

GV-5480FA-M-GL (AB02329)

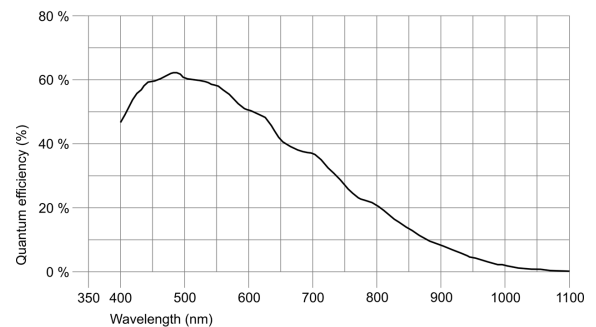


## Specification

**- PRELIMINARY -**

### Sensor

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Sensor type                             | CMOS Mono                              |
| Shutter                                 | Rolling shutter / Global Start Shutter |
| Sensor characteristic                   | Linear                                 |
| Readout mode                            | Progressive scan                       |
| Pixel Class                             | QSXGA                                  |
| Resolution                              | 4.92 Mpix                              |
| Resolution (h x v)                      | 2560 x 1920 Pixel                      |
| Aspect ratio                            | 4:3                                    |
| ADC                                     | 12 bit                                 |
| Color depth (camera)                    | 12 bit                                 |
| Optical sensor class                    | 1/2"                                   |
| Optical Size                            | 5.632 mm x 4.224 mm                    |
| Optical sensor diagonal                 | 7.04 mm (1/2.27")                      |
| Pixel size                              | 2.2 µm                                 |
| Manufacturer                            | ON Semiconductor                       |
| Sensor Model                            | MT9P031STM                             |
| Gain (master/RGB)                       | 30x/-                                  |
| AOI horizontal                          | increased frame rate                   |
| AOI vertical                            | increased frame rate                   |
| AOI image width / step width            | 32 / 4                                 |
| AOI image height / step width           | 4 / 2                                  |
| AOI position grid (horizontal/vertical) | 4 / 2                                  |
| Binning horizontal                      | -                                      |
| Binning vertical                        | -                                      |
| Binning method                          | -                                      |
| Binning factor                          | -                                      |
| Subsampling horizontal                  | increased frame rate                   |
| Subsampling vertical                    | increased frame rate                   |
| Subsampling method                      | Color                                  |
| Subsampling factor                      | 2, 4, 6                                |



Subject to technical modifications (2018-06-04)

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### Model

|                                   |                   |
|-----------------------------------|-------------------|
| Pixel clock range                 | 70 MHz - 104 MHz  |
| Frame rate freerun mode           | 15                |
| Frame rate trigger (continuous)   | 15                |
| Frame rate trigger (maximum)      | 15                |
| Exposure time (minimum - maximum) | 0.030 ms - 131 ms |
| Power consumption                 | 1.7 W - 2.5 W     |
| Image memory                      | 128 MB            |

### Ambient conditions

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

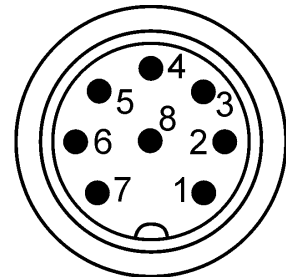
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (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        |



Camera rear view

### Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP65/67                     |
| Dimensions H/W/L | 41.0 mm x 53.0 mm x 42.7 mm |
| Mass             | 172.5 g                     |