

# UI-3591LE-C-HQ-AF Rev.2 (AB02622)

Discontinued
The model has been discontinued.









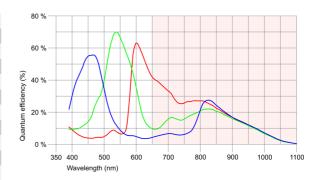


uEye industrial cameras now also work with IDS peak! We recommend the Software Development Kit for the implementation of new projects. <u>Learn about the process here and switch now.</u>
Please note: The technical data given here was measured using the IDS Software Suite.

# Specification

#### Sensor

CMOS Color
Rolling shutter
Linear
Progressive scan
18 MP
18.10 Mpix
4912 x 3684 Pixel
4:3
10 bit
12 bit
1/2.3''"
6.140 mm x 4.605 mm
7.68 mm (1/2.08")
1.25 µm
Onsemi
AR1820HSSC00SHEA0
16x/4x
same frame rate
increased frame rate
320 / 4
240 / 2
8/2
same frame rate
increased frame rate
Color
2/4
same frame rate
increased frame rate
Color
2, 4



Subject to technical modifications (2025-06-03)



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#### Model

Pixel clock range	96 MHz - 432 MHz
Frame rate freerun mode	20
Frame rate trigger (maximum)	20
Exposure time (minimum - maximum)	0.013 ms - 999 ms
Power consumption	0.9 W - 1.3 W

## 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.

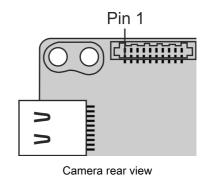
Device temperature during operation	0 °C - 55 °C / 32 °F - 131 °F
Device temperature during storage	-20 °C - 80 °C / -4 °F - 176 °F
Humidity (relative, non-condensing)	20 % - 80 %

## Connectors

Interface connector	USB Type-C
I/O connector	10-pin Molex connector (IllumiMate)
Power supply	USB cable

# Pin assignment I/O connector

1	Voltage output (USB Power Delivery), 5-15 V
2	Ground (GND)
3	General Purpose I/O (GPIO) 2, 3.3 V
4	General Purpose I/O (GPIO) 1, 3.3 V
5	TWI (Two Wire Interface) clock signal
6	TWI (Two Wire Interface) data signal
7	Trigger input without optocoupler 3.3 V
8	Flash output without optocoupler 3.3 V
9	Ground (GND)
10	Voltage output 3.3 V



## Design

0	
Lens Mount	S-Mount
IP code	-
Dimensions H/W/L	36.0 mm x 36.0 mm x 19.9 mm
Mass	21 g