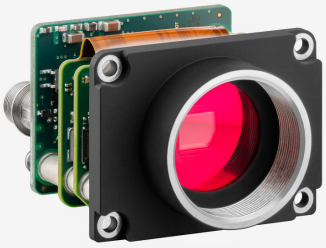
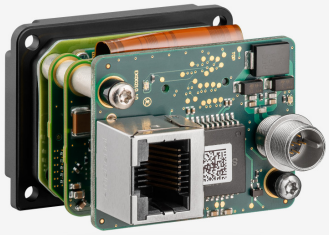
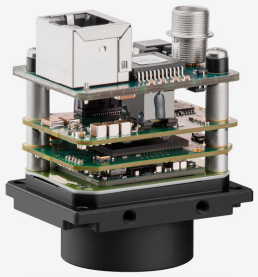
# UI-5131SE-M-GL Rev.4 (AB02122)

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

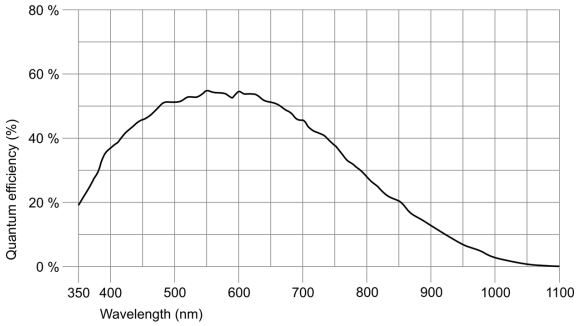




uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. Learn about the process here and switch now.
Please note: The technical data given here was measured using the IDS Software Suite.

## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Mono |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Readout mode | Progressive scan |
| Pixel Class | 0.5 MP |
| Resolution | 0.48 Mpix |
| Resolution (h x v) | 800 x 600 Pixel |
| Aspect ratio | 4:3 |
| ADC | 10 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1/3.6"" |
| Optical Size | 3.840 mm x 2.880 mm |
| Optical sensor diagonal | 4.8 mm (1/3.33") |
| Pixel size | 4.8 µm |
| Manufacturer | Onsemi |
| Sensor Model | NOIP1SN0500A-QDI |
| 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 | same frame rate |
| Binning vertical | same frame rate |
| Binning method | Mono |
| Binning factor | 2 |
| Subsampling horizontal | increased frame rate |
| Subsampling vertical | increased frame rate |
| Subsampling method | M/C automatic |
| Subsampling factor | 2 |




Subject to technical modifications (2024-03-29)



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## Model

| | |
|---|---|
| Pixel clock range | 120 MHz - 152 MHz |
| Frame rate freerun mode | 205 |
| Frame rate trigger (continuous) | 205 |
| Frame rate trigger (maximum) | 205 |
| Exposure time (minimum - maximum) | 0.058 ms - 303 ms |
| Long exposure (maximum) | 5000 ms |
| Power consumption | 1.7 W - 2.7 W |
| Image memory | 128 MB |
| Special features | IDS line scan mode,<br>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.
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 - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

## Connectors

| | |
|---|---|
| Interface connector | GigE RJ45 |
| I/O connector | 8-pin Hirose connector (HR25-7TR-8PA(73)) |
| Power supply | 12 V - 24 V or PoE |

## Pin assignment I/O connector

| | |
|---|---|
| 1 | Ground (GND) |
| 2 | Flash output with optocoupler (-) |
| 3 | General Purpose I/O (GPIO) 1 |
| 4 | Trigger input with optocoupler (-) |
| 5 | Flash output with optocoupler (+) |
| 6 | General Purpose I/O (GPIO) 2 |
| 7 | Trigger input with optocoupler (+) |
| 8 | Input power supply (VCC) 12-24 V DC |




Camera rear view

## Design

| | |
|---|---|
| Lens Mount | C-Mount |
| IP code | - |
| Dimensions H/W/L | 34.0 mm x 44.0 mm x 35.0 mm |
| Mass | 62 g |



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