

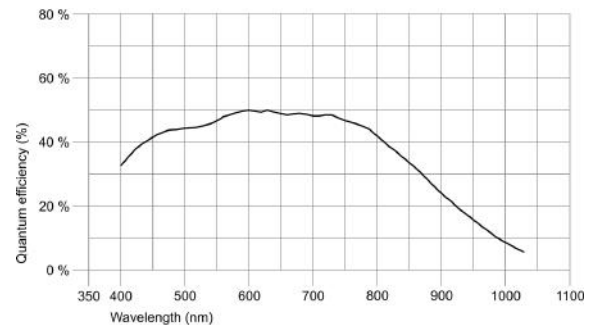
UI-3220CP-M-GL (AB00039)



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)	12 bit
Optical sensor class	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	-



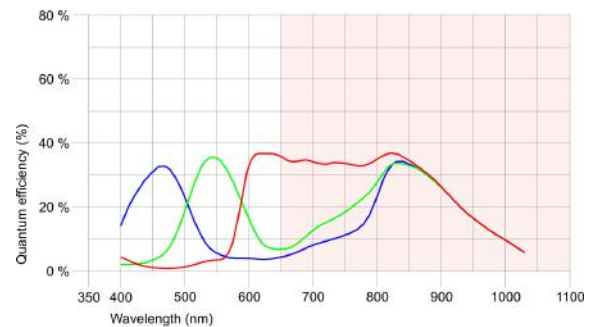
UI-3220CP-C-HQ (AB00038)



Specification

Sensor

Sensor type	CMOS Color
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)	12 bit
Optical sensor class	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	MT9V032C12STC
Gain (master/RGB)	4x/5x
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	-



UI-3220CP-M/C

Model

Pixel clock range	5 MHz - 46 MHz
Frame rate freerun mode	100
Frame rate trigger (maximum)	96
Exposure time (minimum - maximum)	0.070 ms - 5580 ms
Power consumption	1.5 W - 0 W

Ambient conditions

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

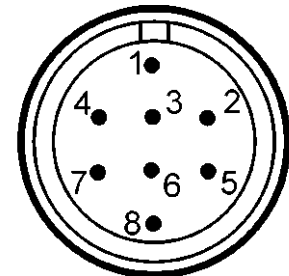
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	USB 3.0 micro-B, screwable
I/O connector	8-pin Hirose connector (HR25-7TR-8PA(73))
Power supply	USB cable

Pin assignment I/O connector

1	Ground (GND)
2	Flash output with optocoupler (-)
3	General Purpose I/O (GPIO) 1
4	Trigger input with optocoupler (-)
5	Flash output with optocoupler (+)
6	General Purpose I/O (GPIO) 2
7	Trigger input with optocoupler (+)
8	Output supply voltage, 5 V (100 mA)



Camera rear view

Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	29.0 mm x 29.0 mm x 29.0 mm
Mass	44 g