

In series

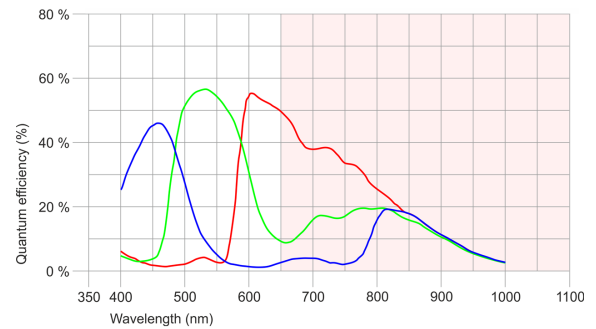
The model is in series and available for the long term.



Specification

Sensor

| | |
|-----------------------------------------|----------------------|
| Sensor type | CMOS Color |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Readout mode | Progressive scan |
| Pixel Class | 1.6 MP |
| Resolution | 1.58 Mpix |
| Resolution (h x v) | 1456 x 1088 Pixel |
| Aspect ratio | 4:3 |
| ADC | 12 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1/3" |
| Optical Size | 5.032 mm x 3.754 mm |
| Optical sensor diagonal | 6.28 mm (1/2.55") |
| Pixel size | 3.45 µm |
| Manufacturer | Sony |
| Sensor Model | IMX273LQR-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 | - |
| Binning vertical | - |
| Binning method | - |
| Binning factor | - |
| Subsampling horizontal | same frame rate |
| Subsampling vertical | same frame rate |
| Subsampling method | M/C automatic |
| Subsampling factor | 2, 4, 16 |



Model

| | |
|-----------------------------------|--------------------|
| Frame rate freerun mode | 230 |
| Frame rate trigger (continuous) | 230 |
| Frame rate trigger (maximum) | 230 |
| Exposure time (minimum - maximum) | 0.040 ms - 2000 ms |
| Long exposure (maximum) | 30606 ms |
| Power consumption | 1 W - 2 W |

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.

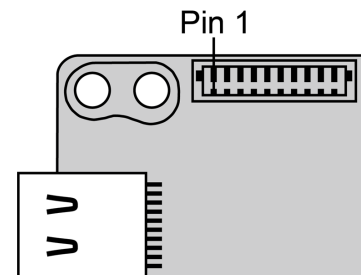
| | |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Device temperature during storage | -20 °C - 80 °C / -4 °F - 176 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

Connectors

| | |
|---------------------|------------------------------------------|
| Interface connector | USB Type-C |
| I/O connector | 10-pin Wuerth connector (WR-WTB 1.00 mm) |
| Power supply | USB cable |

Pin assignment I/O connector

| | |
|----|--------------------------------------------------|
| 1 | Voltage output 5 V, max. 400 mA |
| 2 | Ground (GND) |
| 3 | General Purpose I/O (GPIO) 2, 3.3 V - Line 3 |
| 4 | General Purpose I/O (GPIO) 1, 3.3 V - Line 2 |
| 5 | Do not connect (for future use) |
| 6 | Do not connect (for future use) |
| 7 | Trigger input without optocoupler 3.3 V - Line 0 |
| 8 | Flash output without optocoupler 3.3 V - Line 1 |
| 9 | Ground (GND) |
| 10 | Voltage output 3.3 V |



Camera rear view

Design

| | |
|------------------|-----------------------------|
| Lens Mount | CS- / C-Mount |
| IP code | - |
| Dimensions H/W/L | 36.0 mm x 36.0 mm x 20.0 mm |
| Mass | 20 g |