# UI-3130LE-C-HQ (AB00892)

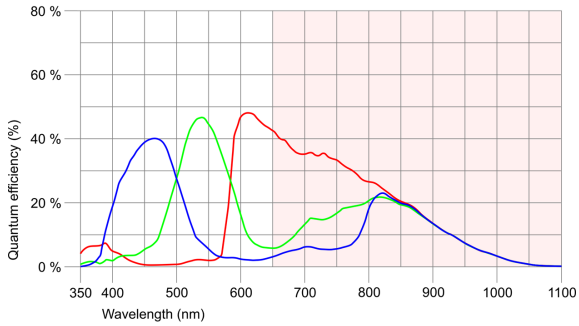
**Not recommended for new designs**
The camera model is no longer recommended for new application development.



## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Color |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Pixel Class | 0.5 MP |
| Resolution | 0.49 Mpix |
| Resolution (h x v) | 808 x 608 Pixel |
| Aspect ratio | 4:3 |
| ADC | 10 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1/3.6" |
| Optical Size | 3.878 mm x 2.918 mm |
| Optical sensor diagonal | 4.85 mm 1/3.6" |
| Pixel size | 4.8 µm |
| CRA (Chief Ray Angle) | 1.7 ° |
| Manufacturer | Onsemi |
| Sensor Model | NOIP1SE0480A-SDI |
| Gain (master/RGB) | 4x/4x |
| AOI horizontal | increased frame rate |
| AOI vertical | increased frame rate |
| AOI image width / step width | 120 / 8 |
| AOI image height / step width | 2 / 2 |
| AOI position grid (horizontal/vertical) | 8 / 2 |
| Binning horizontal | - |
| Binning vertical | - |
| Binning method | - |
| Binning factor | - |
| Decimation (subsampling) horizontal | increased frame rate |
| Decimation (subsampling) vertical | increased frame rate |
| Decimation (subsampling) method | M/C automatic |





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## Model

| | |
|---|---|
| Pixel clock range | 30 MHz - 80 MHz |
| Frame rate freerun mode | 135 fps |
| Frame rate trigger (continuous) | 135 fps |
| Frame rate trigger (maximum) | 135 fps |
| Exposure time (minimum - maximum) | 0.046 ms - 967 ms |
| Long exposure (maximum) | 5000 ms |
| Power consumption | 1 W - 1.5 W |
| Image memory | - |
| Special features | Overlap trigger<br>Sensor source gain<br>Multi-AOI |

## 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 23.4 mm |
| Mass | 37 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 | - |


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| | | |
|---|---|---|
| On-board Image Processing | Pixel formats | |
| | Region of interest | ✓ |
| | Decimation (FPGA) | - |
| | Decimation (Sensor) | |
| | Binning (FPGA) | - |
| Others | Chunks | - |
| | Sequencer | - |
| | Firmware update | - |
| | 1st supported firmware version | 4.82 |



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