

■ In series

The model is in series and available for the long term.

uEye+

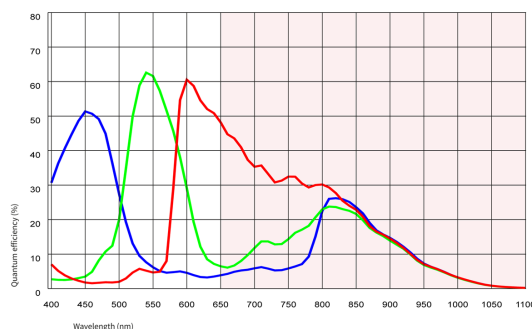
US3  
VISION

■ Made  
■ in  
■ Germany

## Specification

### Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CMOS Color           |
| Shutter                                 | Global Shutter       |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 2 MP                 |
| Resolution                              | 2.30 Mpix            |
| Resolution (h x v)                      | 1920 x 1200 Pixel    |
| Aspect ratio                            | 16:10                |
| ADC                                     | 10 bit               |
| Color depth (camera)                    | 10 bit               |
| Optical sensor class                    | 1/3"                 |
| Optical Size                            | 5.760 mm x 3.600 mm  |
| Optical sensor diagonal                 | 6.79 mm (1/2.36")    |
| Pixel size                              | 3 µm                 |
| Manufacturer                            | Onsemi               |
| Sensor Model                            | AR0234CS-RGB         |
| Gain (master/RGB)                       | 16x/8x               |
| AOI horizontal                          | same frame rate      |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 288 / 12             |
| AOI image height / step width           | 4 / 2                |
| AOI position grid (horizontal/vertical) | 4 / 2                |
| Binning horizontal                      | -                    |
| Binning vertical                        | -                    |
| Binning method                          | -                    |
| Binning factor                          | -                    |
| Subsampling horizontal                  | same frame rate      |
| Subsampling vertical                    | increased frame rate |
| Subsampling method                      | M/C automatic        |
| Subsampling factor                      | 2, 4                 |



## Model

|                                   |                    |
|-----------------------------------|--------------------|
| Frame rate freerun mode           | 73                 |
| Frame rate trigger (continuous)   | 72                 |
| Frame rate trigger (maximum)      | 72                 |
| Exposure time (minimum - maximum) | 0.018 ms - 2000 ms |
| Power consumption                 | 0.5 W - 1 W        |

## Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.  
For PCB versions, refer to the separate hints in the respective documentation.

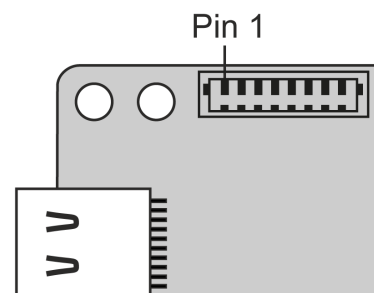
|                                     |                                 |
|-------------------------------------|---------------------------------|
| Device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Device temperature during storage   | -20 °C - 80 °C / -4 °F - 176 °F |
| Humidity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

## Connectors

|                     |                 |
|---------------------|-----------------|
| Interface connector | USB Type-C      |
| I/O connector       | 8-pin connector |
| Power supply        | USB cable       |

## Pin assignment I/O connector

|   |                                            |
|---|--------------------------------------------|
| 1 | Voltage output 3.3 V                       |
| 2 | Ground (GND)                               |
| 3 | Flash output without optocoupler - Line 1  |
| 4 | Trigger input without optocoupler - Line 0 |
| 5 | not connected                              |
| 6 | not connected                              |
| 7 | Ground (GND)                               |
| 8 | USB Power: 5 V, max. 400 mA                |



Camera rear view

## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | CS- / C-Mount               |
| IP code          | -                           |
| Dimensions H/W/L | 36.0 mm x 36.0 mm x 20.0 mm |
| Mass             | 18 g                        |