IDS

UI-5040SE-M-GL Rev.4.2 (AB12617)

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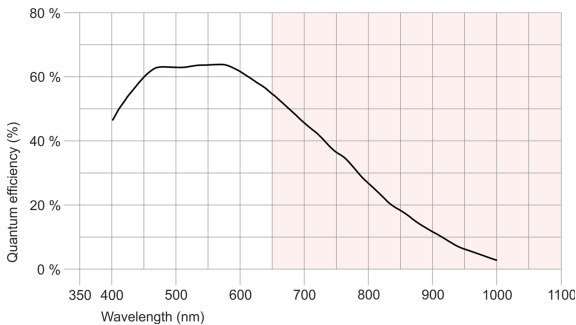The model is in series and available for the long term.

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

Specification

Sensor

Sensor type	CMOS Mono
Shutter	Global Shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	1.6 MP
Resolution	1.57 Mpix
Resolution (h x v)	1448 x 1086 Pixel
Aspect ratio	4:3
ADC	12 bit
Color depth (camera)	12 bit
Optical sensor class	1/3"
Optical Size	4.995 mm x 3.746 mm
Optical sensor diagonal	6.24 mm (1/2.56")
Pixel size	3.45 µm
Micro lens shift	0.00
Manufacturer	Sony
Sensor Model	IMX273LLR-C
Gain (master/RGB)	24x/4x
AOI horizontal	same frame rate
AOI vertical	increased frame rate
AOI image width / step width	256 / 8
AOI image height / step width	2 / 2
AOI position grid (horizontal/vertical)	4 / 2
Binning horizontal	increased frame rate
Binning vertical	increased frame rate
Binning method	Mono
Binning factor	2
Subsampling horizontal	same frame rate
Subsampling vertical	increased frame rate
Subsampling method	M/C automatic
Subsampling factor	2, 4, 6, 8, 16

Subject to technical modifications (2024-05-03)

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Model

Pixel clock range	25 MHz - 140 MHz
Frame rate freerun mode (in 8-bit mode)	73 fps
Frame rate trigger (continuous)	73 fps
Frame rate trigger (maximum)	77 fps
Exposure time (minimum - maximum)	0.025 ms - 999 ms
Long exposure (maximum)	30000 ms
Power consumption	1.1 W - 3.5 W
Image memory	128 MB
Special features	IDS line scan mode Overlap trigger Sensor source gain Multi-AOI

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	GigE RJ45, screwable
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
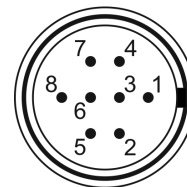
Design

Lens Mount	C-Mount
IP code	IP30
Dimensions H/W/L	34.0 mm x 44.0 mm x 47.0 mm
Mass	107 g