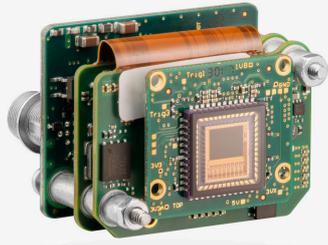


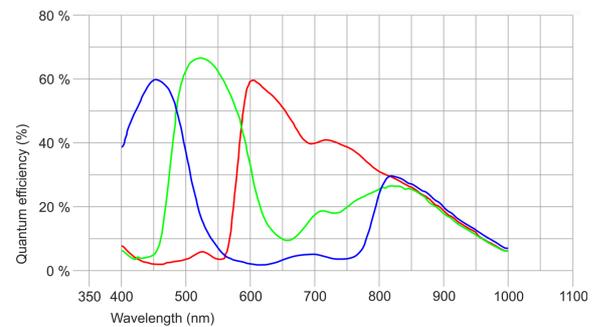
**Discontinued**  
The model has been discontinued.



## Specification

### Sensor

|   |  |
|---|--|
| Sensor type                             | CMOS Color                             |
| Shutter                                 | Rolling shutter / Global Start Shutter |
| Sensor characteristic                   | Linear                                 |
| Readout mode                            | -                                      |
| Pixel Class                             | 2 MP                                   |
| Resolution                              | 2.12 Mpix                              |
| Resolution (h x v)                      | 1936 x 1096 Pixel                      |
| Aspect ratio                            | 16:9                                   |
| ADC                                     | 12 bit                                 |
| Color depth (camera)                    | 12 bit                                 |
| Optical sensor class                    | 1/2.8"                                 |
| Optical Size                            | 5.614 mm x 3.178 mm                    |
| Optical sensor diagonal                 | 6.45 mm 1/2.8"                         |
| Pixel size                              | 2.9 µm                                 |
| Manufacturer                            | Sony                                   |
| Sensor Model                            | IMX290LQR-C                            |
| Gain (master/RGB)                       | 20x/5x                                 |
| AOI horizontal                          | same frame rate                        |
| AOI vertical                            | increased frame rate                   |
| AOI image width / step width            | 32 / 8                                 |
| AOI image height / step width           | 2 / 2                                  |
| AOI position grid (horizontal/vertical) | 4 / 2                                  |
| Binning horizontal                      | -                                      |
| Binning vertical                        | -                                      |
| Binning method                          | -                                      |
| Binning factor                          | -                                      |
| Decimation (subsampling) horizontal     | same frame rate                        |
| Decimation (subsampling) vertical       | same frame rate                        |
| Decimation (subsampling) method         | M/C automatic                          |
| Decimation (subsampling) factor         | 2, 4, 6, 8, 16                         |



### Model

|                                   |  |
|-----------------------------------|--|
| Pixel clock range                 | 20 MHz - 160 MHz                         |
| Frame rate freerun mode           | 53 fps                                   |
| Frame rate trigger (continuous)   | 27 fps                                   |
| Frame rate trigger (maximum)      | 27 fps                                   |
| Exposure time (minimum - maximum) | 0.02 ms - 999 ms                         |
| Long exposure (maximum)           | 120000 ms                                |
| Power consumption                 | 1.3 W - 3.1 W                            |
| Image memory                      | 128 MB                                   |
| Special features                  | IDS line scan mode<br>Sensor source gain |

### Ambient conditions

For PCB versions, refer to the separate hints in the respective documentation.

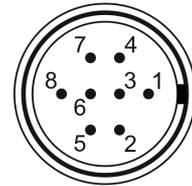
|   |                                 |
|---|---------------------------------|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Allowed device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing)         | 20 % - 80 %                     |

### 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       | No mount                    |
| IP code          | -                           |
| Dimensions H/W/L | 31.5 mm x 40.0 mm x 30.0 mm |
| Mass             | 35 g                        |
| Housing material | -                           |

### Features

List of on-camera image pre-processing features.

All features of the table are available via our IDS peak software for image pre-processing on the host computer (sensor model dependent).

#### Image Acquisition

|                             |   |
|-----------------------------|---|
| Freerun                     | ✓ |
| Software trigger            | - |
| Hardware trigger            | ✓ |
| Trigger controlled exposure | - |
| Denoisier                   | - |
| Long exposure               | ✓ |
| Line scan                   | ✓ |
| Global start                | ✓ |

UI-5862SE-C Rev.4 (AB02585)

|                           |                                |        |
|---------------------------|--------------------------------|--------|
| Flashing                  | Flashing                       | -      |
|                           | PWM flashing                   | -      |
| Image Adjustments         | Auto exposure                  | -      |
|                           | Auto gain                      | -      |
|                           | Auto whitebalance              | -      |
|                           | Color correction               | -      |
|                           | Gamma                          | -      |
|                           | LUT                            | -      |
| On-board Image Processing | Mirror/flip                    | -      |
|                           | Pixel formats                  |        |
|                           | Region of interest             | ✓      |
|                           | Decimation (FPGA)              | -      |
|                           | Decimation (Sensor)            |        |
| Others                    | Binning (FPGA)                 | -      |
|                           | Chunks                         | -      |
|                           | Sequencer                      | -      |
|                           | Firmware update                | -      |
|                           | 1st supported firmware version | 4.90.6 |