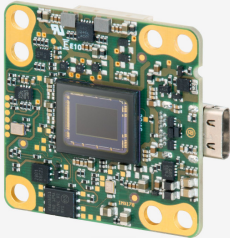


Not recommended for new designs  
The camera model is no longer recommended for new application development.

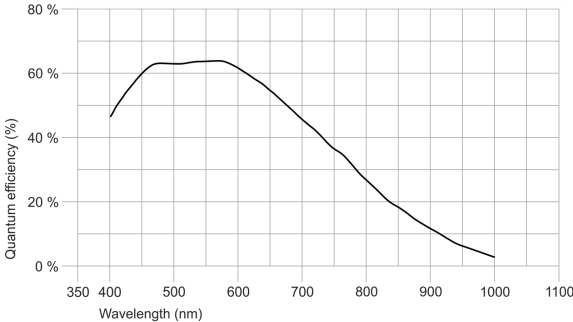


uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. [Learn about the process here and switch now.](#)  
Please note: The technical data given here was measured using the IDS Software Suite.

Specification

Sensor

|   |                      |
|---|----------------------|
| Sensor type                             | CMOS Mono            |
| Shutter                                 | Global Shutter       |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 1.6 MP               |
| Resolution                              | 1.57 Mpix            |
| Resolution (h x v)                      | 1448 x 1086 Pixel    |
| Aspect ratio                            | 4:3                  |
| ADC                                     | 12 bit               |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/3"                 |
| Optical Size                            | 4.995 mm x 3.746 mm  |
| Optical sensor diagonal                 | 6.24 mm (1/2.56")    |
| Pixel size                              | 3.45 µm              |
| Manufacturer                            | Sony                 |
| Sensor Model                            | IMX273LLR-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           | 2 / 2                |
| AOI position grid (horizontal/vertical) | 4 / 2                |
| Binning horizontal                      | same frame rate      |
| Binning vertical                        | increased frame rate |
| Binning method                          | Mono                 |
| Binning factor                          | 2                    |
| Subsampling horizontal                  | same frame rate      |
| Subsampling vertical                    | increased frame rate |
| Subsampling method                      | M/C automatic        |
| Subsampling factor                      | 2                    |



Subject to technical modifications (2024-04-26)

Model

|                                   |  |
|-----------------------------------|--|
| Pixel clock range                 | 10 MHz - 430 MHz                       |
| Frame rate freerun mode           | 230                                    |
| Frame rate trigger (continuous)   | 230                                    |
| Frame rate trigger (maximum)      | 230                                    |
| Exposure time (minimum - maximum) | 0.017 ms - 998 ms                      |
| Long exposure (maximum)           | 30000 ms                               |
| Power consumption                 | 0.8 W - 1.8 W                          |
| Special features                  | Overlap trigger,<br>Sensor source gain |

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.

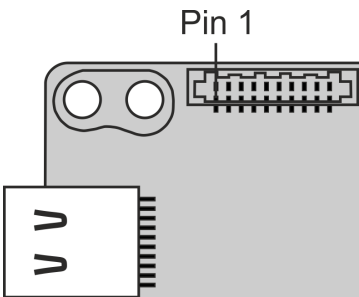
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 80 °C / -4 °F - 176 °F |
| Humidity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

Connectors

|                     |                                     |
|---------------------|-------------------------------------|
| Interface connector | USB Type-C                          |
| I/O connector       | 10-pin Molex connector (IllumiMate) |
| Power supply        | USB cable                           |

Pin assignment I/O connector

|    |   |
|----|---|
| 1  | Voltage output 5 V                      |
| 2  | Ground (GND)                            |
| 3  | not connected                           |
| 4  | not connected                           |
| 5  | not connected                           |
| 6  | not connected                           |
| 7  | Trigger input without optocoupler 3.3 V |
| 8  | Flash output without optocoupler 3.3 V  |
| 9  | Ground (GND)                            |
| 10 | Voltage output 3.3 V                    |



Camera rear view

Design

|                  |                            |
|------------------|----------------------------|
| Lens Mount       | -                          |
| IP code          | -                          |
| Dimensions H/W/L | 36.0 mm x 36.0 mm x 8.6 mm |
| Mass             | 9 g                        |