

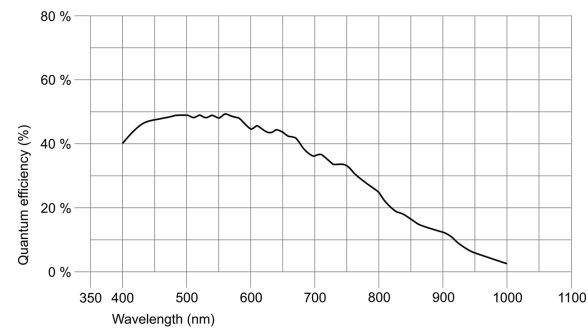
Not recommended for new designs  
The camera model is no longer recommended for new application development.



Specification

Sensor

|                                         |                                                         |
|-----------------------------------------|---------------------------------------------------------|
| Sensor type                             | CMOS Mono                                               |
| Shutter                                 | Global Shutter / Rolling shutter / Global Start Shutter |
| Sensor characteristic                   | Linear                                                  |
| 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)                    | 12 bit                                                  |
| Optical sensor class                    | 1/1.8"                                                  |
| Optical Size                            | 7.200 mm x 5.400 mm                                     |
| Optical sensor diagonal                 | 9 mm 1/1.8"                                             |
| Pixel size                              | 4.5 µm                                                  |
| CRA (Chief Ray Angle)                   | 12 °                                                    |
| Manufacturer                            | e2v                                                     |
| Sensor Model                            | EV76C570ABT                                             |
| Gain (master/RGB)                       | 4x/-                                                    |
| AOI horizontal                          | same frame rate                                         |
| AOI vertical                            | increased frame rate                                    |
| AOI image width / step width            | 16 / 4                                                  |
| AOI image height / step width           | 4 / 2                                                   |
| AOI position grid (horizontal/vertical) | 2 / 2                                                   |
| Binning horizontal                      | same frame rate                                         |
| Binning vertical                        | same frame rate                                         |
| Binning method                          | Horizontal: addition / Vertical: mean                   |
| Binning factor                          | 2                                                       |
| Decimation (subsampling) horizontal     | -                                                       |
| Decimation (subsampling) vertical       | -                                                       |
| Decimation (subsampling) method         | -                                                       |
| Decimation (subsampling) factor         | -                                                       |



## Model

|                                   |                                                                                                               |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------|
| Pixel clock range                 | 10 MHz - 72 MHz                                                                                               |
| Frame rate freerun mode           | 35 fps                                                                                                        |
| Frame rate trigger (maximum)      | 34 fps                                                                                                        |
| Exposure time (minimum - maximum) | 0.02 ms - 10000 ms                                                                                            |
| Long exposure (maximum)           | 10000 ms                                                                                                      |
| Power consumption                 | 2.2 W - 2.9 W                                                                                                 |
| Image memory                      | 60 MB                                                                                                         |
| Special features                  | Linescan mode<br>Scaler<br>Sequencer<br>Log mode<br>Sensor hot pixel correction<br>Fine exposure<br>Multi-AOI |

## Ambient conditions

For PCB versions, refer to the separate hints in the respective documentation.

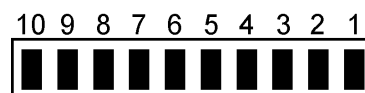
|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F   |
| Allowed device temperature during storage   | -20 °C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

## Connectors

|                     |                                     |
|---------------------|-------------------------------------|
| Interface connector | GigE RJ45                           |
| I/O connector       | 10-pin Molex connector (Pico Blade) |
| Power supply        | 12 V - 24 V                         |

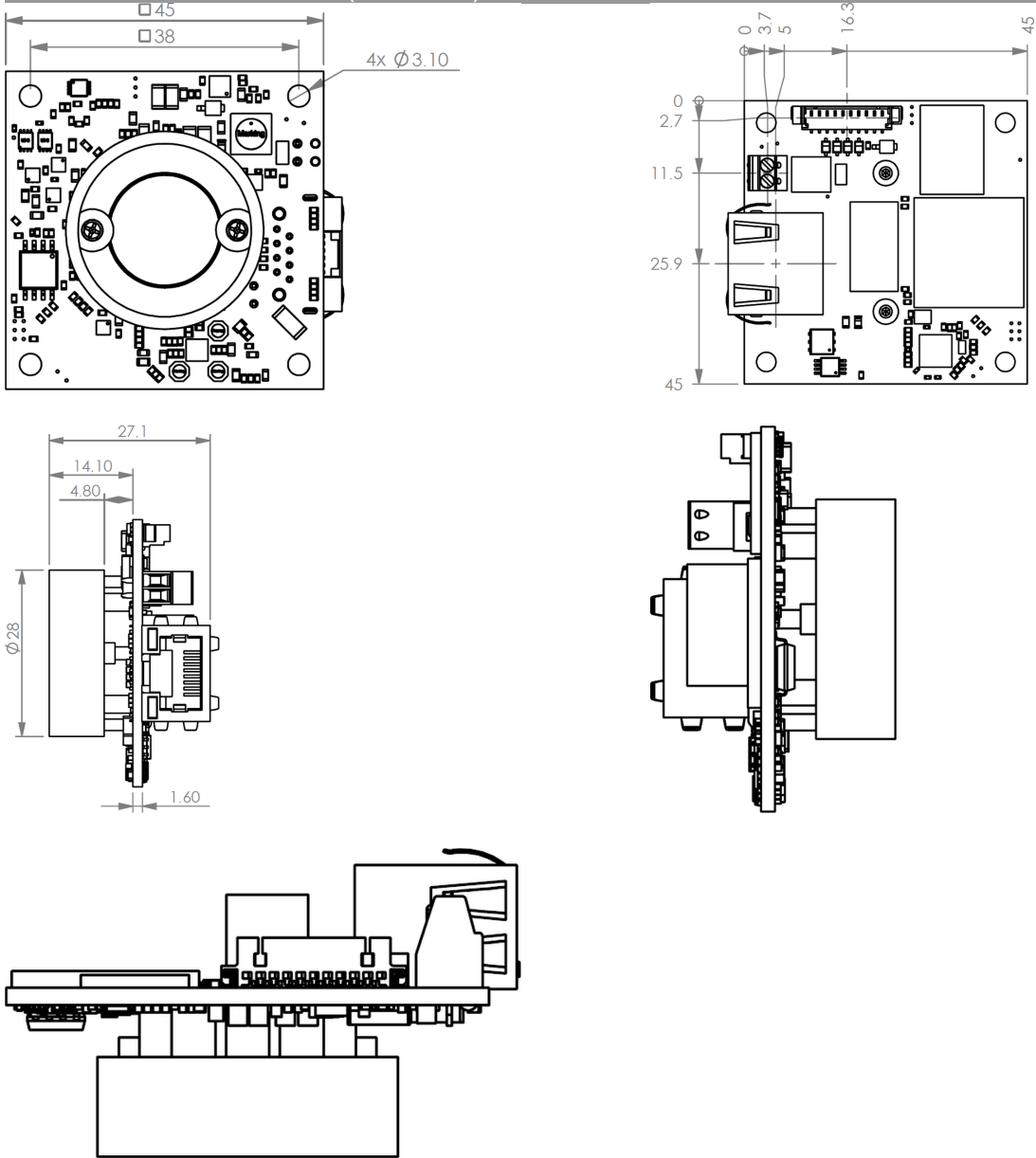
## Pin assignment I/O connector

|    |                                   |
|----|-----------------------------------|
| 1  | Ground (GND)                      |
| 2  | Vout 3.1 V max. 100 mA            |
| 3  | Trigger input without optocoupler |
| 4  | Flash output without optocoupler  |
| 5  | General Purpose I/O (GPIO) 1      |
| 6  | General Purpose I/O (GPIO) 2      |
| 7  | I2C bus clock signal              |
| 8  | I2C bus data signal               |
| 9  | Vin+ 12 V (160 mA) - 24 V (90 mA) |
| 10 | Vin- (GND)                        |



## Design

|                  |                             |
|------------------|-----------------------------|
| Lens Mount       | CS- / C-Mount               |
| IP code          | -                           |
| Dimensions H/W/L | 45.0 mm x 45.0 mm x 27.1 mm |
| Mass             | 24 g                        |
| Housing material | -                           |



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                   | ✓ |
|                   | Global start                | ✓ |

## UI-5254LE-M-GL Rev.1.2 (AB10464)

|                           |                                |        |
|---------------------------|--------------------------------|--------|
| Flashing                  | Flashing                       | -      |
|                           | PWM flashing                   | -      |
| Image Adjustments         | Auto exposure                  | -      |
|                           | Auto gain                      | -      |
|                           | Auto whitebalance              | -      |
|                           | Color correction               | -      |
|                           | Gamma                          | -      |
|                           | LUT                            | -      |
| On-board Image Processing | Mirror/flip                    | -      |
|                           | Pixel formats                  |        |
|                           | Region of interest             | ✓      |
|                           | Decimation (FPGA)              | -      |
|                           | Decimation (Sensor)            |        |
| Others                    | Binning (FPGA)                 | -      |
|                           | Chunks                         | -      |
|                           | Sequencer                      | ✓      |
|                           | Firmware update                | -      |
|                           | 1st supported firmware version | 4.96.1 |