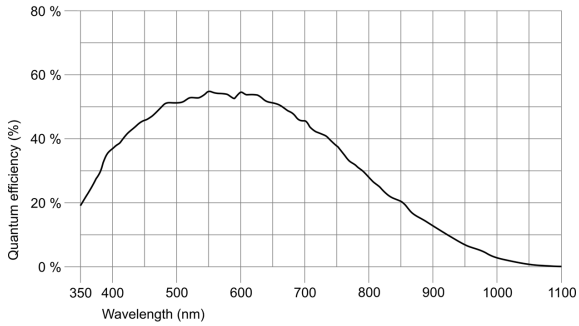
UI-3160CP-M-GL Rev.2

Made in Germany

Specification

Sensor

Sensor type	CMOS Mono
Shutter	Global Shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	2 MP
Resolution	2.30 Mpix
Resolution (h x v)	1920 x 1200 Pixel
Aspect ratio	16:10
ADC	10 bit
Color depth (camera)	12 bit
Optical sensor class	2/3"
Optical Size	9.216 mm x 5.760 mm
Optical sensor diagonal	10.87 mm (1/1.47")
Pixel size	4.8 µm
Manufacturer	ON Semiconductor
Sensor Model	NOIP1SN2000A-QDI
Gain (master/RGB)	4x/4x
AOI horizontal	increased frame rate
AOI vertical	increased frame rate
AOI image witdh / 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



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Model

Pixel clock range	120 MHz - 480 MHz
Frame rate freerun mode	165.0 fps
Frame rate trigger (continuous)	165.0 fps
Frame rate trigger (maximum)	180.0 fps
Exposure time (minimum - maximum)	0.050 ms - 499 ms
Power consumption	1.3 W - 3.7 W

Ambient conditions

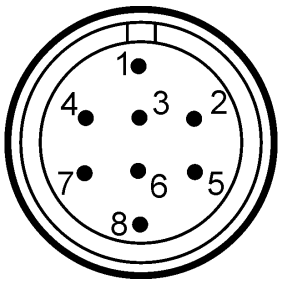
Ambient temperature	0 °C - 40 °C / 32 °F - 104 °F
Storage temperature	-20 °C - 60 °C / -4 °F - 140 °F
Relative humidity	20 % - 80 %

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

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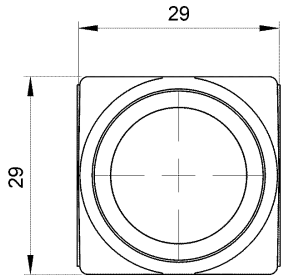

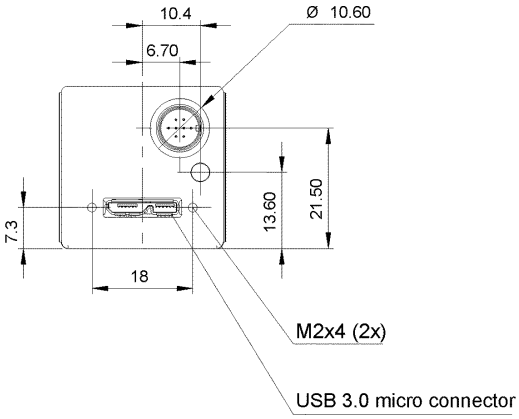

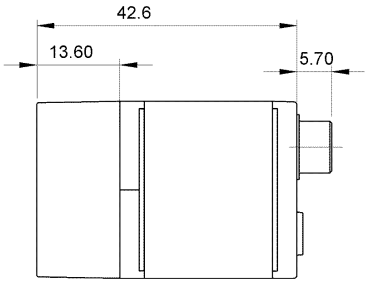

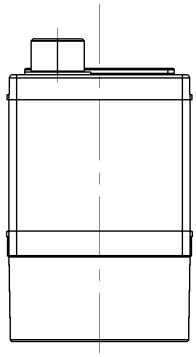

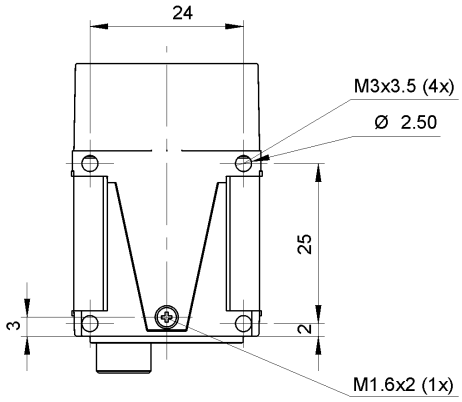

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