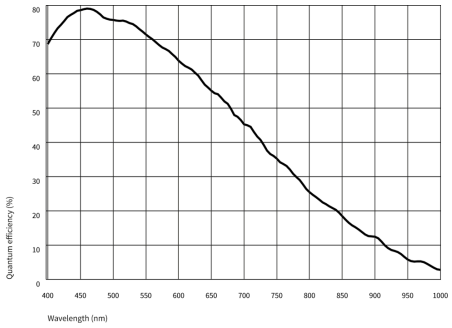
# GV-79L0WP-M-GL (1008244)

**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 | 12 MP |
| Resolution | 12.42 Mpix |
| Resolution (h x v) | 4128 x 3008 Pixel |
| Aspect ratio | 4:3 |
| ADC | 12 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1/1.1" |
| Optical Size | 11.223 mm x 8.220 mm |
| Optical sensor diagonal | 13.91 mm 1/1.1" |
| Pixel size | 2.74 µm |
| Manufacturer | Sony |
| Sensor Model | IMX535-AAMJ-C |
| Gain (master/RGB) | 16x/- |
| 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 | M/C automatic |
| Binning factor | 2x2 |
| Decimation (subsampling) horizontal | increased frame rate |
| Decimation (subsampling) vertical | increased frame rate |
| Decimation (subsampling) method | M/C automatic |
| Decimation (subsampling) factor | 2x2 |





IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

## Model

| | |
|---|---|
| Frame rate freerun mode | 100 fps |
| Frame rate trigger (continuous) | 100 fps |
| Frame rate trigger (maximum) | 112 fps |
| Exposure time (minimum - maximum) | 0.0079 ms - 2000 ms |
| Long exposure (maximum) | 120000 ms |
| Power consumption | 9.2 W - 15.4 W |
| Image memory | 2032 MB |

## Ambient conditions

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

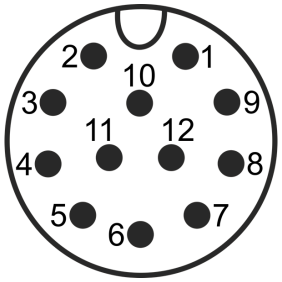
| | |
|---|---|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Allowed ambient temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

## Connectors

| | |
|---|---|
| Interface connector | GigE RJ45, screwable |
| I/O connector | 12-pin M12 connector (Attend 216A-12MSR) |
| Power supply | 12 V - 24 V or PoE+ |

## Pin assignment I/O connector

| | |
|---|---|
| 1 | Power supply, 12-24 V DC |
| 2 | Power supply, ground |
| 3 | (Trigger) input 0 with optocoupler - Line0 |
| 4 | Reference level for all optocoupler outputs |
| 5 | Reference level for all optocoupler inputs |
| 6 | (Trigger) input 1 with optocoupler - Line1 |
| 7 | (Flash) output 1 with optocoupler - Line4 |
| 8 | Fast (flash) output 2 with optocoupler - Line5 |
| 9 | Power supply for fast (flash) outputs, 3-5 V DC |
| 10 | Fast (flash) output 3 with optocoupler - Line6 |
| 11 | (Trigger) input 2 with optocoupler - Line2 |
| 12 | (Flash) output 0 with optocoupler - Line3 |




## Design

| | |
|---|---|
| Lens Mount | C-Mount |
| IP code | IP30 |
| Dimensions H/W/L | 60.0 mm x 75.0 mm x 94.5 mm |
| Mass | 550 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 | ✓ |


IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com

## GV-79L0WP-M-GL (1008244)

| | | |
|---|---|---|
| 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) | 2x2<br>Increases frame rate. |
| Others | IP settings | ✓ |
| | Bandwidth management | ✓ |
| | Chunks | ✓ |
| | Sequencer | - |
| | PTP | ✓ |
| | Firmware update | ✓ |
| | 1st supported firmware version | 3.6 |


IDS Imaging Development Systems GmbH
Dimbacher Str. 10 · 74182 Obersulm · Germany · Phone +49 7134 96196-0 · E-mail info@ids-imaging.com