

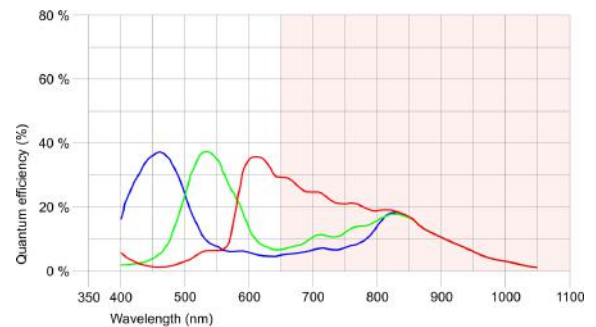
UI-1550LE-C-HQ (AB.0010.1.28600.00)



## Specification

### Sensor

|   |                      |
|---|----------------------|
| Sensor type                             | CMOS Color           |
| Shutter                                 | Rolling shutter      |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | UXGA                 |
| Resolution                              | 1.92 Mpix            |
| Resolution (h x v)                      | 1600 x 1200 Pixel    |
| Aspect ratio                            | 4:3                  |
| ADC                                     | 8 bit                |
| Color depth (camera)                    | 8 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                            | ON Semiconductor     |
| 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                 | 5 MHz - 43 MHz      |
| Frame rate freerun mode           | 18                  |
| Frame rate trigger (maximum)      | 18                  |
| Exposure time (minimum - maximum) | 0.038 ms - 12826 ms |
| Power consumption                 | 0.5 W - 1.1 W       |

## 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 - 80 °C / -4 °F - 176 °F |
| Humidity (relative, non-condensing) | 20 % - 80 %                     |

## Connectors

|                     |                |
|---------------------|----------------|
| Interface connector | USB 2.0 mini-B |
| I/O connector       | -              |
| Power supply        | USB cable      |

## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | CS- / C-Mount               |
| IP code          | IP30                        |
| Dimensions H/W/L | 48.6 mm x 44.0 mm x 25.6 mm |
| Mass             | 41 g                        |

