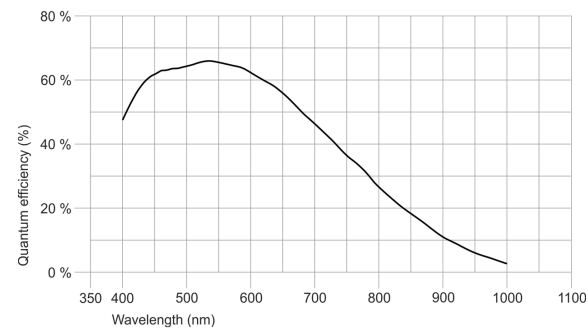


**In series**  
The model is in series and available for the long term.



Specification

|                                         |                                    |
|-----------------------------------------|------------------------------------|
| Sensor                                  |                                    |
| Sensor type                             | CMOS Mono                          |
| Shutter                                 | Global Shutter                     |
| Sensor characteristic                   | Linear                             |
| Pixel Class                             | 3 MP                               |
| Resolution                              | 3.19 Mpix                          |
| Resolution (h x v)                      | 2064 x 1544 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)                       | 25.4x/-                            |
| AOI horizontal                          | same frame rate                    |
| AOI vertical                            | increased frame rate               |
| AOI image width / step width            | 256 / 2                            |
| AOI image height / step width           | 1 / 1                              |
| AOI position grid (horizontal/vertical) | 2 / 1                              |
| Binning horizontal                      | same frame rate                    |
| Binning vertical                        | increased frame rate               |
| Binning method                          | Horizontal: - / Vertical: addition |
| Binning factor                          | -                                  |
| Decimation (subsampling) horizontal     | same frame rate                    |
| Decimation (subsampling) vertical       | increased frame rate               |
| Decimation (subsampling) method         | M/C automatic                      |



## Model

|                                    |                    |
|------------------------------------|--------------------|
| Frame rate freerun mode            | 57 fps             |
| Frame rate trigger (continuous)    | 59 fps             |
| Frame rate trigger (maximum)       | 59 fps             |
| Exposure time (minimum - maximum)  | 0.024 ms - 2000 ms |
| Long exposure (maximum)            | 90000 ms           |
| Line rate freerun mode (line scan) | 2278 1/s           |
| Line rate trigger mode (line scan) | 2458 1/s           |
| Lines per frame (line scan)        | 8000               |
| Power consumption                  | 1.5 W - 3 W        |
| Image memory                       | 128 MB             |

## HDR

|      |           |
|------|-----------|
| Mode | Sequencer |
|------|-----------|

## Ambient conditions

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

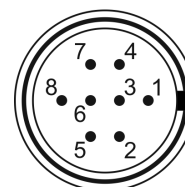
|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Allowed ambient temperature during storage  | -20 °C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

## Connectors

|                     |                                           |
|---------------------|-------------------------------------------|
| Interface connector | USB Type-C, screwable                     |
| I/O connector       | 8-pin Hirose connector (HR25-7TR-8PA(73)) |
| Power supply        | USB cable                                 |

## Pin assignment I/O connector

|   |                                              |
|---|----------------------------------------------|
| 1 | Ground (GND)                                 |
| 2 | Flash output with optocoupler (-) - Line 1   |
| 3 | General Purpose I/O (GPIO) 1, 3.3 V - Line 2 |
| 4 | Trigger input with optocoupler (-) - Line 0  |
| 5 | Flash output with optocoupler (+) - Line 1   |
| 6 | General Purpose I/O (GPIO) 2, 3.3 V - Line 3 |
| 7 | Trigger input with optocoupler (+) - Line 0  |
| 8 | Output supply voltage, 5 V (100 mA)          |



## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 34.0 mm x 44.0 mm x 47.0 mm |
| Mass             | 111 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).

## U3-3270SE-M-GL Rev.1.2 (AB12839)

|                           |                                |                                                 |
|---------------------------|--------------------------------|-------------------------------------------------|
| Image Acquisition         | Freerun                        | ✓                                               |
|                           | Software trigger               | ✓                                               |
|                           | Hardware trigger               | ✓                                               |
|                           | Trigger controlled exposure    | ✓                                               |
|                           | Denoiser                       | ✓                                               |
|                           | Long exposure                  | ✓                                               |
|                           | Line scan                      | ✓                                               |
| Flashing                  | Flashing                       | ✓                                               |
|                           | PWM flashing                   | ✓                                               |
| Image Adjustments         | Auto exposure                  | ✓                                               |
|                           | Auto gain                      | ✓                                               |
|                           | Auto whitebalance              | -                                               |
|                           | Color correction               | -                                               |
|                           | Gamma                          | ✓                                               |
|                           | LUT                            | ✓                                               |
|                           | Mirror/flip                    | X/Y                                             |
| On-board Image Processing | Pixel formats                  | Mono8<br>Mono10<br>Mono10p<br>Mono12<br>Mono12p |
|                           | Region of interest             | ✓                                               |
|                           | Decimation (FPGA)              | ✓                                               |
|                           | Decimation (Sensor)            | 2x2                                             |
|                           | Binning (FPGA)                 | ✓                                               |
|                           | Binning (Sensor)               |                                                 |
| Others                    | Chunks                         | ✓                                               |
|                           | Sequencer                      | ✓                                               |
|                           | Events                         | ✓                                               |
|                           | Firmware update                | ✓                                               |
|                           | 1st supported firmware version | 2.20.17746                                      |