

**In series**

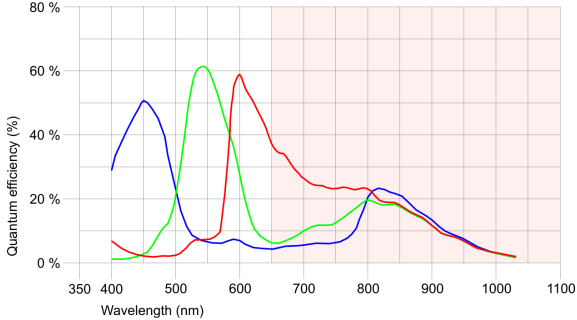
The model is in series and available for the long term.



Specification

Sensor

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Sensor type                             | CMOS Color                             |
| Shutter                                 | Rolling shutter / Global Start 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                                 |
| Micro lens shift                        | 7.00                                   |
| Manufacturer                            | Onsemi                                 |
| Sensor Model                            | MT9P006STC                             |
| Gain (master/RGB)                       | 12.2x/5.8x                             |
| 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 / 3 / 4 / 6                          |
| Subsampling horizontal                  | increased frame rate                   |
| Subsampling vertical                    | increased frame rate                   |
| Subsampling method                      | Color                                  |
| Subsampling factor                      | 2, 3, 4, 5, 6, 8                       |



Model

|                                         |                    |
|-----------------------------------------|--------------------|
| Pixel clock range                       | 5 MHz - 104 MHz    |
| Frame rate freerun mode (in 8-bit mode) | 15 fps             |
| Frame rate trigger (maximum)            | 15 fps             |
| Exposure time (minimum - maximum)       | 0.031 ms - 2745 ms |
| Power consumption                       | 1.3 W - 2.2 W      |
| Image memory                            | 128 MB             |

Ambient conditions

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

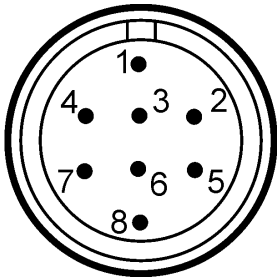
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity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

Connectors

|                     |                                           |
|---------------------|-------------------------------------------|
| Interface connector | USB 3.0 micro-B, screwable                |
| I/O connector       | 8-pin Hirose connector (HR25-7TR-8PA(73)) |
| Power supply        | USB cable                                 |

Pin assignment I/O connector

|   |                                     |
|---|-------------------------------------|
| 1 | Ground (GND)                        |
| 2 | Flash output with optocoupler (-)   |
| 3 | General Purpose I/O (GPIO) 1        |
| 4 | Trigger input with optocoupler (-)  |
| 5 | Flash output with optocoupler (+)   |
| 6 | General Purpose I/O (GPIO) 2        |
| 7 | Trigger input with optocoupler (+)  |
| 8 | Output supply voltage, 5 V (100 mA) |



Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 29.0 mm x 29.0 mm x 29.0 mm |
| Mass             | 49 g                        |