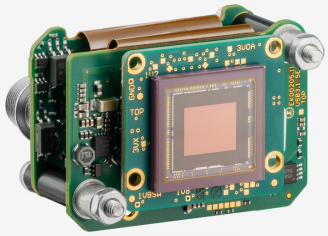
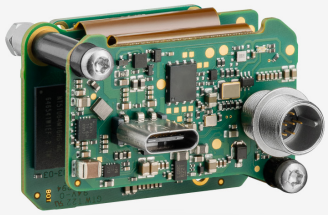
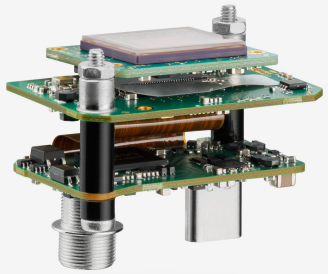
# U3-3082SE-M (AB02852)

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



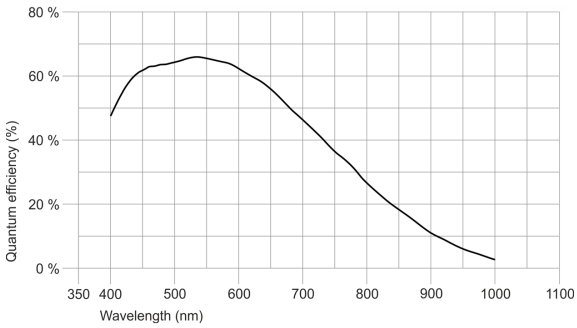




## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Mono |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Readout mode | Progressive scan |
| Pixel Class | 5 MP |
| Resolution | 5.01 Mpix |
| Resolution (h x v) | 2448 x 2048 Pixel |
| Aspect ratio | 5:4 |
| ADC | 12 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 2/3"" |
| Optical Size | 8.446 mm x 7.066 mm |
| Optical sensor diagonal | 11.01 mm (1/1.45") |
| Pixel size | 3.45 µm |
| Manufacturer | Sony |
| Sensor Model | IMX250LLR-C |
| Gain (master/RGB) | 24x/4x |
| AOI horizontal | same frame rate |
| AOI vertical | increased frame rate |
| AOI image width / step width | 256 / 8 |
| AOI image height / step width | 1 / 1 |
| AOI position grid (horizontal/vertical) | 8 / 1 |
| Binning horizontal | same frame rate |
| Binning vertical | increased frame rate |
| Binning method | M/C automatic |
| Binning factor | 2 / 4 / 8 |
| Subsampling horizontal | same frame rate |
| Subsampling vertical | same frame rate |
| Subsampling method | M/C automatic |
| Subsampling factor | 2, 4, 8 |







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 | 79 |
| Frame rate trigger (continuous) | 79 |
| Frame rate trigger (maximum) | 87 |
| Exposure time (minimum - maximum) | 0.036 ms - 2000 ms |
| Long exposure (maximum) | 90000 ms |
| Power consumption | 1.6 W - 3.7 W |
| Image memory | 128 MB |

## 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 | USB Type-C |
| I/O connector | 8-pin Hirose connector (HR25-7TR-8PA(73)) |
| Power supply | USB cable |

## Pin assignment I/O connector

| | |
|---|---|
| 1 | Ground (GND) |
| 2 | Flash output with optocoupler (-) - Line 1 |
| 3 | General Purpose I/O (GPIO) 1, 3.3 V - Line 2 |
| 4 | Trigger input with optocoupler (-) - Line 0 |
| 5 | Flash output with optocoupler (+) - Line 1 |
| 6 | General Purpose I/O (GPIO) 2, 3.3 V - Line 3 |
| 7 | Trigger input with optocoupler (+) - Line 0 |
| 8 | Output supply voltage, 5 V (100 mA) |




Camera rear view

## Design

| | |
|---|---|
| Lens Mount | - |
| IP code | - |
| Dimensions H/W/L | 29.5 mm x 40.0 mm x 25.0 mm |
| Mass | 20 g |



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