

UI-3880CP-C-HQ Rev.2 (AB00855)

Not recommended for new designs

The camera model is no longer recommended for new application development.























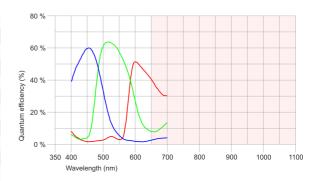


uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. <u>Learn about the process here and switch now.</u>
Please note: The technical data given here was measured using the IDS Software Suite.

Specification

Sensor

	Sensor type	CMOS Color
	Shutter	Rolling shutter / Global Start Shutter
	Sensor characteristic	Linear
	Readout mode	Progressive scan
	Pixel Class	6 MP
	Resolution	6.41 Mpix
	Resolution (h x v)	3088 x 2076 Pixel
	Aspect ratio	3:2
	ADC	12 bit
	Color depth (camera)	12 bit
	Optical sensor class	1/1.8''"
	Optical Size	7.411 mm x 4.982 mm
	Optical sensor diagonal	8.93 mm (1/1.79")
	Pixel size	2.4 µm
	Manufacturer	Sony
	Sensor Model	IMX178LQJ-C
	Gain (master/RGB)	14.5x/5x
	AOI horizontal	same frame rate
	AOI vertical	increased frame rate
	AOI image width / step width	88 / 8
	AOI image height / step width	28 / 2
	AOI position grid (horizontal/vertical)	4/2
	Binning horizontal	same frame rate
	Binning vertical	same frame rate
	Binning method	M/C automatic
	Binning factor	2
	Subsampling horizontal	same frame rate
	Subsampling vertical	same frame rate
	Subsampling method	M/C automatic
	Subsampling factor	2, 4, 6, 8, 16



Subject to technical modifications (2024-04-26)



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Model

Pixel clock range	20 MHz - 474 MHz
Frame rate freerun mode	58
Frame rate trigger (continuous)	58
Frame rate trigger (maximum)	58
Exposure time (minimum - maximum)	0.013 ms - 999 ms
Long exposure (maximum)	120000 ms
Power consumption	1.4 W - 3 W
Image memory	128 MB
Special features	IDS line scan mode, Overlap trigger, Sensor source gain

Ambient conditions

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

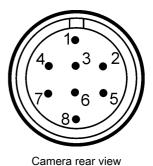
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 60 °C / -4 °F - 140 °F
Humidity (relative, non-condensing)	20 % - 80 %

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

i iii accigiiiiiciit ii c cciiiicctci	
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	48 g