ADEPT TURNKEY
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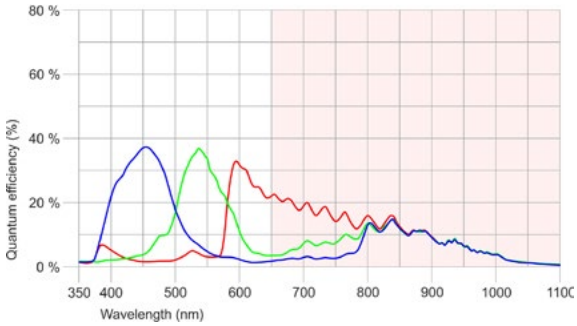
UI-1007XS-C Rev.1.1 (1009782)

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

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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)	0.126 ms - 1170 ms
Power consumption	0.2 W - 1 W

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	-

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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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