

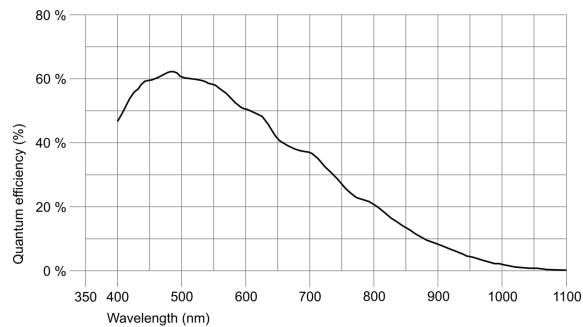
Discontinued  
The model has been discontinued.



Specification

Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CMOS Mono            |
| Shutter                                 | Rolling shutter      |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 5 MP                 |
| 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                    | 1/2.5"               |
| Optical Size                            | 5.632 mm x 4.224 mm  |
| Optical sensor diagonal                 | 7.04 mm (1/2.27")    |
| Pixel size                              | 2.2 µm               |
| Manufacturer                            | Onsemi               |
| Sensor Model                            | MT9P031STM           |
| Gain (master/RGB)                       | 30x/-                |
| AOI horizontal                          | increased frame rate |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 16 / 4               |
| AOI image height / step width           | 1 / 1                |
| AOI position grid (horizontal/vertical) | 4 / 1                |
| Binning horizontal                      | same frame rate      |
| Binning vertical                        | same frame rate      |
| Binning method                          | M/C automatic        |
| Binning factor                          | 2 / 4 / 8            |
| Subsampling horizontal                  | same frame rate      |
| Subsampling vertical                    | same frame rate      |
| Subsampling method                      | M/C automatic        |
| Subsampling factor                      | 2, 4, 8              |



## Model

|                                   |                   |
|-----------------------------------|-------------------|
| 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                 | 1.8 W - 2.8 W     |
| Image memory                      | 128 MB            |

## Ambient conditions

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

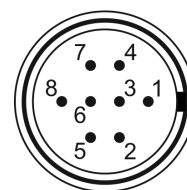
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity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

## Connectors

|                     |                                           |
|---------------------|-------------------------------------------|
| Interface connector | GigE RJ45, screwable                      |
| I/O connector       | 8-pin Hirose connector (HR25-7TR-8PA(73)) |
| Power supply        | 12 V - 24 V or PoE                        |

## Pin assignment I/O connector

|   |                                             |
|---|---------------------------------------------|
| 1 | Ground (GND)                                |
| 2 | Flash output with optocoupler (-) - Line 1  |
| 3 | General Purpose I/O (GPIO) 1 - Line 2       |
| 4 | Trigger input with optocoupler (-) - Line 0 |
| 5 | Flash output with optocoupler (+) - Line 1  |
| 6 | General Purpose I/O (GPIO) 2                |
| 7 | Trigger input with optocoupler (+) - Line 0 |
| 8 | Input power supply (VCC) 12-24 V DC         |



Camera rear view

## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 29.0 mm x 29.0 mm x 29.0 mm |
| Mass             | 51 g                        |