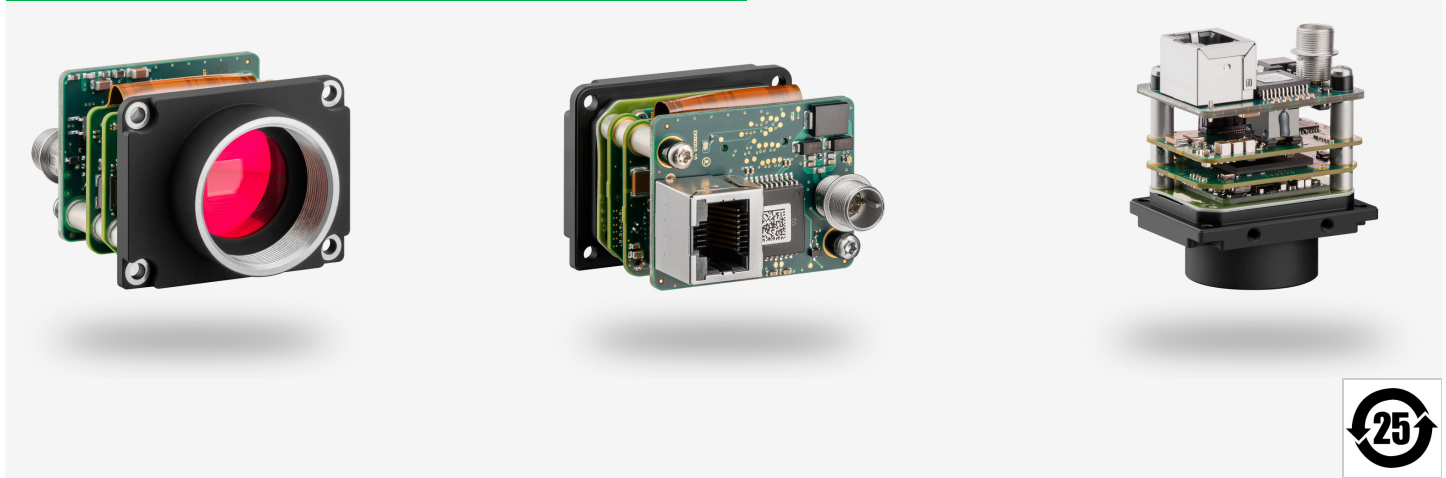


In series

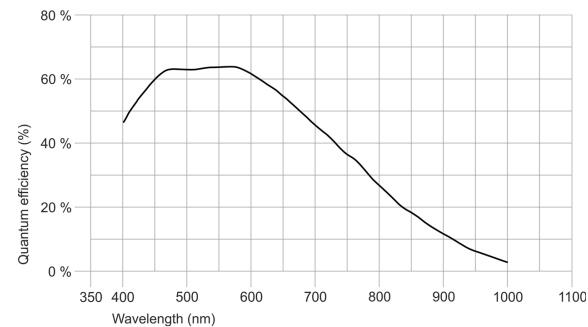
The model is in series and available for the long term.



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 $\mu$ m         |
| Micro lens shift                        | 0.00                 |
| 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                      | increased 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, 4, 6, 8, 16       |



Model

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| Pixel clock range                       | 25 MHz - 140 MHz                                                         |
| Frame rate freerun mode (in 8-bit mode) | 73 fps                                                                   |
| Frame rate trigger (continuous)         | 73 fps                                                                   |
| Frame rate trigger (maximum)            | 77 fps                                                                   |
| Exposure time (minimum - maximum)       | 0.025 ms - 999 ms                                                        |
| Long exposure (maximum)                 | 30000 ms                                                                 |
| Power consumption                       | 1.1 W - 3.5 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.

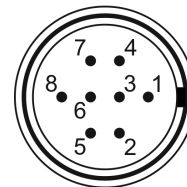
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (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 |



Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | -                           |
| Dimensions H/W/L | 34.0 mm x 44.0 mm x 35.0 mm |
| Mass             | 61 g                        |