

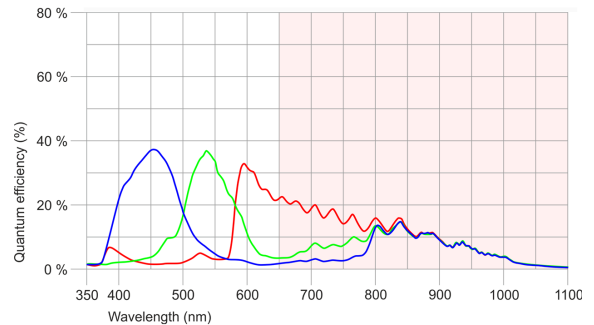
■ Not recommended for new designs
The camera model is no longer recommended for new application development.



Specification

Sensor

| | |
|---|---------------------|
| Sensor type | CMOS Color |
| Shutter | Rolling shutter |
| Sensor characteristic | Linear |
| Readout mode | Progressive scan |
| Pixel Class | 5 MP |
| Resolution | 5.04 Mpix |
| Resolution (h x v) | 2592 x 1944 Pixel |
| Aspect ratio | 4:3 |
| ADC | 10 bit |
| Color depth (camera) | 8 bit |
| Optical sensor class | 1/4" |
| Optical Size | 3.629 mm x 2.722 mm |
| Optical sensor diagonal | 4.54 mm (1/3.53") |
| Pixel size | 1.4 μm |
| Manufacturer | OmniVision |
| Sensor Model | OV5640 |
| Gain (master/RGB) | 6.6x/- |
| AOI horizontal | - |
| AOI vertical | - |
| AOI image width / step width | - / - |
| AOI image height / step width | - / - |
| AOI position grid (horizontal/vertical) | - / - |
| Binning horizontal | - |
| Binning vertical | - |
| Binning method | - |
| Binning factor | - |
| Subsampling horizontal | - |
| Subsampling vertical | - |
| Subsampling method | - |
| Subsampling factor | - |



Model

| | |
|-----------------------------------|--------------------|
| Pixel clock range | 9 MHz - 35 MHz |
| Frame rate freerun mode | 15 |
| Frame rate trigger (maximum) | - |
| Exposure time (minimum - maximum) | 0.126 ms - 1170 ms |
| Power consumption | 1 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 - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 90 % |

Connectors

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

Design

| | |
|------------------|-----------------------------|
| Lens Mount | - |
| IP code | IP30 |
| Dimensions H/W/L | 26.5 mm x 23.0 mm x 21.5 mm |
| Mass | 12 g |