# UI-3580CP-C-HQ Rev.2 (AB00521)

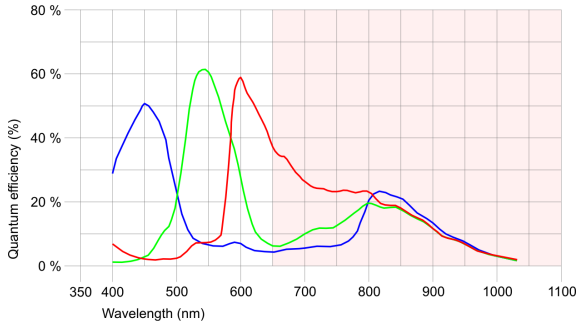
**Discontinued**
The model has been discontinued.



## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Color |
| Shutter | Rolling shutter / Global Start Shutter |
| Sensor characteristic | Linear |
| 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" |
| Optical Size | 5.632 mm x 4.224 mm |
| Optical sensor diagonal | 7.04 mm (1/2.27") |
| Pixel size | 2.2 µm |
| CRA (Chief Ray Angle) | 7 ° |
| 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 | Horizontal: addition / Vertical: mean |
| Binning factor | 2 / 3 / 4 / 6 |
| Decimation (subsampling) horizontal | increased frame rate |
| Decimation (subsampling) vertical | increased frame rate |
| Decimation (subsampling) method | Color |







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## Model

| | |
|---|---|
| Pixel clock range | 5 MHz - 104 MHz |
| Frame rate freerun 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.

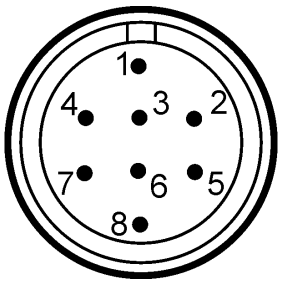
| | |
|---|---|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Allowed ambient temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

## 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 |
| Housing material | Magnesium / stainless steel |

## Features

List of on-camera image pre-processing features.
All features of the table are available via our IDS peak software for image pre-processing on the host computer (sensor model dependent).

| | | |
|---|---|---|
| Image Acquisition | Freerun | ✓ |
| | Software trigger | - |
| | Hardware trigger | ✓ |
| | Trigger controlled exposure | - |
| | Denoiser | - |
| | Long exposure | - |
| | Line scan | - |
| | Global start | ✓ |
| Flashing | Flashing | - |
| | PWM flashing | - |


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| | | |
|---|---|---|
| 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 | 4.80 |



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