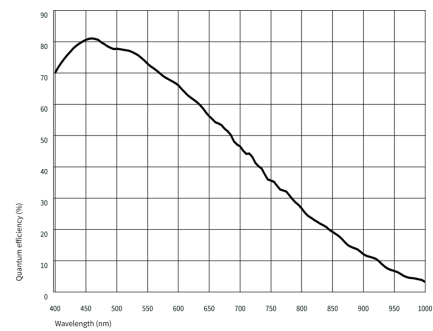


**In series**  
The model is in series and available for the long term.



Specification

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Sensor                                  |                                           |
| Sensor type                             | CMOS Mono                                 |
| Shutter                                 | Global Shutter                            |
| Sensor characteristic                   | Linear                                    |
| Pixel Class                             | 5 MP                                      |
| Resolution                              | 5.10 Mpix                                 |
| Resolution (h x v)                      | 2472 x 2062 Pixel                         |
| Aspect ratio                            | 5:4                                       |
| ADC                                     | 12 bit                                    |
| Color depth (camera)                    | 12 bit                                    |
| Optical sensor class                    | 1/1.8"                                    |
| Optical Size                            | 6.708 mm x 5.612 mm                       |
| Optical sensor diagonal                 | 8.75 mm 1/1.8"                            |
| Pixel size                              | 2.74 µm                                   |
| CRA (Chief Ray Angle)                   | 0 °                                       |
| Manufacturer                            | Sony                                      |
| Sensor Model                            | IMX568-AAMJ-C                             |
| Gain (master/RGB)                       | 13.2x/-                                   |
| AOI horizontal                          | same frame rate                           |
| AOI vertical                            | increased frame rate                      |
| AOI image width / step width            | 600 / 24                                  |
| AOI image height / step width           | 14 / 8                                    |
| AOI position grid (horizontal/vertical) | 8 / 8                                     |
| Binning horizontal                      | increased frame rate                      |
| Binning vertical                        | increased frame rate                      |
| Binning method                          | Horizontal: addition / Vertical: addition |
| Binning factor                          | 2x2                                       |
| Decimation (subsampling) horizontal     | -                                         |
| Decimation (subsampling) vertical       | -                                         |
| Decimation (subsampling) method         | -                                         |



### Model

|                                   |                    |
|-----------------------------------|--------------------|
| Frame rate freerun mode           | 49 fps             |
| Frame rate trigger (continuous)   | 49 fps             |
| Frame rate trigger (maximum)      | 49 fps             |
| Exposure time (minimum - maximum) | 0.009 ms - 2000 ms |
| Power consumption                 | 0.5 W - 1.2 W      |
| Image memory                      | -                  |

### Ambient conditions

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

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Allowed ambient 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 Wuerth 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 | General Purpose I/O (GPIO) 1 - Line 2      |
| 6 | General Purpose I/O (GPIO) 2 - Line 3      |
| 7 | Ground (GND)                               |
| 8 | USB Power: 5 V, max. 400 mA                |



### Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 29.0 mm x 29.0 mm x 17.0 mm |
| Mass             | 62 g                        |
| Housing material | Zinc nickel-plated          |

### Features

List of on-camera image pre-processing features.

All features of the table are available via our IDS peak software for image pre-processing on the host computer (sensor model dependent).

#### Image Acquisition

|                             |   |
|-----------------------------|---|
| Freerun                     | ✓ |
| Software trigger            | ✓ |
| Hardware trigger            | ✓ |
| Trigger controlled exposure | - |
| Denoiser                    | - |
| Long exposure               | - |
| Line scan                   | - |

#### 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       | Mono8<br>Mono10g40IDS<br>Mono12g24IDS |
| Region of interest  | ✓                                     |
| Decimation (FPGA)   | -                                     |
| Decimation (Sensor) | -                                     |
| Binning (FPGA)      | -                                     |
| Binning (Sensor)    | 2x2<br>Increases frame rate.          |

## Others

|                                |      |
|--------------------------------|------|
| Chunks                         | -    |
| Sequencer                      | -    |
| Events                         | -    |
| Firmware update                | ✓    |
| 1st supported firmware version | 3.21 |