rate trigger (continuous)	25 fps
Frame rate trigger (maximum)	25 fps
Exposure time (minimum - maximum)	0.032 ms - 1900 ms
Power consumption	0.5 W - 1 W

### Ambient conditions

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

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

### Connectors

Interface connector	USB 3.0 micro-B, screwable
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 - Line 1
4	Trigger input without optocoupler - Line 0
5	General Purpose I/O (GPIO) 1 - Line 2
6	General Purpose I/O (GPIO) 2 - Line 3
7	Ground (GND)
8	USB Power: 5 V, max. 400 mA



### Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	29.0 mm x 29.0 mm x 17.0 mm
Mass	32 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	BayerGR10g40IDS BayerGR12g24IDS
Region of interest	✓
Decimation (FPGA)	-
Decimation (Sensor)	-
Binning (FPGA)	-
Binning (Sensor)	2x2 Horizontal and vertical binning can only be applied jointly.

Others

Chunks	-
Sequencer	-
Events	-
Firmware update	✓
1st supported firmware version	2.11

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