

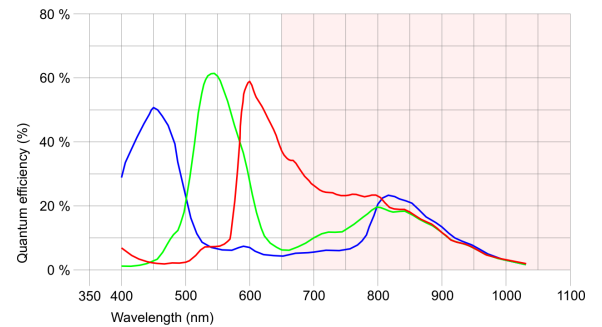
Discontinued
The model has been discontinued.



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) | 8 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 | 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 |
| Decimation (subsampling) horizontal | increased frame rate |
| Decimation (subsampling) vertical | increased frame rate |
| Decimation (subsampling) Modes | Color |
| Decimation (subsampling) factor | 2, 3, 4, 5, 6 |



Subject to technical modifications (2024-11-22)

Model

| | |
|-----------------------------------|--------------------|
| Pixel clock range | 5 MHz - 43 MHz |
| Frame rate freerun mode | 6.3 fps |
| Frame rate trigger (maximum) | 6.4 fps |
| Exposure time (minimum - maximum) | 0.075 ms - 2745 ms |
| Power consumption | 0.5 W - 0.9 W |

Ambient conditions

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

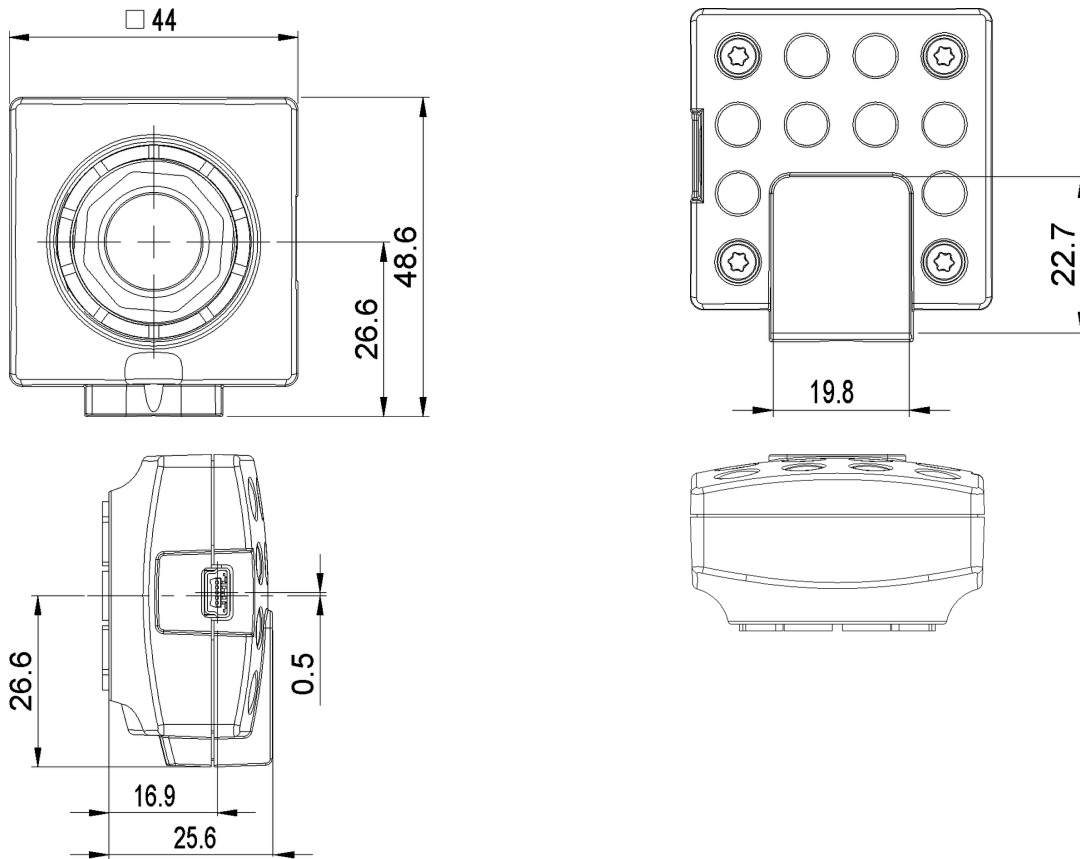
| | |
|---|---------------------------------|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Allowed device temperature during storage | -20 °C - 80 °C / -4 °F - 176 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

Connectors

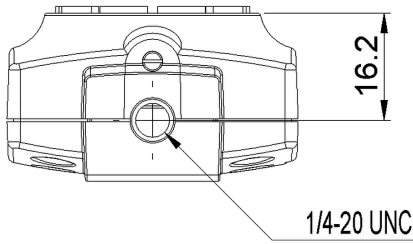
| | |
|---------------------|----------------|
| Interface connector | USB 2.0 mini-B |
| I/O connector | - |
| Power supply | USB cable |

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 |



Subject to technical modifications (2024-11-22)



Features

| | | |
|---------------------------|--------------------------------|------|
| Image Acquisition | Freerun | ✓ |
| | Software trigger | - |
| | Hardware trigger | ✓ |
| | Trigger controlled exposure | - |
| | Denoisier | - |
| | Long exposure | - |
| | Line scan | - |
| | Line scan highspeed | - |
| Global start | ✓ | |
| Flashing | Flashing | - |
| | PWM flashing | - |
| Image Adjustments | Auto exposure | - |
| | Auto gain | - |
| | Auto whitebalance | - |
| | Color correction | - |
| | Gamma | - |
| | LUT | - |
| | Mirror/flip | - |
| On-board Image Processing | Pixel formats | - |
| | Region of interest | ✓ |
| | Decimation (FPGA) | - |
| | Decimation (Sensor) | - |
| | Binning (FPGA) | - |
| Others | Chunks | - |
| | Sequencer | - |
| | Firmware update | - |
| | 1st supported firmware version | 4.00 |