GigE uEye® LE Motherboard Installation

c UL us LISTED
I.T.E.
E347840

Manuals

For detailed information on this model and the software please go to “Programs > IDS > uEye > Help” after the installation on your PC or go to “Support > Manuals“ on our website www.ids-imaging.com.

Get support

support@ids-imaging.com

IDS Imaging Development Systems GmbH
Dimbacher Strasse 6-8
74182 Obersulm, Germany

Made in Germany

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 online 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.

1. Download the latest driver

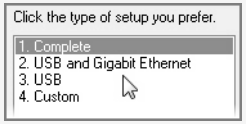
www.ueyesetup.com

Please note that free registration or login is required to download IDS Software Suite.

You can download the latest software for your uEye® camera from www.ueyesetup.com. All files are packed in ZIP archives.

For a Windows installation you can choose the full software setup or the smaller “Drivers only” package.

2. Install the software



Extract the ZIP archive and start the setup (.exe file). You can now choose to install the complete software or define a customized setup.

Select “1. Complete” to install all drivers with demo applications and manuals.

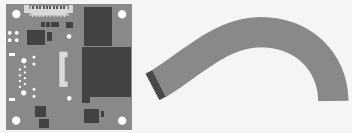
System requirements

PC with Intel i3 or better
Free Ethernet port (1000 Mbit/s)

Memory: min. 2 GB
Disk space: min. 500 MB

Operating system:
Windows 7 SP1/8/8.1/10 (32/64-bit)
Linux > Kernel 2.6 (32/64-bit)

3. Connect the camera



Connect the camera via a flex ribbon cable to the daughterboard (not included).

Make sure to avoid mechanical or electrical damage of the printed circuit board or its connections.

Use the **IDS Camera Manager** to choose a network adaptor for the uEye® network service.

4. Capture images

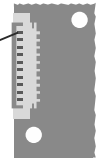
Software to operate your uEye® camera can be found via “Start > All Programs > IDS“.

Use the **IDS Camera Manager** to configure all connected uEye® cameras. It is recommended to activate “Automatic ETH configuration“ on first start.

With **uEye Cockpit** (Windows)/**uEye Demo** (Linux) you can change camera settings and capture and save images.

10-pin Molex connector

1 Ground (GND)
2 V_{OUT} 3.1 V, max. 100 mA
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^2C bus clock signal
8 I^2C bus data signal
9 V_{IN}+ 12 V (160 mA) - 24 V (90 mA)
10 V_{IN}- (GND)



The pin assignment of the 20-pin ZIF connecting plug is described in the uEye manual.

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 instruction

Read carefully the information in the online 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 the CE, FCC and/or UL approval becomes invalid. In this case the customer is responsible for ensuring product confirmity.
- 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 online manual*.
- Only operate the product under ambient conditions described in the online 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 packaging material like films away from children. In case of abuse there is a risk of suffocation.

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

CK01242 – 06/2017