

### UI-1242LE-M (AB.0010.1.48500.23)

In series

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











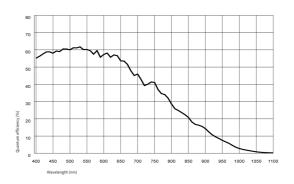


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Please note: The technical data given here was measured using the IDS Software Suite.

# Specification

#### Sensor

Shutter Global Shutter / Rolling shutter / Global Start Shutter Sensor characteristic Linear Readout mode Progressive scan Pixel Class 1.3 MP Resolution 1.31 Mpix Resolution (h x v) 1280 x 1024 Pixel Aspect ratio 5:4 ADC 10 bit Color depth (camera) 8 bit Optical sensor class 1/11.8"" Optical Size 6.784 mm x 5.427 mm Optical sensor diagonal 8.69 mm (1/1.84") Pixel size 5.3 µm Manufacturer e2v Sensor Model EV76C560ABT Gain (master/RGB) 4x/- AOI horizontal same frame rate AOI vertical increased frame rate AOI vertical increased frame rate AOI mage width / step width 4 / 2 AOI position grid (horizontal/vertical) 2 / 2 Binning horizontal same frame rate Binning vertical same frame rate Binning method M/C automatic Binning factor 2 Subsampling horizontal Subsampling method - Subsampling method - Subsampling method Subsampling method - Subsampling method Subsampling method - Subsampling method -	Sensor type	CMOS Mono
Readout mode Progressive scan  Pixel Class 1.3 MP  Resolution 1.31 Mpix  Resolution (h x v) 1280 x 1024 Pixel  Aspect ratio 5:4  ADC 10 bit  Color depth (camera) 8 bit  Optical sensor class 1/1.8""  Optical Size 6.784 mm x 5.427 mm  Optical sensor diagonal 8.69 mm (1/1.84")  Pixel size 5.3 µm  Manufacturer e2v  Sensor Model EV76C560ABT  Gain (master/RGB) 4x/-  AOI horizontal same frame rate  AOI vertical increased frame rate  AOI image width / step width 4 / 2  AOI position grid (horizontal/vertical) 2 / 2  Binning horizontal same frame rate  Binning vertical same frame rate  Binning vertical same frame rate  Binning method M/C automatic  Binning factor 2  Subsampling horizontal  Subsampling vertical -  Subsampling method -	Shutter	Global Shutter / Rolling shutter / Global Start Shutter
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Subsampling horizontal - Subsampling vertical - Subsampling method -	Binning method	M/C automatic
Subsampling vertical - Subsampling method -	Binning factor	2
Subsampling method -	Subsampling horizontal	-
	Subsampling vertical	-
Subsampling factor -	Subsampling method	-
	Subsampling factor	-



Subject to technical modifications (2024-04-19)



# UI-1242LE-M (AB.0010.1.48500.23)

#### Model

Pixel clock range	7 MHz - 35 MHz
Frame rate freerun mode	25
Frame rate trigger (maximum)	24
Exposure time (minimum - maximum)	0.009 ms - 2000 ms
Power consumption	0.3 W - 0.7 W
Special features	Linescan mode, Scaler, Sequencer, Log mode, Sensor hot pixel correction, Fine exposure, Multi-AOI

#### Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing. For PCB versions, refer to the separate hints in the respective documentation.

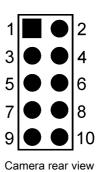
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 80 °C / -4 °F - 176 °F
Humidity (relative, non-condensing)	20 % - 80 %

### Connectors

Interface connector	USB 2.0 mini-B
I/O connector	10-pin plated-through holes
Power supply	USB cable

## Pin assignment I/O connector

1	USB Power supply (VCC) 5 V
2	USB Ground (GND)
3	Trigger input without optocoupler (+)
4	Flash output without optocoupler (+)
5	Power supply (internal voltage transformer), 3.3 V or 3.0 V (sensor-dependent)
6	USB Ground (GND)
7	General Purpose I/O (GPIO) 1
8	General Purpose I/O (GPIO) 2
9	I2C bus clock signal
10	I2C bus data signal



### Design

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Lens Mount	-
IP code	-
Dimensions H/W/L	36.0 mm x 36.0 mm x 5.7 mm
Mass	12 g

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