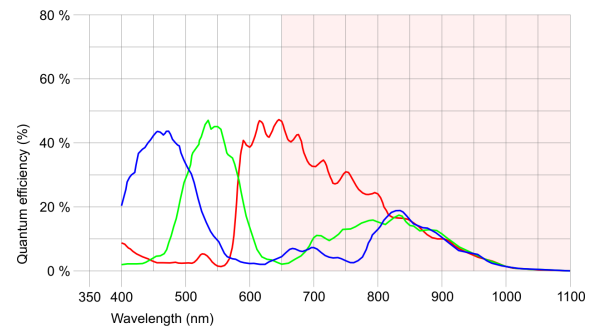




## Specification

### Sensor

|                                         |                         |
|-----------------------------------------|-------------------------|
| Sensor type                             | CMOS Color              |
| Shutter                                 | Global Shutter          |
| Sensor characteristic                   | Linear with knee points |
| Readout mode                            | Progressive scan        |
| Pixel Class                             | 4 MP                    |
| Resolution                              | 4.19 Mpix               |
| Resolution (h x v)                      | 2048 x 2048 Pixel       |
| Aspect ratio                            | 1:1                     |
| ADC                                     | 12 bit                  |
| Color depth (camera)                    | 12 bit                  |
| Sensor Size                             | 1"                      |
| Optical Size                            | 11.264 mm x 11.264 mm   |
| Optical sensor diagonal                 | 15.93 mm (1/1")         |
| Pixel size                              | 5.5 µm                  |
| Manufacturer                            | CMOSIS                  |
| Sensor Model                            | CMV4000-3E5C1PP         |
| Gain (master/RGB)                       | 4x/4x                   |
| AOI horizontal                          | same frame rate         |
| AOI vertical                            | increased frame rate    |
| AOI image width / step width            | 16 / 4                  |
| AOI image height / step width           | 48 / 2                  |
| AOI position grid (horizontal/vertical) | 2 / 2                   |
| Binning horizontal                      | -                       |
| Binning vertical                        | -                       |
| Binning method                          | -                       |
| Binning factor                          | -                       |
| Subsampling horizontal                  | same frame rate         |
| Subsampling vertical                    | same frame rate         |
| Subsampling method                      | M/C automatic           |
| Subsampling factor                      | 2, 4, 6, 8              |



## UI-3370CP-C-HQ Rev.2

### Model

|                                   |                                                                        |
|-----------------------------------|------------------------------------------------------------------------|
| Pixel clock range                 | 38 MHz - 320 MHz                                                       |
| Frame rate freerun mode           | 75.3 fps                                                               |
| Frame rate trigger                | 75.3 fps                                                               |
| Exposure time (minimum - maximum) | 0.041 ms - 500 ms                                                      |
| Power consumption                 | 1.5 W - 2.7 W                                                          |
| Special features                  | Overlap trigger,<br>Dual exposure,<br>Sensor source gain,<br>Multi-AOI |

### Ambient conditions

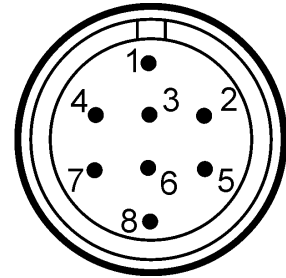
|                     |                                 |
|---------------------|---------------------------------|
| Ambient temperature | 0 °C - 40 °C / 32 °F - 104 °F   |
| Storage temperature | -20 °C - 60 °C / -4 °F - 140 °F |
| Relative humidity   | 20 % - 80 %                     |

### 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                        |

