UI-1007XS Starter-Set (1009054)

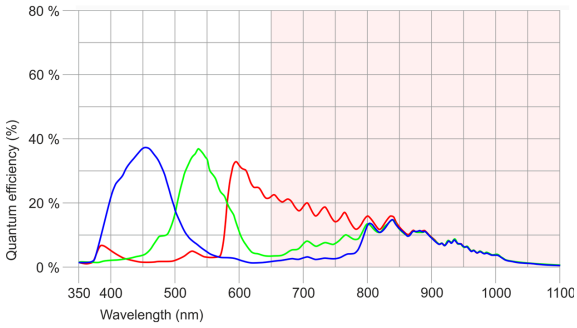
Discontinued
The model has been discontinued.



Specification

Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
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 1/4"
Pixel size	1.4 µm
CRA (Chief Ray Angle)	0 °
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	-
Decimation (subsampling) horizontal	-
Decimation (subsampling) vertical	-
Decimation (subsampling) method	-



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Model

Pixel clock range	9 MHz - 35 MHz
Frame rate freerun mode	15 fps
Frame rate trigger (maximum)	-
Exposure time (minimum - maximum)	0.13 ms - 1170 ms
Power consumption	1 W - 1.1 W
Image memory	-

Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.

Allowed device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Allowed ambient temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	20 % - 90 %

Connectors

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

Design

Lens Mount	No mount
IP code	IP30
Dimensions H/W/L	26.5 mm x 23.0 mm x 21.5 mm
Mass	12 g
Housing material	Magnesium

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	-

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On-board Image Processing	Pixel formats	
	Region of interest	-
	Decimation (FPGA)	-
	Decimation (Sensor)	
	Binning (FPGA)	-
Others	Chunks	-
	Sequencer	-
	Firmware update	-
	1st supported firmware version	4.92

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