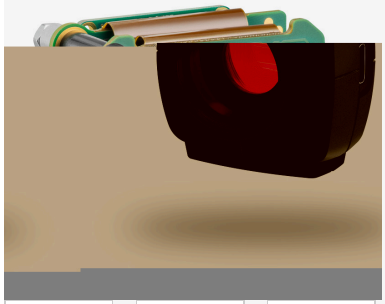
# U3-3040LE-C-HQ Rev.1.2 (AB03436)

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



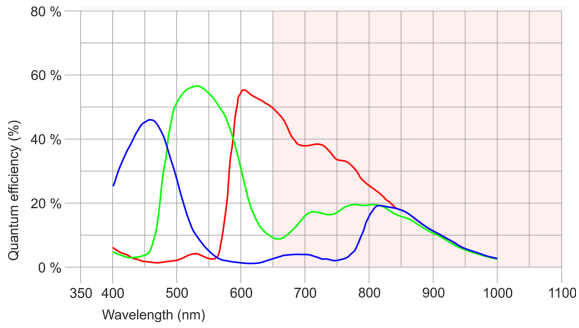




## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Color |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Pixel Class | 1.6 MP |
| Resolution | 1.58 Mpix |
| Resolution (h x v) | 1456 x 1088 Pixel |
| Aspect ratio | 4:3 |
| ADC | 12 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1/2.9" |
| Optical Size | 4.996 mm x 3.747 mm |
| Optical sensor diagonal | 6.25 mm 1/2.9" |
| Pixel size | 3.45 µm |
| CRA (Chief Ray Angle) | 0 ° |
| Manufacturer | Sony |
| Sensor Model | IMX273LQR-C |
| Gain (master/RGB) | 25.4x/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 | Horizontal: - / Vertical: - |
| Binning factor | - |
| Decimation (subsampling) horizontal | increased frame rate |
| Decimation (subsampling) vertical | increased frame rate |
| Decimation (subsampling) method | M/C automatic |







IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

## Model

| | |
|---|---|
| Frame rate freerun mode | 235 fps |
| Frame rate trigger (continuous) | 244 fps |
| Frame rate trigger (maximum) | 244 fps |
| Exposure time (minimum - maximum) | 0.022 ms - 2000 ms |
| Long exposure (maximum) | 30606 ms |
| Power consumption | 0.8 W - 1.8 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 | 38 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 | - |
| 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 | BayerRG8<br>BayerRG10p<br>BayerRG12<br>BayerRG12p<br>BayerRG10 |
| | Region of interest | ✓ |
| | Decimation (FPGA) | ✓ |
| | Decimation (Sensor) | 2x2 |
| | Binning (FPGA) | - |
| | Binning (Sensor) | |

| | | |
|---|---|---|
| Others | Chunks | - |
| | Sequencer | - |
| | Events | - |
| | Firmware update | ✓ |
| | 1st supported firmware version | 2.20 |



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