

**In series**

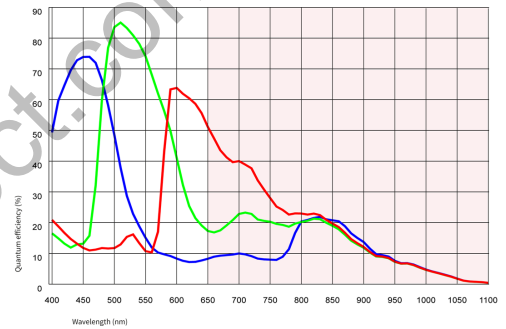
The model is in series and available for the long term.



**Specification**

**Sensor**

|   |                      |
|---|----------------------|
| Sensor type                             | CMOS Color           |
| Shutter                                 | Rolling shutter      |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 5 MP                 |
| Resolution                              | 5.04 Mpix            |
| Resolution (h x v)                      | 2592 x 1944 Pixel    |
| Aspect ratio                            | 4:3                  |
| ADC                                     | 12 bit               |
| Color depth (camera)                    | 12 bit               |
| Optical sensor class                    | 1/2.5"               |
| Optical Size                            | 5.702 mm x 4.277 mm) |
| Optical sensor diagonal                 | 7.13 mm (1/2.24")    |
| Pixel size                              | 2.2 μm               |
| Manufacturer                            | Onsemi               |
| Sensor Model                            | AR0521SR2C09SURA0    |
| Gain (master/RGB)                       | 15x/8x               |
| AOI horizontal                          | same frame rate      |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 48 / 12              |
| AOI image height / step width           | 4 / 2                |
| AOI position grid (horizontal/vertical) | 8 / 2                |
| Binning horizontal                      | same frame rate      |
| Binning vertical                        | increased frame rate |
| Binning method                          | Color                |
| Binning factor                          | 2                    |
| Subsampling horizontal                  | same frame rate      |
| Subsampling vertical                    | increased frame rate |
| Subsampling method                      | Color                |
| Subsampling factor                      | 2, 4                 |



## Model

|                                   |                    |
|-----------------------------------|--------------------|
| Frame rate freerun mode           | 48 fps             |
| Frame rate trigger (continuous)   | 44 fps             |
| Frame rate trigger (maximum)      | 44 fps             |
| Exposure time (minimum - maximum) | 0.016 ms - 2000 ms |
| Power consumption                 | 0.6 W - 1.2 W      |

## 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 - 80 °C / -4 °F - 176 °F |
| Humidity (relative, non-condensing) | 20 % - 80 %                     |

## Connectors

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

## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | CS- / C-Mount               |
| IP code          | IP30                        |
| Dimensions H/W/L | 47.0 mm x 46.0 mm x 23.9 mm |
| Mass             | 33 g                        |

## Features

|                   |                             |     |
|-------------------|-----------------------------|-----|
| Image Acquisition | Freerun                     | ✓   |
|                   | Software trigger            | ✓   |
|                   | Hardware trigger            | ✓   |
|                   | Trigger controlled exposure | -   |
|                   | Denoiser                    | -   |
|                   | Long exposure               | -   |
|                   | Line scan                   | -   |
|                   | Line scan highspeed         | -   |
| Global start      | -                           |     |
| Flashing          | Flashing                    | ✓   |
|                   | PWM flashing                | -   |
| Image Adjustments | Auto exposure               | -   |
|                   | Auto gain                   | -   |
|                   | Auto whitebalance           | -   |
|                   | Color correction            | -   |
|                   | Gamma                       | -   |
|                   | LUT                         | -   |
|                   | Mirror/flip                 | X/Y |

On-board Image Processing

|                     |  |
|---------------------|--|
| Pixel formats       | BayerGR8<br>BayerGR10g40IDS<br>BayerGR12g24IDS |
| Region of interest  | ✓  |
| Decimation (FPGA)   | -  |
| Decimation (Sensor) | 2x(2,4)  |
| Binning (FPGA)      | -  |
| Binning (Sensor)    | 2x2<br>Increases frame rate.                   |

Others

|                                |     |
|--------------------------------|-----|
| Chunks                         | -   |
| Sequencer                      | -   |
| Events                         | -   |
| Firmware update                | ✓   |
| 1st supported firmware version | 2.6 |

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