IDS:

UI-1490LE-C-HQ (AB.0010.1.45300.24)

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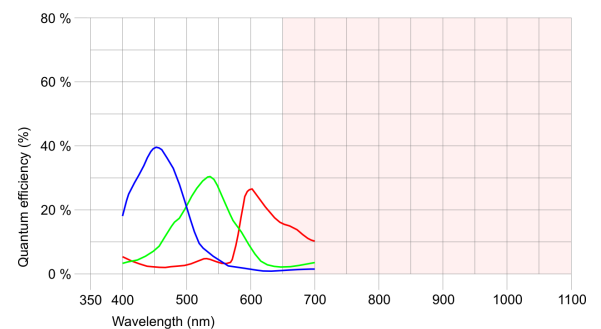The model is in series and available for the long term.

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iDS peak 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 Color
Shutter	Rolling shutter
Sensor characteristic	Linear
Readout mode	Progressive scan
Pixel Class	10 MP
Resolution	10.55 Mpix
Resolution (h x v)	3840 x 2748 Pixel
Aspect ratio	4:3
ADC	12 bit
Color depth (camera)	8 bit
Optical sensor class	1/2"
Optical Size	6.413 mm x 4.589 mm)
Optical sensor diagonal	7.89 mm (1/2.03")
Pixel size	1.67 μm
Manufacturer	Onsemi
Sensor Model	MT9J003STC
Gain (master/RGB)	8.5x/5.3x
AOI horizontal	increased frame rate
AOI vertical	increased frame rate
AOI image width / step width	448 / 4
AOI image height / step width	4 / 2
AOI position grid (horizontal/vertical)	4 / 2
Binning horizontal	increased frame rate
Binning vertical	increased frame rate
Binning method	Color
Binning factor	2 / 4
Subsampling horizontal	increased frame rate
Subsampling vertical	increased frame rate
Subsampling method	Color
Subsampling factor	2, 4

Subject to technical modifications (2023-04-20)

www.ids-imaging.com

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Model

Pixel clock range	5 MHz - 36 MHz
Frame rate freerun mode	3.2 fps
Frame rate trigger (maximum)	3.2 fps
Exposure time (minimum - maximum)	0.340 ms - 14582 ms
Power consumption	0.5 W - 1.3 W

Ambient conditions

The temperature values given below refer to the outer device temperature of the camera housing.
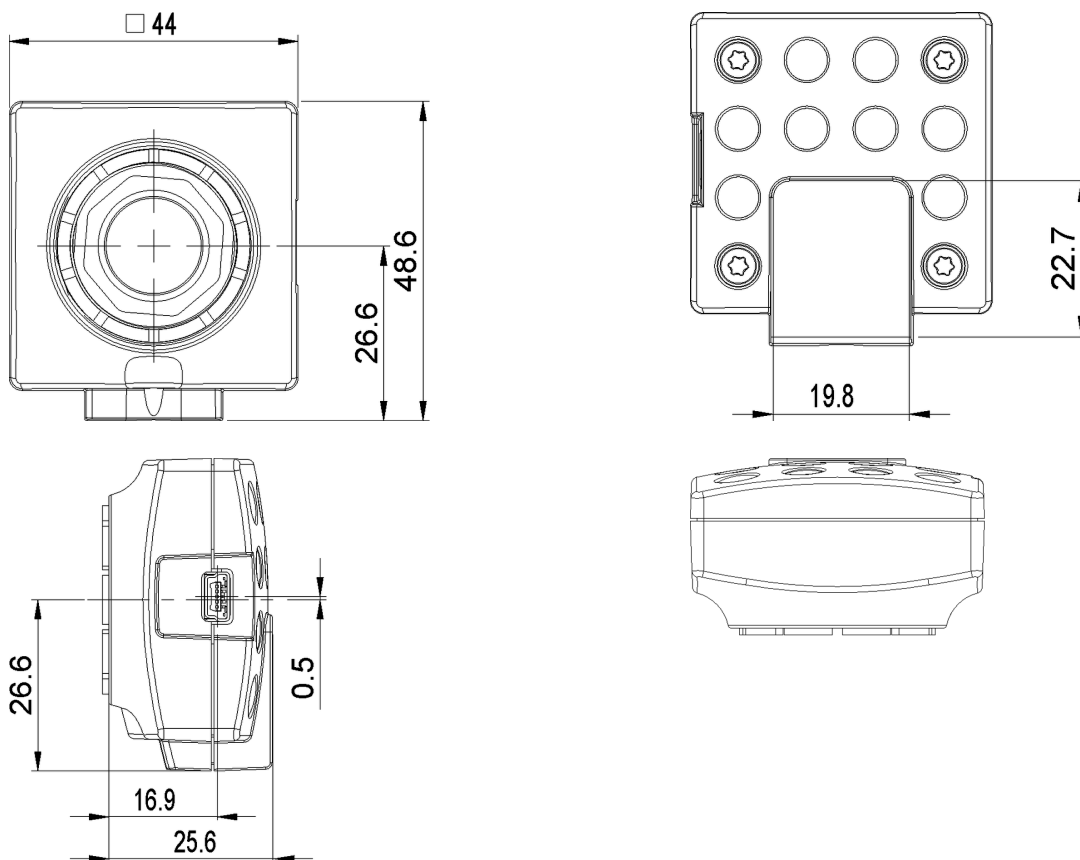
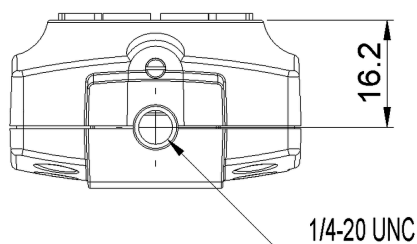|	
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 80 °C / -4 °F - 176 °F
Humidity (relative, non-condensing)	20 % - 80 %

Connectors

Interface connector	USB 2.0 mini-B
I/O connector	-
Power supply	USB cable

Design

Lens Mount	CS- / C-Mount
IP code	IP30
Dimensions H/W/L	48.6 mm x 44.0 mm x 25.6 mm
Mass	41 g

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16.2

1/4-20 UNC

Features

Image Acquisition		
Freerun	✓	
Software trigger	-	
Hardware trigger	✓	
Trigger controlled exposure	-	
Denoiser	-	
Long exposure	-	
Line scan	-	
Line scan highspeed	-	
Global start	-	

Flashing		
Flashing	-	
PWM flashing	-	

Image Adjustments		
Auto exposure	-	
Auto gain	-	
Auto whitebalance	-	
Color correction	-	
Gamma	-	
LUT	-	
Mirror/flip	-	

On-board Image Processing		
Pixel formats		
Region of interest	✓	
Decimation (FPGA)	-	
Decimation (Sensor)		
Binning (FPGA)	-	

Others		
Chunks	-	
Sequencer	-	
Firmware update	-	
1st supported firmware version	3.51	

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