

# USB 3 uEye® LE Installation

Housed version



Housed and board-level version



## System requirements

### Hardware

PC with Intel i5 or better  
Free USB 3.0 port (Super Speed)

### Operating system

Windows 7 SP1/8/8.1/10 (32/64-bit)  
Linux > Kernel 3.4 (32/64-bit)

### Software

Install a software that supports the USB3 Vision protocol to operate the camera.

## Ambient conditions

### Device temperature during operation

0 °C ... +55 °C (+32 °F ... +131 °F)

### Device temperature during storage

-20 °C ... +80 °C (-4 °F ... +176 °F)

### Relative humidity

20 % ... 80% (non-condensing)

**CAUTION!** As the camera housing may get hot depending on the operating conditions there may be risk of burns. Provide sufficient heat dissipation so that the housing temperature does not exceed 55 °C (131 °F).

## Intended use

IDS industrial cameras are to be used to capture images for visualization and image processing tasks. The devices are designed for use in industrial environments.

## Safety instructions

Read carefully the information in the camera manual\* before installing and using the product. The producer is not responsible for damages and injury, which can occur due to false handling of the product and ignoring the safety instructions. All warranty will be spoiled in this case.

- The product is not authorized for use in security relevant applications. If it is used in security relevant applications, the customer is responsible for the necessary approvals.
- If the product is modified or changed CE, FCC, and/or UL approval becomes invalid. In this case the customer is responsible for ensuring product conformity.
- This product is not a toy and should be kept and operated out of reach of children.

The product must be connected, taken into operation and maintained only by appropriately qualified personnel.

- The camera must be installed in such way that the specifications are met which are described in the camera manual\*.
- Only operate the product under ambient conditions described in the camera manual\* for each product. Carefully observe the IP protection class for your camera.
- Do not subject this product to direct sunlight, moisture or shock.
- Lay cables in such way that no one can step on or they do not represent a trip hazard.
- Keep packing materials like films away from children. In case of abuse there is a risk of suffocation.

\* <http://en.ids-imaging.com/manuals-ueye.html>

## Welcome

Read these short instructions and see how easy it is to setup your new IDS camera.

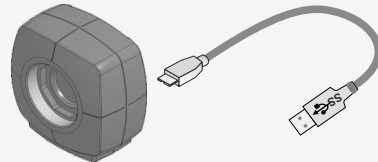
## Get support

[support@ids-imaging.com](mailto:support@ids-imaging.com)

IDS Imaging Development Systems GmbH  
Dimbacher Str. 6-8  
74182 Obersulm, Germany  
Phone: +49 7134 96196-0  
Fax: +49 7134 96196-99  
Email: [info@ids-imaging.com](mailto:info@ids-imaging.com)



## Connect the camera



Connect the camera to an USB 3.0 cable (not included).  
LED flashes green 3x/2x: USB 3.0/2.0 port detected.  
LED constant green: Camera is ready.

**Board-level version only:** Make sure to avoid mechanical or electrical damage of the printed circuit board or its connections.

## USB3 Vision drivers

To ensure full compliance to the USB3 Vision standard, the camera does not support functions which are not covered by the standard.

### Note on cable lengths

Cables with the following length are available from IDS:

- Passive up to 8 m
- Active up to 15 m
- Fiber 100 m

## Important Product information



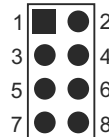
### Attention!

The digital input of the **board-level camera** is **not** potential-free and has **no** protective circuits. We do not accept any liability for any defects that are caused by faulty wiring. More information can be found in the camera manual on: <http://www.ids-imaging.com>

Do not touch the printed circuit board while it is powered. Always hold the board by the edges to avoid the risk of electrostatic discharge damage.

## Board-level version: 8-pin plated through holes (RM 1,27 mm/50 mil)

- 1 USB power supply ( $V_{cc}$ ) 5 V
- 2 USB ground (GND)
- 3 Trigger input without optocoupler (+)
- 4 Flash output without optocoupler (+)
- 5 General purpose I/O (GPIO) 1
- 6 General purpose I/O (GPIO) 2
- 7 I<sup>2</sup>C bus clock signal
- 8 I<sup>2</sup>C bus data signal



## Further information

More information about the USB3 Vision standard and the various camera models and future firmware updates can be found on our website at:

[www.ids-imaging.com/u3v](http://www.ids-imaging.com/u3v)