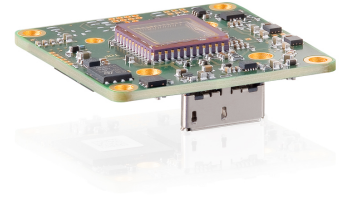
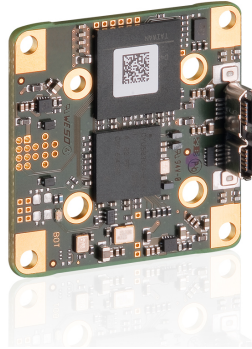
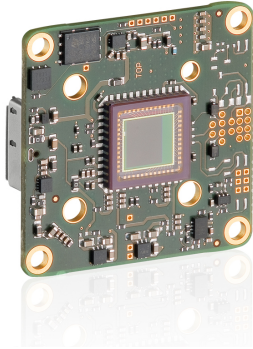


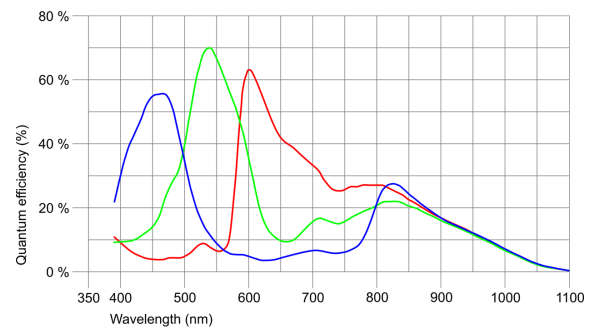
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Specification

Sensor

Sensor type	CMOS Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	18 MP
Resolution	18.10 Mpix
Resolution (h x v)	4912 x 3684 Pixel
Aspect ratio	4:3
ADC	10 bit
Color depth (camera)	10 bit
Sensor Size	1/2.3"
Optical Size	6.140 mm x 4.605 mm
Optical sensor diagonal	7.68 mm (1/2.08")
Pixel size	1.25 µm
Manufacturer	Aptina
Sensor Model	AR1820HSSC12SHEA0
Gain (master/RGB)	16x/4x
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	320 / 4
AOI image height / step width	240 / 2
AOI position grid (horizontal/vertical)	- / -
Binning horizontal	same frame rate
Binning vertical	increased frame rate
Binning method	Color
Binning factor	2
Subsampling horizontal	same frame rate
Subsampling vertical	increased frame rate
Subsampling method	Color
Subsampling factor	2, 4



Subject to technical modifications

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Model

Pixel clock range	100 MHz - 260 MHz
Frame rate freerun mode	12.3 fps
Frame rate trigger	12.3 fps
Exposure time (minimum - maximum)	0.022 ms - 999 ms
Power consumption	0.9 W - 1.3 W

Ambient conditions

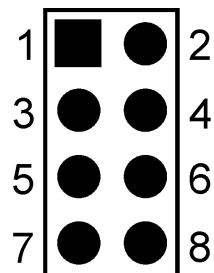
Ambient temperature	0 °C - 50 °C / 32 °F - 122 °F
Storage temperature	-20 °C - 60 °C / -4 °F - 140 °F
Relative humidity	20 % - 80 %

Connectors

Interface connector	USB 3.0 micro-B
I/O connector	8-pin plated-through holes (for connector 50 mil/RM 1,27 mm)
Power supply	USB cable

Pin assignment I/O connector

1	USB Power supply (VCC) 5 V
2	USB Ground (GND)
3	Trigger input without optocoupler (+)
4	Flash output without optocoupler (+)
5	General Purpose I/O (GPIO) 1
6	General Purpose I/O (GPIO) 2
7	I2C bus clock signal
8	I2C bus data signal



Design

Lens Mount	-
IP code	-
Dimensions H/W/L	36.0 mm x 36.0 mm x 9.8 mm
Mass	8 g

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