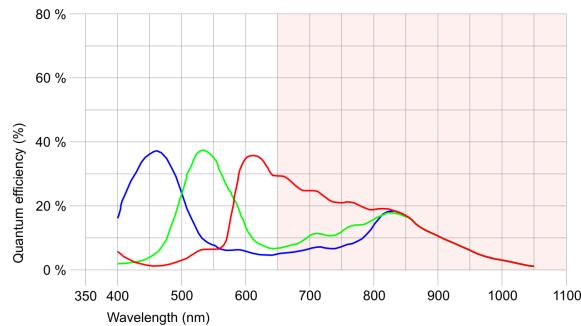


Discontinued  
The model has been discontinued.



Specification

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CMOS Color           |
| Shutter                                 | Rolling shutter      |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 1.9 MP               |
| Resolution                              | 1.92 Mpix            |
| Resolution (h x v)                      | 1600 x 1200 Pixel    |
| Aspect ratio                            | 4:3                  |
| ADC                                     | 8 bit                |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/3"                 |
| Optical Size                            | 4.480 mm x 3.360 mm  |
| Optical sensor diagonal                 | 5.6 mm (1/2.86")     |
| Pixel size                              | 2.8 µm               |
| Manufacturer                            | Onsemi               |
| Sensor Model                            | MT9D131STC           |
| Gain (master/RGB)                       | 5.8x/3.1x            |
| 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                      | increased frame rate |
| Binning vertical                        | increased frame rate |
| Binning method                          | Color                |
| Binning factor                          | 2                    |
| Subsampling horizontal                  | increased frame rate |
| Subsampling vertical                    | increased frame rate |
| Subsampling method                      | Color                |
| Subsampling factor                      | 2, 4, 8, 16          |



## Model

|                                   |                     |
|-----------------------------------|---------------------|
| Pixel clock range                 | 3 MHz - 56 MHz      |
| Frame rate freerun mode           | 23                  |
| Frame rate trigger (maximum)      | 23                  |
| Exposure time (minimum - maximum) | 0.029 ms - 21376 ms |
| Power consumption                 | 2.4 W - 3.4 W       |
| Image memory                      | 60 MB               |

## Ambient conditions

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

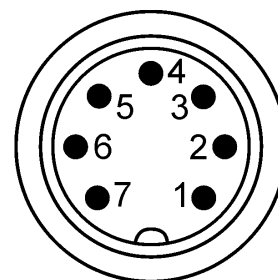
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity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

## Connectors

|                     |                                                            |
|---------------------|------------------------------------------------------------|
| Interface connector | GigE RJ45, screwable                                       |
| I/O connector       | 7-pin Binder connector (Binder series 712: 09-0423-020-07) |
| Power supply        | 12 V - 24 V                                                |

## Pin assignment I/O connector

|   |                                    |
|---|------------------------------------|
| 1 | Trigger input with optocoupler (+) |
| 2 | Power supply (VCC)                 |
| 3 | Shielding                          |
| 4 | Ground (GND)                       |
| 5 | Flash output with optocoupler (+)  |
| 6 | Flash output with optocoupler (-)  |
| 7 | Trigger input with optocoupler (-) |



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             | 175 g                       |

