

In series

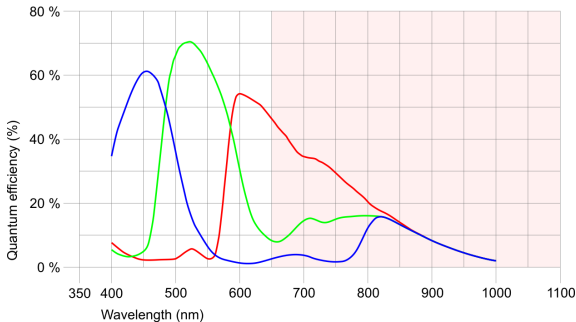
The model is in series and available for the long term.



Specification

Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CMOS Color           |
| Shutter                                 | Global Shutter       |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 2 MP                 |
| Resolution                              | 2.35 Mpix            |
| Resolution (h x v)                      | 1936 x 1216 Pixel    |
| Aspect ratio                            | 16:10                |
| ADC                                     | 12 bit               |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/1.2"               |
| Optical Size                            | 11.345 mm x 7.126 mm |
| Optical sensor diagonal                 | 13.4 mm (1/1.19")    |
| Pixel size                              | 5.86 $\mu$ m         |
| Micro lens shift                        | 0.00                 |
| Manufacturer                            | Sony                 |
| Sensor Model                            | IMX249LQJ-C          |
| Gain (master/RGB)                       | 24x/4x               |
| AOI horizontal                          | same frame rate      |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 96 / 8               |
| AOI image height / step width           | 4 / 2                |
| AOI position grid (horizontal/vertical) | 8 / 2                |
| 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, 6, 8, 16       |



Model

|                                         |                                       |
|-----------------------------------------|---------------------------------------|
| Pixel clock range                       | 30 MHz - 140 MHz                      |
| Frame rate freerun mode (in 8-bit mode) | 47 fps                                |
| Frame rate trigger (continuous)         | 47 fps                                |
| Frame rate trigger (maximum)            | 47 fps                                |
| Exposure time (minimum - maximum)       | 0.030 ms - 999 ms                     |
| Long exposure (maximum)                 | 30000 ms                              |
| Power consumption                       | 1.7 W - 2.9 W                         |
| Image memory                            | 128 MB                                |
| Special features                        | IDS line scan mode<br>Overlap trigger |

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) | 20 % - 80 %                     |

Connectors

|                     |                                           |
|---------------------|-------------------------------------------|
| Interface connector | GigE RJ45, screwable                      |
| 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          | IP30                        |
| Dimensions H/W/L | 34.0 mm x 44.0 mm x 47.0 mm |
| Mass             | 109 g                       |