

In series

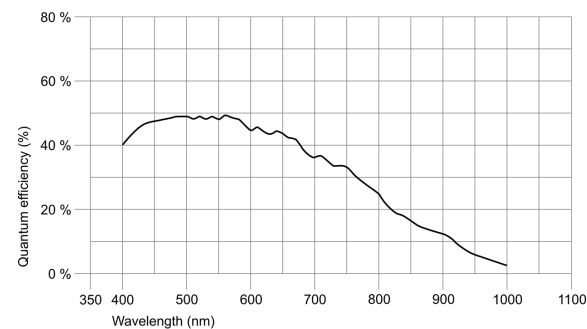
The model is in series and available for the long term.



Specification

Sensor

|                                         |                      |
|-----------------------------------------|----------------------|
| Sensor type                             | CMOS Mono            |
| Shutter                                 | Global Shutter       |
| Sensor characteristic                   | Linear               |
| Readout mode                            | Progressive scan     |
| Pixel Class                             | 1.9 MP               |
| Resolution                              | 1.92 Mpix            |
| Resolution (h x v)                      | 1600 x 1200 Pixel    |
| Aspect ratio                            | 4:3                  |
| ADC                                     | 10 bit               |
| Color depth (camera)                    | 10 bit               |
| Optical sensor class                    | 1/1.8"               |
| Optical Size                            | 7.200 mm x 5.400 mm) |
| Optical sensor diagonal                 | 9 mm (1/1.78")       |
| Pixel size                              | 4.5 µm               |
| Manufacturer                            | e2v                  |
| Sensor Model                            | EV76C570ABT          |
| Gain (master/RGB)                       | 4x/-                 |
| AOI horizontal                          | same frame rate      |
| AOI vertical                            | increased frame rate |
| AOI image width / step width            | 256 / 2              |
| AOI image height / step width           | 1 / 1                |
| AOI position grid (horizontal/vertical) | 2 / 1                |
| Binning horizontal                      | same frame rate      |
| Binning vertical                        | same frame rate      |
| Binning method                          | M/C automatic        |
| Binning factor                          | 2 / 4 / 8            |
| Subsampling horizontal                  | same frame rate      |
| Subsampling vertical                    | same frame rate      |
| Subsampling method                      | M/C automatic        |
| Subsampling factor                      | 2, 4, 8              |



Model

|                                   |                   |
|-----------------------------------|-------------------|
| Frame rate freerun mode           | 52 fps            |
| Frame rate trigger (continuous)   | 52 fps            |
| Frame rate trigger (maximum)      | 52 fps            |
| Exposure time (minimum - maximum) | 0.020 ms - 181 ms |
| Power consumption                 | 1.7 W - 2.5 W     |
| Image memory                      | 128 MB            |

Ambient conditions

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

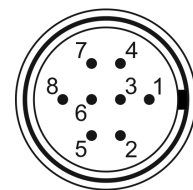
|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Allowed device temperature during storage   | -20 °C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

Connectors

|                     |                                           |
|---------------------|-------------------------------------------|
| Interface connector | GigE RJ45, screwable                      |
| I/O connector       | 8-pin Hirose connector (HR25-7TR-8PA(73)) |
| Power supply        | 12 V - 24 V or PoE                        |

Pin assignment I/O connector

|   |                                             |
|---|---------------------------------------------|
| 1 | Ground (GND)                                |
| 2 | Flash output with optocoupler (-) - Line 1  |
| 3 | General Purpose I/O (GPIO) 1 - Line 2       |
| 4 | Trigger input with optocoupler (-) - Line 0 |
| 5 | Flash output with optocoupler (+) - Line 1  |
| 6 | General Purpose I/O (GPIO) 2                |
| 7 | Trigger input with optocoupler (+) - Line 0 |
| 8 | Input power supply (VCC) 12-24 V DC         |



Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | C-Mount                     |
| IP code          | IP30                        |
| Dimensions H/W/L | 29.0 mm x 29.0 mm x 29.0 mm |
| Mass             | 51 g                        |

Features

|                   |                             |   |
|-------------------|-----------------------------|---|
| Image Acquisition | Freerun                     | ✓ |
|                   | Software trigger            | ✓ |
|                   | Hardware trigger            | ✓ |
|                   | Trigger controlled exposure | - |
|                   | Denoiser                    | ✓ |
|                   | Long exposure               | - |
|                   | Line scan                   | ✓ |
|                   | Line scan highspeed         | ✓ |
| Flashing          | Flashing                    | ✓ |
|                   | PWM flashing                | ✓ |

|                           |                                |                              |
|---------------------------|--------------------------------|------------------------------|
| Image Adjustments         | Auto exposure                  | ✓                            |
|                           | Auto gain                      | ✓                            |
|                           | Auto whitebalance              | -                            |
|                           | Color correction               | -                            |
|                           | Gamma                          | ✓                            |
|                           | LUT                            | ✓                            |
|                           | Mirror/flip                    | -                            |
| On-board Image Processing | Pixel formats                  | Mono8<br>Mono10<br>Mono10p   |
|                           | Region of interest             | ✓                            |
|                           | Decimation (FPGA)              | ✓                            |
|                           | Decimation (Sensor)            | -                            |
|                           | Binning (FPGA)                 | ✓                            |
|                           | Binning (Sensor)               | 2x2<br>Increases frame rate. |
| Others                    | IP settings                    | ✓                            |
|                           | Bandwidth management           | ✓                            |
|                           | Chunks                         | -                            |
|                           | Sequencer                      | -                            |
|                           | PTP                            | ✓                            |
|                           | Firmware update                | ✓                            |
|                           | 1st supported firmware version | 2.10                         |