UI-1007XS Rev.1.1 Starter-Set (1010008)

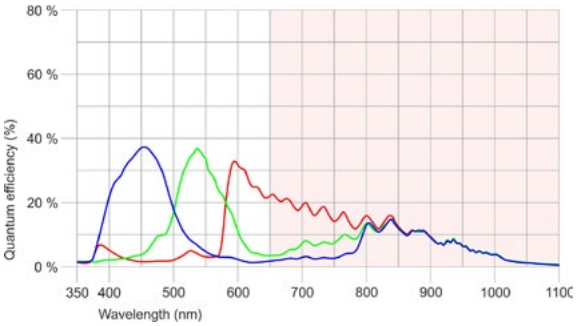
In series
The model is in series and available for the long term.



Specification

Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	5 MP
Resolution	5.04 Mpix
Resolution (h x v)	2592 x 1944 Pixel
Aspect ratio	4:3
ADC	10 bit
Color depth (camera)	8 bit
Optical sensor class	1/4""
Optical Size	3.629 mm x 2.722 mm)
Optical sensor diagonal	4.54 mm (1/3.53")
Pixel size	1.4 µm
Manufacturer	OmniVision
Sensor Model	OV5640
Gain (master/RGB)	6.6x/-
AOI horizontal	-
AOI vertical	-
AOI image width / step width	- / -
AOI image height / step width	- / -
AOI position grid (horizontal/vertical)	- / -
Binning horizontal	-
Binning vertical	-
Binning method	-
Binning factor	-
Subsampling horizontal	-
Subsampling vertical	-
Subsampling method	-
Subsampling factor	-



Integrated optics

Focal length	3,7 mm ± 5 %
Angle of view (at 600 mm working distance)	Horizontal: 52° ± 3° Vertical: 40.2° ± 3° Diagonal: 62.7° ± 3°
Aperture (F)	1:2.8 ± 5 %
Focus range	100 mm ~ infinity

Model

Pixel clock range	9 MHz - 35 MHz
Frame rate freerun mode	15 fps
Frame rate trigger (maximum)	-
Exposure time (minimum - maximum)	0.126 ms - 1170 ms
Power consumption	0.2 W - 1 W

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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 2.0 mini-B
I/O connector	-
Power supply	USB cable

Design

Lens Mount	-
IP code	IP30
Dimensions H/W/L	26.6 mm x 22.9 mm x 21.7 mm
Mass	12 g

Features

Image Acquisition	Freerun	✓
	Software trigger	-
	Hardware trigger	-
	Trigger controlled exposure	-
	Denoiser	-
	Long exposure	-
	Line scan	-
	Line scan highspeed	-
	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)	(2,4)x(2,4)
	Binning (FPGA)	-
Others	Chunks	-
	Sequencer	-
	Firmware update	-
	1st supported firmware version	4.92

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