wenglor
the innovative family

Operating Instructions
DNNF025
Software wenglor Vision Viewer



EN

Subject to change without notice
Available as PDF file only
Version 1.0
www.wenglor.com

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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.

2 Explanation of Symbols

- Safety precautions and warnings are emphasized by means of symbols and signal words.
- Safe use of the product is only possible if these safety precautions and warnings are adhered to.

The safety precautions and warnings are laid out in accordance with the following principle:

SIGNAL WORD

Type and source of danger!

Possible consequences in the event that the hazard is disregarded.

→ Measures for averting the hazard.

The meanings of the signal words, as well as the scope of the associated hazards, are listed below:



⚠ DANGER

This signal word indicates a hazard with a high degree of risk which, if not avoided, results in death or severe injury.



⚠ WARNING

This signal word indicates a hazard with a medium degree of risk which, if not avoided, may result in death or severe injury.



⚠ CAUTION

This signal word indicates a hazard with a low degree of risk which, if not avoided, may result in minor or moderate injury.



NOTICE

This signal word draws attention to a potentially hazardous situation which, if not avoided, may result in property damage.



INFORMATION

Information draws attention to useful tips and suggestions, as well as information on efficient, error-free use.

3 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.

4 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.

5 For Your Safety

5.1 Use for Intended Purpose

The software wenglor Vision Viewer visualizes the camera data and provides easy configuration options to optimize parameters for high-quality data. The software that runs on any compatible PC finds cameras in the network, allows to adjust the LAN network configuration of the cameras and to connect to the cameras. It visualizes the camera data and enables to optimize the camera parameters for high-quality data.

Supported data sources (cameras):

- 3D sensors M3DS

5.2 General Safety Precautions



NOTICE

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.

6 Technical Data

General data	
Use	• For 3D sensors M3DS
Version	1.0.0
Language	DE, EN, FR, IT, ES, TR, ZH
Licensing model	Freeware
Function	
Configuration software	Yes
Display software	Yes
Diagnostics software	Yes
System requirements	
Processor (minimum)	CPU x86_64 ≥ 2.1 GHz, ≥ 4 Cores, AVX2 or equivalent from AMD Ryzen 5 5000
GPU (minimum)	Capable of 3D rendering (e.g. integrated GPU UHD 620 or dedicated GPU)
RAM (minimum)	16 GB DDR4 dual channel configuration
Free hard disc space	1 GB
Minimum resolution	1280 px × 1024 px
Maximum resolution	4096 px × 2160 px
Minimum browser versions	• Chrome 121 • Chromium 135 • Firefox 129 • Microsoft Edge 135
Operating system	
Windows 11	Yes
Interface	
Ethernet	Yes

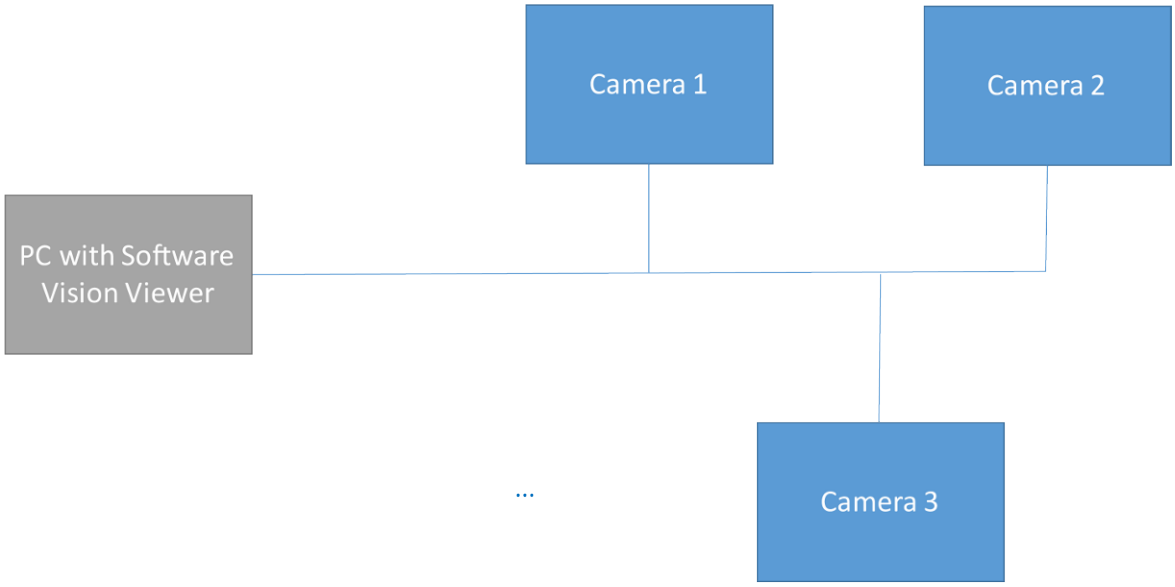
7 Network Connection

7.1 Network Cable

Connect the network cable from the LAN Ethernet connector of the camera to the PC with the wenglor Vision Viewer software or to a switch in order to bring several cameras together.

NOTICE

1. For details about the LAN Ethernet connector of the camera, check the operating instructions of the camera.
2. Cabling must be capable of minimum 1 Gbit/s throughout the entire network (recommended 10 Gbit/s for 3D Sensors M3DS).



7.2 Network Basics

The network part of the IP address of the camera must coincide with the network part of the IP address of the PC with the software wenglor Vision Viewer. The device part of the IP address must be different for the camera 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

7.3 Network Settings of PC with wenglor Vision Viewer

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

- IP address: 192.168.100.2
- 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 settings 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.

7.4 Default LAN Ethernet Settings of wenglor Cameras

The default LAN Ethernet network settings of wenglor cameras are:

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

8 Software Installation

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

https://www.wenglor.com/product/DNNF025



NOTICE

1. Tests of minimum browser versions are on Windows 11 PCs (25H2).
2. Accepting the end-user license agreement is mandatory in order to install the software.
3. Admin rights are necessary to install the software wenglor Vision Viewer.
4. Make sure that Smart App Control on Windows PCs is deactivated to install and work with the software wenglor Vision Viewer.

9 Starting the Vision Viewer

Double click on the desktop icon “wenglor Vision Viewer” in order to start the software on the PC.



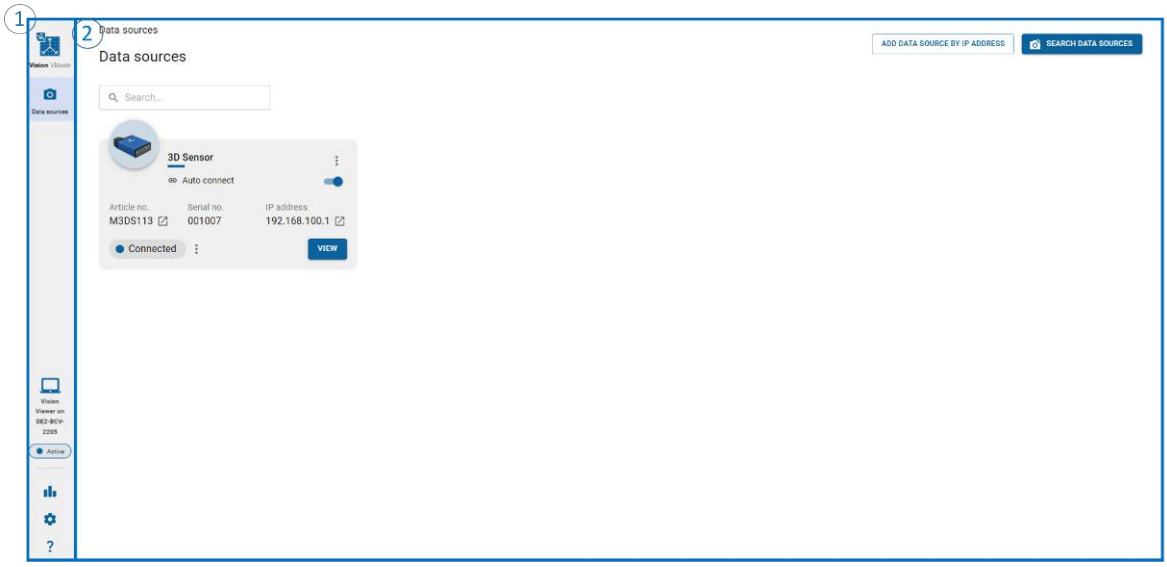
NOTICE

Automatic software startup when the PC boots up is possible. Activate it in the settings of the software (see section Settings [▶ 29]).

10 Structure of Vision Viewer

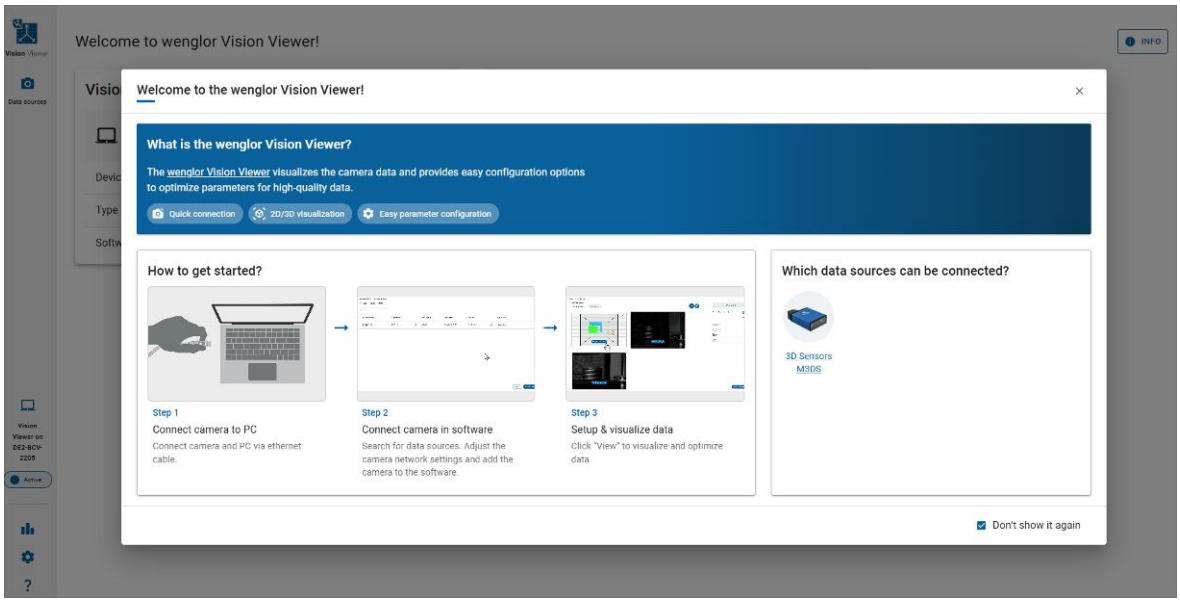
The software wenglor Vision Viewer consists of the following parts:

1. Navigation rail
2. Content area



11 Dashboard

Starting the software for the first time shows the welcome window. Set “Don’t show it again” to on in order to hide it when starting the software the next time.

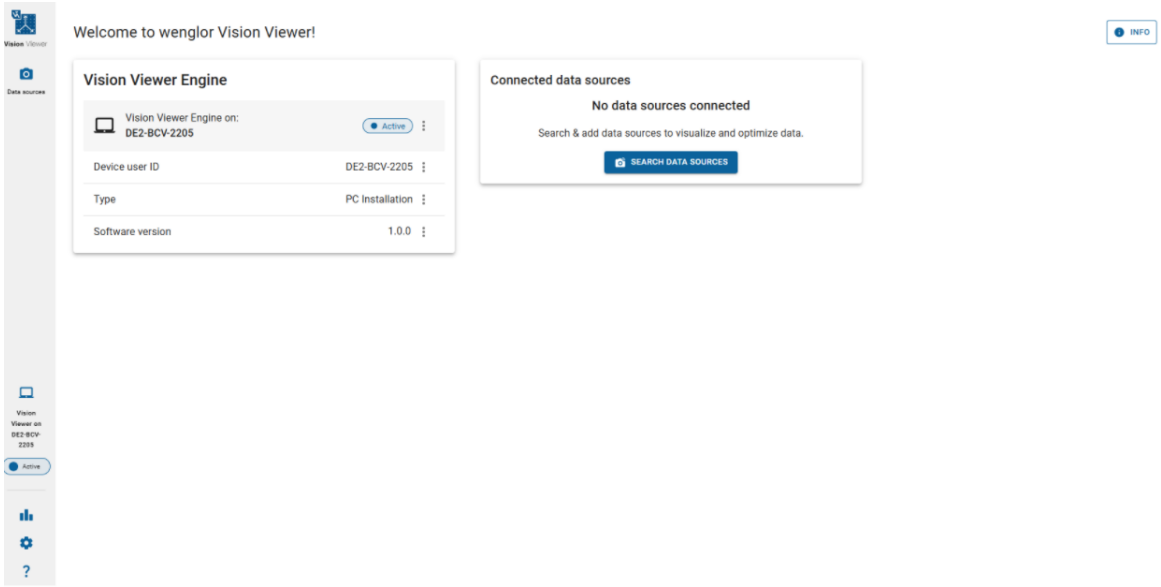


The dashboard (software icon and name of the Vision Viewer in the navigation rail) shows the PC name where the Vision Viewer Engine is running on and its status (for details about the status of the Vision Viewer Engine, see Status of Vision Viewer Engine [▶ 26]).

Adjust the Device user ID (limited to 63 characters), in order to identify the software in a unique way if using it on multiple PCs in the same network (if “Access software from different device” is on, see Settings [▶ 29]).

Click on “Info” on the right side in order to open the welcome window again.

Click on “Search data sources” in order to search for cameras in the network (see Data sources [▶ 16]).

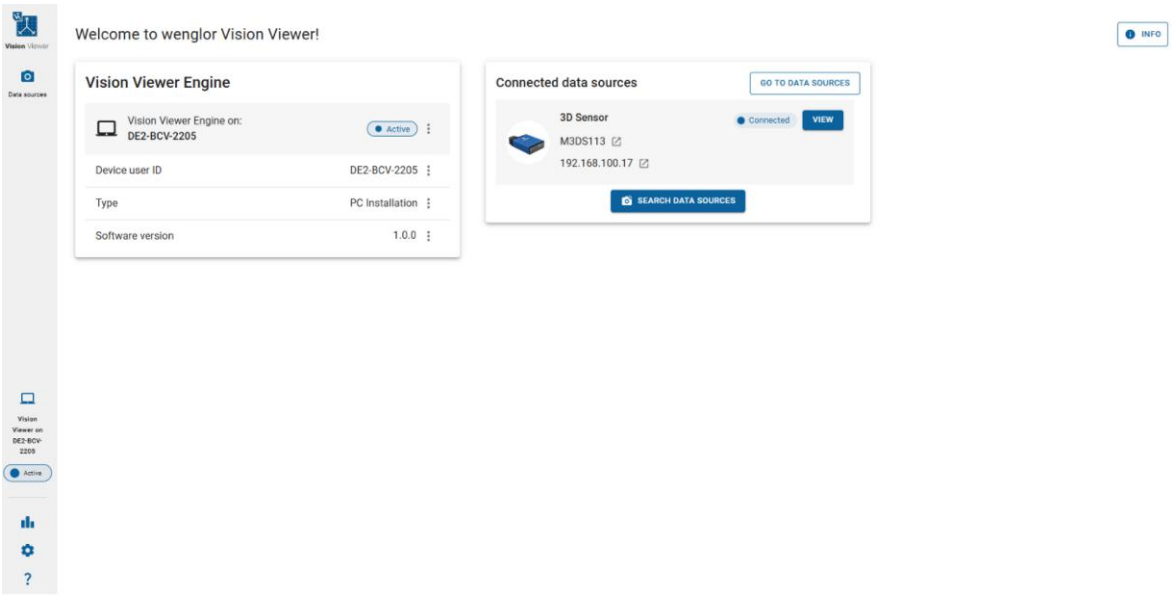


In case of previous connections to cameras, “Connected data sources” lists such cameras with their status.

- Click on “View” in order to open the viewer of the specific camera (see View [▶ 20]).
- Click on the link icon next to the article number in order to open the product detail page on the wenglor website (only available in case of internet connection).
- Click on the link icon next to the IP address in order to open the device website of the camera. For details about the device website, check the operating instructions of the camera.

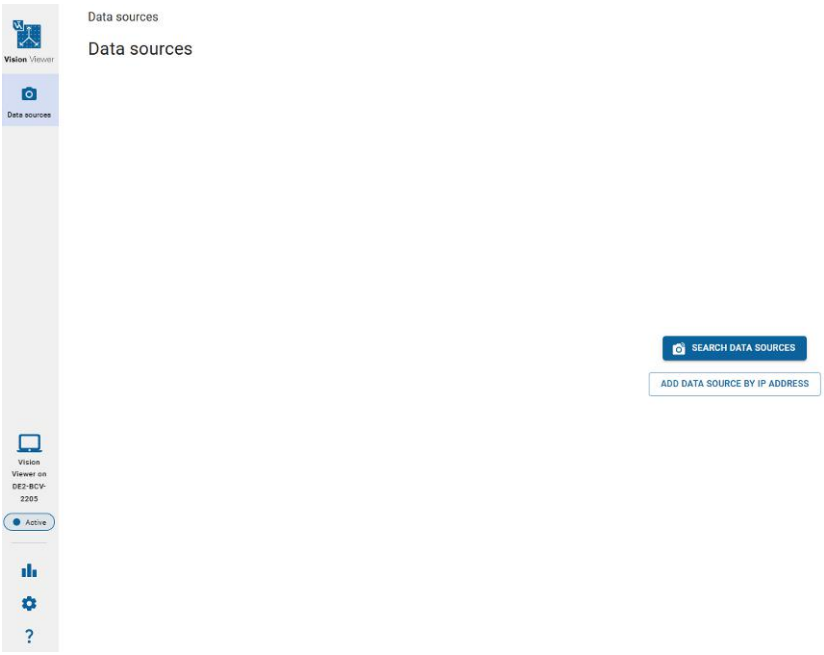
NOTICE

The software only displays cameras that are currently connected to the software.

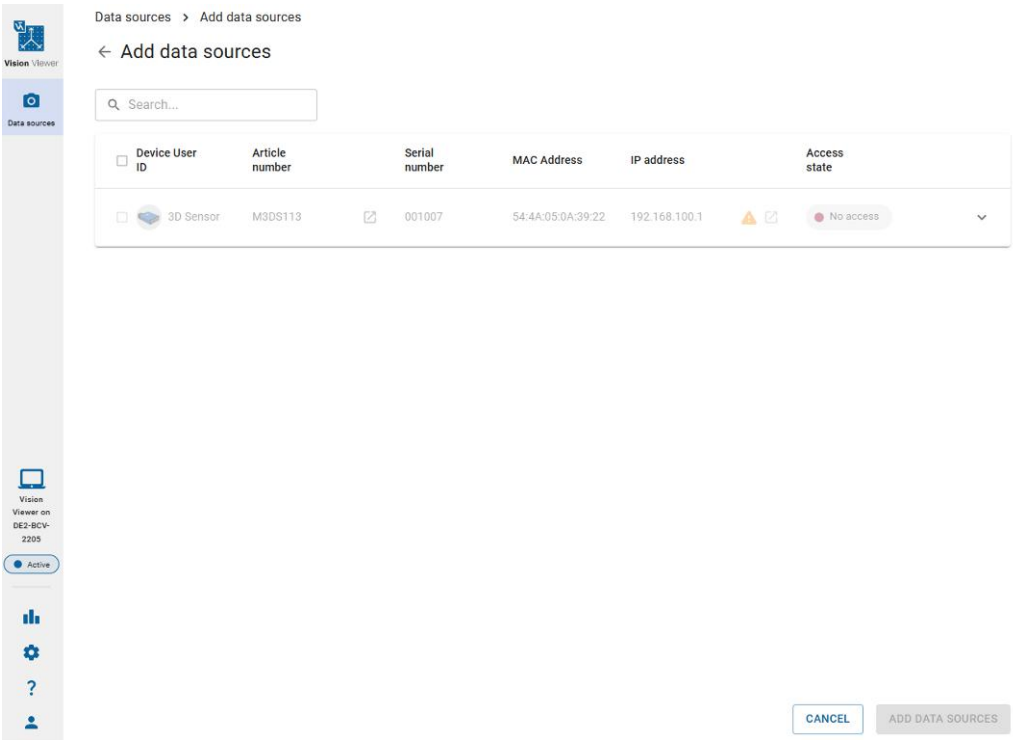


12 Data sources

The navigation rail “Data sources” provides an overview of all cameras.



Click on “Search data sources” in order to find cameras in the network. It opens the following page and lists all supported cameras in the network.



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

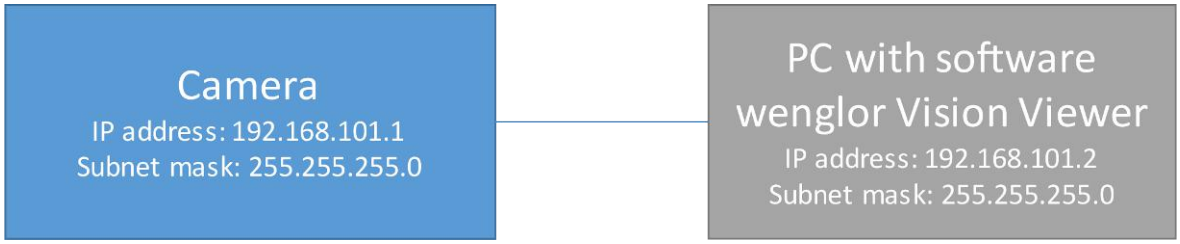
1. Check the power supply of the camera and wait until the camera has booted completely.
2. Check the Ethernet connection between the camera and the PC (especially L/A LEDs).
3. Make sure that UDP communication is possible in the firewall settings of the PC.

NOTICE

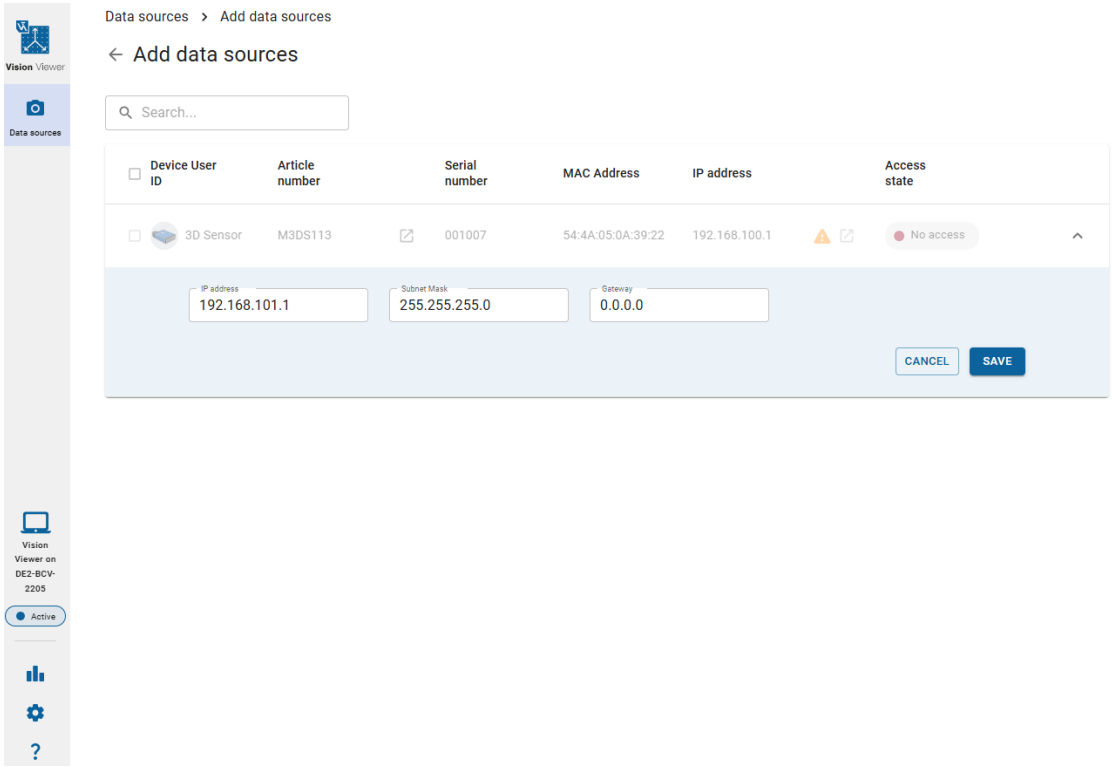
The Windows firewall may block some functions of the software wenglor Vision Viewer. In order to prevent this, the software must be granted access for communication via private and public networks or completely deactivate the Windows firewall.

4. Make sure that the IP address of the PC with the software wenglor Vision Viewer is unique within the network. Otherwise, it might be possible that the PC automatically gets a different network configuration. On Windows PCs, check the current network configuration via ipconfig.
5. Make sure that the PC with the software wenglor Vision Viewer has a different network configuration than the camera. In case of using the same IP address for the camera and the PC it might be possible that the camera is not found or that no connection or no access is possible from the software to the camera. Change the network settings of the PC with the software wenglor Vision Viewer to a unique network configuration within the network in order to find the camera.
6. Use the function “Add data source by IP address”, if UDP broadcast messages are blocked (The default IP address of wenglor cameras is 192.168.100.1 and the default subnet mask is 255.255.255.0, see Default LAN Ethernet Settings of wenglor Cameras [▶ 10]).

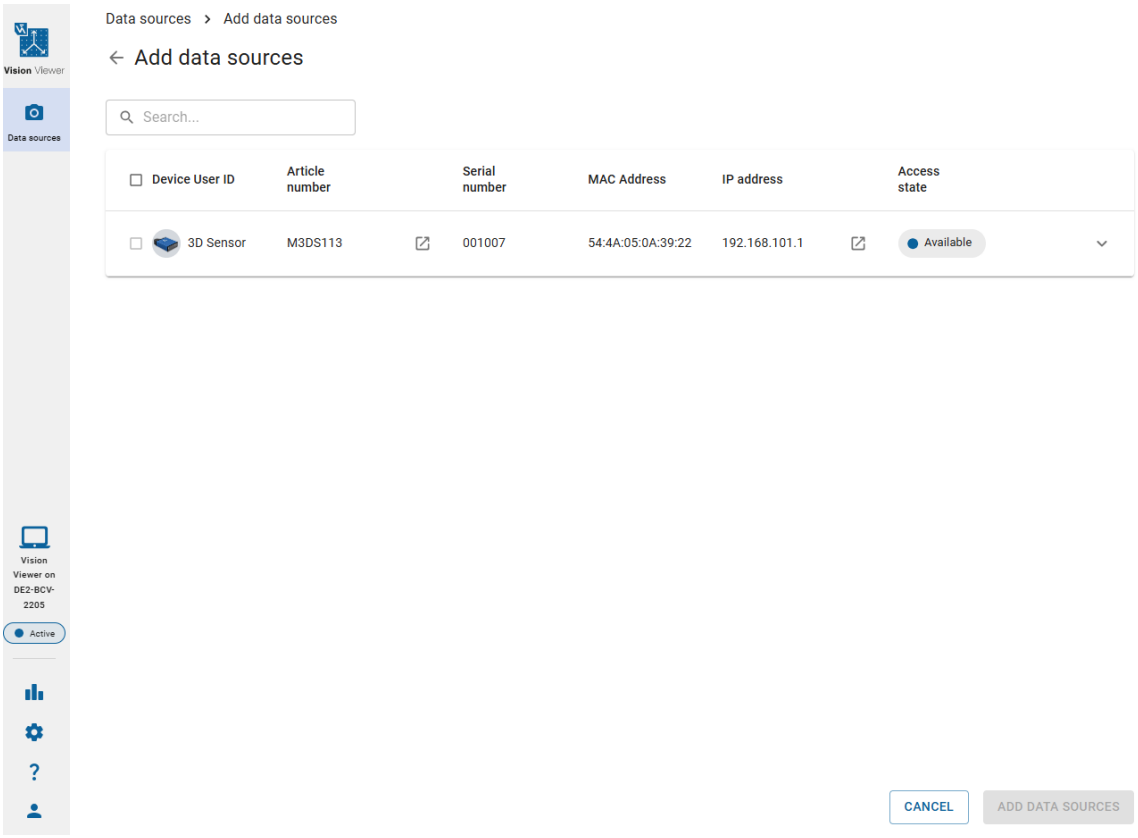
If the network settings of the camera and the PC do not match, the software displays a warning icon next to the IP address of the camera. Adjust the LAN network settings of the camera in order to bring it in the same network like the PC (for details, see Network Connection [▶ 9]). For example, use the following network setup:



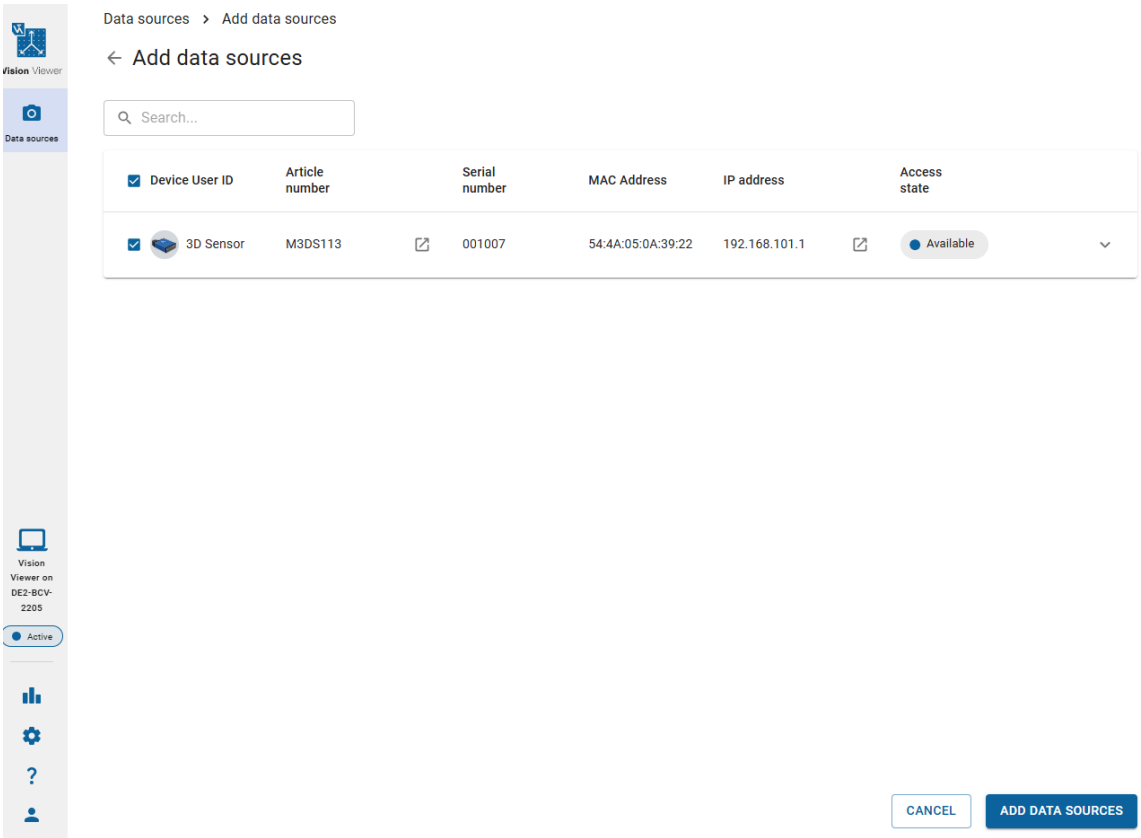
Open the extended network settings of the camera in order to edit the LAN network settings.



Click on SAVE to apply the settings. The camera might reboot in order to apply the settings. Wait until it is booted and appears again.



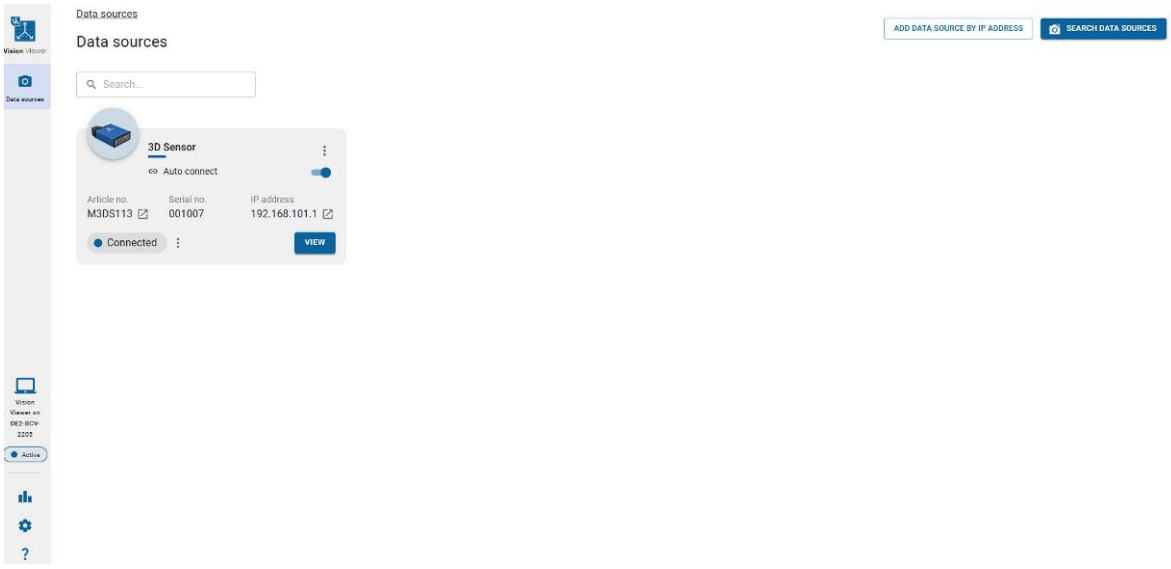
Once the camera is available, select it in order to add it to the software.



The following access states are possible at cameras:

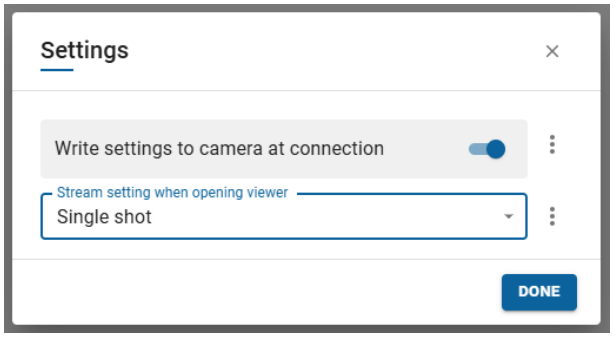
- Available: The camera is available and it is possible to add it to the software wenglor Vision Viewer.
- No access: The camera is in a different subnet and it is not possible to add it to the software wenglor Vision Viewer. Change the network settings of the camera in order to make it accessible.
- In use: The camera is in use by another software and it is not possible to add it to the software. Open the software that is currently connected to the camera and disconnect the camera so that the wenglor Vision Viewer software can connect to it.

The software shows the camera at the navigation rail “Data sources”. By default, the software auto connects to it. Set “Auto connect” to off in order to disconnect the software from the camera (e.g. to connect to the camera from another software).



The context menu of the camera allows to delete the camera from the software or to adjust the settings. The following settings are available:

- Write settings to camera at connection: Automatically writes the settings stored in the software wenglor Vision Viewer to the camera when connecting to the camera (by default on). Make sure to store the settings via the button “Save in Vision Viewer” within the viewer.
- Stream setting when opening viewer: Defines if a single shot is performed (default) or if the stream is automatically started or stopped when opening the viewer.

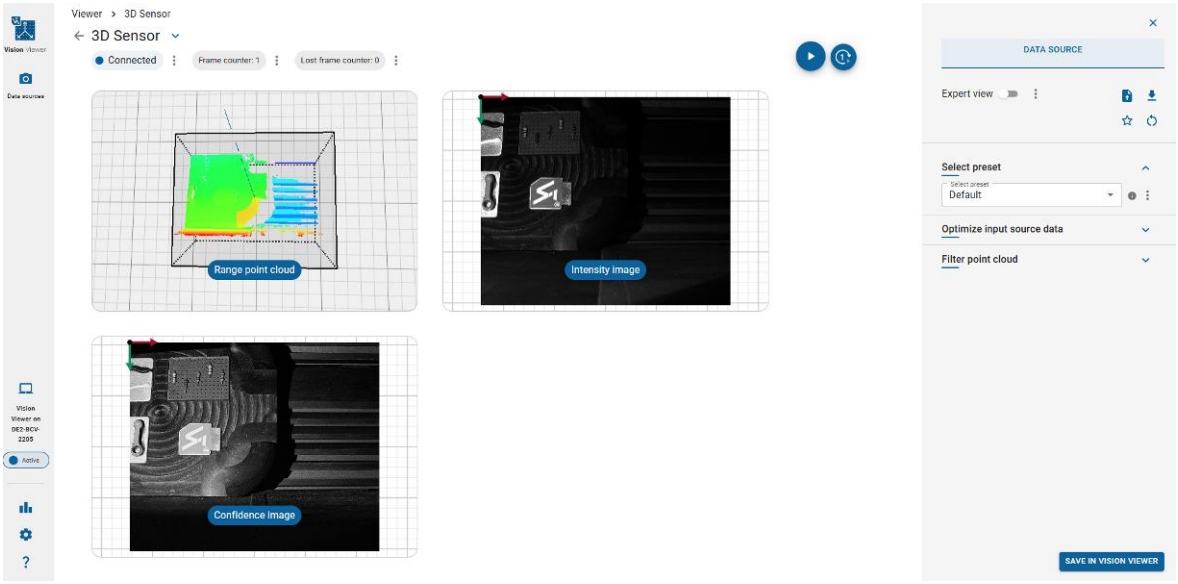


The following options are directly possible for each camera:

- Click on “View” in order to open the viewer of the specific camera (see View [▶ 20]).
- Click on the link icon next to the article number in order to open the product detail page on the wenglor website (only available in case of internet connection).
- Click on the link icon next to the IP address in order to open the device website of the camera. For details about the device website, check the operating instructions of the camera.

12.1 View

Clicking on “View” at one specific camera opens one or several data tiles and the settings of the camera. By default, one single shot is performed when opening the viewer.



The software shows the following info:

- Status: Shows the status of the camera
  - Connected: The software is connected to the camera.
  - No access: The software has no access to the camera.
  - Available: The camera is available and no software is connected to it.
  - Not available: The camera is not available.
  - In use: The camera is in use by another software.
- Frame counter: Returns the frame counter value (frames received by the software wenglor Vision Viewer).
- Lost frame counter: Returns the lost frame counter (frames can be lost e.g. if using filters on the PC that require much processing power).

The software supports the following buttons:

- Start/Stop: Starts or stops the stream of the camera. Make sure to set suitable trigger settings of the camera before starting the stream.
- Single shot/Abort: Stores the current setting of “Acquisition Mode”, sets it to “Single Frame”, starts the acquisition and automatically stops the acquisition when receiving the frame (if Trigger Mode is Off). Afterwards, it sets “Acquisition Mode” back to its previous setting. In case of no frame, click on “Abort” in order to enable all parameters again.

NOTICE

The buttons do not change the trigger settings of the camera. If Trigger Mode is set to On and Trigger Source is set to “Software” or “Line 1”, keep in mind that a separate software command or a physical signal on the line is required to capture data.

By default, the “Expert view” is off in the settings and only the most important parameters are listed in an easy way with descriptions (if supported).

- Click on “Export” in order to export the current camera settings.
- Click on “Import” in order to import the camera settings (e.g. if stored as backup). Previous camera settings are overwritten.
- Reset the camera settings to defaults via clicking on the reset button. The function resets also the user sets to their default values (if supported by the device).
- Activate the favorite filter in order to list only favored parameters. Deactivating it shows all parameters again. Set parameters to favored via the context menu at each parameter. The favorite filter is only availabe if expert view is set to on.

The easy view (“Expert view” set to off) is specific for each camera type.

Make sure to press the button “Save in Vision Viewer” in order to save the current camera parameters in the Vision Viewer. In the settings of each viewer, it is possible to define if the stored settings are written to the camera when the software connects to it.

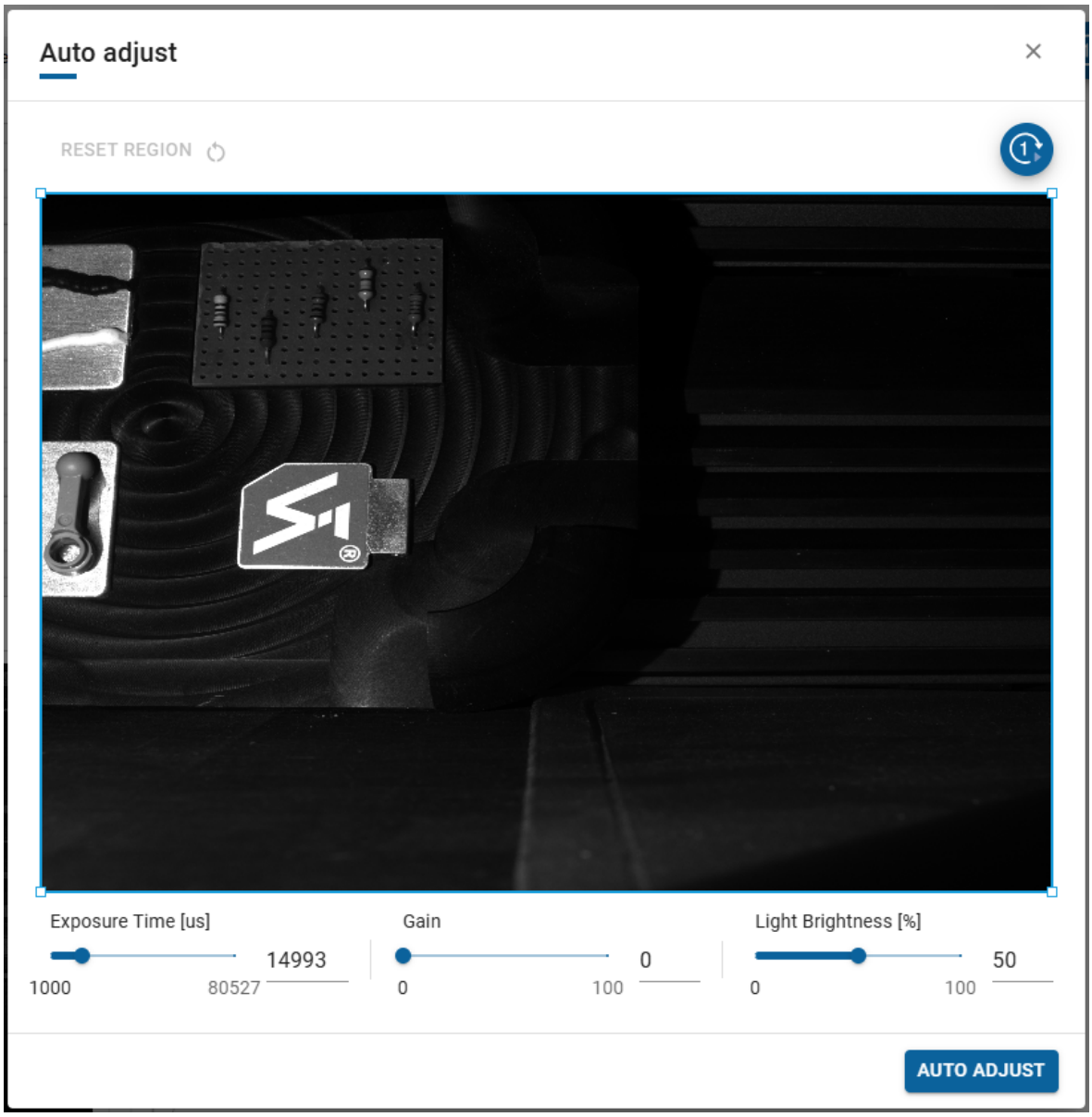
Easy view for 3D sensor M3DS

Select preset

- Select preset: Loads the camera parameters of the specific user set. Previous camera settings are overwritten.

Optimize input source data

- Light engine (only visible at “Acquisition engine 3D”): Defines the pattern of the light engine for the 3D mode. In stripe mode, the sensor provides a fast reconstruction with good quality even on glossy or reflective objects. It is particularly suitable for applications where short exposure times are important. In phase mode, the sensor generates highly precise point clouds with maximum accuracy requiring slightly longer acquisition times. It is particularly suitable for matte or diffuse surfaces.
- Light engine (only visible at “Acquisition engine 2D”): Defines the pattern of the light engine for the 2D mode.
- Auto adjust: Adjusts automatically exposure time, gain and light brightness to the current object within the auto adjust area. Clicking on the button opens the window to define at first the auto adjust region in the intensity image of the 3D sensor. Reset the region to default sets it to the complete readout area. Press the button single shot in order to capture new data. Click on “Auto adjust” to calculate the optimized values for exposure time, gain and light brightness. Auto adjust takes several seconds as the camera captures several images - be patient.
  - Exposure time [µs]: Defines the exposure time of the camera.
  - Gain: Defines the gain setting of the camera.
  - Light brightness [%]: Defines the brightness of the light engine.



- Priority: Defines if the priority is e.g. to capture an accurate point cloud or to adjust the parameters "Subsampling" and “Stack size” individually. The parameter “Priority” is not visible at “Acquisition Mode 2D”.
  - Subsampling: Activates or deactivates subsampling at the camera. Subsampling reduces the image size and the number of measuring points in the point cloud. Activate subsampling in order to reduce the readout, process and network transfer times.
  - Stack size: Defines the number of images that is used to calculate the point cloud for 3D mode. The greater the number of images, the better the accuracy of the point cloud, but the longer the complete exposure, readout and process times on the 3D sensor.

Filter point cloud

- Confidence filter: Defines if the confidence filter is on or off.
  - Confidence threshold: Defines the required minimum confidence value. Measuring points with lower confidence values are removed from the point cloud. The parameter is only visible if Confidence filter is on.
- Outlier filter: Defines if the outlier filter is on or off.
- Median filter: Defines if the median filter is on or off.
- Smoothing filter: Defines if the smoothing filter is on or off.
- Z filter: Defines if the z filter is on or off.
  - Z min: Defines the required minimum z value. Measuring points with lower z values are removed from the point cloud. The parameter is only visible if Z filter is on.

– Z max: Defines the required maximum z value. Measuring points with higher z values are removed from the point cloud. The parameter is only visible if Z filter is on.

NOTICE

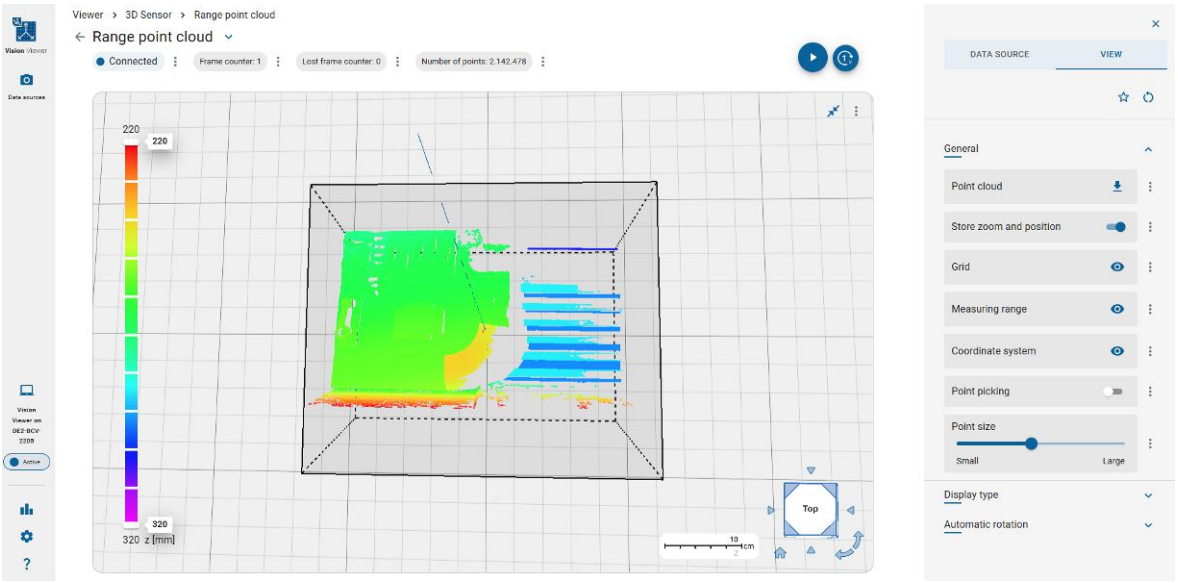
For details about the camera parameters of the “Expert view”, check the operating instructions of the specific camera (especially the GenICam interface protocol).

12.2 Data Tiles

The software wenglor Vision Viewer supports the following data tiles:

Range point cloud

Shows the point cloud of the camera (supported at 3D Sensors M3DS). Additionally, the software displays the number of points of the current point cloud.



Click on “VIEW” in order to adjust the view parameters:

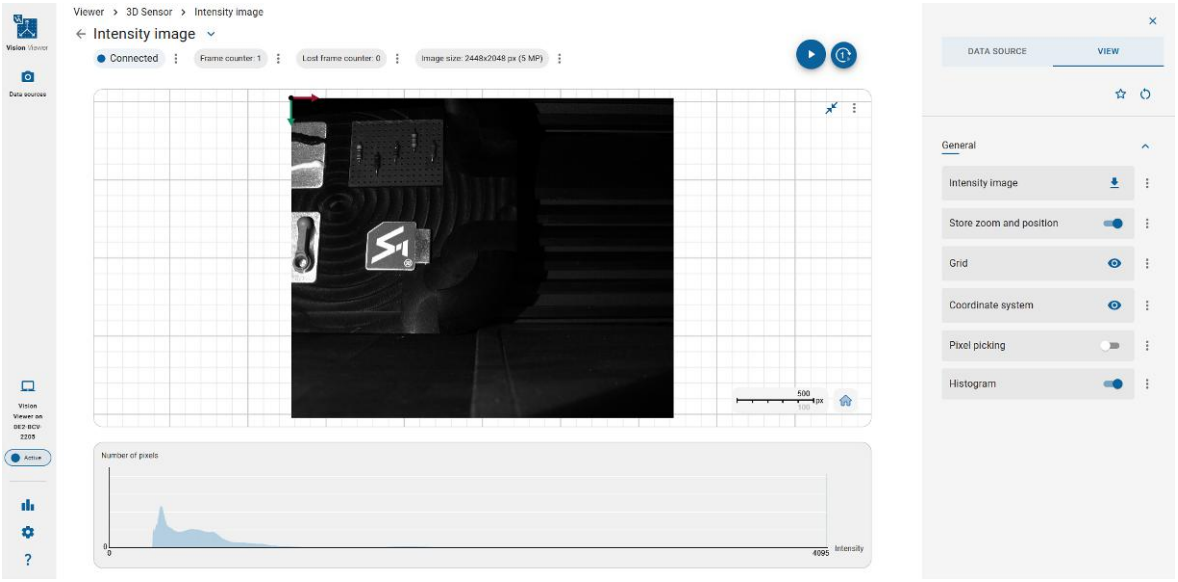
- General
  - Point cloud: Downloads the current point cloud in ply format.
  - Store zoom and position: If set to on (by default on), the software stores the latest zoom and position values and re-uses them when opening the viewer again.
  - Grid: If set to on (by default on), the software displays the grid in the background.
  - Measuring range: If set to on (by default on), the software displays the field of view of the camera.
  - Coordinate system: If set to on (by default on), the software displays the coordinate system with extension lines.
  - Point picking: If set to on (by default off), select a single point of the point cloud to display the values of the point (x, y, z and optionally further data like intensity or confidence). Selecting a second point displays also the distance between both points.
  - Point size: Defines the size of the measuring points.
- Display type
  - View: Defines if the color of the measuring points represent the z distance (default) or the intensity.

- Autoscale: Defines if automatic scaling of the color scale is on or off (by default off). If off, adjust the color scale on the left side of the point cloud manually. If on, it is not possible to adjust the color scale in the point cloud. The software uses automatically the measuring points with the smallest and biggest z value.

- Automatic rotation
  - Automatic rotation: Defines if automatic rotation is on or off (default).
  - Speed [deg/sec]: Defines the speed of the automatic rotation in degree per second.

Intensity image

Shows the intensity image of the camera (supported at 3D Sensors M3DS). Avoid intensity values that are too low (completely black) or too high (completely white). Execute auto adjust or set exposure time, gain and light brightness to optimize the intensity image. Additionally, the software displays the image size at the intensity image.

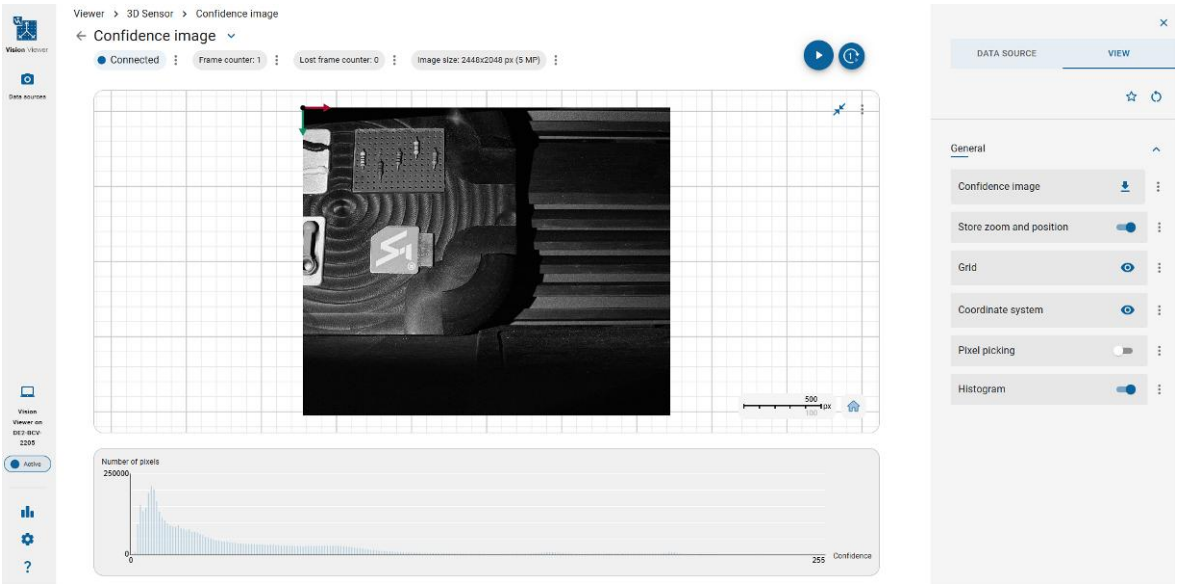


Click on “VIEW” in order to adjust the view parameters:

- Intensity image: Downloads the current intensity image in bmp format.
- Store zoom and position: If set to on (by default on), the software stores the latest zoom and position values and re-uses them when opening the viewer again.
- Grid: If set to on (by default on), the software displays the grid in the background.
- Coordinate system: If set to on (by default on), the software displays the coordinate system with extention lines.
- Pixel picking: If set to on (by default off), select a single pixel of the image to display the values of the pixel (x, y and intensity)
- Histogram: If set to on (by default on), the software displays the histogram of the intensity image.

Confidence image

Shows the confidence image of the camera (supported at 3D Sensors M3DS). The higher the confidence values (displayed as white pixels), the more reliable the measuring points. Additionally, the software displays the image size at the confidence image.

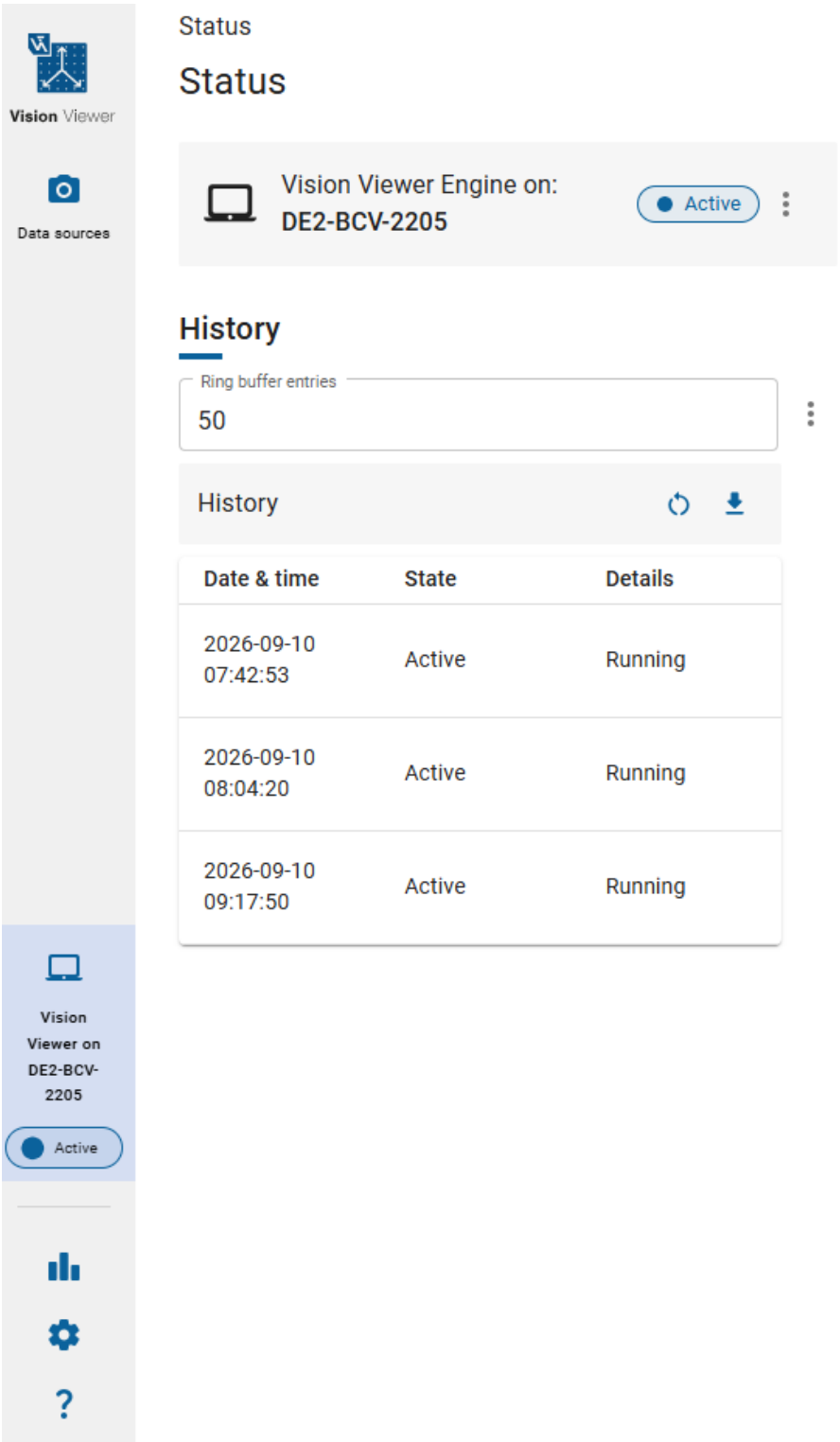


Click on “VIEW” in order to adjust the view parameters:

- Confidence image: Downloads the current confidence image in bmp format.
- Store zoom and position: If set to on (by default on), the software stores the latest zoom and position values and re-uses them when opening the viewer again.
- Grid: If set to on (by default on), the software displays the grid in the background.
- Coordinate system: If set to on (by default on), the software displays the coordinate system with extention lines.
- Pixel picking: If set to on (by default off), select a single pixel of the image to display the values of the pixel (x, y and confidence)
- Histogram: If set to on (by default on), the software displays the histogram of the confidence image.

13 Status of Vision Viewer Engine

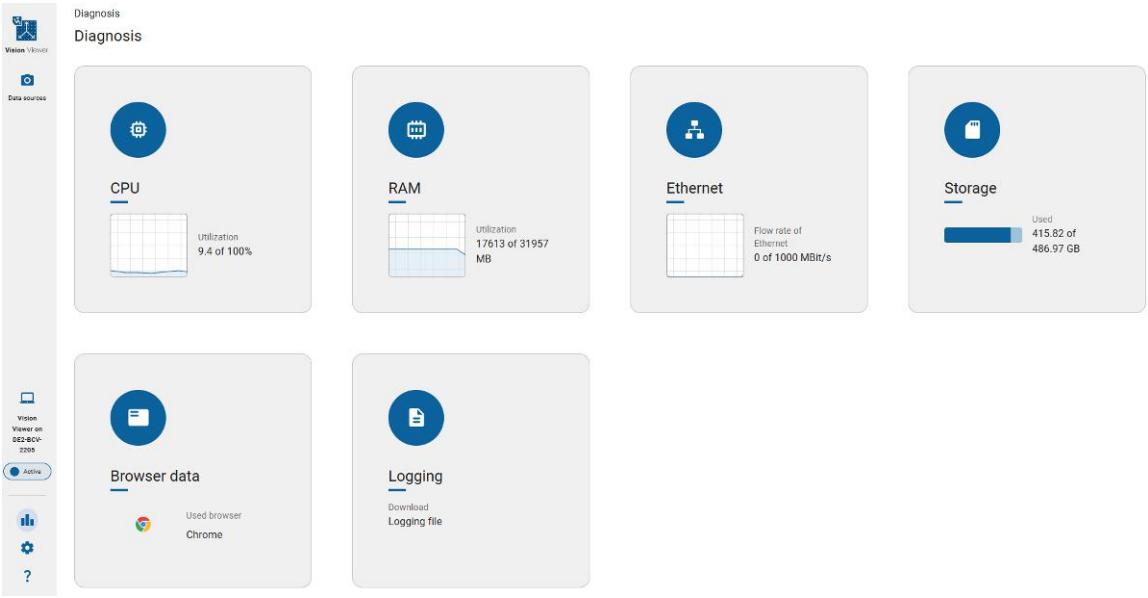
- Status of Vision Viewer Engine (active, warning or error)
- Detailed status information
- History: Returns a list of status changes with date and time, status and further details.
  - Ring buffer entries: Defines the number of historic status changes.
  - Reset history: Resets the status history.
  - Export: Exports the status history.



The Vision Viewer Engine supports the following status:

Status	Message	Details	Possible solution
Active	Running	The software starts without warnings or errors.	-
Warning	High CPU load	CPU load is bigger than 90% for minimum three seconds.	Reduce the CPU load on the PC.
Warning	High RAM	RAM is bigger than 90% for minimum three seconds.	Reduce the RAM usage on the PC.
Warning	High storage usage	Storage is bigger than 90% for minimum three seconds.	Reduce the storage usage on the PC.
Warning	High LAN Ethernet	LAN Ethernet network load is bigger than 90% for minimum three seconds.	Reduce the LAN Ethernet network load (e.g. by reducing the trigger frequency).
Warning	UDP port 33001 in use	The UDP port 33001 is in use by another user or another application. The weHub software cannot detect the Vision Viewer Engine automatically via the UDP search.	Close the other application that blocks the UDP port 33001.
Warning	TCP port 33007 in use	The TCP port 33007 is in use by another user or another application. The weHub software cannot add the Vision Viewer Engine via TCP.	Close the other application that blocks the TCP port 33007.
Error	Crashed software service	Crash at one of the software services.	Close and restart the software.

14 Diagnosis



The navigation rail “Diagnosis” provides the following option.

CPU

Shows the CPU load of the last 60 seconds at most.

RAM

Shows the RAM usage of the last 60 seconds at most.

Ethernet

Shows the Ethernet load of each network adapter of the last 60 seconds at most.

Storage

Shows the storage of the PC.

Browser data

Shows the details of the currently used browser.

Logging

The following logging settings are available:

- Logging: Defines if logging is on or off (by default off).
- Logging file: Downloads the logging file (tgz file) in order to send it to the wenglor support and development team (only available if “Logging” is on).

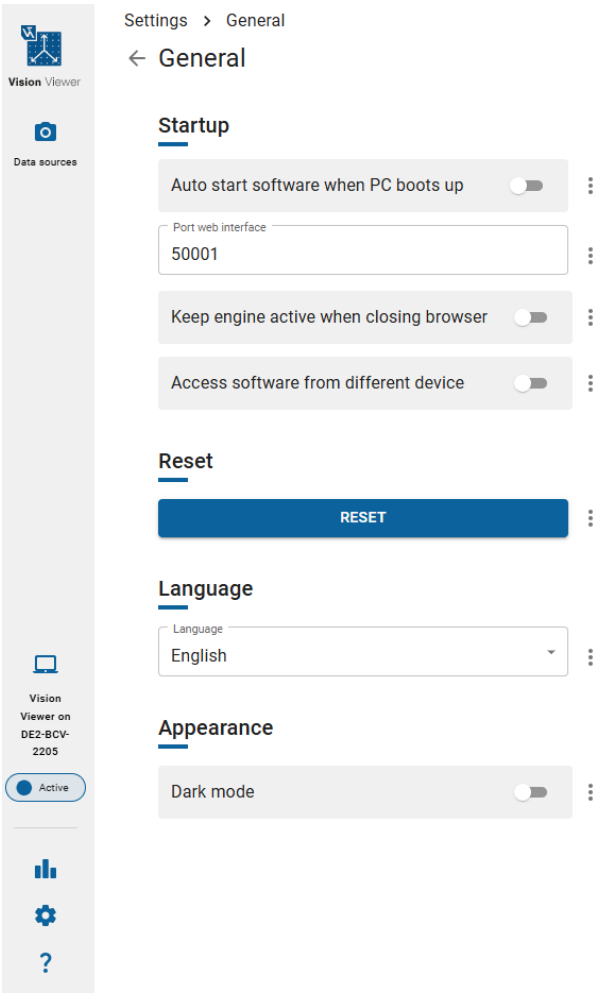
15 Settings

The navigation rail “Settings” provides the following option.

General

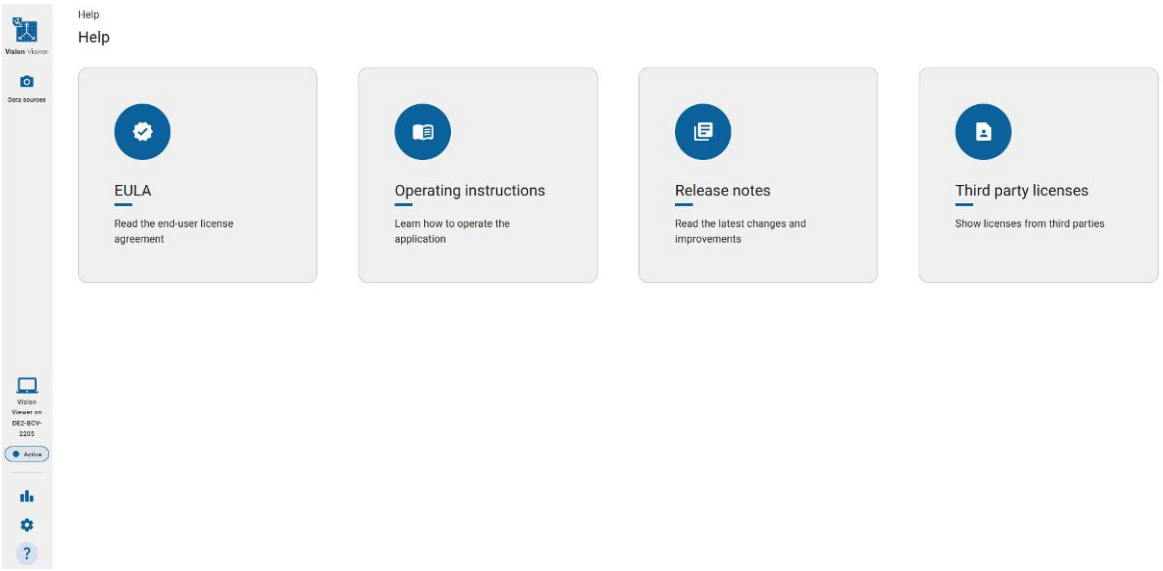
The following general settings are available:

- Startup
  - Auto start software when PC boots up: If set to on (by default off), the software automatically starts with boot up of the PC.
  - Port web interface: Defines the port of the web interface of the software (by default 50001).
  - Keep engine active when closing browser: If on (by default off), the Vision Viewer Engine (background application) remains active after closing the last tab of the wenglor Vision Viewer. Closing the Vision Viewer Engine is possible via the icon tray (see Closing the Vision Viewer [▶ 32]).
  - Access software from different device: If set to on (by default off), the Vision Viewer Engine is accessible by other PCs in the same network (e.g. detectable by the weHub software or via directly entering the IP address and the web port in any supported browser). If set to off, the software is only accessible from the PC itself where the Vision Viewer Engine runs on.
- Reset: Resets the settings to its defaults.
- Language: Defines the language of the software (DE, EN, FR, IT, ES, TR, ZH).
- Appearance: Defines if the dark mode for the software is on or off (by default off).



16 Help

The navigation rail “Help” provides the following options.



16.1 EULA

Clicking on “EULA” opens a new tab in the browser with the end-user license agreement.

16.2 Operating Instructions

Clicking on “Operating instructions” opens a new tab in the browser with the operating instructions of the software.

16.3 Release Notes

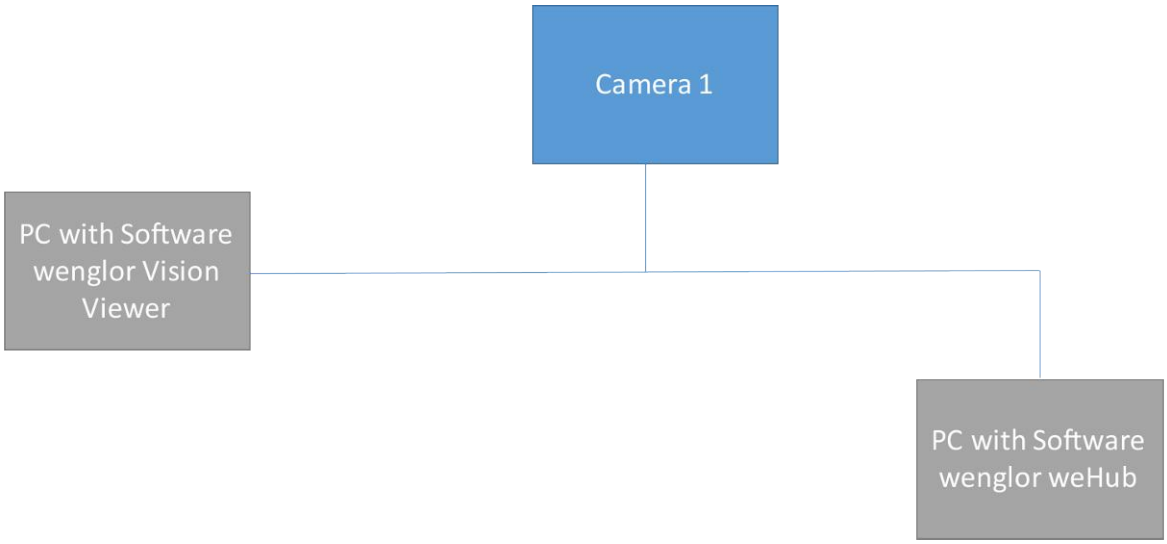
Clicking on “Release notes” opens a new tab in the browser with the release notes of the software.

16.4 Third-Party Licenses

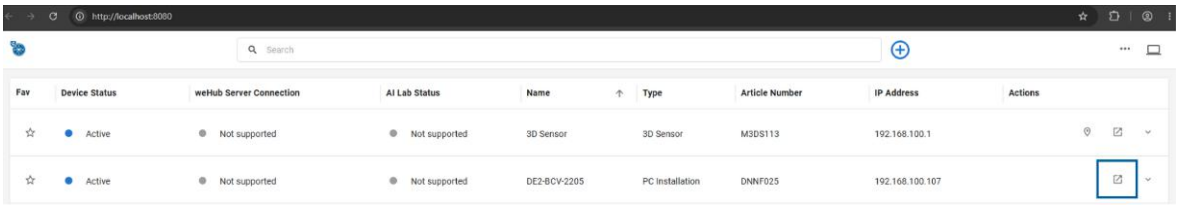
Clicking on “Third party licenses” opens the third party-licenses and allows to download them.

17 Finding Vision Viewer Engine in weHub Software

The software weHub DNNF024 finds the Vision Viewer Engine. In case of “Access software from different device” set to on, it helps to access the device website of the wenglor Vision Viewer in an easy way (without entering the IP address and the web port). For details, see Settings [▶ 29]. Make sure that UDP communication is possible in the firewall settings and that the UDP port 33001 is not in use at the PC with the software wenglor Vision Viewer in order to find the Vision Viewer Engine in the weHub software via the automatic UDP search. If adding the Vision Viewer Engine via IP address in the weHub software, make sure that the TCP port 33007 is not in use at the PC with the wenglor Vision Viewer.

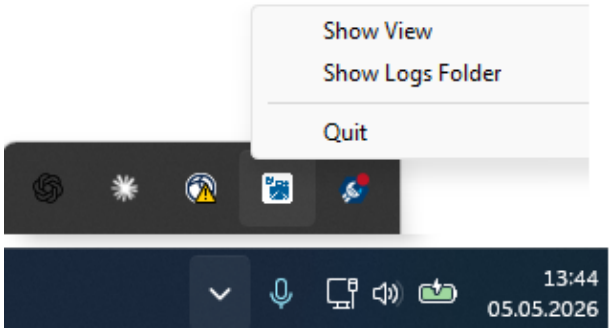


In the wenglor weHub software, click on “Open device” in order to access the device website of the wenglor Vision Viewer



18 Closing the Vision Viewer

By default, closing the last browser tab of the software wenglor Vision Viewer on the PC where the Vision Engine runs also stops the Vision Viewer Engine. In case of activating “Keep engine active when closing browser”, the Vision Viewer Engine keeps running in the background after closing the last browser tab (see Settings [▶ 29]). Check the Vision Viewer Engine in the icon try on the right side of the Windows taskbar. Open the context menu at the Vision Viewer Engine icon and click on “Quit” in order to stop the Vision Viewer Engine background application. Furthermore, it is possible to open the software in the default browser via “Show View” and to show the log folder via “Show Logs Folder”.



19 Third-Party Licenses

Third-party licenses used in the software wenglor Vision Viewer are available on the PC where the software is installed (see Third-Party Licenses [▶ 33]) or on the wenglor website (requires internet access) at

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

20 Change Index of Operating Instructions

Version	Release Date	Description	Compatibility
1.0	10.09.2026	Initial version	Software wenglor Vision Viewer 1.0.0