

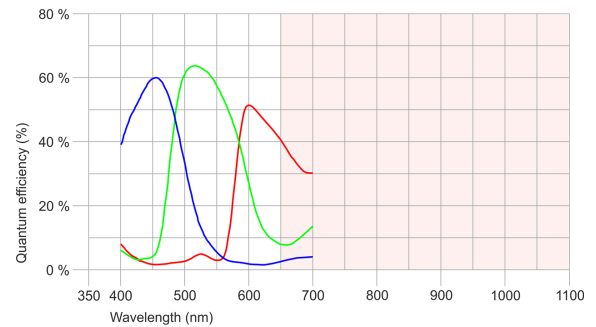
## U3-3880SE-C-HQ (AB02800)



## Specification

### Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CMOS Color           |
| Shutter                                 | Rolling shutter      |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 6 MP                 |
| Resolution                              | 6.41 Mpix            |
| Resolution (h x v)                      | 3088 x 2076 Pixel    |
| Aspect ratio                            | 3:2                  |
| ADC                                     | 12 bit               |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/1.8"               |
| Optical Size                            | 7.411 mm x 4.982 mm  |
| Optical sensor diagonal                 | 8.93 mm (1/1.79")    |
| Pixel size                              | 2.4 µm               |
| Manufacturer                            | Sony                 |
| Sensor Model                            | IMX178LQJ-C          |
| Gain (master/RGB)                       | 14.5x/5x             |
| AOI horizontal                          | same frame rate      |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 88 / 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                  | same frame rate      |
| Subsampling vertical                    | same frame rate      |
| Subsampling method                      | M/C automatic        |
| Subsampling factor                      | 2, 4, 8              |



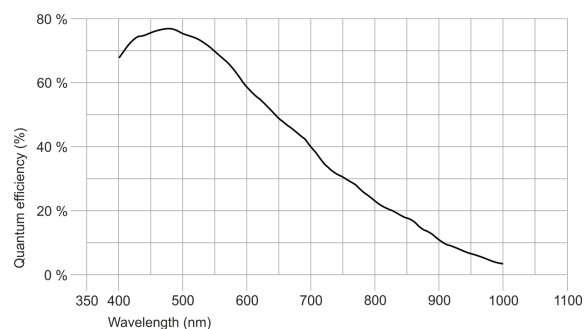
## U3-3880SE-M-GL (AB02801)



## Specification

### Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CMOS Mono            |
| Shutter                                 | Rolling shutter      |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 6 MP                 |
| Resolution                              | 6.41 Mpix            |
| Resolution (h x v)                      | 3088 x 2076 Pixel    |
| Aspect ratio                            | 3:2                  |
| ADC                                     | 12 bit               |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/1.8"               |
| Optical Size                            | 7.411 mm x 4.982 mm  |
| Optical sensor diagonal                 | 8.93 mm (1/1.79")    |
| Pixel size                              | 2.4 µm               |
| Manufacturer                            | Sony                 |
| Sensor Model                            | IMX178LLJ-C          |
| Gain (master/RGB)                       | 14.5x/5x             |
| AOI horizontal                          | same frame rate      |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 88 / 8               |
| AOI image height / step width           | 1 / 1                |
| AOI position grid (horizontal/vertical) | 8 / 1                |
| 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, 8              |



## U3-3880SE-M-GL (AB02801)

### Model

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| Frame rate freerun mode           | 59                                        |
| Frame rate trigger (continuous)   | 29                                        |
| Frame rate trigger (maximum)      | 29                                        |
| Exposure time (minimum - maximum) | 0.013 ms - 2000 ms                        |
| Power consumption                 | 1.7 W - 3.2 W                             |
| Image memory                      | 128 MB                                    |
| Special features                  | IDS line scan mode,<br>Sensor source gain |

### Ambient conditions

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

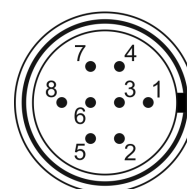
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity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

### Connectors

|                     |                                           |
|---------------------|-------------------------------------------|
| Interface connector | USB Type-C, 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, 3.3 V         |
| 4 | Trigger input with optocoupler (-)          |
| 5 | Flash output with optocoupler (+)           |
| 6 | General Purpose I/O (GPIO) 2, 3.3 V         |
| 7 | Trigger input with optocoupler (+)          |
| 8 | Voltage output (USB Power Delivery), 5-15 V |



Camera rear view

### Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 34.0 mm x 44.0 mm x 47.0 mm |
| Mass             | 110 g                       |