# UI-5290FA-M-GL Rev.1.2 (AB12231)

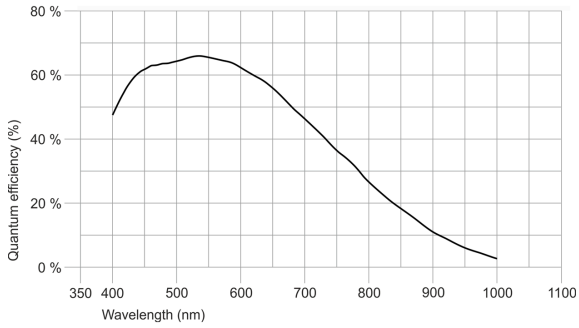
**Not recommended for new designs**
The camera model is no longer recommended for new application development.



## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Mono |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Pixel Class | 9 MP |
| Resolution | 8.92 Mpix |
| Resolution (h x v) | 4104 x 2174 Pixel |
| Aspect ratio | 17:9 |
| ADC | 12 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1" |
| Optical Size | 14.159 mm x 7.500 mm |
| Optical sensor diagonal | 16.02 mm 1" |
| Pixel size | 3.45 µm |
| CRA (Chief Ray Angle) | 0 ° |
| Manufacturer | Sony |
| Sensor Model | IMX267LLR-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) | 8 / 2 |
| Binning horizontal | increased frame rate |
| Binning vertical | increased frame rate |
| Binning method | Horizontal: addition / Vertical: addition |
| Binning factor | 2 |
| Decimation (subsampling) horizontal | same frame rate |
| Decimation (subsampling) vertical | increased frame rate |
| Decimation (subsampling) method | M/C automatic |







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## Model

| | |
|---|---|
| Pixel clock range | 99 MHz - 140 MHz |
| Frame rate freerun mode | 12 fps |
| Frame rate trigger (continuous) | 12 fps |
| Frame rate trigger (maximum) | 12 fps |
| Exposure time (minimum - maximum) | 0.047 ms - 1000 ms |
| Long exposure (maximum) | 30000 ms |
| Power consumption | 1.7 W - 3.1 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.

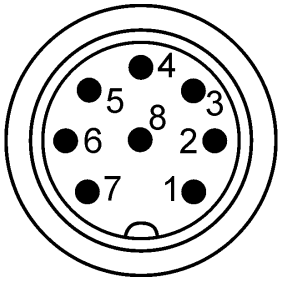
| | |
|---|---|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Allowed ambient temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 0 % - 100 % |

## 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 | 174 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 | ✓ |


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| | | |
|---|---|---|
| Flashing | Flashing | - |
| | PWM flashing | - |
| Image Adjustments | Auto exposure | - |
| | Auto gain | - |
| | Auto whitebalance | - |
| | Color correction | - |
| | Gamma | - |
| | LUT | - |
| | Mirror/flip | - |
| On-board Image Processing | 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 |


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