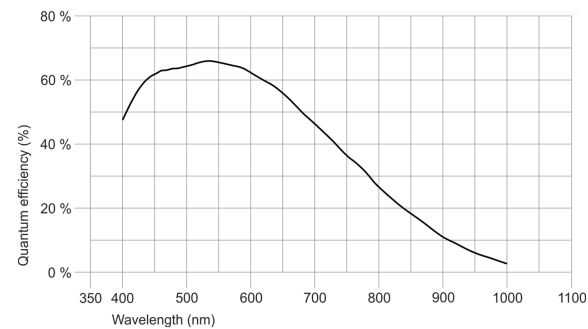


Not recommended for new designs  
The camera model is no longer recommended for new application development.



Specification

|                                         |                                    |
|-----------------------------------------|------------------------------------|
| Sensor                                  |                                    |
| Sensor type                             | CMOS Mono                          |
| Shutter                                 | Global Shutter                     |
| Sensor characteristic                   | Linear                             |
| Pixel Class                             | 3 MP                               |
| Resolution                              | 3.17 Mpix                          |
| Resolution (h x v)                      | 2056 x 1542 Pixel                  |
| Aspect ratio                            | 4:3                                |
| ADC                                     | 12 bit                             |
| Color depth (camera)                    | 12 bit                             |
| Optical sensor class                    | 1/1.8"                             |
| Optical Size                            | 7.093 mm x 5.320 mm                |
| Optical sensor diagonal                 | 8.87 mm 1/1.8"                     |
| Pixel size                              | 3.45 µm                            |
| CRA (Chief Ray Angle)                   | 0 °                                |
| Manufacturer                            | Sony                               |
| Sensor Model                            | IMX265LLR-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                      | -                                  |
| Binning vertical                        | increased frame rate               |
| Binning method                          | Horizontal: - / Vertical: addition |
| Binning factor                          | 2                                  |
| Decimation (subsampling) horizontal     | same frame rate                    |
| Decimation (subsampling) vertical       | increased frame rate               |
| Decimation (subsampling) method         | M/C automatic                      |
| Decimation (subsampling) factor         | 2_4x2_4                            |



### Model

|                                   |                                                             |
|-----------------------------------|-------------------------------------------------------------|
| Pixel clock range                 | 70 MHz - 140 MHz                                            |
| Frame rate freerun mode           | 36 fps                                                      |
| Frame rate trigger (continuous)   | 36 fps                                                      |
| Frame rate trigger (maximum)      | 36 fps                                                      |
| Exposure time (minimum - maximum) | 0.031 ms - 1000 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<br>Sensor source gain |

### Ambient conditions

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

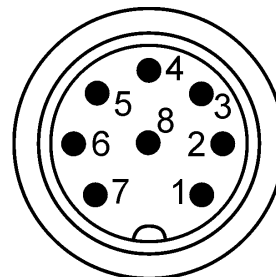
|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Allowed ambient temperature during storage  | -20 °C - 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 (+)  |
| 2 | Input power supply (VCC) 12-24 V DC |
| 3 | General Purpose I/O (GPIO) 1        |
| 4 | Ground (GND)                        |
| 5 | Flash output with optocoupler (+)   |
| 6 | Flash output with optocoupler (-)   |
| 7 | Trigger input with optocoupler (-)  |
| 8 | General Purpose I/O (GPIO) 2        |



### Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP65, IP67                  |
| Dimensions H/W/L | 41.0 mm x 53.0 mm x 42.7 mm |
| Mass             | 175 g                       |
| Housing material | Aluminum                    |

### 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 | - |
| Denoiser                    | - |
| Long exposure               | ✓ |
| Line scan                   | ✓ |

## UI-5270FA-M-GL Rev.1.2 (AB12049)

|                           |                                |             |
|---------------------------|--------------------------------|-------------|
| 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)            | (2,4)x(2,4) |
|                           | Binning (FPGA)                 | -           |
| Others                    | Chunks                         | -           |
|                           | Sequencer                      | -           |
|                           | Firmware update                | -           |
|                           | 1st supported firmware version | 4.96.1      |