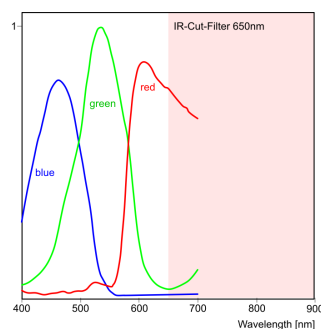




Specification

Sensor

Sensor type	CCD Color
Shutter	Global Shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	VGA
Resolution	0.31 Mpix
Resolution (h x v)	640 x 480 Pixel
Aspect ratio	4:3
ADC	12 bit
Color depth (camera)	12 bit
Sensor Size	1/3"
Optical Size	4.736 mm x 3.552 mm
Optical sensor diagonal	5.92 mm (1/2.7")
Pixel size	7.4 µm
Manufacturer	Sony
Sensor Model	ICX424AQ
Gain (master/RGB)	12x/4x
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	16 / 4
AOI image height / step width	120 / 2
AOI position grid (horizontal/vertical)	2 / 2
Binning horizontal	same frame rate
Binning vertical	increased frame rate
Binning method	Mono
Binning factor	2 / 3 / 4
Subsampling horizontal	-
Subsampling vertical	-
Subsampling method	-
Subsampling factor	-



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Model

Pixel clock range	10 MHz - 40 MHz
Frame rate freerun mode	100.0 fps
Frame rate trigger	100.0 fps
Exposure time (minimum - maximum)	0.032 ms - 120000 ms
Power consumption	1.2 W - 1.9 W

Ambient conditions

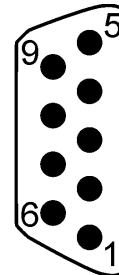
Ambient temperature	0 °C - 50 °C / 32 °F - 122 °F
Storage temperature	-20 °C - 60 °C / -4 °F - 140 °F
Relative humidity	20 % - 80 %

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 48.3 mm
Mass	79 g

