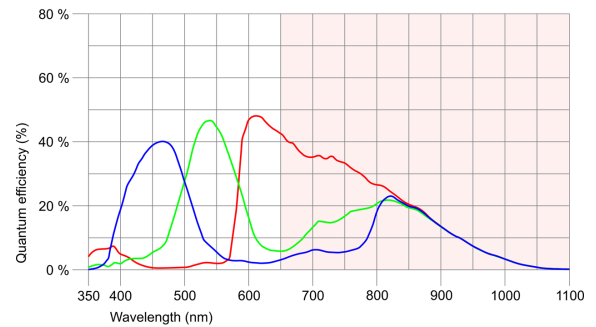




Specification

Sensor

| | |
|---|----------------------|
| Sensor type | CMOS Color |
| Shutter | Global Shutter |
| Sensor characteristic | Linear |
| Readout mode | Progressive scan |
| Pixel Class | SXGA |
| Resolution | 1.31 Mpix |
| Resolution (h x v) | 1280 x 1024 Pixel |
| Aspect ratio | 5:4 |
| ADC | 10 bit |
| Color depth (camera) | 12 bit |
| Optical sensor class | 1/2" |
| Optical Size | 6.144 mm x 4.915 mm |
| Optical sensor diagonal | 7.87 mm (1/2.03") |
| Pixel size | 4.8 μ m |
| Manufacturer | ON Semiconductor |
| Sensor Model | NOIP1SE1300A-QDI |
| Gain (master/RGB) | 4x/4x |
| AOI horizontal | increased frame rate |
| AOI vertical | increased frame rate |
| AOI image width / step width | 120 / 8 |
| AOI image height / step width | 2 / 2 |
| AOI position grid (horizontal/vertical) | 8 / 2 |
| Binning horizontal | - |
| Binning vertical | - |
| Binning method | - |
| Binning factor | - |
| Subsampling horizontal | increased frame rate |
| Subsampling vertical | increased frame rate |
| Subsampling method | M/C automatic |
| Subsampling factor | 2 |



UI-3140CP-C-HQ Rev.2

Model

| | |
|-----------------------------------|--|
| Pixel clock range | 120 MHz - 320 MHz |
| Frame rate freerun mode | 224.0 fps |
| Frame rate trigger (continuous) | 224.0 fps |
| Frame rate trigger (maximum) | 224.0 fps |
| Exposure time (minimum - maximum) | 0.035 ms - 434 ms |
| Long exposure (maximum) | 5000 ms |
| Power consumption | 1.3 W - 2 W |
| Image memory | 128 MB |
| Special features | Triggered linescan mode, Sensor source gain, Multi-AOI |

Ambient conditions

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

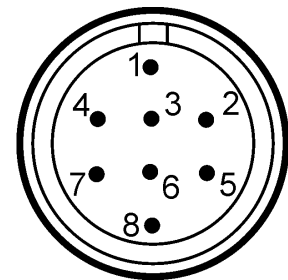
| | |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Device temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

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 | 52 g |

