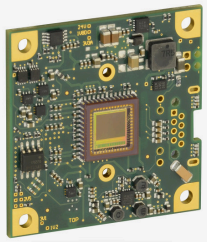
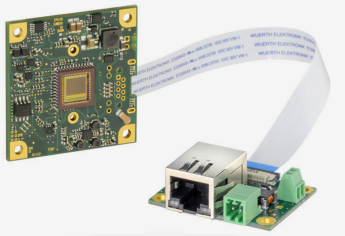
# UI-5252LE-C-MB Rev.1.2 (AB13538)

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





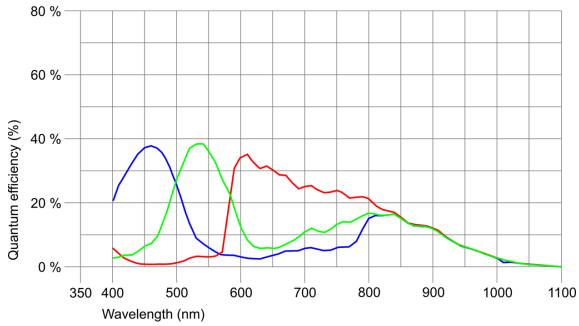


Daugtherboard and flex ribbon cable shown are optional accessories

## Specification

### Sensor

| | |
|---|---|
| Sensor type | CMOS Color |
| 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 | EV76C570ACT |
| Gain (master/RGB) | 4x/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 | - |







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## Model

| | |
|---|---|
| Pixel clock range | 10 MHz - 71 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 | 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.

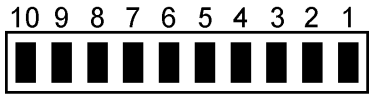
| | |
|---|---|
| Allowed device temperature during operation | 0 °C - 55 °C / 32 °F - 131 °F |
| Allowed device temperature during storage | -20 °C - 60 °C / -4 °F - 140 °F |
| Humidity (relative, non-condensing) | 20 % - 80 % |

## Connectors

| | |
|---|---|
| Interface connector | ZIF |
| 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) |

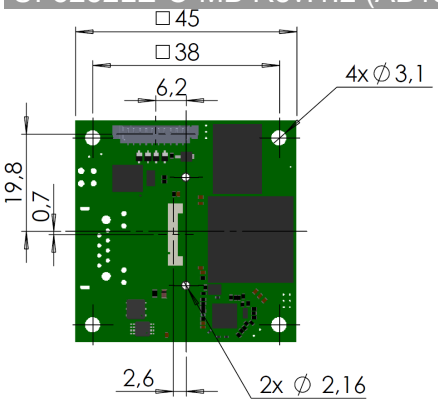



## Design

| | |
|---|---|
| Lens Mount | No mount |
| IP code | - |
| Dimensions H/W/L | 45.0 mm x 45.0 mm x 13.0 mm |
| Mass | 10 g |
| Housing material | - |



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


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