

UI-5271SE-C-HQ Rev.4.2 (AB12129)

In series

The model is in series and available for the long term.









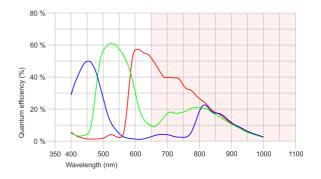


uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. <u>Learn about the process here and switch now</u>. Please note: The technical data given here was measured using the IDS Software Suite.

Specification

Sensor

Shutter Global Shutter Sensor characteristic Linear Readout mode Progressive scan Pixel Class 3 MP Resolution 3.17 Mpix Resolution (h x v) 2056 x 1542 Pixel Aspect ratio 4:3 ADC 12 bit Color depth (camera) 12 bit Optical sensor class 1/1.8" Optical Size 7.093 mm x 5.320 mm Optical sensor diagonal 8.87 mm (1/1.8") Pixel size 3.45 µm Micro lens shift 0.00 Manufacturer Sony Sensor Model IMX265LQR-C Gain (master/RGB) 24x/4x AOI horizontal same frame rate AOI image width / step width 2.56 / 8 AOI image height / step width 2.72 Binning horizontal Binning vertical - Binning method - Binning method - Binning method M/C automatic Subsampling method M/C automatic Subsampling factor 2, 4, 6, 8, 16	Sensor type	CMOS Color
Readout mode Pixel Class 3 MP Resolution 3.17 Mpix Resolution (h x v) 2056 x 1542 Pixel Aspect ratio 4:3 ADC 12 bit Color depth (camera) 12 bit Optical sensor class 1/1.8" Optical Size 7.093 mm x 5.320 mm Optical sensor diagonal 8.87 mm (1/1.8") Pixel size 3.45 µm Micro lens shift 0.00 Manufacturer Sony Sensor Model IMX265LQR-C Gain (master/RGB) 24x/4x AOI horizontal AOI vertical AOI writical AOI image width / step width 2/2 AOI position grid (horizontal/vertical) Binning vertical Binning method Binning factor Subsampling horizontal Subsampling method M/C automatic	Shutter	Global Shutter
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Resolution 3.17 Mpix Resolution (h x v) 2056 x 1542 Pixel Aspect ratio 4:3 ADC 12 bit Color depth (camera) 12 bit Optical sensor class 1/1.8" Optical Size 7.093 mm x 5.320 mm Optical sensor diagonal 8.87 mm (1/1.8") Pixel size 3.45 µm Micro lens shift 0.00 Manufacturer Sony Sensor Model IMX265LQR-C Gain (master/RGB) 24x/4x AOI horizontal same frame rate AOI vertical increased frame rate AOI wertical 2/2 AOI position grid (horizontal/vertical) 4 / 2 Binning heright / step width - Binning method - Binning factor - Subsampling horizontal same frame rate Subsampling method M/C automatic	Readout mode	Progressive scan
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Binning vertical - Binning method - Binning factor - Subsampling horizontal same frame rate Subsampling vertical increased frame rate Subsampling method M/C automatic	AOI position grid (horizontal/vertical)	4/2
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Binning factor - Subsampling horizontal same frame rate Subsampling vertical increased frame rate Subsampling method M/C automatic	Binning vertical	-
Subsampling horizontal same frame rate Subsampling vertical increased frame rate Subsampling method M/C automatic	Binning method	-
Subsampling vertical increased frame rate Subsampling method M/C automatic	Binning factor	-
Subsampling method M/C automatic	Subsampling horizontal	same frame rate
	Subsampling vertical	increased frame rate
Subsampling factor 2, 4, 6, 8, 16	Subsampling method	M/C automatic
	Subsampling factor	2, 4, 6, 8, 16



Subject to technical modifications (2024-05-02)



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Model

Pixel clock range	70 MHz - 140 MHz
Frame rate freerun mode (in 8-bit mode)	36 fps
Frame rate trigger (continuous)	36 fps
Frame rate trigger (maximum)	36 fps
Exposure time (minimum - maximum)	0.031 ms - 1000 ms
Long exposure (maximum)	30000 ms
Power consumption	1.7 W - 2.8 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. For PCB versions, refer to the separate hints in the respective documentation.

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	GigE RJ45
I/O connector	8-pin Hirose connector (HR25-7TR-8PA(73))
Power supply	12 V - 24 V or PoE

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	Input power supply (VCC) 12-24 V DC



Design

0	
Lens Mount	C-Mount
IP code	-
Dimensions H/W/L	34.0 mm x 44.0 mm x 35.0 mm
Mass	63 g