# How to Install uEye Cameras

PULSE<sup>™</sup> LabShop and BK Connect<sup>®</sup> array applications support the following uEye<sup>®</sup> cameras:

- · For spherical arrays with USB connection: use UI122xLE-C
- · For other arrays with USB connection: use UI324xCP-C or UI124xLE-C
- For sliced wheel arrays with PoE or LAN connection: use UI524xCP-C

The cameras use the same drivers. However, there are different drivers for 32-bit and for 64-bit operating systems and for different versions of PULSE LabShop and BK Connect:

- PULSE 18 and 19 require version 4.22
- PULSE 20 through PULSE 22 require version 4.70
- From BK Connect 2019 and PULSE 23, the required version is 4.91

#### Installation

- 1) Copy the zip file containing the drivers from the USB key supplied with the system, or from another device, to the target machine, or download the file from hbkworld.com.
- 2) Unzip the file.
- 3) Run the .exe file.
- 4) Select the setup language and click Next >.
- 5) Click Install driver.

iDS		uĘį
Welcome to the installa	ation program for the IDS uEye cam	era family.
Please choose one of	the following options.	
Install driver	Start the installation	
"WhatsNew.txt"	Show file with the latest informa	tion regarding this driver release
Check USB bus	Show all USB controllers	
tallShield		
tallShield		Close
tallShield	22	Close
S uEye Setup 64-Bit 4. Setup Type	22 that best suits your needs.	
S uEye Setup 64-Bit 4. Setup Type	that best suits your needs.	
UEye Setup 64-Bit 4. Setup Type Select the setup type Click the type of setup [1. Complete	that best suits your needs. 9 you prefer.	Description
SuEye Setup 64-Bit 4. Setup Type Select the setup type Click the type of setup	that best suits your needs. 9 you prefer.	u
GuEye Setup 64-Bit 4. Setup Type Select the setup type Click the type of setup 1. Complete 2. USB and Gigabit E 3. USB	that best suits your needs. 9 you prefer.	Description Installation of all uEye USB components except 3rd party
GuEye Setup 64-Bit 4. Setup Type Select the setup type Click the type of setup 1. Complete 2. USB and Gigabit E 3. USB	that best suits your needs. 9 you prefer.	Description Installation of all uEye USB components except 3rd party
GuEye Setup 64-Bit 4. Setup Type Select the setup type Click the type of setup 1. Complete 2. USB and Gigabit E 3. USB	that best suits your needs. 9 you prefer.	Description Installation of all uEye USB components except 3rd party
GuEye Setup 64-Bit 4. Setup Type Select the setup type Click the type of setup 1. Complete 2. USB and Gigabit E 3. USB	that best suits your needs. 9 you prefer.	Description Installation of all uEye USB components except 3rd party

6) Select:

- For a PoE/LAN camera: USB and Gigabit Ethernet
- For a USB camera: USB

7) Click Next > and follow the on-screen instructions until the driver is installed.

# USB Camera Setup

#### NOTE:

- The camera requires power over USB
- The camera may not work with USB-Ethernet-USB extension cables
- 1) Plug in the camera and wait until the PC has recognized the device.
- 2) Start the PULSE LabShop template Array Fixed Meas.plt or start BK Connect Array Analysis.
- 3) Once the application has started, select the camera from the drop-down list in the Camera window.

# www.hbkworld.com

# PoE/LAN Camera Setup

#### 1) Open IDS Camera Manager.

105 Camera Manager - 64-Bit - 0 × amera list Free Aval. Type Cam.ID Dev.ID Model Exper General in Camera in Create support file ETH network service Automatic ETH configuration Additional functions iDS ids: 📰 English 🗸 🗸 Close of device Nr. 1001: The camera is configure



Camera Is	t						Parameters		
Free	Avail.	Type	Cam.ID	Dev.ID	Model	SerNo.	Parameter	Value	
Yes	Yes	ETH	1	1001	UI-524xCP-C	4102887652	Device		
							🖃 General		
							Runtime firmware version	0.00.0000	
							Starter firmware version	4.70.0004	
							User EEPROM (8 chars)		
							COM port number	99	
							Camera temperature	38.9° C (102.0° F)	
							Device statusflags	0x00002101	
							Control status	0x080000F3	
							😑 Hardware		
							Sensor ID	81	
							Image memory size	32 MB	
							Network		
							MAC address	00-1B-A2-1E-14-2C	
							Current IP address	10.100.32.7	
							Current IP subnetmask	255.255.240.0	
Control ce	nter						Persistent IP address	10.100.32.7	
Exp	ert mode				Automatic paramete	r refresh	Persistent IP subnetmask	255.255.240.0	
		al informatio			-	formation	IP range begin	172	
	Gener	al informatio	n	_	Camera in	ntormation	IP range end	(7)	
	Creat	e support fil			ETH natur	ork service	Paired host MAC	(14)	
	0.00	c sopport in	-		CHINCON	011 00 100	Paired host IP	14	
	Addit	onal function	s		Automatic ETh	I configuration	Multicast IP address	224.0.0.0	
							Link	0 Mbit/s	
	Upload :	itarter firmw	are		Manual ETH	configuration	Plugin counter	0	
							Local network adapter		
					2		😑 General		
							Designation	Intel(R) 82579LM Gigabit Netwo	rk
	ið		0		1.5	<b>C</b> :	Driver version	12.12.140.22	
	1					S	Driver date	2-15-2015	
							DHCP enabled	Yes	
							Number of known devices	1	
	English			-	Ck	100	Number of paired devices	0	
					~		Network		

#### 3) Open ETH network service.

- 4) Enter the following static address for the network adapter:
  - IP Address: 192.168.11.1
  - IP Subnetmask: 255.255.255.0

- fie Gigabit Et	hernet i Eve	
	nemet ucye P Virtual Ethernet Adapter #2	
	R) 82579LM Gigabit Network Connecti	m
	oft WI-FI Direct Virtual Adapter	
Intel(	R) Centrino(R) Ultimate-N 6300 AGN	
Status		
	net uEve network service is bound to	4 network adapters. Enable the
network service f	or all adapters Gigabit Ethernet uEve	cameras are linked to. Disable the
service for all oth service' or 'Disabl	er adapters. Select an adapter from t e uEve network service'.	ne list and click 'Enable uEye network
Network adapter		
MAC Address	D4 - BE - D9 - 71 - 4C - 45	Disable uEye network service
IP Address	192 . 168 . 11 . 1	Apply changes
	255 . 255 . 255 . 1	Use 2K jumbo packets
IP Subnetmask	255 . 255 . 255 . 👔 🧥	Cose 2x jumbo paoxets
Dynamic Host Cor	nfiguration Protocol (DHCP) enabled	
		OK Can
ork service		
ork service		
ork service		
⊖-∳r Gigabit Eti		
⊟∳e Gigabit Eti PANGI	Virtual Ethernet Adapter #2	
Gigabit Eti	P Virtual Ethernet Adapter #2 8) 82579LM Gigabit Network Connection	n
Gigabit Eti IIII PANGI IIII Intel© IIIII Micros	P Virtual Ethernet Adapter #2 x) 82579LM Gigabit Network Connection oft WI-FI Direct Virtual Adapter	n
Gigabit Eti IIII PANGI IIII Intel© IIIII Micros	P Virtual Ethernet Adapter #2 8) 82579LM Gigabit Network Connection	n
Gigabit Et B PANGI B Intelü B Micros	P Virtual Ethernet Adapter #2 & 82579LM Gigabit Network Connectii oft Wi-Fi Direct Virtual Adapter & Centrino(R) Ultimate-N 6300 AGN	n
Gigabit Et B PANGI B Intelü B Micros	P Virtual Ethernet Adapter #2 & 82579LM Gigabit Network Connectii oft Wi-Fi Direct Virtual Adapter & Centrino(R) Ultimate-N 6300 AGN	n
Gigabit Eti Jigi PANG Jigi Intelü Jigi Intelü Jigi Intelü IdsCameraMan	P Virtual Ethernet Adapter #2 & 82579LM Gigabit Network Connectii oft Wi-Fi Direct Virtual Adapter & Centrino(R) Ultimate-N 6300 AGN	
Gigabit Ed By PANG By Intel() By Intel() IdsCameraMan	P Virtual Ethernet Adapter #2 3) 92579(M Gigabit Network Connectis oft Wi-FI Direct Virtual Adapter 3) Centrino(R) Ultimate-14 6300 AGN ager	
Gigabit Ed By PANG By Intel() By Intel() IdsCameraMan	P Virtual Ethernet Adapter #2 3) 82579/M Gigabit Network Connectiv Wi-Fi Direc Virbual Adapter R) Centrino(R) Ultimate-N 6300 AGN ager you want to assign a static IP addri	
Gigabit Ed By PANG By Intel() By Intel() IdsCameraMan	P Virtual Ethernet Adapter #2 3) 82579/M Gigabit Network Connectiv Wi-Fi Direc Virbual Adapter R) Centrino(R) Ultimate-N 6300 AGN ager you want to assign a static IP addri	ss and subnetmask (DHCP will
Gigabit Ed By PANG By Intel() By Intel() IdsCameraMan	P Virtual Ethernet Adapter #2 3) 82579/M Gigabit Network Connectiv Wi-Fi Direc Virbual Adapter R) Centrino(R) Ultimate-N 6300 AGN ager you want to assign a static IP addri	
Gashi Eli     Arage	Virbal Sternet Adopter #2 JoS7NM Gabit Hones Connections oft Wi-Fiberch Virbal Adopter (J) Centrol(R) Ultimate H 6300 AGN ager you want to assign a static (P addin deactivated) ?	ss and subnetmask (DHCP will Ves No
Gashi Eli     Arage	Vitual Stevent Adapter #2 (2023) MP Gally Hone's Connection off WH-Derbine(R) Ullenate-N 6300 AGN (verbine(R) Ullenate-N 6300 AGN you want to assign a static IP addre deactivited) ?	Yes No
Gabit Edit Sealer Sealer Sealer Sealer Geodetication Sealer Sea	Virbal Sternet Adopter #2 JoS7NM Gabit Hones Connections oft Wi-Fiberch Virbal Adopter (J) Centrol(R) Ultimate H 6300 AGN ager you want to assign a static (P addin deactivated) ?	ss and subnetmask (DHCP will Ves No
Gabit Edit Sealer Sealer Sealer Sealer Geodetication Sealer Sea	Vitual Elevanet Adapter #2 2032/MF Gable Hone's Connection off WH-Discover Vitual Adapter (centrongR) Ullenate-N 6300 AGN sporr you want to scsign a static IP addor feact/when) ?	Yes No
Gogabit Edi     Jagi Parko     Jagi Tetel	Vitual Elevanet Adapter #2 2032/MF Gable Hone's Connection off WH-Discover Vitual Adapter (centrongR) Ullenate-N 6300 AGN sporr you want to scsign a static IP addor feact/when) ?	Yes No
P Address P Subnetmask	Vitual Elevent Adapter #2 JSS73NF Gable Hones Connections off WH-Direct Vitual Adapter (cerninoRP) Ulmate 44 6300 AGN ager you want to assign a static IP addin deectivated) ? 192 - 3686 - 11 - 1 255 - 255 - 255 - 0 A	Yes No

### 5) Click Apply changes and confirm.

6) Click Manual ETH Configuration.

7) Click Suggest for both the Adapter settings and the Selected device ID.



8) Verify that the configuration looks something like this:

```
Adapter Settings:
IP range begin: 192.168.11.1
IP range end: 192.168.11.254
Selected device ID:
Persistent IP: 192.168.11.2
Subnetmask: 255.255.255.0
```

The camera should now be available via uEye Cockpit.

9) Start the PULSE LabShop template Array Fixed Meas.plt or start BK Connect Array Analysis.

10)Once the application has started, select the camera from the drop-down list in the Camera window.

Hottinger Brüel & Kjær A/S www.hbkworld.com · info@hbkworld.com Local representatives and service organizations worldwide

Although reasonable care has been taken to ensure the information in this document is accurate, nothing herein can be construed to imply representation or warranty as to its accuracy, currency or completeness, nor is it intended to form the basis of any contract. Content is subject to change without notice – contact HBK for the latest version of this document.

