

UI-3180CP-M-GL Rev.2

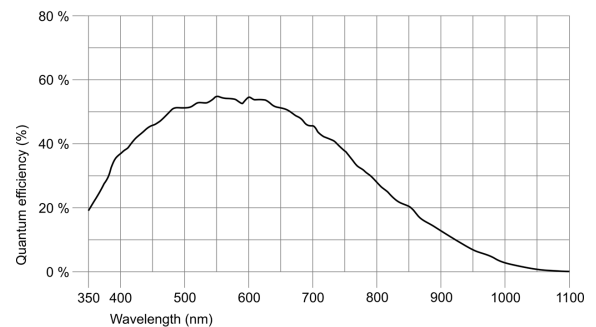


Specification

- PRELIMINARY -

Sensor

Sensor type	CMOS Mono
Shutter	Global Shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	5 MP
Resolution	5.31 Mpix
Resolution (h x v)	2592 x 2048 Pixel
Aspect ratio	5:4
ADC	10 bit
Color depth (camera)	12 bit
Sensor Size	1"
Optical Size	12.441 mm x 9.830 mm
Optical sensor diagonal	15.86 mm (1/1.01")
Pixel size	4.8 µm
Manufacturer	ON Semiconductor
Sensor Model	NOIP1SN5000A-QDI
Gain (master/RGB)	4x/4x
AOI horizontal	increased frame rate
AOI vertical	increased frame rate
AOI image width / step width	128 / 16
AOI image height / step width	2 / 2
AOI position grid (horizontal/vertical)	16 / 2
Binning horizontal	same frame rate
Binning vertical	same frame rate
Binning method	M/C automatic
Binning factor	2
Subsampling horizontal	increased frame rate
Subsampling vertical	increased frame rate
Subsampling method	M/C automatic
Subsampling factor	2



Subject to technical modifications

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Model

Pixel clock range	120 MHz - 480 MHz
Frame rate freerun mode	72.0 fps
Frame rate trigger	81.0 fps
Exposure time (minimum - maximum)	0.052 ms - 499 ms
Power consumption	1.3 W - 4.1 W
Special features	Sensor hot pixel correction

Ambient conditions

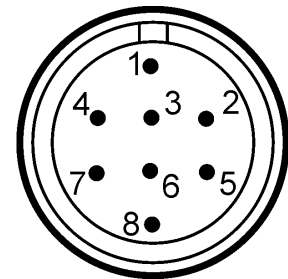
Ambient temperature	0 °C - 40 °C / 32 °F - 104 °F
Storage temperature	-20 °C - 60 °C / -4 °F - 140 °F
Relative humidity	20 % - 80 %

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)



Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	29.0 mm x 29.0 mm x 29.0 mm
Mass	52 g

