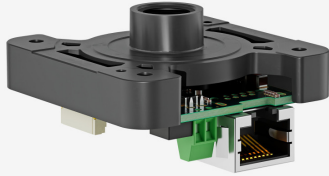
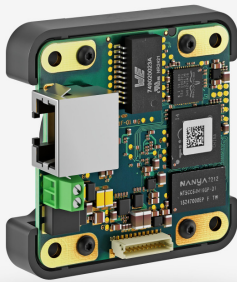
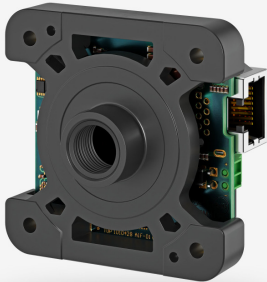


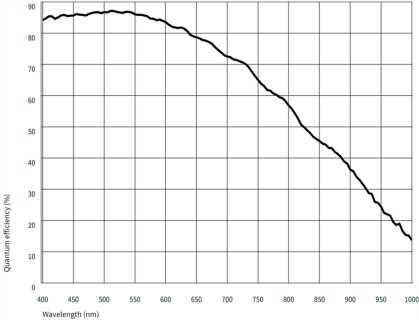
**In series**  
The model is in series and available for the long term.



Specification

Sensor

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
| Sensor type                             | CMOS Mono                         |
| Shutter                                 | Rolling shutter                   |
| Sensor characteristic                   | Linear                            |
| 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                            |
| CRA (Chief Ray Angle)                   | 0 °                               |
| Manufacturer                            | Sony                              |
| Sensor Model                            | IMX662-AAMR-C                     |
| Gain (master/RGB)                       | 31.6x/-                           |
| 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                      | increased frame rate              |
| Binning vertical                        | increased frame rate              |
| Binning method                          | Horizontal: mean / Vertical: mean |
| Binning factor                          | 2x2                               |
| Decimation (subsampling) horizontal     | -                                 |
| Decimation (subsampling) vertical       | -                                 |
| Decimation (subsampling) method         | M/C automatic                     |



### Model

|                                   |                    |
|-----------------------------------|--------------------|
| Frame rate freerun mode           | 59 fps             |
| Frame rate trigger (continuous)   | 59 fps             |
| Frame rate trigger (maximum)      | 61 fps             |
| Exposure time (minimum - maximum) | 0.013 ms - 1999 ms |
| Long exposure (maximum)           | 119978 ms          |
| Power consumption                 | 2.1 W - 3.1 W      |
| Image memory                      | 128 MB             |

### HDR

|      |          |
|------|----------|
| Mode | ClearHDR |
|------|----------|

### Ambient conditions

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

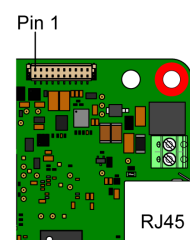
|                                              |                                 |
|----------------------------------------------|---------------------------------|
| Allowed device temperature during operation  | 0 °C - 85 °C / 32 °F - 185 °F   |
| Allowed ambient temperature during operation | 0 °C - 35 °C / 32 °F - 95 °F    |
| Allowed ambient 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       | 10-pin Wuerth connector (WR-WTB 1.00 mm) |
| Power supply        | 12 V - 24 V                              |

### Pin assignment I/O connector

|    |                                                  |
|----|--------------------------------------------------|
| 1  | Power supply (VCC) 12-24 V                       |
| 2  | Power supply, ground                             |
| 3  | General Purpose I/O (GPIO) 2, 3.3 V - Line 3     |
| 4  | General Purpose I/O (GPIO) 1, 3.3 V - Line 2     |
| 5  | I2C SCL (signal clock) 3.3 V                     |
| 6  | I2C SDA (signal data) 3.3 V                      |
| 7  | Trigger input without optocoupler 3.3 V - Line 0 |
| 8  | Flash output without optocoupler 3.3 V - Line 1  |
| 9  | Ground (GND)                                     |
| 10 | Voltage output 3.3 V, max. 100 mA                |



### Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | S-Mount                     |
| IP code          | -                           |
| Dimensions H/W/L | 50.0 mm x 50.0 mm x 28.5 mm |
| Mass             | 30 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).

## GV-58C1LE-M Rev.2 (1010868)

|                           |                                |                                                 |
|---------------------------|--------------------------------|-------------------------------------------------|
| Image Acquisition         | Freerun                        | ✓                                               |
|                           | Software trigger               | ✓                                               |
|                           | Hardware trigger               | ✓                                               |
|                           | Trigger controlled exposure    | -                                               |
|                           | Denoiser                       | ✓                                               |
|                           | Long exposure                  | ✓                                               |
|                           | Line scan                      | -                                               |
|                           | Global start                   | -                                               |
| 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)            |                                                 |
|                           | Binning (FPGA)                 | -                                               |
|                           | Binning (Sensor)               | 2x2<br>Increases frame rate.                    |
| Others                    | IP settings                    | ✓                                               |
|                           | Bandwidth management           | ✓                                               |
|                           | Chunks                         | -                                               |
|                           | Sequencer                      | -                                               |
|                           | PTP                            | ✓                                               |
|                           | Firmware update                | ✓                                               |
|                           | 1st supported firmware version | 3.42.23043                                      |