

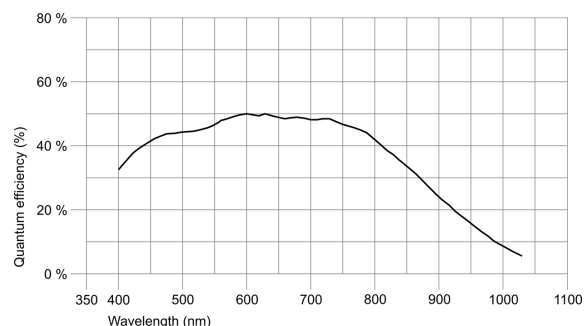
UI-1220SE-M-GL Rev.2



Specification

Sensor

Sensor type	CMOS Mono
Shutter	Global Shutter
Sensor characteristic	Linear with knee points
Readout mode	Progressive scan
Pixel Class	WVGA
Resolution	0.36 Mpix
Resolution (h x v)	752 x 480 Pixel
Aspect ratio	14:9
ADC	10 bit
Color depth (camera)	8 bit
Sensor Size	1/3"
Optical Size	4.512 mm x 2.880 mm
Optical sensor diagonal	5.35 mm (1/2.99")
Pixel size	6 µm
Manufacturer	ON Semiconductor
Sensor Model	MT9V032C12STM
Gain (master/RGB)	4x/-
AOI horizontal	increased frame rate
AOI vertical	increased frame rate
AOI image width / step width	16 / 4
AOI image height / step width	4 / 2
AOI position grid (horizontal/vertical)	4 / 2
Binning horizontal	increased frame rate
Binning vertical	increased frame rate
Binning method	Mono
Binning factor	2 / 3
Subsampling horizontal	-
Subsampling vertical	-
Subsampling method	-
Subsampling factor	-



Subject to technical modifications

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Model

Pixel clock range	5 MHz - 40 MHz
Frame rate freerun mode	87.2 fps
Frame rate trigger	83.3 fps
Exposure time (minimum - maximum)	0.080 ms - 5580 ms
Power consumption	0.4 W - 1 W

Ambient conditions

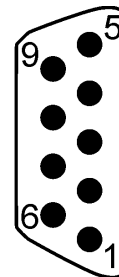
Ambient temperature	0 °C - 50 °C / 32 °F - 122 °F
Storage temperature	-20 °C - 60 °C / -4 °F - 140 °F
Relative humidity	20 % - 80 %

Connectors

Interface connector	USB 2.0 mini-B, screwable
I/O connector	9-pin micro D-Sub socket (MPE Garry 11-0021-50-09L)
Power supply	USB cable

Pin assignment I/O connector

1	Flash output with optocoupler (-)
2	Trigger input with optocoupler (+)
3	Shielding
4	USB Power supply (VCC) 5 V
5	USB Ground (GND)
6	Flash output with optocoupler (+)
7	Trigger input with optocoupler (-)
8	USB data (+)
9	USB data (-)



Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	34.0 mm x 32.0 mm x 41.3 mm
Mass	65 g

