

Operating Instructions

DNNF024

Software wenglor weHub



EN



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1 General

1.1 Information Concerning these Instructions

- These instructions ensure the safe and efficient use of the product.
- These instructions are part of the product and must be retained for its entire service life.
- In addition, local accident prevention regulations and national occupational safety regulations must be observed.
- The product is subject to technical improvements, so the instructions and information in these operating instructions may also be subject to change. You can find the current version at www.wenglor.com in the product's download section.



INFORMATION

The operating instructions must be read carefully before use and kept for future reference.

1.2 Limitation of Liability

- The product has been developed in consideration of the current state-of-the-art technology, as well as applicable standards and guidelines. Subject to change without notice.
- A valid declaration of conformity can be accessed at www.wenglor.com in the product's separate download area.
- wenglor sensoric elektronische Geräte GmbH (hereinafter referred to as "wenglor") excludes all liability in the event of:
 - Non-compliance with the instructions
 - Use of the product for purposes other than those intended.
 - Use by untrained personnel.
 - Use of unapproved spare parts.
 - Unapproved modification of products.
- These operating instructions do not include any guarantees from wenglor with regard to the described procedures or specific product characteristics.
- wenglor assumes no liability for printing errors or other inaccuracies contained in these operating instructions unless wenglor was verifiably aware of such errors at the point in time at which the operating instructions were prepared.

1.3 Copyrights

- The contents of these instructions are protected by copyright law.
- All rights are reserved by wenglor.
- Commercial reproduction or any other commercial use of the provided content and information, in particular graphics and images, is not permitted without previous written consent from wenglor.

2 For Your Safety

2.1 Use for Intended Purpose

This Product Can Be Used in the Following Industry Sectors:

- Special-purpose mechanical engineering
- Heavy mechanical engineering
- Logistics
- Automotive industry
- Food industry
- Packaging industry
- Pharmaceuticals industry
- Plastics industry
- Woodworking industry
- Consumer goods industry
- Paper industry
- Electronics industry
- Glass industry
- Steel industry
- Aviation industry
- Chemicals industry
- Alternative energies
- Raw materials extraction

2.2 General Safety Precautions



INFORMATION

These instructions are an integral part of the product and must be kept on hand for the entire duration of its service life.

In the event of possible changes, the current version of the operating instructions can be found at www.wenglor.com in the product's separate download area.

Read the operating instructions carefully before using the product.

Protect the sensor against contamination and mechanical influences.

3 Technical Data

Technical data	DNNF024
General data	
Use	• For B60 • For MLASx1x • For MLBSx1x • For MVC
Version	1.2.0
Language	DE, EN, FR, IT, ES, TR, ZH
Licensing model	Freeware
Function	
Configuration software	Yes
Diagnostics software	Yes
System requirements	
Processor (minimum)	Intel Core i3 (6th generation)
RAM (minimum)	2 GB RAM
Free hard disc space	500 MB
Minimum resolution	1024 x 768 Pixel
Maximum resolution	4096 x 2160 Pixel
Minimum browser versions	• Chrome 108 • Chromium 111 • Firefox 108 • Microsoft Edge 108
Operating system	
Windows 10, 64 bit	Yes
Windows 11	Yes
Interface	
Ethernet	Yes

4 Software Installation

The latest version of the software wenglor weHub is available on the wenglor website:

<https://www.wenglor.com/product/DNNF024>

- Supported minimum browser versions (tested on Windows 10 22H2 and Windows 11 22H2 PCs):
 - Chrome 108
 - Firefox 108
 - Microsoft Edge 108
 - Chromium 111
- Accepting the license agreement is mandatory in order to install the software.
- Admin rights are necessary to install the software wenglor weHub.
- The software wenglor weHub is also available on the Machine Vision Controller MVC as part of the MVC firmware.

5 Network Overview

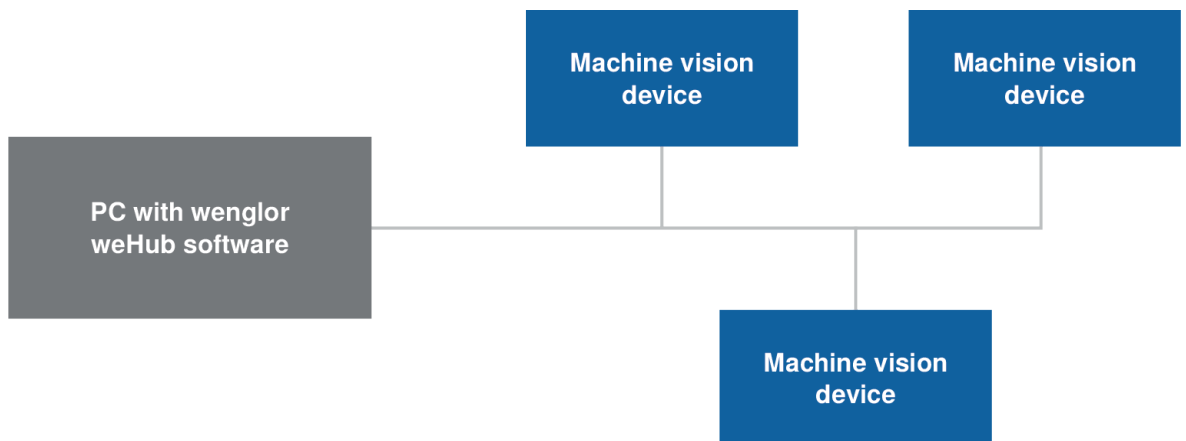
5.1 Network Cable Connection

Connect the network cable from the LAN Ethernet connector of the machine vision device to the PC with the wenglor weHub software or to a switch in order to bring several devices together.



NOTICE

1. For details about the LAN Ethernet connector of the machine vision device, check the operating instructions of the device.
2. Cabling must be capable of 1 Gbit/s throughout the entire network.
3. Connecting machine vision devices via gateway to the PC with the wenglor weHub software is not supported.



5.2 Network Basics

The network part of the IP address of the machine vision device must coincide with the network part of the IP address of the PC with the wenglor weHub software. The device part of the IP address must be different for the machine vision device and the PC.

Address format for IPv4:

	Network part	Device part (host part)
IP address	192.168.100.	001
Subnet mask	255.255.255.	000

Use the wenglor weHub software to:

- See the network settings of the PC
- See and edit the network settings of the machine vision device in order to bring it in the same network like the PC, e.g.:



5.3 Network Settings of PC with wenglor weHub Software

Open the network settings of the PC and make sure that the network configuration fits, e.g. use the static IPv4 address:

- IP address: 192.168.101.2
- Subnet mask: 255.255.255.0
- Gateway: 0.0.0.0



NOTICE

1. By default, the IP address of the network adapter card of the PC is typically set to obtain the IP address by DHCP server (automatic allocation). Change the setting to a static IP address and select a unique IP address in the network.
2. For details about the network settings of the PC, check the operating instructions of the operating system.

5.4 Default LAN Ethernet Settings of Machine Vision Device

Default LAN Ethernet settings of machine vision devices:

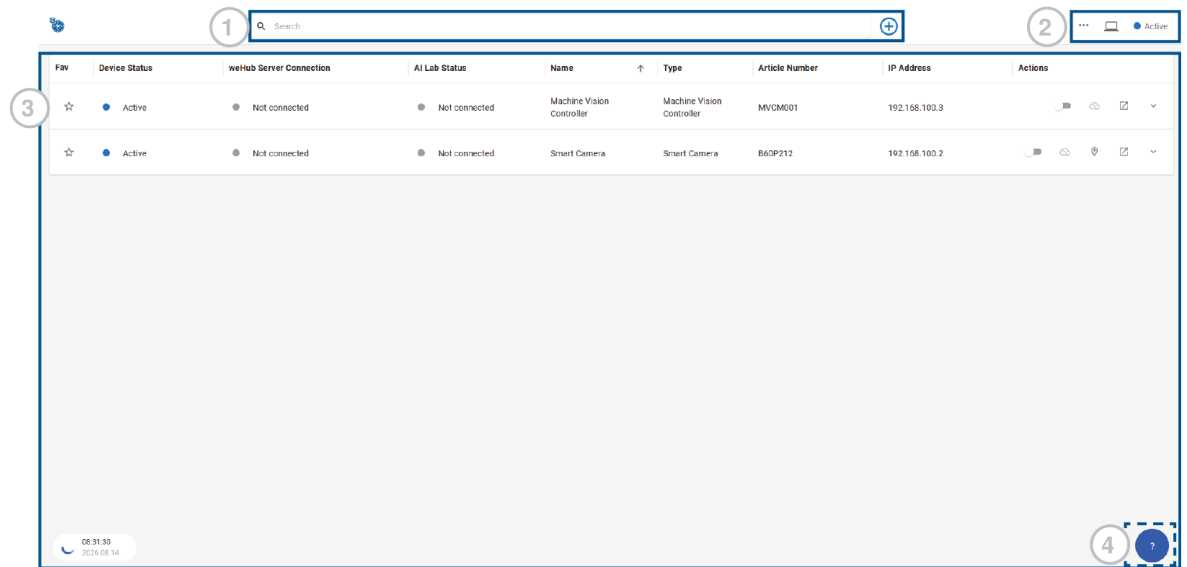
- IP address: 192.168.100.1
- Subnet mask: 255.255.255.0
- Gateway: 0.0.0.0

6 wenglor weHub Software

6.1 Structure

The wenglor weHub software is divided in several areas:

- 1: Device Search and option to add devices by IP address
- 2: Icon Menu Bar and status of the weHub software
- 3: Workspace
- 4: Help Button (see Help Button [► 27]).



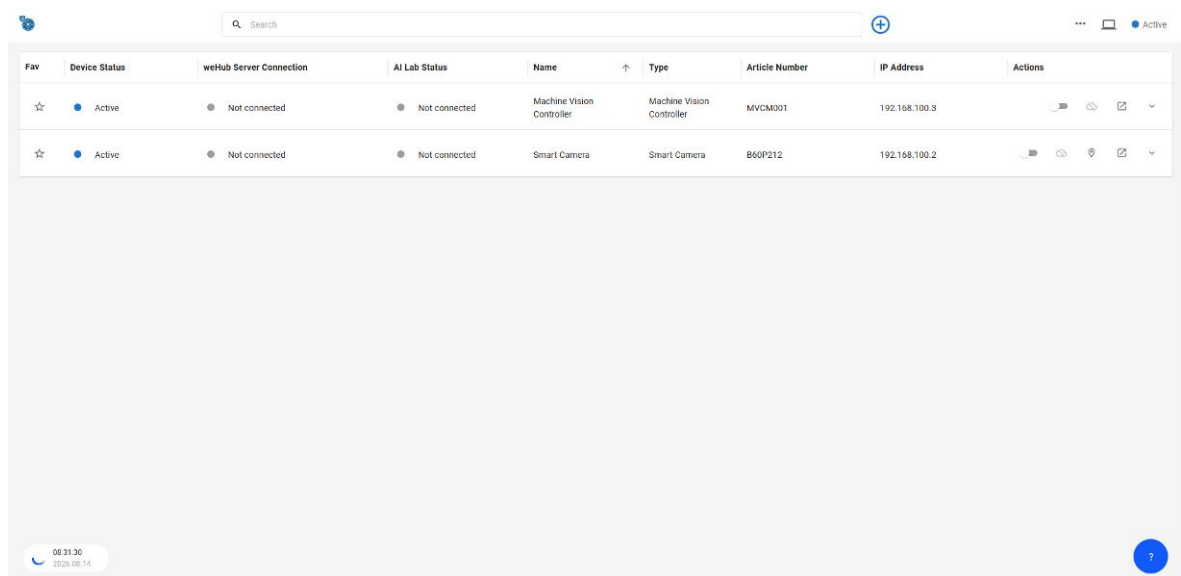
6.2 Finding Machine Vision Devices

Starting the wenglor weHub software opens the default browser on the PC and lists all machine vision devices of the network in the workspace area.

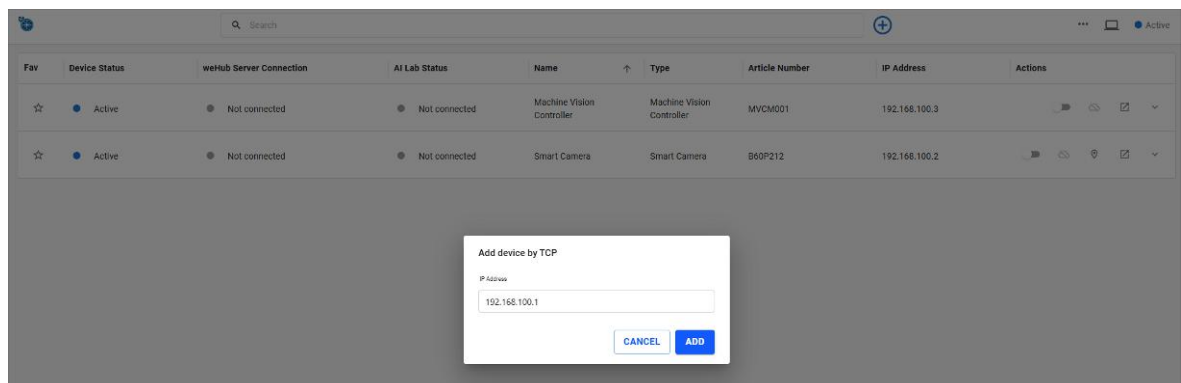


NOTICE

1. Use the device search in case of several machine vision devices in the same network.
2. The wenglor weHub software finds machine vision devices even if they are in a different subnet.
3. Connecting machine vision devices via gateway to the PC with the wenglor weHub software is not supported via the automatic UDP search mechanism. In case of gateways, use the option “Add device by IP address”.
4. On the Machine Vision controller the software wenglor weHub finds the MVC itself and Machine Vision Devices that are connected via the LAN Ethernet connectors of the MVC.



If devices are not found via the automatic UDP search, it is also possible to add devices by IP address (if they are in the same network). Press the button “Add device by IP address”, enter the IP address and click on the button “ADD”. The software weHub creates then a TCP connection via port 33007 to the Machine Vision Device to add the device. Make sure that the port 33007 is not blocked by the network.



If the device is not in the list, please check the following points:

1. Check the power supply of the machine vision device and wait until the device has booted completely.
2. Check the Ethernet connection between the machine vision device and the PC.
3. Make sure that UDP communication on port 33001 and 33002 is possible in the firewall settings of the PC and that the ports 33001 and 33002 are available (not used by any other user or any other application on the PC).



NOTICE

- The Windows firewall may block some functions of the software wenglor weHub. In order to prevent this, the software must be granted access for communication via private and public networks or completely deactivate the Windows firewall.
- Make sure that the IP address of the PC with the software wenglor weHub is unique within the network. Otherwise it might be possible that the PC automatically gets a different network configuration. This does not allow the wenglor weHub software to bind on the ip and port. On Windows PCs you can check the current network configuration via ipconfig.
 - Make sure that the PC with the software wenglor weHub has a different network configuration than the machine vision device. In case of booting the machine vision device later with the same network configuration like the PC, it cannot be found by the wenglor weHub software. Change the network settings of the PC with the software wenglor weHub to a unique network configuration within the network in order to find the machine vision device.
 - Reset the network settings on the machine vision device by pressing the button on the device and releasing it between 10 and 15 seconds. During such time, the Device Status LED on the device is blinking very fast in blue color to signal the network reset time. The device automatically performs a reboot in case of a network reset. It starts with the default network settings (see Default LAN Ethernet Settings of Machine Vision Device [► 8]).



NOTICE

- The button is not available on every machine vision device. For details about availability and position of the button, check the operating instructions of the machine vision device.
- To prevent unwanted network changes of the machine vision device via pressing the button, deactivate the button functionality on the device website. For details, check the operating instructions of the machine vision device.
- Add the device by IP address via the button “Add device by IP address” if it is not found via the automatic UDP search (e.g. if using a gateway between the PC with the weHub software and the Machine Vision Device).
- Access directly the device website via entering the IP address of the machine vision device in any supported browser. The default IP address of the device is 192.168.100.1 and the default subnet mask is 255.255.255.0. Please use a unique and static network configuration in the same network on your PC (e.g. IP address 192.168.100.10 and subnet mask 255.255.255.0).

6.3 Favorites

The Windows firewall may block some functions of the software wenglor weHub. In order to prevent this, the software must be granted access for communication via private and public networks or completely deactivate the Windows firewall.

Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
	Active	Not connected	Not connected	Machine Vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	



NOTICE

Devices marked as favorites remain in the list even if the devices are not available. Not available devices are shown with the device status “Inactive” (greyed out). It is not possible to change any setting of the machine vision device if inactive.

Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
	Inactive	Not connected	Not connected	Machine Vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	

6.4 Localize

Localizing helps to differentiate in an easy way between several machine vision devices in the same network. If activated, the Device Status LED of the device blinks blue and the device status in the software shows “Localizing” to highlight one specific device. Localizing can be activated by pressing the button in the wenglor weHub software or by pressing the button on the machine vision device.



NOTICE

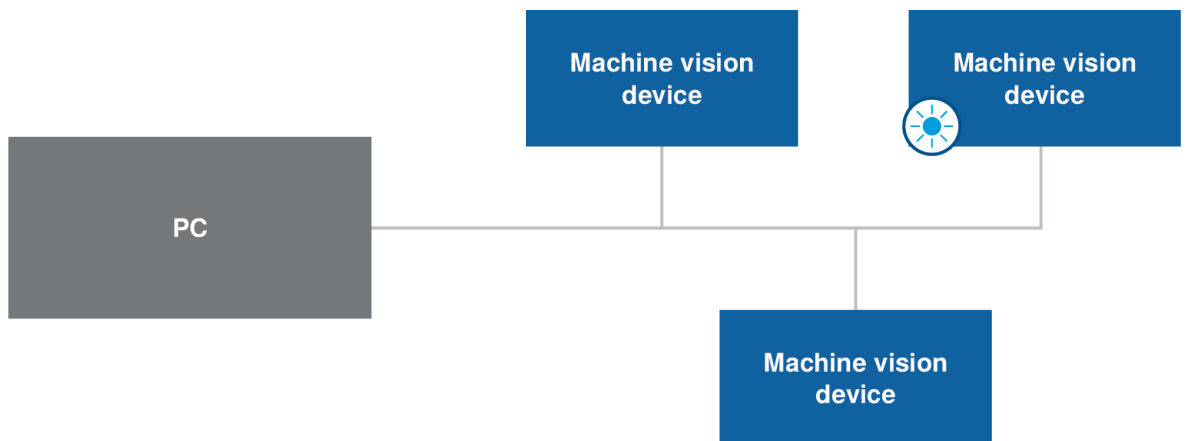
1. The button is not available on every machine vision device. For details about availability and position of the button, check the operating instructions of the machine vision device.
2. To prevent unwanted blue blinking of the machine vision device via pressing the button, deactivate the button functionality on the device website. For details, check the operating instructions of the machine vision device
3. Deactivate localizing by pressing the button again in the wenglor weHub software or on the machine vision device.

6.4.1 Start via wenglor weHub Software

Activate localizing by pressing the “Localize” button in the software.

Star	Device Status	weHub Server Connection	All Lab Status	Name	Type	Article Number	IP Address	Actions
☆	Active	Not connected	Not connected	Machine vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	[Icons]
☆	Localizing	Not connected	Not connected	Smart Camera	Smart Camera	B00P212	192.168.100.1	[Icons] Localize

The device status LED of the relevant machine vision device is blinking blue.



INFORMATION

If authentication is activated on the device, entering username and password is necessary to start or stop localizing of the machine vision device. For details, check the operating instructions of the machine vision device.

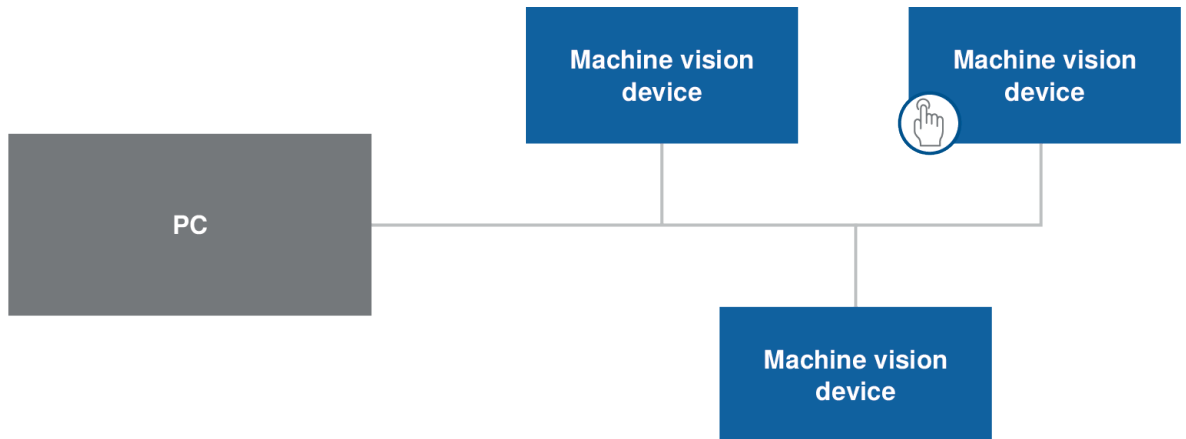
6.4.2 Start on Machine Vision Device

If authentication is activated on the device, entering username and password is necessary to start or stop localizing of the machine vision device. For details, check the operating instructions of the machine vision device.



NOTICE

The button is not available on every machine vision device. For details about availability and position of the button, check the operating instructions of the machine vision device.



The device status in the wenglor weHub software shows “Localizing” at the relevant device and the device is blinking blue.

Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
☆	Active	Not connected	Not connected	Machine Vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	[Icons]
☆	Localizing	Not connected	Not connected	Smart Camera	Smart Camera	B6SP212	192.168.100.1	[Icons]

6.5 Device Status

The device status in the wenglor weHub software signals the following states:

- Blue: Active (running)
- Blue blinking: Localizing (device is blinking, see Localize [► 12])
- Yellow: WARNING (e.g. unwanted position change)
- Red: ERROR (e.g. crashed software service)



NOTICE

Depending on the device, different warning and error states are available. For details, check the operating instructions of the machine vision device.

6.6 Edit Name and Network Configuration

If the network settings of the machine vision device do not fit to the PC network settings, a warning symbol next to the IP address of the device shows the mismatch.

Search

Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
☆	● Active	● Not connected	● Not connected	Machine Vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	
☆	● Active	● Not connected	● Not connected	Smart Camera	Smart Camera	B6CP212	192.168.99.1	

The device is currently not accessible with the network settings of the PC. Please make sure that both fit together

Open the extended device view in order to edit the name or the LAN Ethernet settings of the device.

- Name (limited to 63 characters)
- LAN Ethernet setting with options:
 - Fixed IP: Set fix IP address, subnet mask and gateway of the machine vision device.
 - Obtain IP: DHCP server in the network can assign network settings automatically to the machine vision device. Only supported by the B60 Smart Camera and the MVC Machine Vision Controller.



NOTICE

Make sure to use a unique network configuration for the LAN connector of the Machine Vision Device within the LAN network. Furthermore, the network configuration of the LAN port must be different to the network configuration of the RTE port of the Machine Vision Device. For details about suitable network settings, see [Network Basics](#) [► 8].

On the Machine Vision Controller MVC, the network configuration of the LAN connector needs to be different to the network configuration of the CAM ports. The network configuration of the CAM ports on the MVC is fix and reserved. Trying to use one of the reserved IP addresses results into an error message. The following IP addresses are reserved for the CAM ports of the MVC:

- 192.168.90.1 - 192.168.90.255
- 192.168.91.1 - 192.168.91.255
- 192.168.92.1 - 192.168.92.255
- 192.168.93.1 - 192.168.93.255

Furthermore, the following IP addresses are reserved for all Machine Vision Devices and not allowed at the LAN port:

- 169.254.0.0/16 (not allowed at Machine Vision Controller MVC)
- 0.0.0.0/8
- 1.0.0.0/8
- 127.0.0.0/8
- 224.0.0.0/4
- 233.252.0.0/24
- 240.0.0.0/4
- 255.255.255.255/3

The screenshot shows the weHub software interface. At the top, there is a search bar and a menu icon. Below it is a table with columns: Fav, Device Status, weHub Server Connection, AI Lab Status, Name, Type, Article Number, IP Address, and Actions. The table contains two rows: one for a 'Machine Vision Controller' and one for a 'Smart Camera'. The 'Smart Camera' row is highlighted with a blue box around the 'Actions' column. Below the table, there is a configuration page for the 'Smart Camera'. It includes fields for Name, Type, Article Number, Serial Number, Manufacturer, and Hardware Version. On the right side, there is a 'Network Adapter' section with a dropdown menu set to 'Default Network Adapter'. Below this, there are fields for MAC Address, LAN, IP Address (set to 'Fixed IP'), IP Address (192.168.99.1), Subnet Mask (255.255.255.0), and Gateway (0.0.0.0). At the bottom, there is a link to the product page: <https://www.wenglor.com/product/860P212>.



NOTICE

1. If the network configuration of the machine vision device is set to DHCP and there is no DHCP server in the network, the machine vision device will start after a certain time with a backup network configuration.
2. If authentication is activated on the device, entering username and password is necessary to edit name or network configuration of the machine vision device. For details, check the operating instructions of the machine vision device.

Login

Username

Username

Password

Password

CANCEL **LOGIN**

Open the PC network settings by pressing the PC button in the icon menu bar in order to see the current network settings of the used Ethernet adapter of the PC.

The screenshot shows the weHub software interface. At the top, there is a search bar and a menu bar with icons for Home, Settings, and PC Network Settings. Below the menu bar, there is a table with columns: Fav, Device Status, weHub Server Connection, AI Lab Status, Name, Type, Article Number, IP Address, and Actions. The table lists two devices: a Machine Vision Controller (MVC101) and a Smart Camera (B6CP212). Below the table, there is a 'Running' section with a message: 'weHub is not connected to device. Go to Settings and login.' To the right of the table, there is a 'PC Network Settings' panel. It shows the current network adapter as 'Default Network Adapter' and displays various network settings including MAC Address, LAN, IP Address, Subnet Mask, and Gateway.



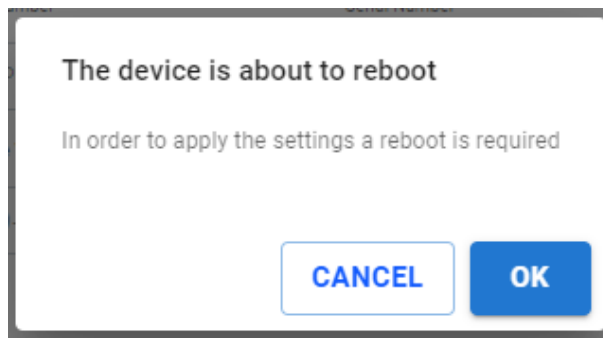
NOTICE

1. If no device is in extended device view, different PC network adapters can be selected to check the network settings of all available PC network adapters.
2. Only wired network adapters of the PC appear (no wireless network adapters).
3. In the software wenglor weHub on the Machine Vision Controller MVC, the network adapters of LAN and local host (lo) are shown and only Machine Vision Devices attached to the LAN connectors and the MVC itself (via local host) appear in the list.

If name or network configuration of the machine vision device are changed, the buttons Confirm and Cancel appear. Press Confirm to send the settings to the device.

The screenshot shows the weHub software interface. At the top, there is a search bar. Below it is a table with columns: Fav, Device Status, weHub Server Connection, AI Lab Status, Name, Type, Article Number, IP Address, and Actions. The table lists two devices: Machine Vision Controller and Smart Camera. The Smart Camera is selected, and its configuration page is displayed. The configuration page includes fields for Name, Type, Article Number, Serial Number, Manufacturer, Model, and Network Adapter. The Network Adapter is set to Default Network Adapter. The IP Address is 192.168.100.1, and the Subnet Mask is 255.255.255.0. The Gateway is 0.0.0.0. There are CANCEL and CONFIRM buttons at the bottom right. On the right side, there is a sidebar titled PC Network Settings with fields for Network Adapters, IP Address, Subnet Mask, and Gateway.

The machine vision devices needs a reboot in order to apply network changes.



Press OK to apply the network change via a device reboot.

The screenshot shows the weHub software interface after the reboot. The table at the top now shows the Smart Camera with a status of 'Rebooting'. The configuration page for the Smart Camera is still visible, but the CANCEL and CONFIRM buttons are no longer present. The sidebar on the right is also visible.

6.7 Access Device Website

Click on “Open Device” in order to access the device website.

Search								
Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
☆	Active	Not connected	Not connected	Machine Vision Controller	Machine Vision Controller	MVCM1C1	192.168.100.8	
☆	Active	Not connected	Not connected	Smart Camera	Smart Camera	B60P212	192.168.100.1	



NOTICE

1. If the machine vision device is in a different subnet and not accessible, the button “Open Device” is disabled.
2. If the wenglor weHub software does not find the machine vision device via the automatic UDP search, it might be possible to add the device by IP address or to access the device website directly via entering the IP address in the browser (for details see “6.2 Finding Machine Vision Devices” on page 11).

A new tab in the browser is opened with the device website.

DashboardInterfacesJobs

Device Details:

NameSmart Camera

TypeSmart Camera

Article NumberB60P212

Manufacturerwenglor sensoric GmbH

Firmware Version1.6.0

Manufactured2024-4-5

Serial Number1000

MAC Address00:15:18:01:81:31

uniVision Version:3.6.0

Host ID:150100414a54443432064a49e575900

More info:<https://www.wenglor.com/product/B60P212>

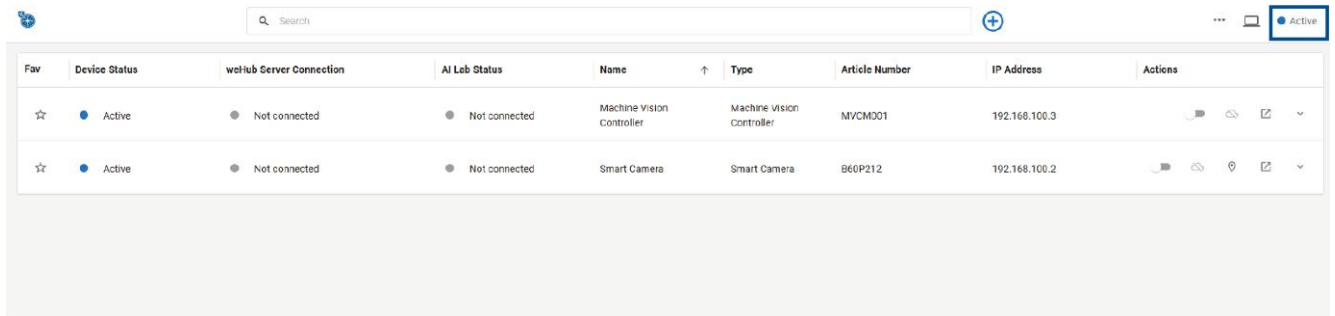


NOTICE

The device website is described in the operating instructions of the machine vision device.

6.8 Status of the Software weHub

The weHub software shows the status of the application at the top right corner.



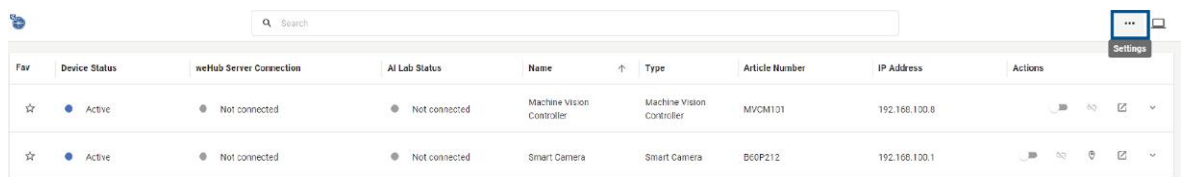
Click on the status for further info.

The following weHub status info is available:

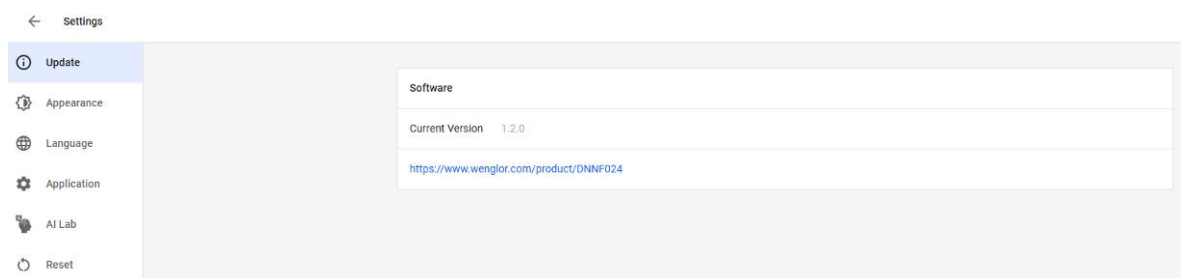
- Active: The software runs without warnings or errors.
- Warning: Low local storage space.
- Warning: Low AI Lab storage space.
- Warning: Cannot bind to 127.0.0. Make sure that the network configuration of the PC is unique in the network and that no other application or other user is using the port 33002.

6.9 Settings

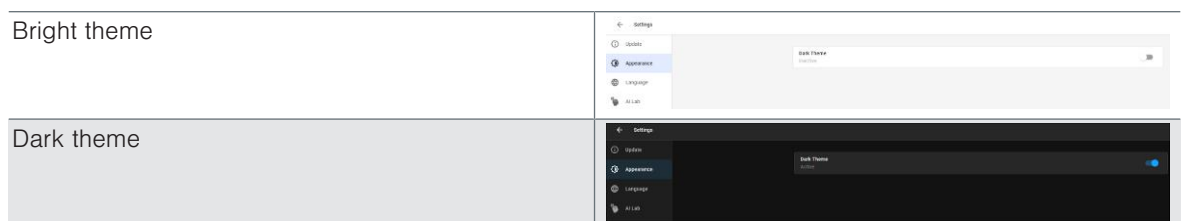
Click on the “Settings” icon in the menu icon bar in order to open the settings of the wenglor weHub software.



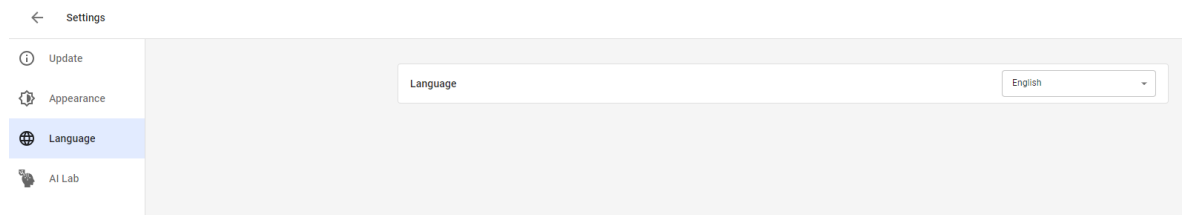
The side navigation “Update” shows the current version of the wenglor weHub software. Clicking on the link opens a new tab in the browser to the product detail page on the wenglor website in order to download the latest software version. Internet access is necessary to open the link.



The side navigation “Appearance” allows to switch between bright and dark theme.

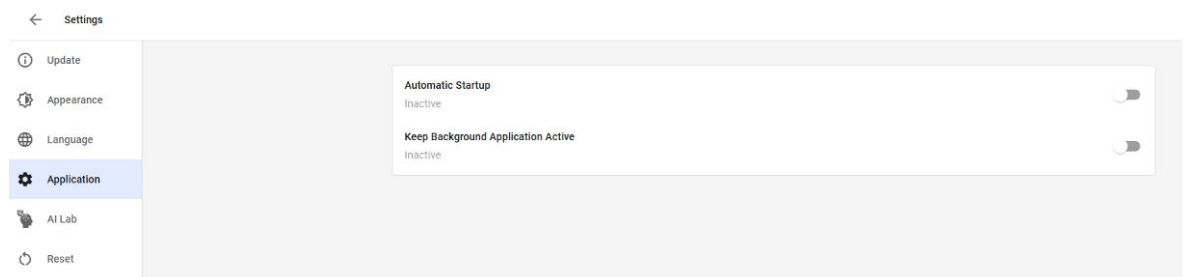


The side navigation “Language” allows to change the user language (DE, EN, FR, IT, ES, TR, ZH).

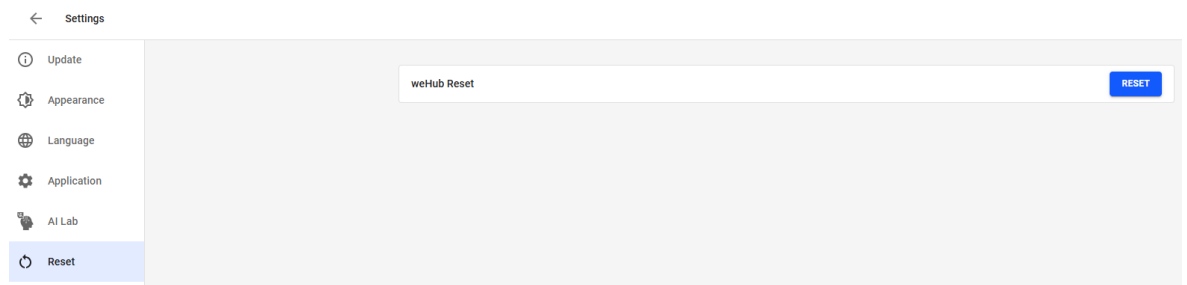


The side navigation “Application” allows to change the application settings.

- Automatic Startup: If set to On (by default off), the software automatically starts with boot up of the PC.
- Keep Background Application Active: If on (by default off), the weHub background application re-mains active after closing the last tab of the weHub software (e.g. for AI Loop in the background). Closing the weHub background application is then possible via the icon tray (see section Close the Software weHub [► 28]).



The side navigation “Reset” allows to reset the weHub settings.



6.10 AI Loop to AI Lab

6.10.1 Basics

The software weHub on Windows PCs provides direct and seamless communication between the Machine Vision Device and AI Lab (<https://ai-lab.wenglor.com/>). It enables to upload data (e.g. images) from the Machine Vision Device to AI Lab for labeling of data and for training of AI models. Furthermore, it enables to download models from AI Lab to the Machine Vision Device in order to execute the model on the Machine Vision Device (in Module Image AI within the uniVision job).

Supported Machine Vision Devices:

- B60 Smart Camera
- MVC Machine Vision Controller



NOTICE

1. For details about the AI Loop, check the separate getting started document for AI Loop.
2. The weHub software creates a TCP connection to the Machine Vision Device. It uses the port 5558 for data upload and the port 5559 for model download. Make sure that the ports are not in use by another application and that the network does not block the ports.
3. The communication from the weHub software to AI Lab works via HTTPS on the ports 80 and 443.
4. On the Machine Vision Controller MVC it is only possible to collect and export data via the weHub software (no complete AI Loop with seamless communication to AI Lab because direct internet access at the MVC is not supported). Use another PC with internet connection and installed weHub software for the AI Loop or for importing data.
5. Make sure to close the software via the icon tray and restart the weHub software in case of changes at the proxy or VPN settings of the PC.

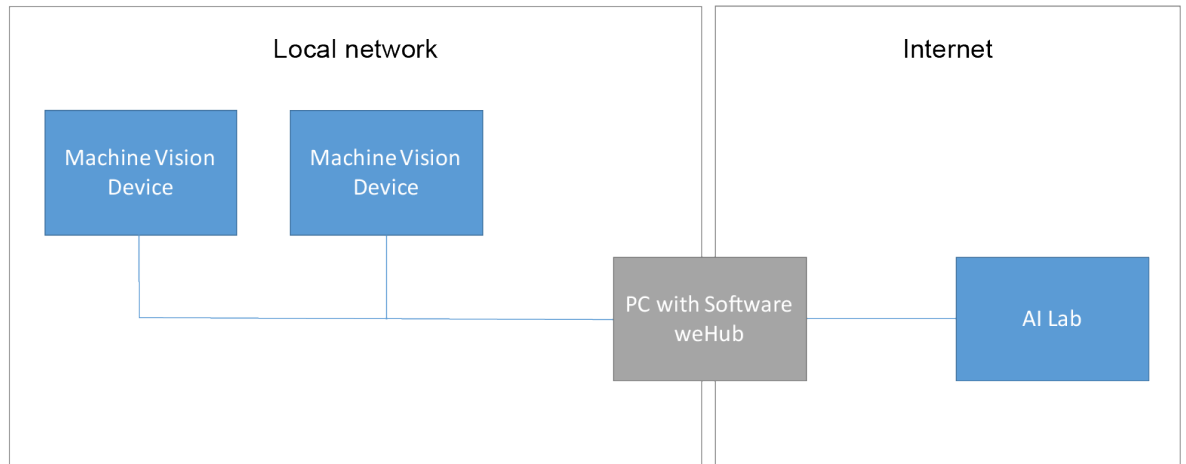
The following steps are necessary for the AI Loop.



6.10.2 Setup

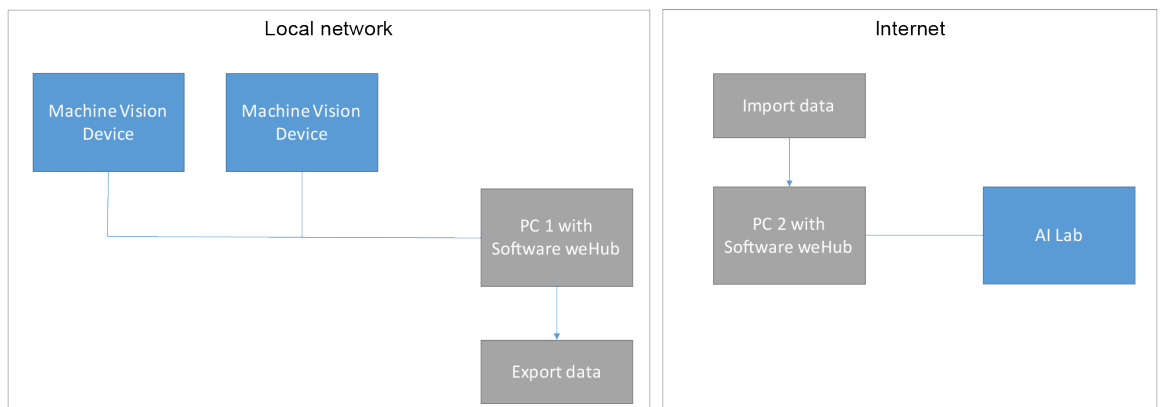
weHub with access to Machine Vision Device and AI Lab

Use the weHub software on a Windows PC with access to AI Lab (requires internet connection) and to the Machine Vision Device in the local network in order to upload data and to download models (recommended).



Export data at one weHub and import it in another weHub

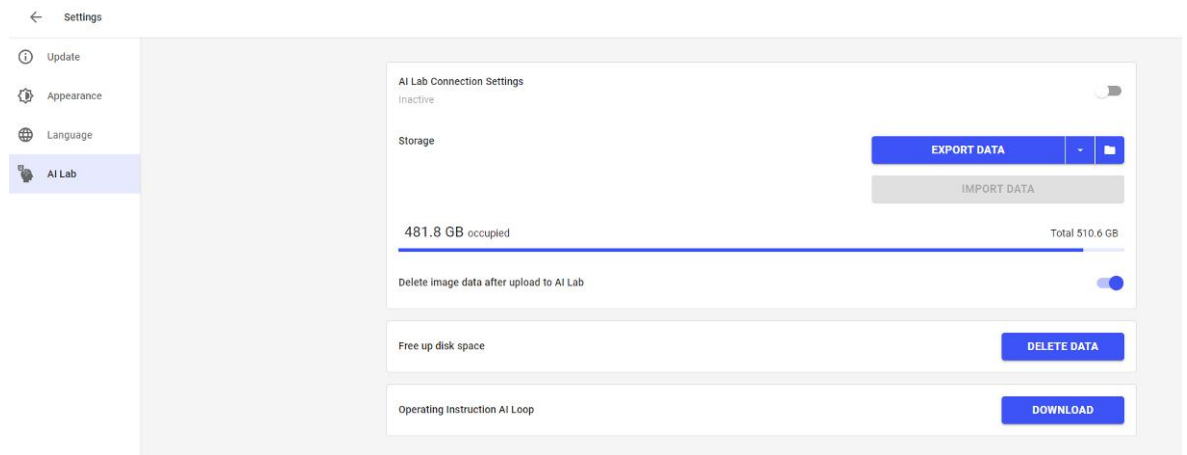
Furthermore, it is possible to use one PC with the software weHub to collect and store data (e.g. images) in case of no internet connection at the PC. Once data collection is finished, export the data into a zip file in the software weHub. Copy the zip file to another PC with connection to AI Lab and import it in the software weHub. Importing requires a valid connection to AI Lab as it registers the Machine Vision Devices used for data collection in AI Lab. weHub uploads the data automatically to AI Lab. Model download via weHub is not supported in this use case. Alternatively, download the model in AI Lab, copy the model to the PC with access to the Machine Vision Device and load the model from file in Module Image AI (within uniVision job).



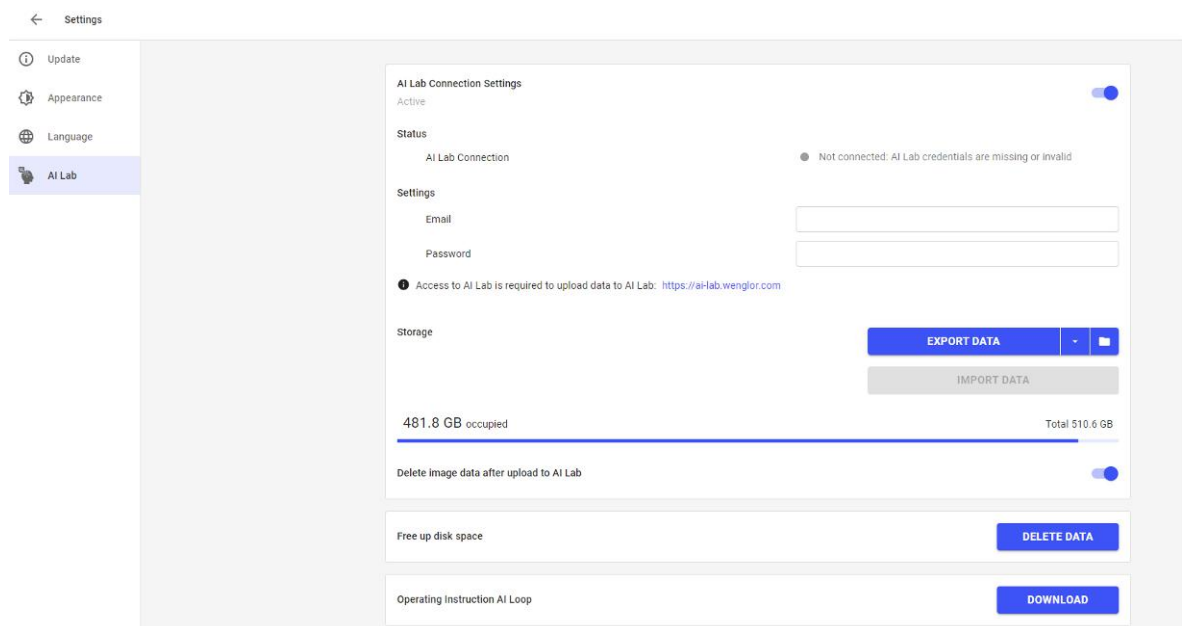
Step 1: Collect and store data in weHub software on PC 1. Export data to zip file. Step 2: Import and upload data to AI Lab on PC 2 (with AI Lab connection).

6.10.3 Settings

Click in the weHub software on the “Settings” icon and then in the side menu on “AI Lab” (at weHub on Windows PCs).



Enable “AI Lab Connection Settings” in order to connect from the weHub software to AI Lab (only available at weHub on Windows PCs - not at weHub on the Machine Vision Controller MVC).



Enter “Email” and “Password” of your AI Lab account in order to connect weHub with the AI Lab account. It requires at first to create an account at AI Lab (<https://ai-lab.wenglor.com/>). Use the same login data in the weHub software. In case of a valid connection to AI Lab, the “AI Lab Connection” status switches to “Connected”.



NOTICE

Login is only possible with an administrator account of AI Lab as it requires to register and unregister Machine Vision Devices in AI Lab.

← Settings

- Update
- Appearance
- Language
- AI Lab**

AI Lab Connection Settings

Active

Status: AI Lab Connection Connected: 0 Images uploaded in the last 5 minutes

Settings

Email:

Password:

Access to AI Lab is required to upload data to AI Lab: <https://ai-lab.wenglor.com>

License (wenglor-development Plan)

Devices Limit: 1 registered devices / Total 50 available devices

Storage Limit: 1.5 GB used / Total 5.0 GB available

Storage

481.8 GB occupied / Total 510.6 GB

Delete image data after upload to AI Lab

Free up disk space DELETE DATA

Operating Instruction AI Loop DOWNLOAD

Go back to the main page of the weHub software. The “AI Lab Status” of the Machine Vision Devices shows “Not registered” and the “weHub Server Connection” shows “Not connected”.

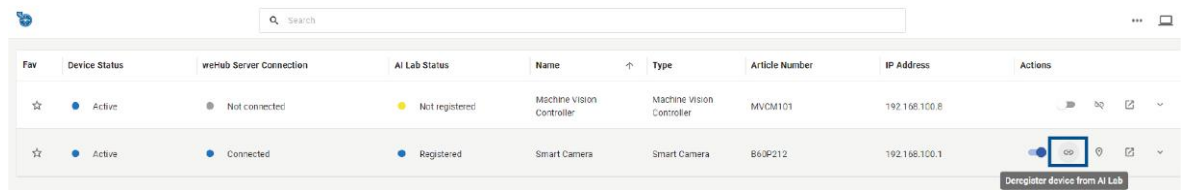
Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
☆	Active	Not connected	Not registered	Machine Vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	
☆	Active	Not connected	Not registered	Smart Camera	Smart Camera	B60P212	192.168.100.1	

Activate at the relevant Machine Vision Device at “Actions” the slider “Auto connect weHub to device” in order to connect to the device. It is only possible if the weHub Server is active on the Machine Vision Device and if the device is accessible by the weHub software within the network.

Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
☆	Active	Not connected	Not registered	Machine Vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	
☆	Active	Connected	Not registered	Smart Camera	Smart Camera	B60P212	192.168.100.1	

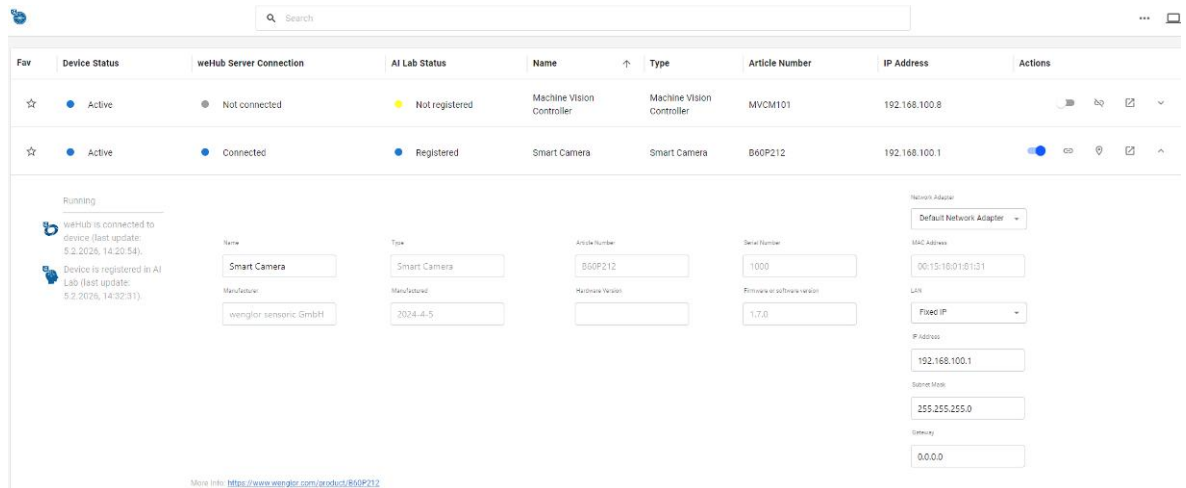
Auto connect weHub to device

Furthermore, click at “Actions” on the button “Register device in AI Lab” in order to register the Machine Vision Device in AI Lab.



Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
☆	Active	Not connected	Not registered	Machine Vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	[Icons]
☆	Active	Connected	Registered	Smart Camera	Smart Camera	B60P212	192.168.100.1	[OS] [Register device in AI Lab] [Icons]

In case of a valid connection and registration, opening the extended view of the Machine Vision Device provides further info about the connection to the Machine Vision Device and to AI Lab.



Fav	Device Status	weHub Server Connection	AI Lab Status	Name	Type	Article Number	IP Address	Actions
☆	Active	Not connected	Not registered	Machine Vision Controller	Machine Vision Controller	MVCM101	192.168.100.8	[Icons]
☆	Active	Connected	Registered	Smart Camera	Smart Camera	B60P212	192.168.100.1	[OS] [Icons]

Running

weHub is connected to device (last update: 5.2.2026, 14:20:54).

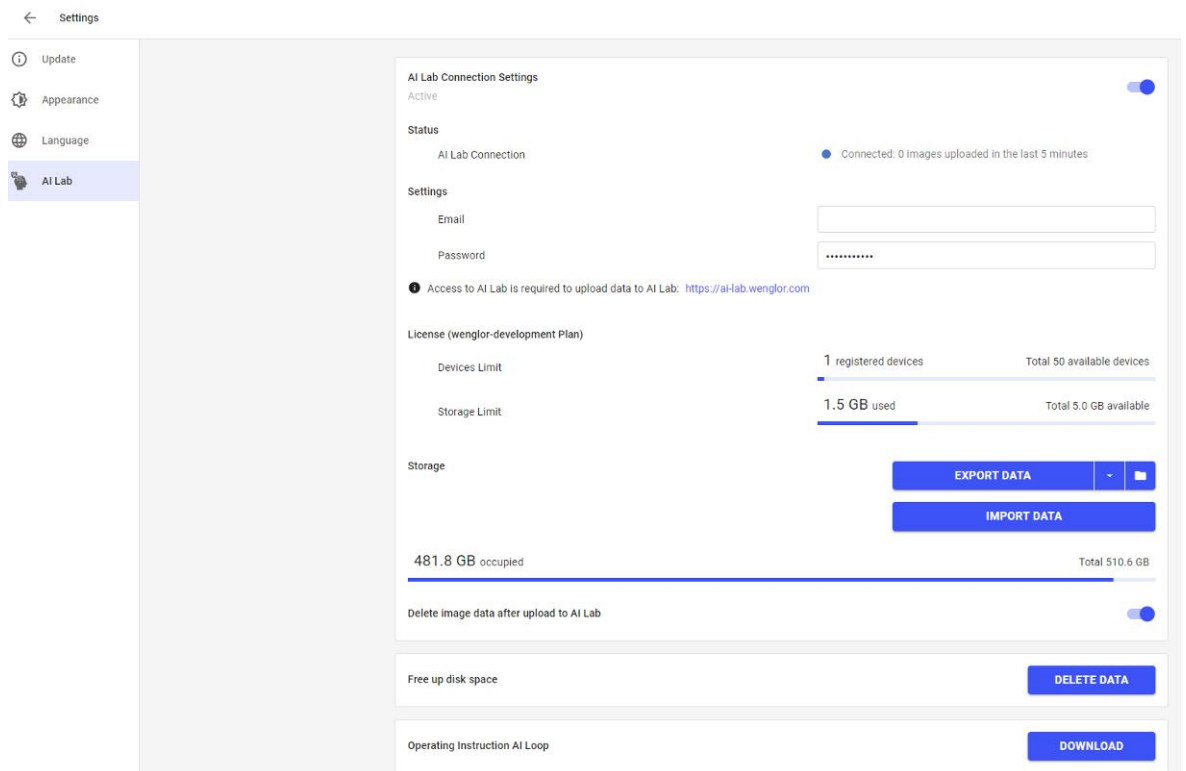
Device is registered in AI Lab (last update: 5.2.2026, 14:32:31).

Name	Type	Article Number	Serial Number	Network Adapter
Smart Camera	Smart Camera	B60P212	1000	Default Network Adapter
Manufacturer	Manufacturer	Hardware Version	Firmware software version	MAC Address
wenglor sensoric GmbH	2024-4-5		1.7.0	00:15:16:01:61:31
				Link
				Fixed IP
				IP Address
				192.168.100.1
				Subnet Mask
				255.255.255.0
				Gateway
				0.0.0.0

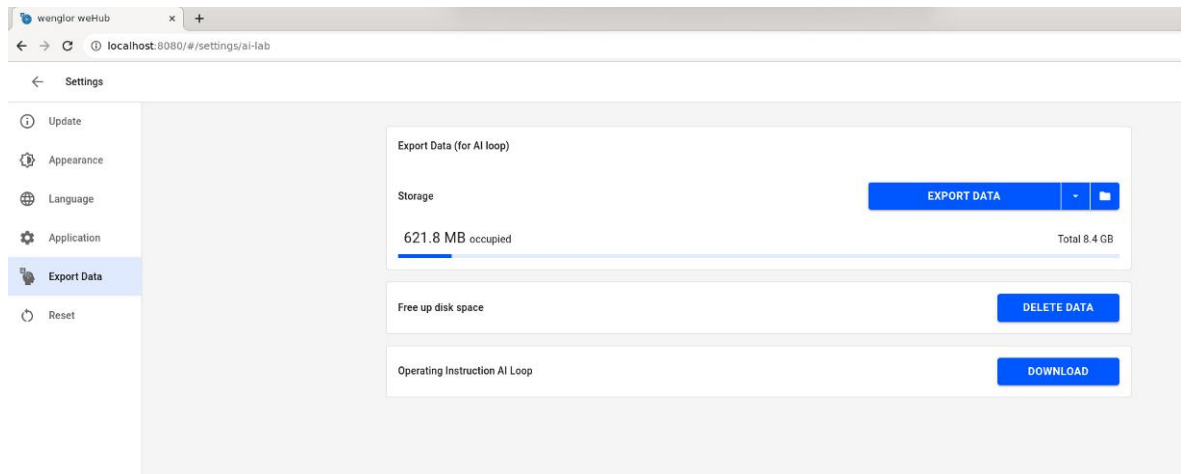
More info: <https://www.wenglor.com/product/B60P212>

If the Machine Vision Device with the software weHub has no connection to AI Lab (e.g. because of no internet connection), use the weHub software to store the data locally. Export the data, bring the file to another PC with connection to AI Lab and import the file in the weHub software in order to upload the data to AI Lab. Click on the “Settings” icon and then in the side menu on “AI Lab” to access the export and import functionality:

- Export data: Exports the data to a zip file (without deleting them).
- Export and delete the data: Exports the data to a zip file (and deletes them).
- Open backups directory: Opens the file manager pointing to the file location of the backup zip files.
- Import data: Opens the upload file window to import backup files. It requires to delete existing data (e.g. images) in weHub. The import data functionality is only available in case of a valid connection to AI Lab as weHub registers the Machine Vision Devices used for data collection in AI Lab during the data import.
- Delete image data after upload to AI Lab: If active, weHub automatically deletes data after successful upload to AI Lab.
- Free up disk space: Deletes the data from the local file location.
- Operating Instruction AI Loop: Opens the operating instruction of the AI Loop in a new tab of the browser.

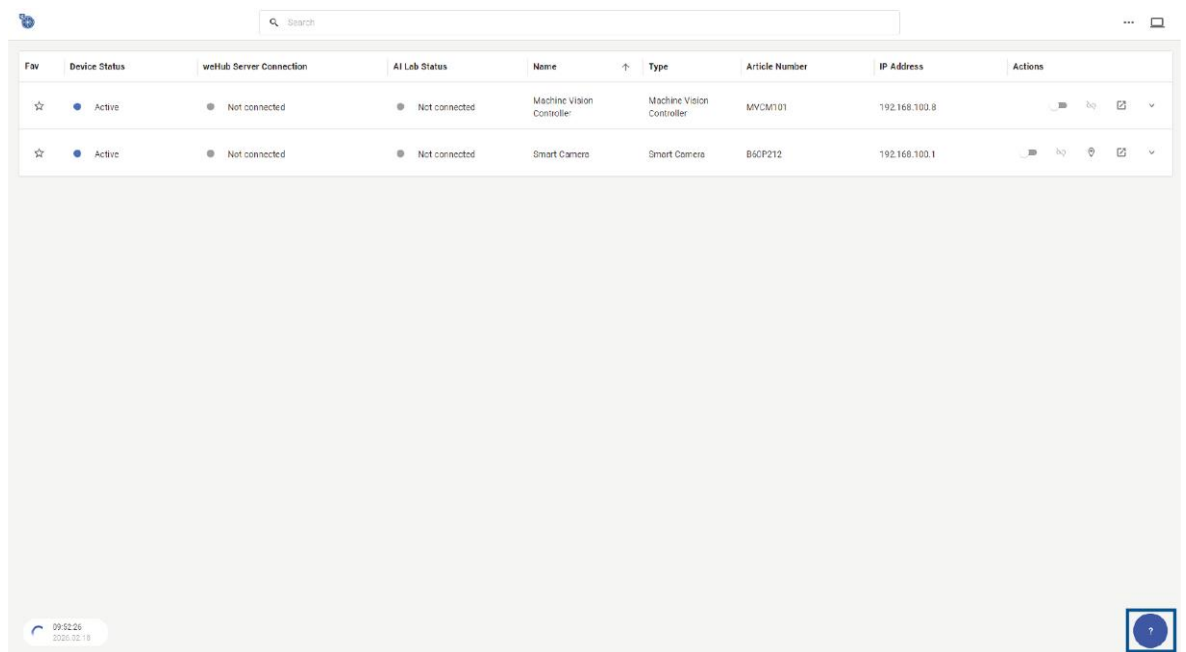


At the software weHub on the Machine Vision Controller MVC, it is only possible to collect and export data (no seamless communication to AI Lab because direct internet connection at the MVC is not supported). Click on “Export Data” in the side navigation for collecting and exporting data.



6.11 Help Button

Open the help button to access further information.



- Tutorials: Opens a new tab in the browser with tutorials on the wenglor website (only available with internet access)
- Software highlights: Opens a new tab in the browser with the product highlights page on the wenglor website (only available with internet access)
- Third party licenses: Opens a new tab in the browser to access the third party licenses on the device (no internet access necessary).



NOTICE

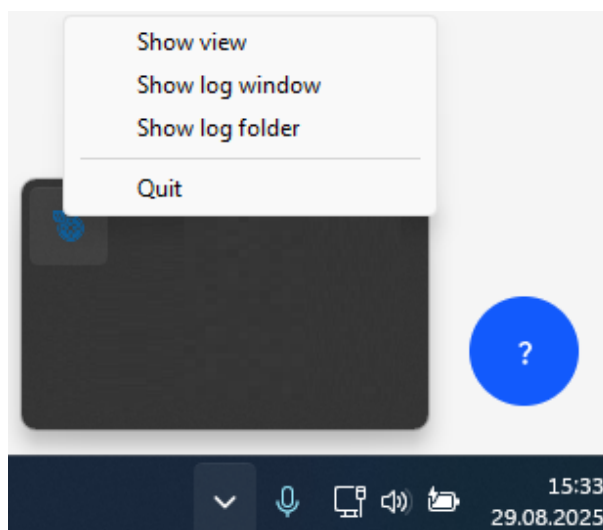
Third-party software licenses are also available on the wenglor website:

<https://www.wenglor.com/License/s/License>

- EULA: Opens the EULA that must be accepted before the software installation (see [Software Installation \[► 6\]](#)).
- Operating instructions: Opens the operating instructions of the wenglor weHub software in a new tab of the browser
- Release notes: Opens the release notes of the wenglor weHub software in a new tab of the browser containing the changes between different software versions

6.12 Close the Software weHub

By default, closing the last browser tab of the weHub software also closes the weHub background application. In order to prevent closing the background application when closing the last tab, access “Settings” -> “Application” and set “Keep Background Application Active” to on (see [Settings \[► 19\]](#)). In order to quit then the software weHub background process, open the context menu of the weHub icon tray (on the right side of the Windows/Linux taskbar) and click on “Quit”. The context menu additionally allows to open the software in the default browser via “Show view”, to show the log window or the log folder.



7 Third Party Licenses

Third party licenses used in the software wenglor weHub are available on the PC where the software is installed (see Help Button [▶ 27]) or on the wenglor website (requires internet access) at <https://www.wenglor.com/License/s/License>

8 Change Index of Operating Instructions

Version	Release Date	Description/Changes	Compatability
1.0.0	27.08.2025	Initial version of the operating instructions	Firmware B60: 1.6.0 Firmware MVC: 1.3.0 Firmware MLxSx1x: 1.3.2
1.1.0	17.02.2026	Updated description for software weHub 1.1.0	Firmware B60: 1.7.0 Firmware MVC: 1.4.0 Firmware MLxSx1x: 1.3.2
1.2.0	13.08.2026	Updated description for software weHub 1.2.0	Firmware B60: 1.8.0 Firmware MVC: 1.5.0 Firmware MLxSx1x: 1.3.3