

# uEye® SE USB 3.1 Gen 1 Installation

## Further information

Detailed information for each camera model can be found under [www.ids-imaging.com](http://www.ids-imaging.com).



## Get support

<https://en.ids-imaging.com/support.html>

IDS Imaging Development Systems GmbH  
Dimbacher Str. 6-8  
74182 Obersulm, Germany  
T: +49 7134 96196-0  
E: [info@ids-imaging.com](mailto:info@ids-imaging.com)  
W: <https://de.ids-imaging.com>

## Important information

**WARNING!** A USB hub with external power supply may cause painful or dangerous electric shock. Serious injury or death may occur. Use a USB hub that meet the requirements for SELV (safety extra low voltage)/LPS (limited power source) or ES1/PS2.

**NOTICE!** PCB version only: Make sure to avoid mechanical or electrical damage of the printed circuit board or its connections.

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.

## 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

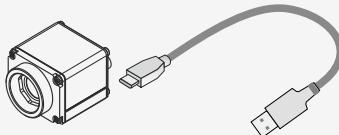
Device temperature during operation  
0 °C ... +55 °C (+32 °F ... +131 °F)

Device temperature during storage  
-20 °C ... +60 °C (-4 °F ... +140 °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).

## Connect the camera



Connect the camera to the PC using the USB cable (not included). The camera can be connected to a USB 3.0 port either directly or via hubs and repeaters.

## IDS peak

IDS peak is a comprehensive software package from IDS Imaging Development Systems GmbH that can be used with both USB3 Vision and GigE Vision compatible industrial cameras. IDS peak offers as "Programming Environment and Application Kit" all necessary tools to open and parameterize GenICam-compatible cameras in an application with a graphical user interface or to program your own applications.

You can download IDS peak under:  
<https://en.ids-imaging.com/downloads.html>

## Pin assignment of 8-pin connector (Hirose HR 25)

- 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 Voltage output (USB Power Delivery), 5-15 V, max. 500 mA



Pins – View on camera

## Copyright

### mbed TLS

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The camera firmware uses the **mbed TLS** library under the Apache license, version 2.0 (<http://www.apache.org/licenses>).

## Intended use

IDS industrial cameras are to be used to capture images for visualization and image processing tasks. They are designed for use in industrial environments. Please comply with the requirements for the proper use of this product. Failure to do so will render the warranty void.

## Safety instruction

Read carefully these safety instructions 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 used in security relevant applications, the customer is responsible for the necessary approvals.
- If the product is modified or changed, all approval becomes invalid. In this case, the customer is responsible for ensuring product conformity.
- The warranty expires if the product is improperly disassembled, reworked or repaired by the customer or a third party and IDS Imaging Development Systems GmbH assumes no liability for defects. If you need service, please contact the support team.
- The product is not a toy. Operate and store out of the reach of children.

The product must be connected, taken into operation and maintained only by appropriately qualified personnel. The error-free and safe operation of this product can only be ensured if it is properly transported, stored, set up and assembled, and operated and maintained with due care. The installation, inspection, maintenance, extension, and repair may only be done by authorized personnel.

- Observe the specifications in the documentation when installing the product.
- Do not subject the product to direct sunlight, moisture or shock. Note in particular the permitted IP code of the product.
- Only operate the product under ambient conditions for which the respective product is approved. The use under other ambient conditions may result in damage.
- To avoid any damage to the connectors, only mount or remove the product with the cables disconnected.
- Lay cables in such way that no one is endangered.
- Before starting up, check if the electrical wiring corresponds to the specifications in the documentation. Faulty wiring (overvoltage, undervoltage) can result in a damage in the electronics.