

UI-3241LE-C-HQ (AB00430)











Specification

Sensor

Shutter Global Shutter / Rolling shutter / Global Start Shutter Sensor characteristic Linear Readout mode Progressive scan Pixel Class SXGA Resolution 1.31 Mpix Resolution (h x v) 1280 x 1024 Pixel Aspect ratio 5:4 ADC 10 bit Color depth (camera) 12 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 EV76C560ACT Gain (master/RGB) 4x/4x AOI horizontal same frame rate AOI wertical increased frame rate AOI image width / step width 4 / 2 AOI position grid (horizontal/vertical) 2 / 2 Binning horizontal same frame rate Binning wertical same frame rate Binning method M/C automatic Binning factor 2 Subsampling horizontal Subsampling method Subsampling method Subsampling factor -	Sensor type	CMOS Color
Readout mode Pixel Class SXGA Resolution 1.31 Mpix Resolution (h x v) 1280 x 1024 Pixel Aspect ratio 5:4 ADC 10 bit Color depth (camera) 12 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 EV76C560ACT Gain (master/RGB) 4x/4x AOI horizontal AOI vertical increased frame rate AOI image width / step width AOI image height / step width AOI position grid (horizontal/vertical) Binning horizontal Same frame rate Binning method M/C automatic Binning factor 2 Subsampling horizontal Subsampling method -	Shutter	Global Shutter / Rolling shutter / Global Start Shutter
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AOI image width / step width AOI image height / step width 4 / 2 AOI position grid (horizontal/vertical) 2 / 2 Binning horizontal Binning vertical Binning method M/C automatic Binning factor 2 Subsampling horizontal - Subsampling vertical - Subsampling method -	AOI horizontal	same frame rate
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Binning horizontal same frame rate Binning vertical same frame rate Binning method M/C automatic Binning factor 2 Subsampling horizontal - Subsampling vertical - Subsampling method -	AOI image height / step width	4/2
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Binning method M/C automatic Binning factor 2 Subsampling horizontal - Subsampling vertical - Subsampling method -	Binning horizontal	same frame rate
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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 factor	-



Subject to technical modifications (2017-10-18)



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Model

Pixel clock range	7 MHz - 86 MHz
Frame rate freerun mode	60
Frame rate trigger (maximum)	56
Exposure time (minimum - maximum)	0.009 ms - 2000 ms
Power consumption	1.3 W - 1.5 W
Special features	IDS line scan 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.

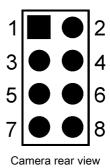
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	USB 3.0 micro-B
I/O connector	8-pin plated-through holes (for connector 50 mil/RM 1,27 mm)
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	General Purpose I/O (GPIO) 1
6	General Purpose I/O (GPIO) 2
7	I2C bus clock signal
8	I2C bus data signal



Design

Lens Mount	S-Mount
IP code	-
Dimensions H/W/L	36.0 mm x 36.0 mm x 20.2 mm
Mass	12 g

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