# U3-38J0XLE-C-HQ Rev.1.2 (1008751)

**Discontinued**
The model has been discontinued.

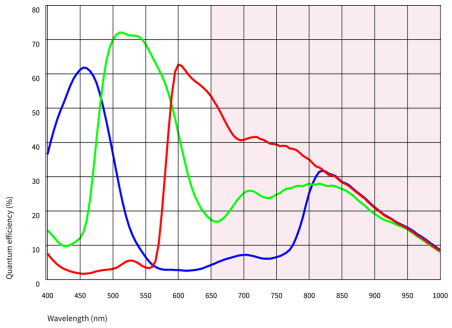




## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Color |
| Shutter | Rolling shutter |
| Sensor characteristic | Linear |
| 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 | 1/2.8" |
| Optical Size | 5.603 mm x 3.155 mm |
| Optical sensor diagonal | 6.43 mm 1/2.8" |
| Pixel size | 1.45 µm |
| CRA (Chief Ray Angle) | 0 ° |
| Manufacturer | Sony |
| Sensor Model | IMX415-AAQR-C |
| Gain (master/RGB) | 27.5x/- |
| AOI horizontal | same frame rate |
| AOI vertical | increased frame rate |
| AOI image width / step width | 24 / 24 |
| AOI image height / step width | 40 / 8 |
| AOI position grid (horizontal/vertical) | 2 / 2 |
| Binning horizontal | increased frame rate |
| Binning vertical | increased frame rate |
| Binning method | Horizontal: mean / Vertical: mean |
| Binning factor | 2x2 |
| Decimation (subsampling) horizontal | - |
| Decimation (subsampling) vertical | - |
| Decimation (subsampling) method | - |





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## Model

| | |
|---|---|
| Frame rate freerun mode | 25 fps @ 10Bit |
| Frame rate trigger (continuous) | 25 fps @ 10Bit |
| Frame rate trigger (maximum) | 25 fps @ 10Bit |
| Exposure time (minimum - maximum) | 0.019 ms - 1999 ms |
| Power consumption | 0.5 W - 1 W |
| Image memory | - |

## Ambient conditions

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

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

## Connectors

| | |
|---|---|
| Interface connector | USB Type-C |
| I/O connector | - |
| Power supply | USB cable |

## Design

| | |
|---|---|
| Lens Mount | CS- / C-Mount |
| IP code | IP30 |
| Dimensions H/W/L | 47.0 mm x 46.0 mm x 23.9 mm |
| Mass | 30 g |
| Housing material | Plastic |

## 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 | - |
| | Global start | - |
| Flashing | Flashing | - |
| | PWM flashing | - |
| Image Adjustments | Auto exposure | - |
| | Auto gain | - |
| | Auto whitebalance | - |
| | Color correction | - |
| | Gamma | - |
| | LUT | - |
| | Mirror/flip | X/Y |


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| | | |
|---|---|---|
| On-board Image Processing | Pixel formats | BayerRG10g40IDS<br>BayerRG12g24IDS |
| | Region of interest | ✓ |
| | Decimation (FPGA) | - |
| | Decimation (Sensor) | |
| | Binning (FPGA) | - |
| | Binning (Sensor) | 2x2<br>Increases frame rate. |

| | | |
|---|---|---|
| Others | Chunks | - |
| | Sequencer | - |
| | Events | - |
| | Firmware update | ✓ |
| | 1st supported firmware version | 3.2 |



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