

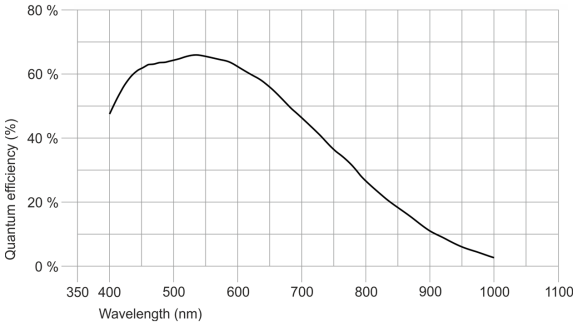
Not recommended for new designs  
The camera model is no longer recommended for new application development.



Specification

Sensor

|                                         |                       |
|-----------------------------------------|-----------------------|
| Sensor type                             | CMOS Mono             |
| Shutter                                 | Global Shutter        |
| Sensor characteristic                   | Linear                |
| Readout mode                            | Progressive scan      |
| Pixel Class                             | 12 MP                 |
| Resolution                              | 12.29 Mpix            |
| Resolution (h x v)                      | 4096 x 3000 Pixel     |
| Aspect ratio                            | 4:3                   |
| ADC                                     | 12 bit                |
| Color depth (camera)                    | 12 bit                |
| Optical sensor class                    | 1.1"                  |
| Optical Size                            | 14.131 mm x 10.350 mm |
| Optical sensor diagonal                 | 17.52 mm              |
| Pixel size                              | 3.45 µm               |
| Manufacturer                            | Sony                  |
| Sensor Model                            | IMX304LLR-C           |
| Gain (master/RGB)                       | 24x/4x                |
| AOI horizontal                          | same frame rate       |
| AOI vertical                            | increased frame rate  |
| AOI image width / step width            | 264 / 8               |
| AOI image height / step width           | 1 / 1                 |
| AOI position grid (horizontal/vertical) | 8 / 1                 |
| Binning horizontal                      | increased 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               |



## Model

|                                   |                    |
|-----------------------------------|--------------------|
| Frame rate freerun mode           | 10                 |
| Frame rate trigger (continuous)   | 10                 |
| Frame rate trigger (maximum)      | 10                 |
| Exposure time (minimum - maximum) | 0.046 ms - 2000 ms |
| Long exposure (maximum)           | 90000 ms           |
| Power consumption                 | 1.7 W - 3.1 W      |
| Image memory                      | 128 MB             |

## Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.

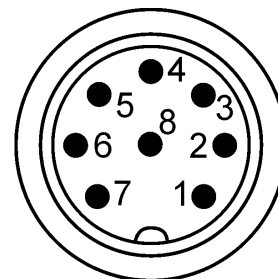
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 0 % - 100 %                     |

## Connectors

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| Interface connector | GigE M12, screwable                                        |
| I/O connector       | 8-pin Binder connector (Binder series 712: 09-0427-020-08) |
| Power supply        | 12 V - 24 V or PoE                                         |

## Pin assignment I/O connector

|   |                                             |
|---|---------------------------------------------|
| 1 | Trigger input with optocoupler (+) - Line 0 |
| 2 | Input power supply (VCC) 12-24 V DC         |
| 3 | General Purpose I/O (GPIO) 1 - Line 2       |
| 4 | Ground (GND)                                |
| 5 | Flash output with optocoupler (+) - Line 1  |
| 6 | Flash output with optocoupler (-) - Line 1  |
| 7 | Trigger input with optocoupler (-) - Line 0 |
| 8 | General Purpose I/O (GPIO) 2                |



Camera rear view

## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP65/67                     |
| Dimensions H/W/L | 41.0 mm x 53.0 mm x 42.7 mm |
| Mass             | 173 g                       |