



EN

User Manual

**Management Software for
eneo IP Cameras**

eneo Site Manager

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1 Introduction

The eneo Site Manager (ESM) Item No.: 218218 is a service and configuration software tool developed for the eneo IP camera series, eneo recorders and eneo switches. It allows you to quickly discover and configure the eneo devices located in the local network.

The ESM offers the full range of functions for the eneo SN series, Eneo KN series and EN series. For older models the range of functions is limited. The eneo G series is no longer supported. For the limited and no longer supported devices, the eneo Scan Device (ESD) Software Item No.:210144 is still available.

The software can be downloaded in several data formats from Windows 7 (ZIP, .EXE), Linux (.RPM, .DEB, TAR.GZ) and Macintosh (.DMG) from the website: www.eneo-security.com.

For EXE, RPM and DEB, a corresponding setup will open for installation.

Alternatively, the software can be unpacked as a portable version in a directory of your choice using the unpacking formats (ZIP, TAR.GZ and DMG). All necessary files and directories are created automatically. After unpacking, it is recommended to pin the file "eneoSiteManager.exe" into the start bar of your Operating System. This simplifies further calls to the ESM.


1.1 System Requirements


- Dual Core CPU 1.6 GHz
- Windows 7/10 32-Bit, MacOS 10.11 or later or Linux kernel 3.14 with Qt 5.6
- 2 GB RAM
- 100 MB up to 10 GB HDD space(depends on downloaded firmware files)

The other operating systems may have a slightly different display of the ESM program windows, but this has no influence on the functionality of the ESM software. The manual can be used for all mentioned operating systems.


1.2 Program Symbols


These symbols make it easy to navigate through the program features:

...on the left side of the program window a panel with the available functions as defined in the device context menu is displayed. Shortcut keys are available for all functions. These are displayed in the context menu (right click on a device).

...on the left side of the program window a tool panel with available settings is displayed.


...starts rescan of the eneo devices on the network.


...starts the ESM Online Updater for the devices previously selected via "Update CheckBox". The ESM Online Updater requires an internet connection to download available firmware updates. Without internet access the ESM Online Updater is not available and this symbol is not displayed.


...opens the Bandwidth Calculator to estimate the required network bandwidth and storage space of the selected eneo cameras. The network bandwidth and storage space requirements can be saved and restored for different IP cameras in multiple projects.


...opens ESM program information window.

The device table uses the following icons to display the device status:

...(GREEN) shows devices accessible with a default login [admin:admin]. Program Functions can be applied without restriction to these devices.

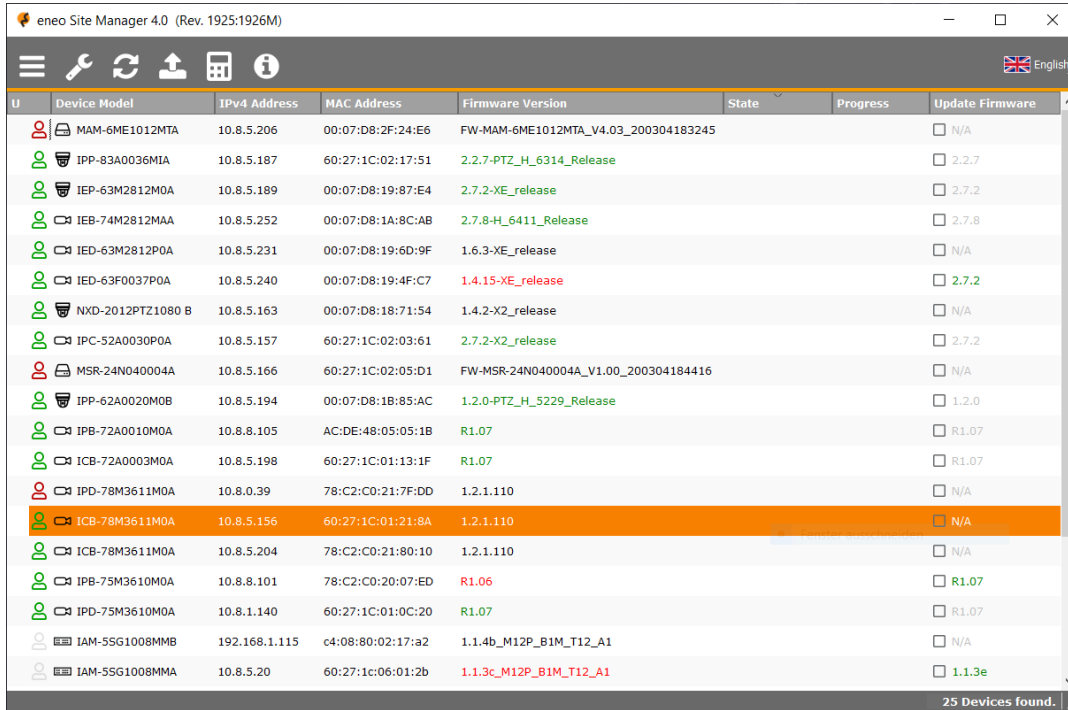
...(GREY) shows the devices that ESM has detected but cannot manage. Program functions cannot be applied to these devices.

...(RED) shows the devices which do not have standard access data. ESM can only manage these devices after a successful login. Otherwise the functions remain grayed out.

...(BLUE) shows the devices which are currently being processed. This could be a firmware update or the reboot of a camera. For further functions, the devices are blocked during this time.

2 Main Window

After the program start a welcome screen appears for about 3 seconds. During this time, the program searches in the background for available devices in the local network. The first devices appear in a list in the main window.



U	Device Model	IPv4 Address	MAC Address	Firmware Version	State	Progress	Update Firmware
	MAM-6ME1012MTA	10.8.5.206	00:07:D8:2F:24:E6	FW-MAM-6ME1012MTA_V4.03_200304183245			<input type="checkbox"/> N/A
	IPP-83A0036MIA	10.8.5.187	60:27:1C:02:17:51	2.2.7-PTZ_H_6314_Release			<input type="checkbox"/> 2.2.7
	IEP-63M2812M0A	10.8.5.189	00:07:D8:19:87:E4	2.7.2-XE_release			<input type="checkbox"/> 2.7.2
	IEB-74M2812MAA	10.8.5.252	00:07:D8:1A:8C:AB	2.7.8-H_6411_Release			<input type="checkbox"/> 2.7.8
	IED-63M2812P0A	10.8.5.231	00:07:D8:19:6D:9F	1.6.3-XE_release			<input type="checkbox"/> N/A
	IED-63F0037P0A	10.8.5.240	00:07:D8:19:4F:C7	1.4.15-XE_release			<input type="checkbox"/> 2.7.2
	NXD-2012PTZ1080 B	10.8.5.163	00:07:D8:18:71:54	1.4.2-X2_release			<input type="checkbox"/> N/A
	IPC-52A0030P0A	10.8.5.157	60:27:1C:02:03:61	2.7.2-X2_release			<input type="checkbox"/> 2.7.2
	MSR-24N040004A	10.8.5.166	60:27:1C:02:05:D1	FW-MSR-24N040004A_V1.00_200304184416			<input type="checkbox"/> N/A
	IPP-62A0020M0B	10.8.5.194	00:07:D8:1B:85:AC	1.2.0-PTZ_H_5229_Release			<input type="checkbox"/> 1.2.0
	IPB-72A0010M0A	10.8.8.105	AC:DE:48:05:05:1B	R1.07			<input type="checkbox"/> R1.07
	ICB-72A0003M0A	10.8.5.198	60:27:1C:01:13:1F	R1.07			<input type="checkbox"/> R1.07
	IPD-78M3611M0A	10.8.0.39	78:C2:C0:21:7F:DD	1.2.1.110			<input type="checkbox"/> N/A
	ICB-78M3611M0A	10.8.5.156	60:27:1C:01:21:8A	1.2.1.110			<input type="checkbox"/> N/A
	ICB-78M3611M0A	10.8.5.204	78:C2:C0:21:80:10	1.2.1.110			<input type="checkbox"/> N/A
	IPB-75M3610M0A	10.8.8.101	78:C2:C0:20:07:ED	R1.06			<input type="checkbox"/> R1.07
	IPD-75M3610M0A	10.8.1.140	60:27:1C:01:0C:20	R1.07			<input type="checkbox"/> R1.07
	IAM-55G1008MMB	192.168.1.115	c4:08:80:02:17:a2	1.1.4b_M12P_81M_T12_A1			<input type="checkbox"/> N/A
	IAM-55G1008MMA	10.8.5.20	60:27:1c:06:01:2b	1.1.3c_M12P_81M_T12_A1			<input type="checkbox"/> 1.1.3e

Figure 1: View of the main window.

Depending on the number of connected devices and the network traffic, the list is completed step by step.

eneo Site Manager 4.0 (Rev. 1925:1926M)

English

Device Functions

- Open Webinterface
- Live View
- Restart
- Factory Reset (Except IP)
- Factory Reset (Full)
- Backup Settings
- Restore Settings
- Network Settings
- Firmware Update
- WiFi Connect

U	Device Model	IPv4 Address	MAC Address	Firmware Version	State
	MAM-6ME1012MTA	10.8.5.206	00:07:D8:2F:24:E6	FW-MAM-6ME1012MTA_V4.03_200304183245	
	IPP-83A0036MIA	10.8.5.187	60:27:1C:02:17:51	2.2.7-PTZ_H_6314_Release	
	IEP-63M2812MOA	10.8.5.189	00:07:D8:19:87:E4	2.7.2-XE_release	
	IEB-74M2812MAA	10.8.5.252	00:07:D8:1A:8C:AB	2.7.8-H_6411_Release	
	IED-63M2812POA	10.8.5.231	00:07:D8:19:6D:9F	1.6.3-XE_release	
	IED-63F0037POA	10.8.5.240	00:07:D8:19:4F:C7	1.4.15-XE_release	
	NXD-2012PTZ1080 B	10.8.5.163	00:07:D8:18:71:54	1.4.2-X2_release	
	IPC-52A0030POA	10.8.5.157	60:27:1C:02:03:61	2.7.2-X2_release	
	MSR-24N040004A	10.8.5.166	60:27:1C:02:05:D1	FW-MSR-24N040004A_V1.00_200304184416	
	IPP-62A0020MOB	10.8.5.194	00:07:D8:1B:85:AC	1.2.0-PTZ_H_5229_Release	
	IPB-72A0010MOA	10.8.8.105	AC:DE:48:05:05:1B	R1.07	
	ICB-72A0003MOA	10.8.5.198	60:27:1C:01:13:1F	R1.07	
	IPD-78M3611MOA	10.8.0.39	78:C2:C0:21:7F:DD	1.2.1.110	
	ICB-78M3611MOA	10.8.5.156	60:27:1C:01:21:8A	1.2.1.110	
	ICB-78M3611MOA	10.8.5.204	78:C2:C0:21:80:10	1.2.1.110	
	IPB-75M3610MOA	10.8.8.101	78:C2:C0:20:07:ED	R1.06	
	IPD-75M3610MOA	10.8.1.140	60:27:1C:01:0C:20	R1.07	
	IAM-55G1008MMB	192.168.1.115	c4:08:80:02:17:a2	1.1.4b_M12P_B1M_T12_A1	
	IAM-55G1008MMB	10.8.5.20	60:27:1C:05:01:7b	1.1.2b_M12P_B1M_T12_A1	

10.8.8.9

25 Devices found.

Figure 2: View of the main window with opened function window.

2.1 General program functions

To configure or test a device, move the mouse pointer to the corresponding device and confirm the selection with a mouse click . To select several devices, the Ctrl- or Shift- key must be activated additionally.

With the right mouse button on the selected devices you get the context menu with all available ESM functions. Most of the functions can be applied to several devices at the same time.

Alternatively, the ESM functions can be executed using the controls on the left side of the main program window. These controls are only active if the devices are already selected and the corresponding functions are supported by all selected devices.

eneo Site Manager 4.0 (Rev. 1925:1926M)

U	Device Model	IPv4 Address	MAC Address	Firmware Version	State	Progress	Update Firmware
	MAM-6ME1012MTA	10.8.5.206	00:07:D8:2F:24:E6	FW-MAM-6ME1012MTA_V4.03_200304183245			<input type="checkbox"/> N/A
	IPP-83A0036MIA	10.8.5.187	60:27:1C:02:17:51	2.2.7-PTZ_H_6314_Release			<input type="checkbox"/> 2.2.7
	IEP-63M2812MOA	10.8.5.189	00:07:D8:19:87:E4	2.7.2-XE_release			<input type="checkbox"/> 2.7.2
	IEB-74M2812MAA	10.8.5.252	00:07:D8:1A:8C:AB	2.7.8-H_6411_Release			<input type="checkbox"/> 2.7.8
	IED-63M2812POA	10.8.5.231	00:07:D8:1A:8C:AB				<input type="checkbox"/> N/A
	IED-63F0037POA	10.8.5.240	00:07:D8:1A:8C:AB				<input type="checkbox"/> 2.7.2
	NXD-2012PTZ1080 B	10.8.5.163	00:07:D8:1A:8C:AB				<input type="checkbox"/> N/A
	IPC-52A0030POA	10.8.5.157	60:27:1C:02:17:51				<input type="checkbox"/> 2.7.2
	MSR-24N040004A	10.8.5.166	60:27:1C:02:17:51				<input type="checkbox"/> N/A
	IPP-62A0020MOB	10.8.5.194	00:07:D8:1A:8C:AB				<input type="checkbox"/> 1.2.0
	IPB-72A0010MOA	10.8.8.105	AC:DE:68:00:00:00				<input type="checkbox"/> R1.07
	ICB-72A0003MOA	10.8.5.198	60:27:1C:02:17:51				<input type="checkbox"/> R1.07
	IPD-78M3611MOA	10.8.0.39	78:C2:00:21:80:10				<input type="checkbox"/> N/A
	ICB-78M3611MOA	10.8.5.156	60:27:1C:02:17:51				<input type="checkbox"/> N/A
	ICB-78M3611MOA	10.8.5.204	78:C2:00:21:80:10	1.2.1.110			<input type="checkbox"/> N/A
	IPB-75M3610MOA	10.8.8.101	78:C2:00:20:07:ED	R1.06			<input type="checkbox"/> R1.07
	IPD-75M3610MOA	10.8.1.140	60:27:1C:01:0C:20	R1.07			<input type="checkbox"/> R1.07
	IAM-55G1008MMB	192.168.1.115	c4:08:80:02:17:a2	1.1.4b_M12P_B1M_T12_A1			<input type="checkbox"/> N/A
	IAM-55G1008MMA	10.8.5.20	60:27:1c:06:01:2b	1.1.3c_M12P_B1M_T12_A1			<input type="checkbox"/> 1.1.3e

25 Devices found.

Figure 3: View of the main window with opened context menu.

3 Functions Descriptions

3.1 Opening with a Web Browser

The device can be opened directly from the ESM with the web browser. To do this, simply click on the menu item in the context menu "Open Web Interface" or "Open Web Interface with ..." (to select the web browser).

3.2 Login with Credentials

If the credentials of the cameras have been changed, they can be entered in the login window. The function can be applied to individual cameras or to all selected cameras.

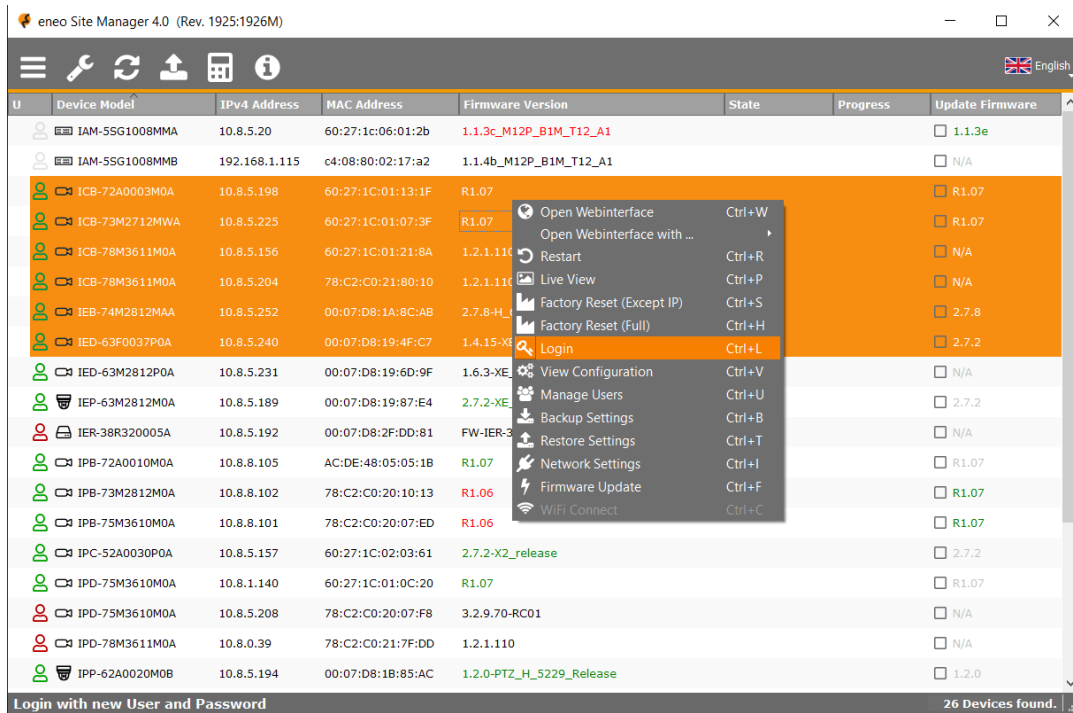


Figure 4: View of the main window with opened context menu and login selection.

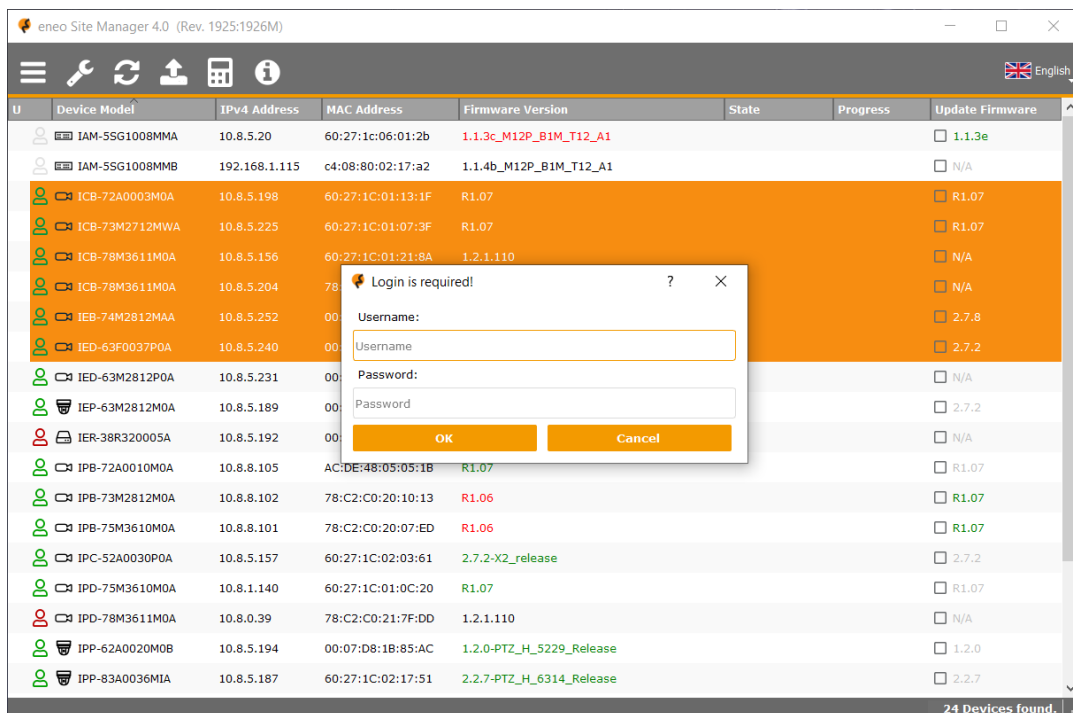


Figure 5: View of the main window with opened context menu and login window.

3.3 Edit Users

You can create new users, edit existing users or delete users for individual or all selected cameras. It is important that the user performing this operation acts as "admin" on the cameras.

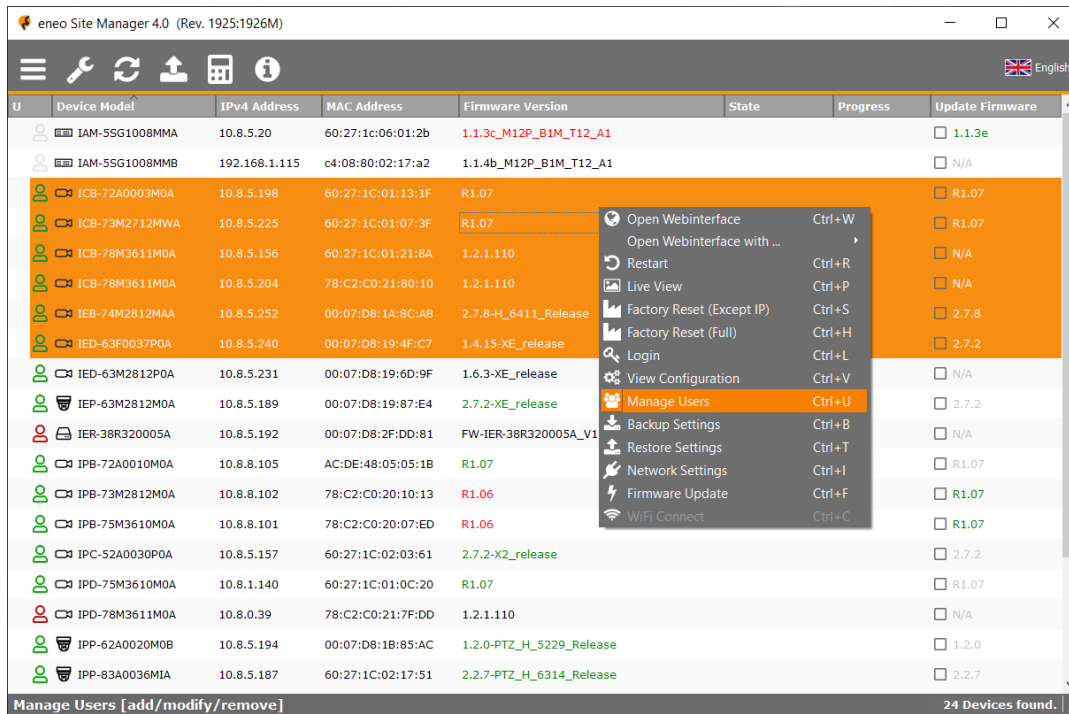


Figure 6: View of the main window with opened context menu and Manage User selection.

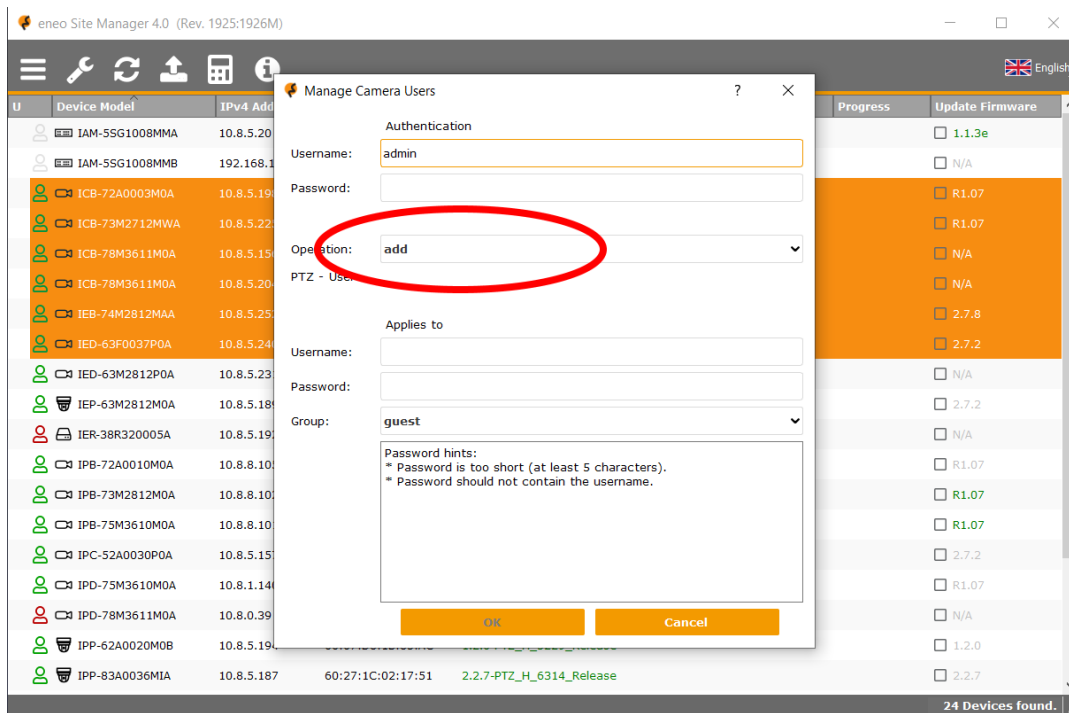


Figure 7: View of the main window and openedManage User Dialog.

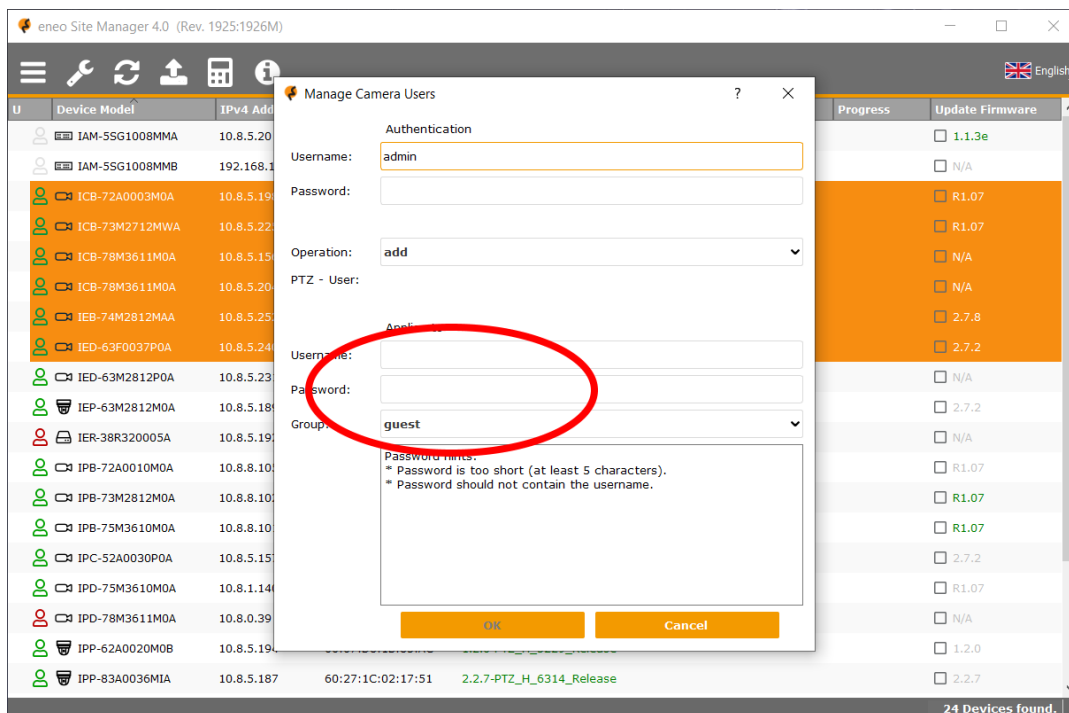


Figure 8: View of the main window with opened Manage User dialog.

3.4 Change Camera Network Settings

IP address changes are also possible for single or multiple cameras. By clicking on the context menu entry "Network Settings", the IP settings of the camera(s) can be changed via the ESM.

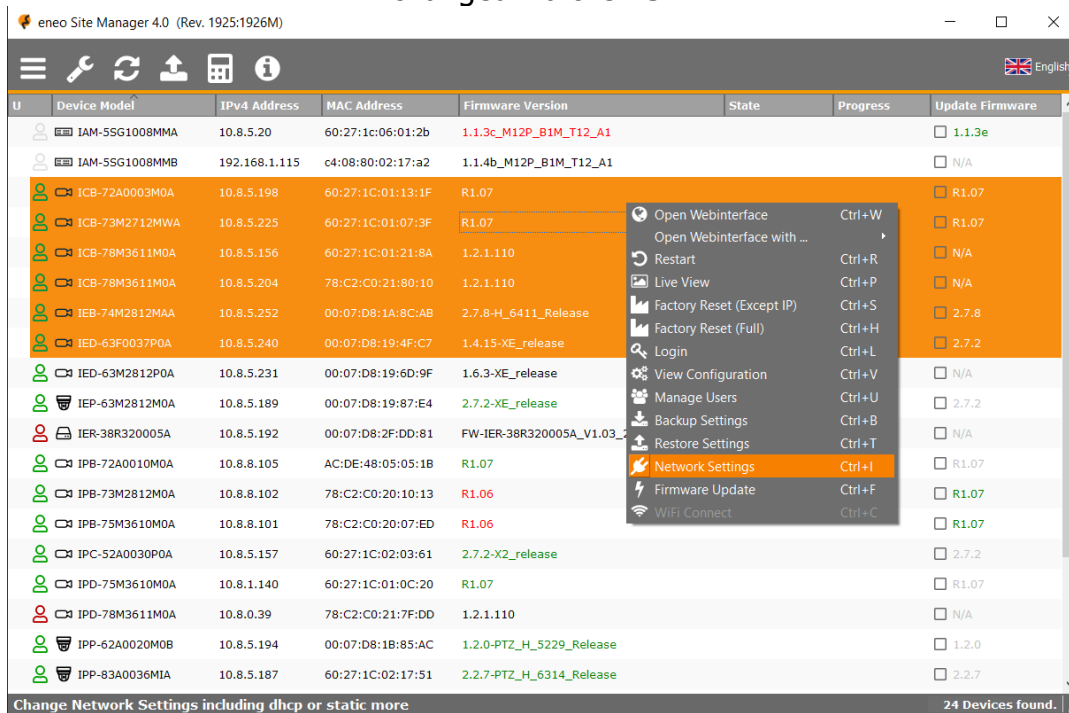


Figure 9: View of the main window with opened context menu and IP address selection.

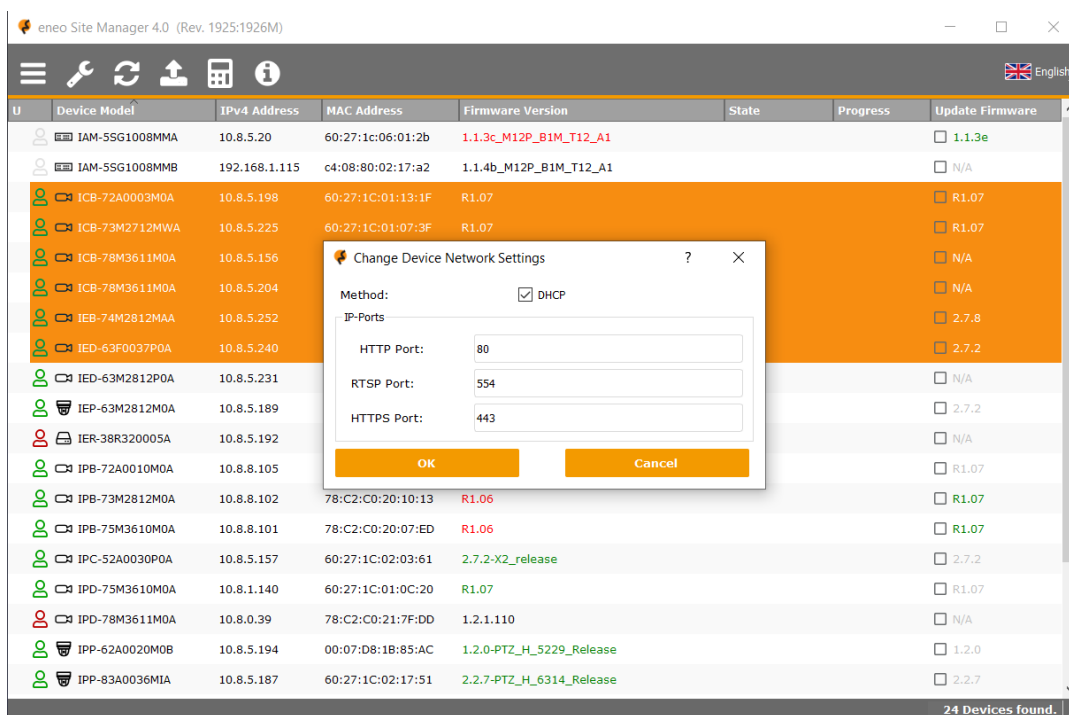


Figure 10: View of the main window with open IP addresses dialog (with DHCP).

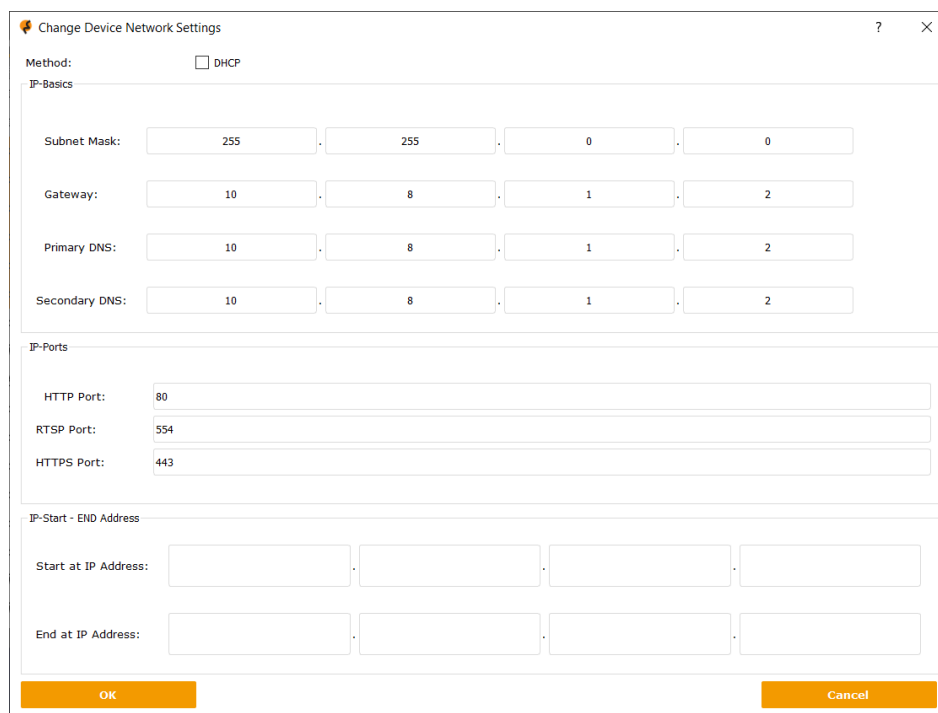


Figure 11: View of the main window with open IP Addresses dialog and deactivated DHCP setting.

3.5 Viewing the camera configuration

If you want to view the camera configuration with a quick view, select the context menu entry "View configuration" with the mouse and click on it. The camera configuration will then be listed in a separate window. This function is executed for one camera at a time. It is not intended to list all cameras configuration with one call.

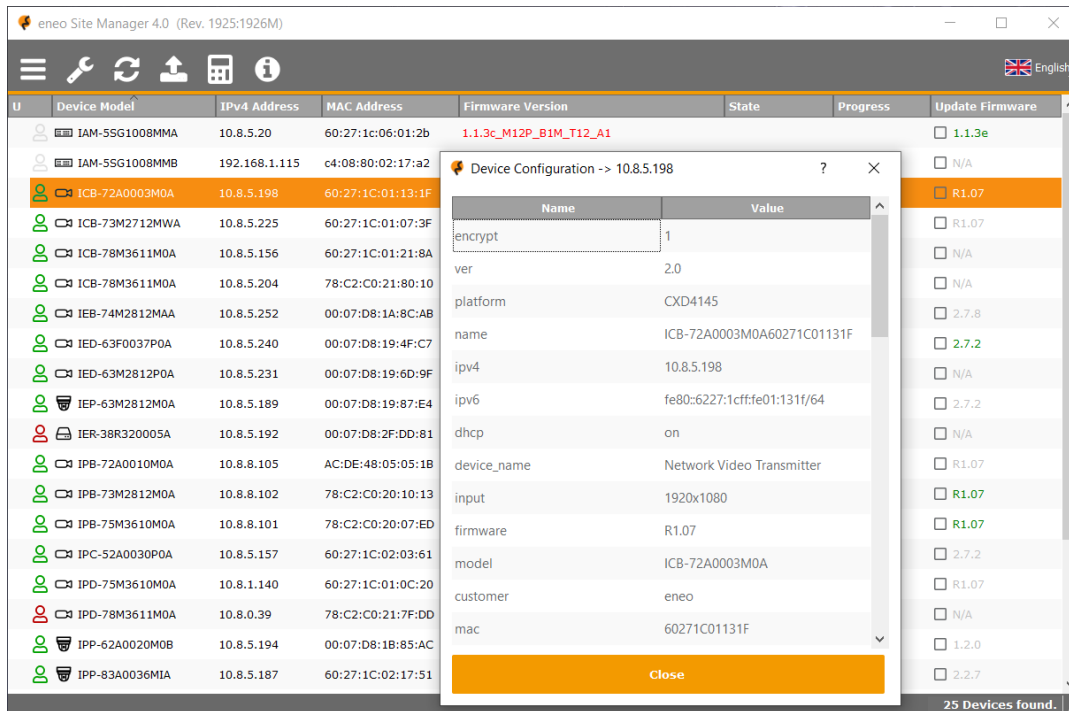


Figure 12: View of the main window with opened context menu and camera configuration view.

3.6 Single- or Multi-LiveView

It is possible to display video images from individual cameras or from several cameras. The procedure for selecting the cameras is the same as described above. Either move the mouse to one of the listed cameras and select the "Get Picture" entry from the context menu with the mouse button. A single live image will be shown. If you select multiple cameras, a multi-image display opens. In the desktop version the ESM automatically selects between 1, 4 or 9 multi-image display. In the mobile version only single image and 4-image display are available.

By clicking on the gear symbol in the lower right corner of the Live View window, you can set which options are displayed in each Live Window. In addition, you can select whether the camera stream can be selected.

The on/off icon in the lower left corner closes the Live View window.

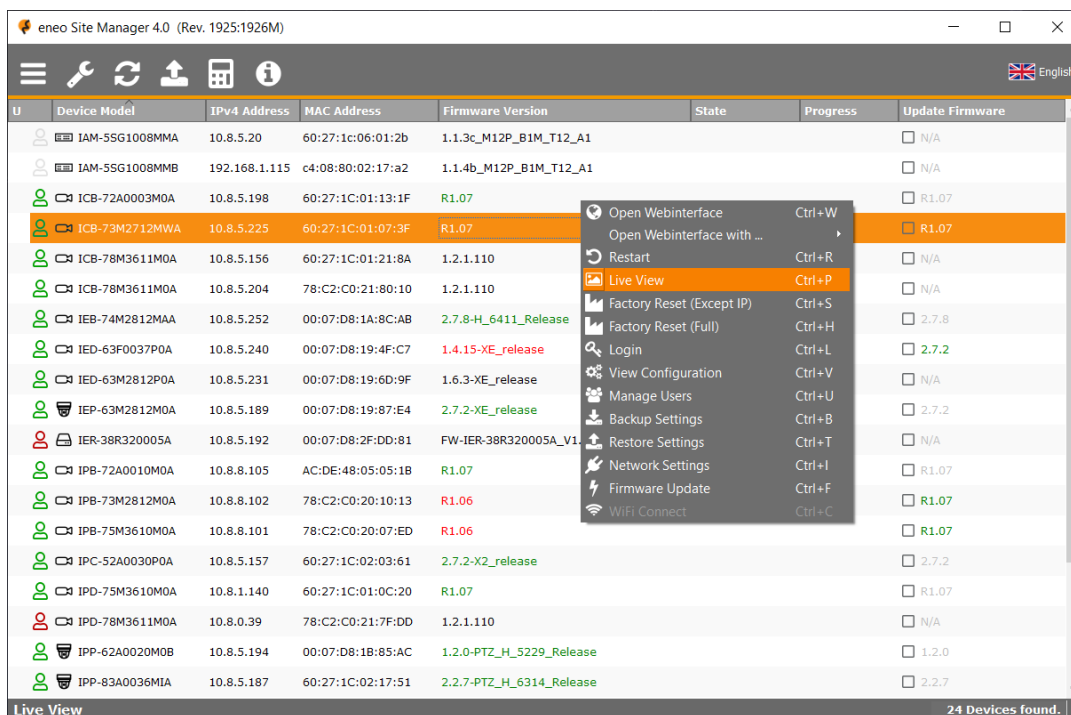


Figure 13: View of the main window with opened context menu and Live View selection.

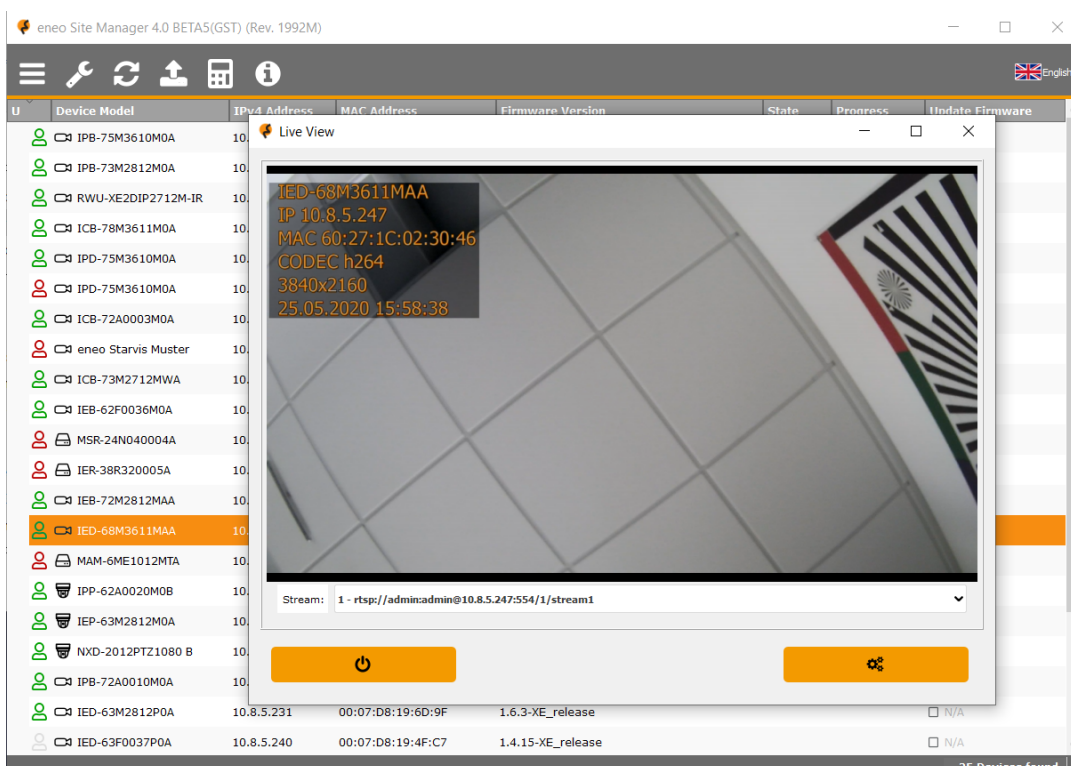


Figure 14: View of the main window with Live View: Single image display.

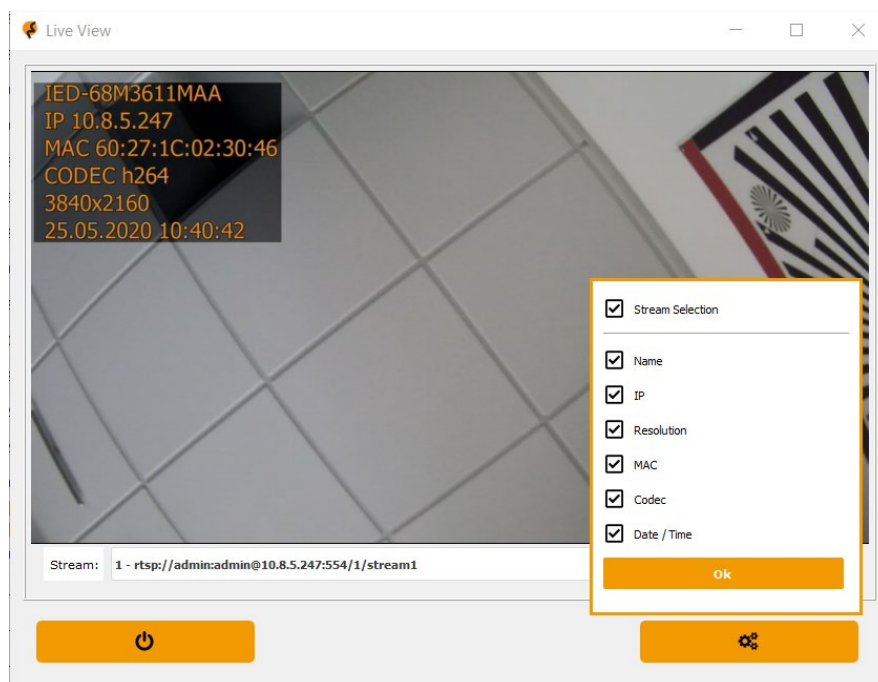


Figure 15: Live View: Change settings.

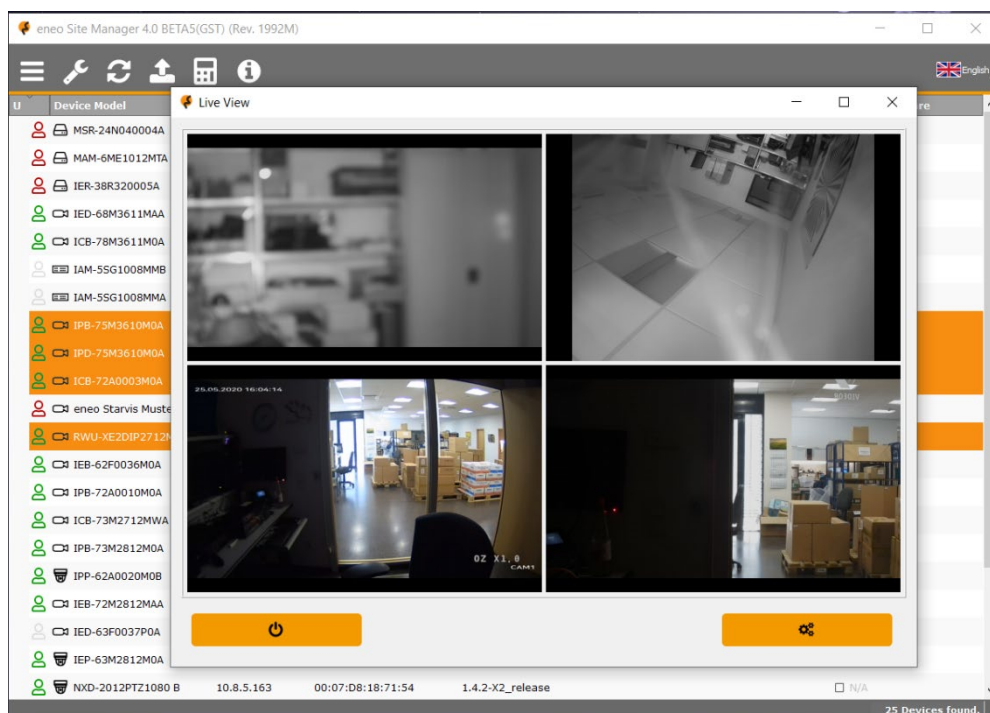


Figure 16: View of the main window with Live View open: Multi-image/4 display.

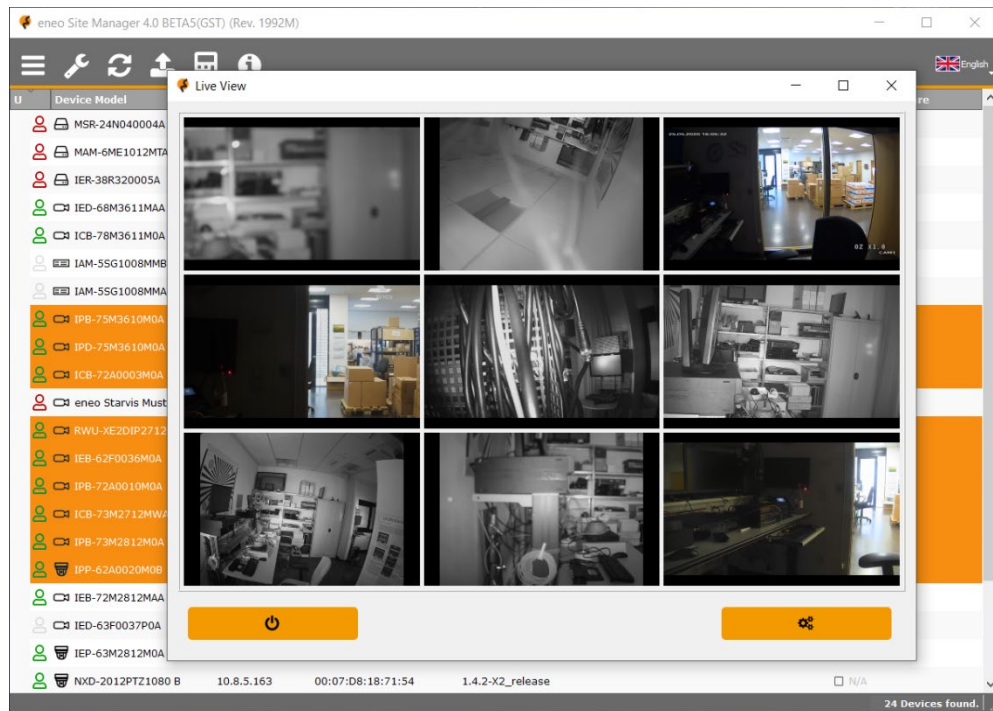


Figure 17: View of the main window with Live View open: multi-image/9 display.

3.7 Reboot

This function starts the reboot process of the selected cameras. After the reboot, the selected cameras will need some time to restore the connection. This function can be helpful for troubleshooting.

3.8 Backup Camera Configuration

This function allows the camera configurations to be saved on the PC. The file names can be uniquely assigned by specifying the camera MAC address. The configuration data can be stored in a selectable directory (default: eneoESM/userdata/export).

3.9 Restore Camera Configuration

This function can be used to restore a camera configuration. This applies, for example, to an exchanged camera (of the same type) or to loading a specifically created configuration that you would like to load onto several cameras (of the same type). The saved camera configuration files can be found in the directory specified in the previous step (default: eneoESM/userdata/export) if they have been saved before.

3.10 Factory Reset (Except IP)

After executing this function, the camera network settings is not changed. All other

functions are set to factory defaults. The connection to the camera remains established.

3.11 Factory Reset (All)

All settings in the camera, including the IP address, are reset to the factory default settings. Depending on the settings, the connection to the camera will be lost.

3.12 Firmware Update(manual)

The manual firmware update, which can be activated via the context menu, requires that a suitable camera firmware file is already stored locally. This can be downloaded from the product description pages of the individual cameras at <https://www.eneo-security.com>.

A firmware update can be performed for single or multiple selected cameras of the same or compatible type. For a better overview, the camera list can be restricted using the "Name Filter" function (see section 4.1). The "Name Filter" function can be called via the tool panel.

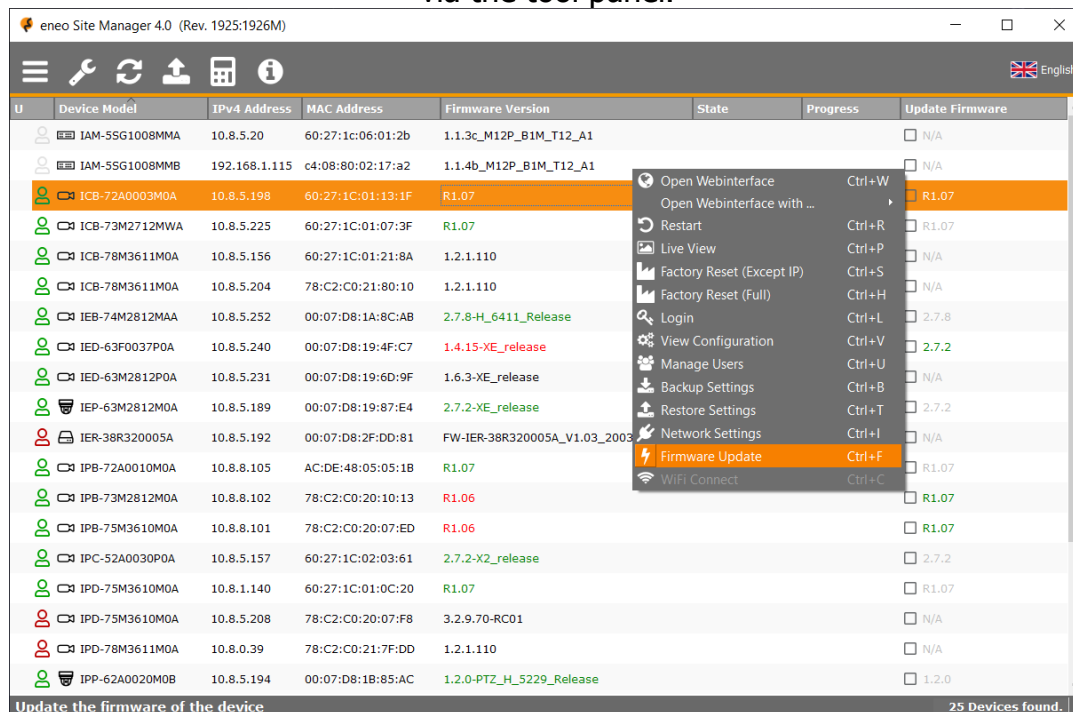


Figure 18: View of the main window with opened context menu and firmware update.

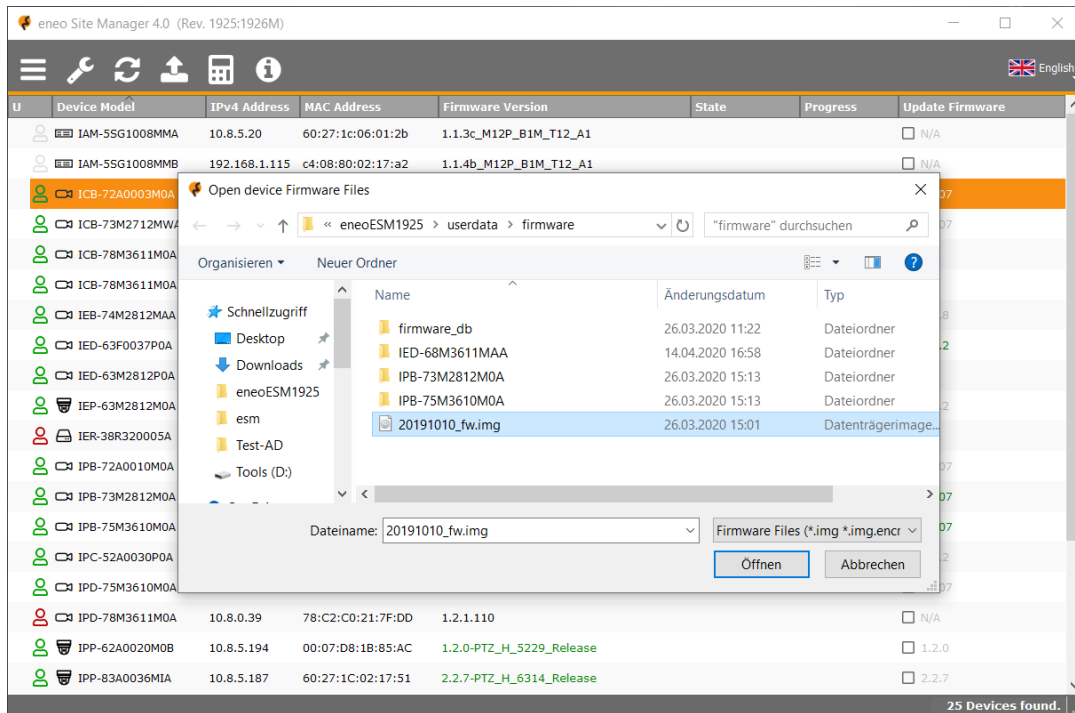


Figure 19: View of the main window with opened context menu and firmware update (Selected FW file)

3.13 Firmware Update (Online Updater)

If the ESM program has internet access, the ESM Updater searches in the background for the new firmware versions. If a newer firmware version is available for a camera, the currently used firmware version is marked in red in the device table. If there is no newer version, the text color is green. Otherwise, the Updater is still searching or cannot find any information about suitable firmware. The firmware version is then displayed in black.

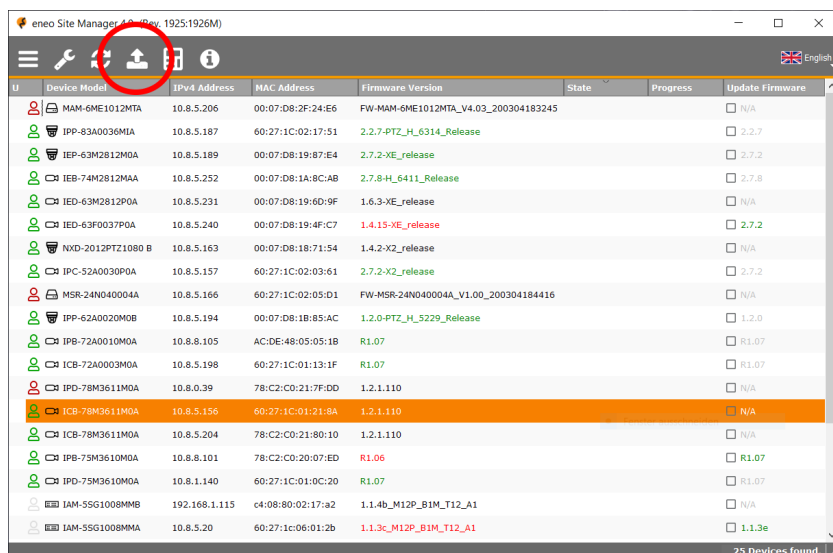
The column "Firmware Update" shows which firmware will be installed (assuming the checkbox in this column has been activated by the user). Usually, the latest firmware available for the corresponding camera is displayed here. If you would like to select a different firmware version, please double-click on the displayed firmware version. A list with all matching firmware versions will be displayed.



Figure 20: Main bar while checking for updates.

As soon as the ESM Updater has finished scanning in the background, the ESM Updater icon will also appear in the main bar.

It opens a window that starts the update process and shows the progress of downloading the firmware files from the internet. When the downloads are finished, this window can be closed. The installation on the cameras follows automatically.



U	Device Model	IPv4 Address	MAC Address	Firmware Version	State	Progress	Update Firmware
	MAM-6ME1012MTA	10.8.5.206	00:07:D8:2F:24:E6	FW-MAM-6ME1012MTA_V4.03_200304183245			<input type="checkbox"/> N/A
	IPP-83A0036MIA	10.8.5.187	60:27:1C:02:17:51	2.2.7-PTZ_H_6314_Release			<input type="checkbox"/> 2.2.7
	IEP-63M2812MDA	10.8.5.189	00:07:D8:19:87:E4	2.7.2-XE_release			<input type="checkbox"/> 2.7.2
	IEB-74M2812MAA	10.8.5.252	00:07:D8:1A:9C:AB	2.7.8-H_6411_Release			<input type="checkbox"/> 2.7.8
	IED-63M2812POA	10.8.5.231	00:07:D8:19:6D:9F	1.6.3-XE_release			<input type="checkbox"/> N/A
	IED-63F0037POA	10.8.5.240	00:07:D8:19:4F:C7	1.4.15-XE_release			<input type="checkbox"/> 2.7.2
	NXD-2012PTZ1080 B	10.8.5.163	00:07:D8:18:71:54	1.4.2-X2_release			<input type="checkbox"/> N/A
	IPC-52A0030POA	10.8.5.157	60:27:1C:02:03:61	2.7.2-X2_release			<input type="checkbox"/> 2.7.2
	MSR-24N040004A	10.8.5.166	60:27:1C:02:05:D1	FW-MSR-24N040004A_V1.00_200304184416			<input type="checkbox"/> N/A
	IPP-62A0020M0B	10.8.5.194	00:07:D8:1B:85:AC	1.2.0-PTZ_H_5229_Release			<input type="checkbox"/> 1.2.0
	IPB-72A0010MDA	10.8.8.105	AC:DE:48:05:05:1B	R1.07			<input type="checkbox"/> R1.07
	ICB-72A0003MDA	10.8.5.198	60:27:1C:01:13:1F	R1.07			<input type="checkbox"/> R1.07
	IPD-78M3611MDA	10.8.0.39	78:C2:C0:21:7F:DD	1.2.1.110			<input type="checkbox"/> N/A
	ICB-78M3611MDA	10.8.5.156	60:27:1C:01:21:8A	1.2.1.110			<input type="checkbox"/> N/A
	ICB-78M3611MDA	10.8.5.204	78:C2:C0:21:80:10	1.2.1.110			<input type="checkbox"/> N/A
	IPB-75M3610MDA	10.8.8.101	78:C2:C0:20:07:ED	R1.06			<input type="checkbox"/> R1.07
	IPD-75M3610MDA	10.8.1.140	60:27:1C:01:0C:20	R1.07			<input type="checkbox"/> R1.07
	IAM-55G1008MMB	192.168.1.115	c4:08:80:02:17:a2	1.1.4b_M12P_B1M_T12_A1			<input type="checkbox"/> N/A
	IAM-55G1008MMA	10.8.5.20	60:27:1C:06:01:2b	1.1.3c_M12P_B1M_T12_A1			<input type="checkbox"/> 1.1.3e

Figure 21: Main bar: When the search for new updates is completed and the Online Updater can be used for firmware updates.

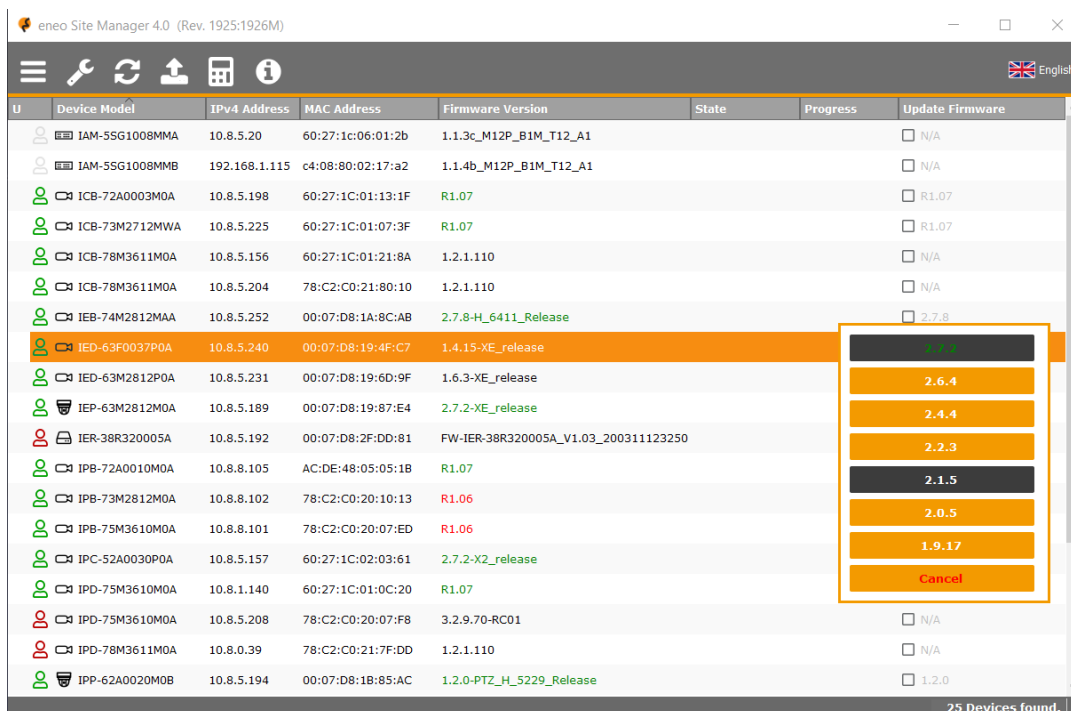


Figure 22: ESM window with firmware version selection for the update.

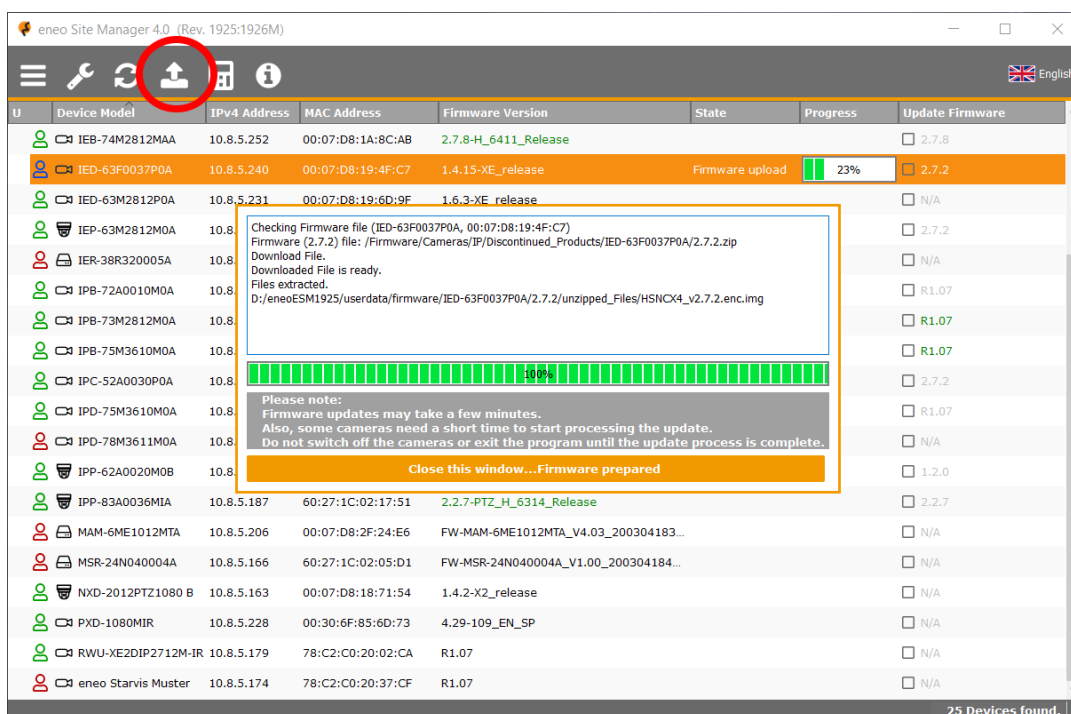
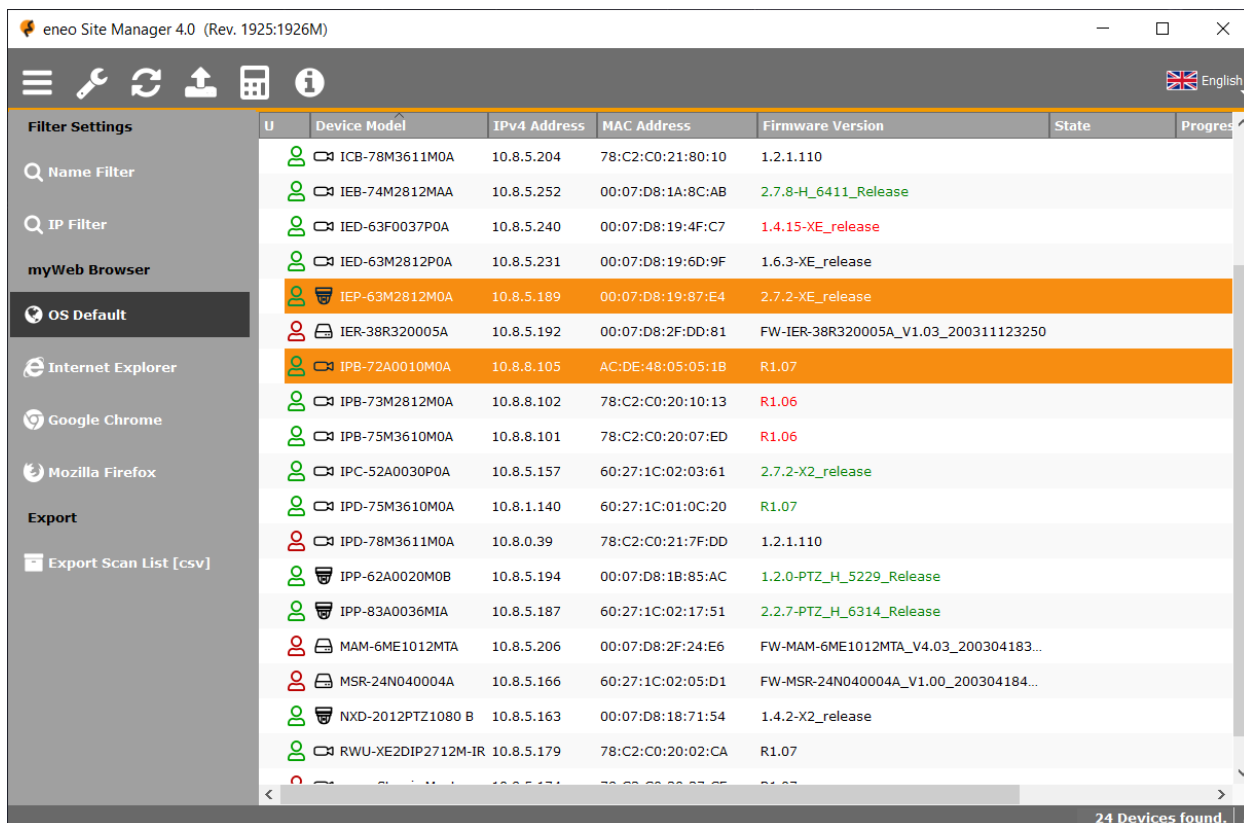


Figure 23: ESM Updater window with status display.

4 Tools Menu in Main Window



eneo Site Manager 4.0 (Rev. 1925:1926M)

English

Filter Settings	U	Device Model	IPv4 Address	MAC Address	Firmware Version	State	Progress
Q Name Filter		ICB-78M3611M0A	10.8.5.204	78:C2:C0:21:80:10	1.2.1.110		
Q IP Filter		IEB-74M2812MAA	10.8.5.252	00:07:D8:1A:8C:AB	2.7.8-H_6411_Release		
myWeb Browser		IED-63F0037P0A	10.8.5.240	00:07:D8:19:4F:C7	1.4.15-XE_release		
OS Default		IED-63M2812P0A	10.8.5.231	00:07:D8:19:6D:9F	1.6.3-XE_release		
Internet Explorer		IEP-63M2812M0A	10.8.5.189	00:07:D8:19:87:E4	2.7.2-XE_release		
Google Chrome		IER-38R320005A	10.8.5.192	00:07:D8:2F:DD:81	FW-IER-38R320005A_V1.03_200311123250		
Mozilla Firefox		IPB-72A0010M0A	10.8.8.105	AC:DE:48:05:05:1B	R1.07		
Export		IPB-73M2812M0A	10.8.8.102	78:C2:C0:20:10:13	R1.06		
Export Scan List [csv]		IPB-75M3610M0A	10.8.8.101	78:C2:C0:20:07:ED	R1.06		
		IPC-52A0030P0A	10.8.5.157	60:27:1C:02:03:61	2.7.2-X2_release		
		IPD-75M3610M0A	10.8.1.140	60:27:1C:01:0C:20	R1.07		
		IPD-78M3611M0A	10.8.0.39	78:C2:C0:21:7F:DD	1.2.1.110		
		IPP-62A0020M0B	10.8.5.194	00:07:D8:1B:85:AC	1.2.0-PTZ_H_5229_Release		
		IPP-83A0036MIA	10.8.5.187	60:27:1C:02:17:51	2.2.7-PTZ_H_6314_Release		
		MAM-6ME1012MTA	10.8.5.206	00:07:D8:2F:24:E6	FW-MAM-6ME1012MTA_V4.03_200304183...		
		MSR-24N040004A	10.8.5.166	60:27:1C:02:05:D1	FW-MSR-24N040004A_V1.00_200304184...		
		NXD-2012PTZ1080 B	10.8.5.163	00:07:D8:18:71:54	1.4.2-X2_release		
		RWU-XE2DIP2712M-IR	10.8.5.179	78:C2:C0:20:02:CA	R1.07		

24 Devices found.

Figure 24: View of the main window with opened additional menu (Tools).

4.1 IP- and Name-Filter

The IP filter or name filter can be activated or deactivated via the "Filter" menu item. When the filter is active, an input window appears in the main window under the control elements, in which the corresponding filter value can be set. The camera list only shows those cameras whose name or IP partly matches the specified filter value.

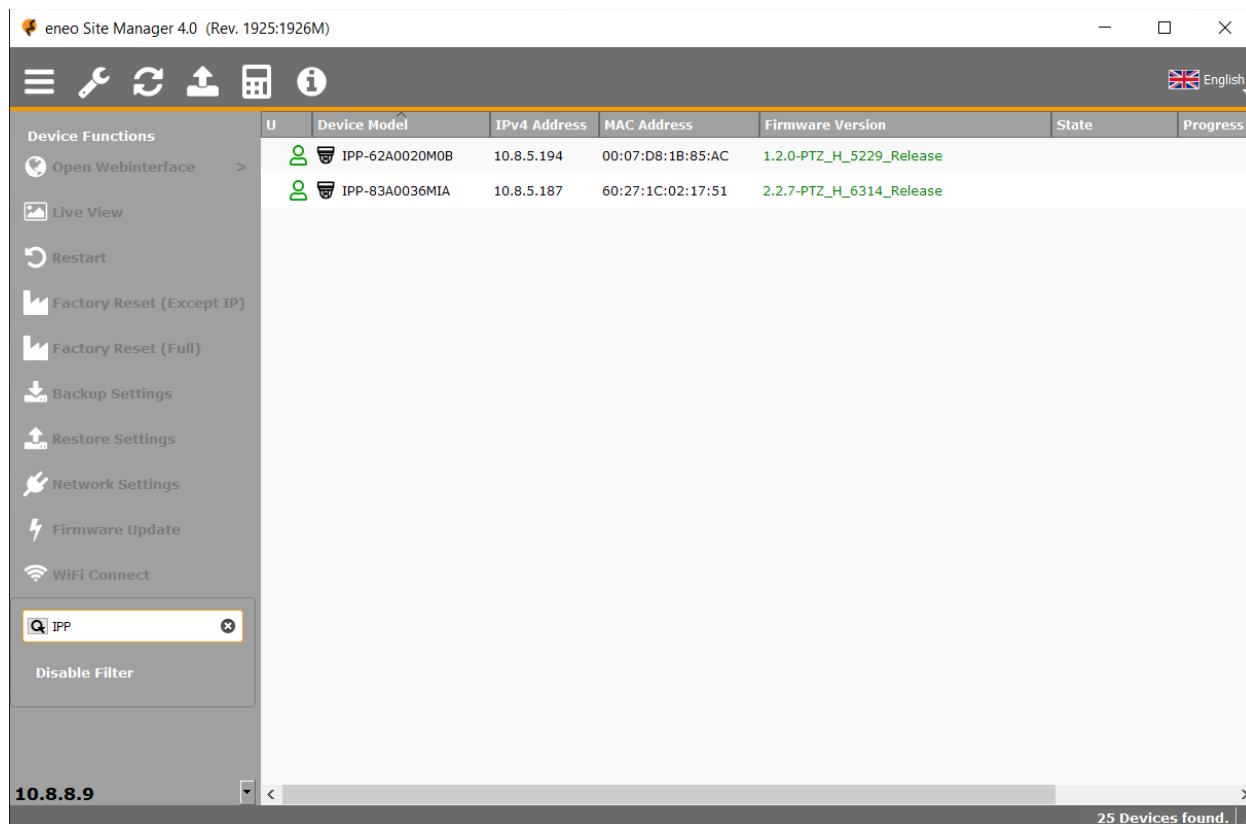


Figure 25: View of the main window with activated filter (device name).

4.2 Web Browser Selection

The entry "Web Browser Selection" offers the possibility to use different web browsers. The selected browser is the default browser for ESM. Only browsers that are installed on the system are displayed. Supported are:

- Internet Explorer
- Google Chrome
- Mozilla Firefox
- Apple Safari

If other web browsers are installed, they will not be available for selection.

4.3 Device State

Additional display elements and additional text information are available for various functions, such as FW Update, Backup-Camera Config and Restore-Camera Config.

4.4 Language

eneo Site Manager supports four languages: German, English, French and Italian. By default, the operating system language used is selected (Auto).



Figure 26: Language selection.

However, this can still be changed later. In the main bar of the program there is a button that opens a menu in which you can switch between the language settings.

4.6 Bandwidth Calculator

The bandwidth calculator is designed so that the user can plan data transfer rates and storage needs by configuring different camera models.

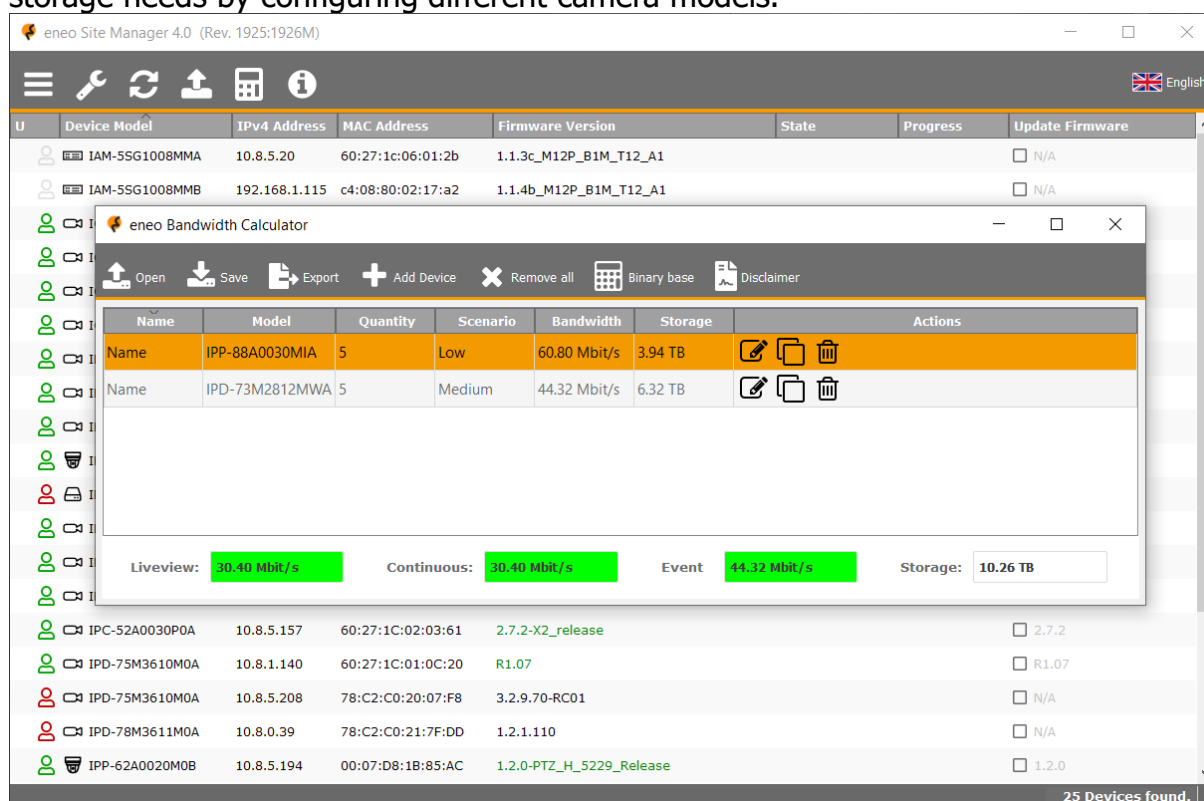


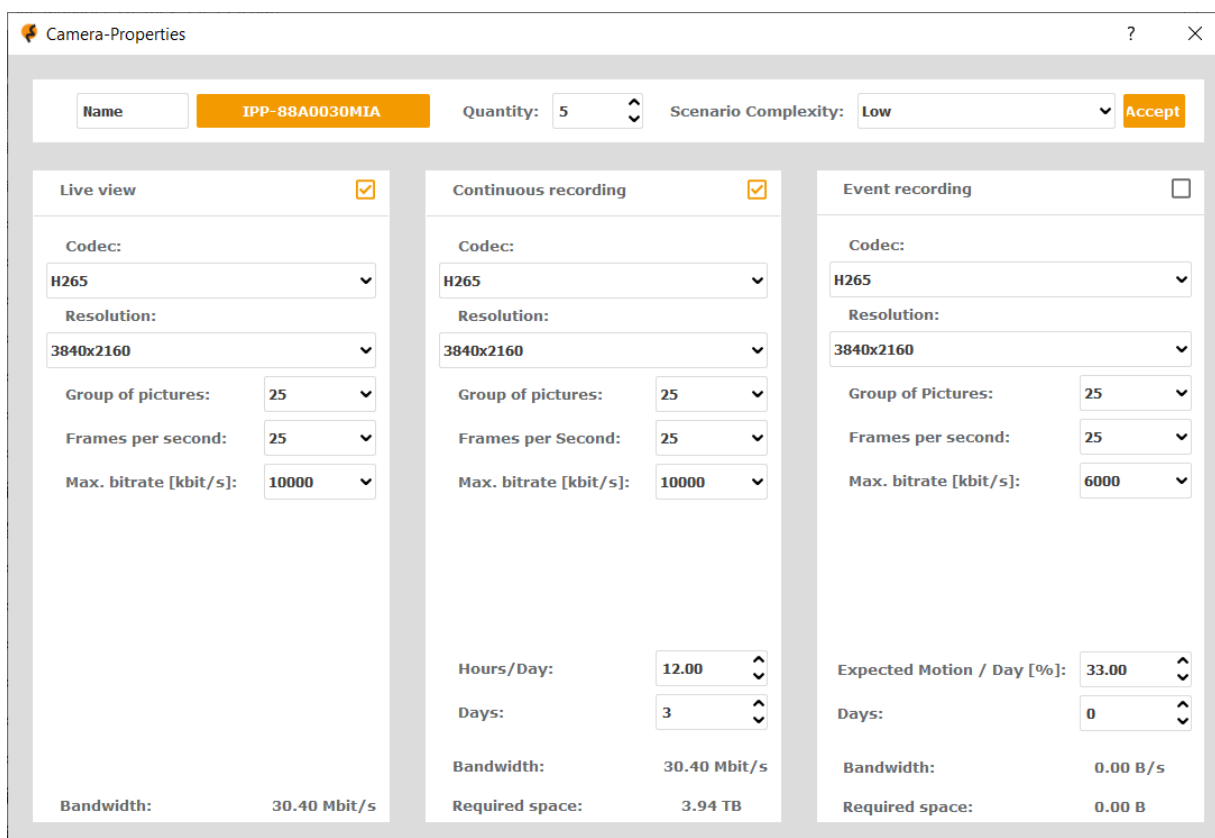
Figure 27: Main window of the bandwidth calculator.

By creating a list in the main window, which defines a model, the number of devices and a meaningful name for each list entry, you can define how to configure the cameras. For this purpose, you can choose between three different complexity scenarios: Low (e.g. a well-lit room with hardly any movement), Medium (e.g. a driveway in daylight), High (e.g. a lot of movement in poor light or extreme weather conditions).

A project is defined as a list of as many different entries as possible, which is determined by the user according to his wishes. In this way, an entry can consist of several identical cameras or each camera is assigned an entry with different settings. This is freely selectable.

4.6.1 Properties of a list entry

The properties of a list entry contain, besides a name, the model, the number and the scenario, three special columns: Live View, Continuous Recording and Event Recording. As explained in detail, these columns define the recording and stream settings.



The screenshot shows the 'Camera-Properties' dialog box with the following settings:

Property	Value
Name	IPP-88A0030MIA
Quantity	5
Scenario Complexity	Low
Accept	[Button]

Section	Property	Value
Live view <input checked="" type="checkbox"/>	Codec	H265
	Resolution	3840x2160
	Group of pictures	25
	Frames per second	25
	Max. bitrate [kbit/s]	10000
Continuous recording <input checked="" type="checkbox"/>	Codec	H265
	Resolution	3840x2160
	Group of pictures	25
	Frames per Second	25
	Max. bitrate [kbit/s]	10000
Event recording <input type="checkbox"/>	Codec	H265
	Resolution	3840x2160
	Group of Pictures	25
	Frames per second	25
	Max. bitrate [kbit/s]	6000
Summary	Bandwidth	30.40 Mbit/s
	Hours/Day	12.00
	Days	3
Summary	Bandwidth	0.00 B/s
	Expected Motion / Day [%]	33.00
	Days	0
Summary	Bandwidth	0.00 B/s
	Required space	3.94 TB

Figure 28: Edit window of an entry.

When choosing the model, the software directly recognizes the features and suggests

settings. The user can then adjust them. This is done by accessing measurement series that are regularly updated by our team.

4.6.2 Live-View

The Live View column shows the consumption during no recording takes place. This is pure monitoring of the current live stream. Only the current bandwidth is displayed.

4.6.3 Continuous Recording

In addition to taking bandwidth and retention time into account, this column calculates the amount of storage required in order to calculate the utilization of hard drives and SSDs.

4.6.4 Event Recording

This is the proportion of the recorded material estimated by the installer/user when an event, such as motion or object detection, occurs.

With an efficiently thought-out configuration, various parameters can be used to define a setting that allows a good compromise between detailed recording and bandwidth-saving options.

Typically, it is useful to set a low framerate for continuous recording and a high framerate for event recording. In this way, bandwidth is reduced and details are only resolved more precisely once an event occurs.

4.6.5 Toolbar

To handle the entries flexibly, the main toolbar offers a number of options, as follows:

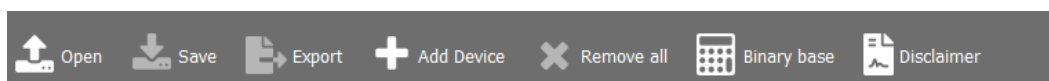


Figure 29: Bandwidth calculator toolbar.

In addition to opening and saving a project, the export function offers to export the project into a CSV file (Comma Separated Values). This file (with the calculation results) can be read and processed in a spreadsheet program like Microsoft Excel or LibreOffice Calc.

New devices are created with the "+" symbol (add Device). To remove all entries, simply click on the "x" (remove all).

The button of the "Calculator" (Binary Base) displays the calculated values in binary units. Formoredetailssee par. 4.6.7.

4.6.6 Toolbar of the List Entries

The entry can represent a personal scheme, a room or a simple camera configuration. If he/she uses different cameras for the same room, the user can create and configure an entry and finally clone it. The clones created are adapted to the real situation as desired and with little effort.




Main Street	IPP-88A0030MIA	5	Low	60.80 Mbit/s	6.57 TB	  
-------------	----------------	---	-----	--------------	---------	---

Figure 30: List entry with the three actions (from left to right): Edit, Clone and Delete.

4.6.7 Calculation Bar of the Main Window

The lower bar of the main window shows the totals of the bandwidth requirements of live image, continuous recording and event recording.

Liveview:	30.40 Mbit/s	Continuous:	30.40 Mbit/s	Event	0.00 B/s	Storage:	6.57 TB
-----------	--------------	-------------	--------------	-------	----------	----------	---------

Figure 31: Calculation bar for list entries.

The last entry represents the required total storage capacity of the monitoring system.

4.7 Info (About ESM)

The menu item "Info" opens an info window which shows name, version and copyright of the ESM. There is also a direct link to the VIDEOR and eneo web site.

The current version of the bandwidth database (basis for the bandwidth calculator) is displayed below this.

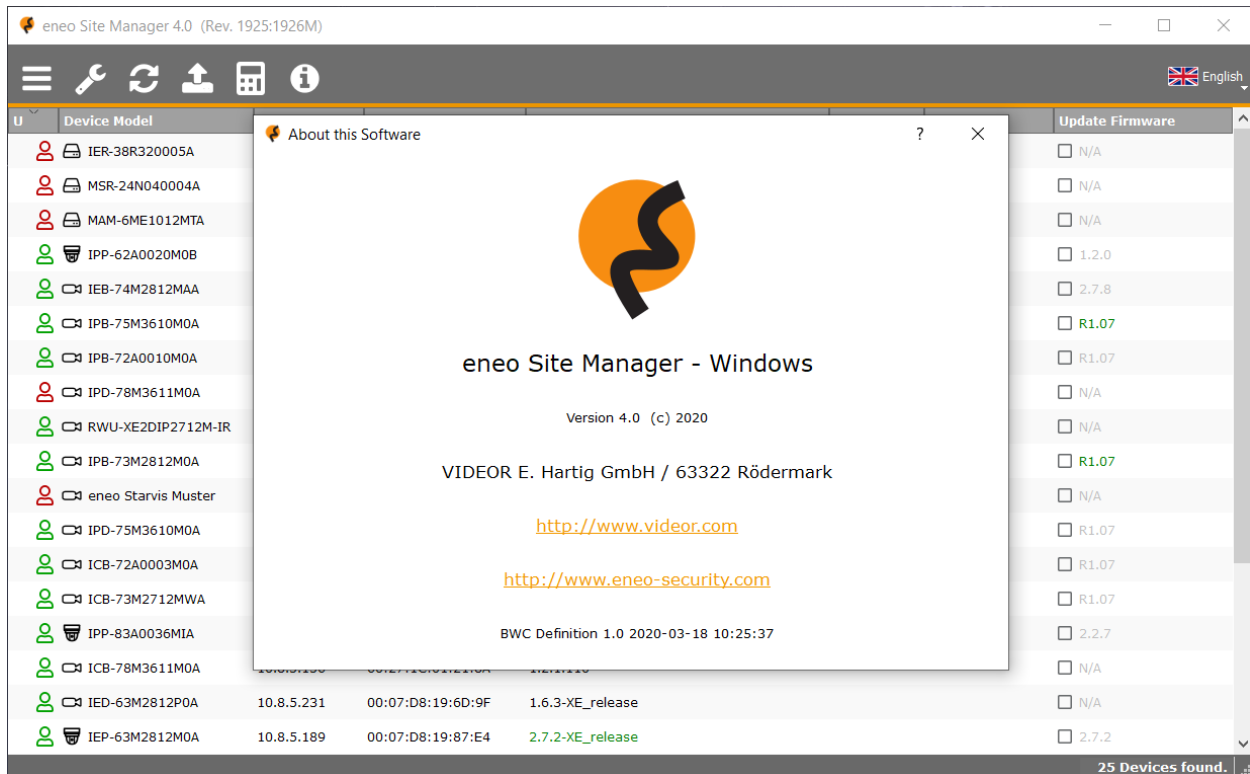


Figure 32: View of the main window with the Info Window open.

5 Shortkeys

Function	Shortkey
Close ESM	Ctrl-Q
Name-Filter	Alt-N
IP-Filter	Alt-I
Select all Items	Ctrl-A
Unselect all Items	Ctrl-X
Open Web Browser	Ctrl-W
Login Window	Ctrl-L
Manage User[s]	Ctrl-U
Get Picture	Ctrl-P
Set IP-Address	Ctrl-I
View Camera Config.	Ctrl-V
Restart Camera	Ctrl-R
Default[keep IP]	Ctrl-S
Default[hard]	Ctrl-H
Backup Cam. Settings	Ctrl-B
Restore Cam. Settings	Ctrl-T
Firmware Update	Ctrl-F

Table 1: ESM Shortkeys

6 Mobile Version for Android

The mobile version functionality of the ESM for Android is similar to that of the above described ESM desktop version. The program layout follows the desktop version.

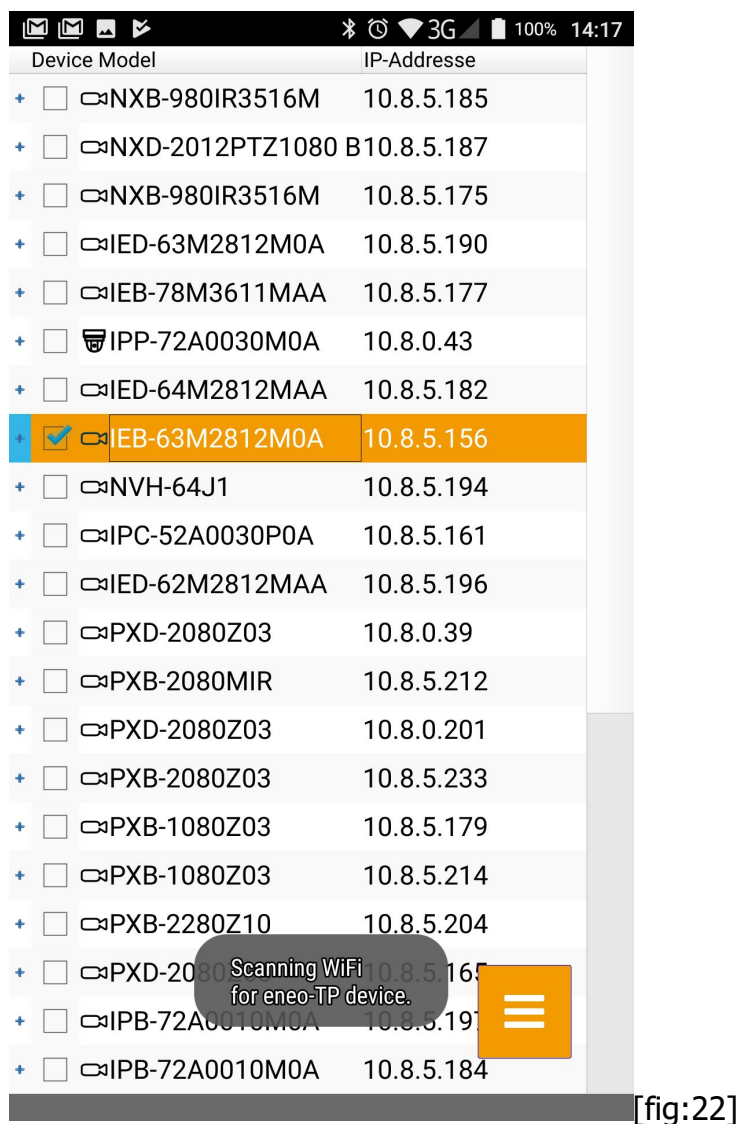
Following functions are supported:

- Start Discovery
- Open Web Browser
- Login
- Open Picture(s) 1 or 4 split view
- Restart Camera
- Default Settings [keep camera IP]
- Default Settings [restore camera default IP]

The unsupported functions are:

- Backup Camera Configuration to File
- Restore Camera Configuration from File
- Firmware Update der Kamera(s)
- Manage User(s)
- Shortkeys

6.1 Screenshots Android



Device Model	IP-Adresse
+ <input type="checkbox"/> NXB-980IR3516M	10.8.5.185
+ <input type="checkbox"/> NXD-2012PTZ1080 B	10.8.5.187
+ <input type="checkbox"/> NXB-980IR3516M	10.8.5.175
+ <input type="checkbox"/> IED-63M2812M0A	10.8.5.190
+ <input type="checkbox"/> IEB-78M3611MAA	10.8.5.177
+ <input type="checkbox"/> IPP-72A0030M0A	10.8.0.43
+ <input type="checkbox"/> IED-64M2812MAA	10.8.5.182
+ <input checked="" type="checkbox"/> IEB-63M2812M0A	10.8.5.156
+ <input type="checkbox"/> NVH-64J1	10.8.5.194
+ <input type="checkbox"/> IPC-52A0030P0A	10.8.5.161
+ <input type="checkbox"/> IED-62M2812MAA	10.8.5.196
+ <input type="checkbox"/> PXD-2080Z03	10.8.0.39
+ <input type="checkbox"/> PXB-2080MIR	10.8.5.212
+ <input type="checkbox"/> PXD-2080Z03	10.8.0.201
+ <input type="checkbox"/> PXB-2080Z03	10.8.5.233
+ <input type="checkbox"/> PXB-1080Z03	10.8.5.179
+ <input type="checkbox"/> PXB-1080Z03	10.8.5.214
+ <input type="checkbox"/> PXB-2280Z10	10.8.5.204
+ <input type="checkbox"/> PXD-2080Z03	10.8.5.165
+ <input type="checkbox"/> IPB-72A0010M0A	10.8.5.191
+ <input type="checkbox"/> IPB-72A0010M0A	10.8.5.184

Figure 33. View of the Camera List window.

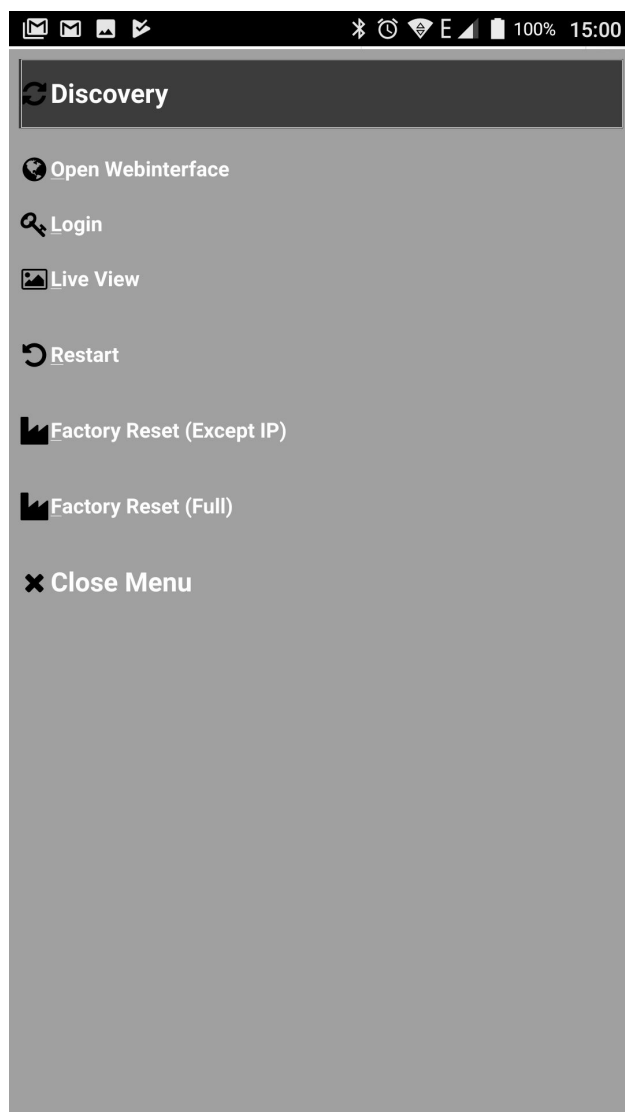


Figure 34: View of the main window with menu displayed.

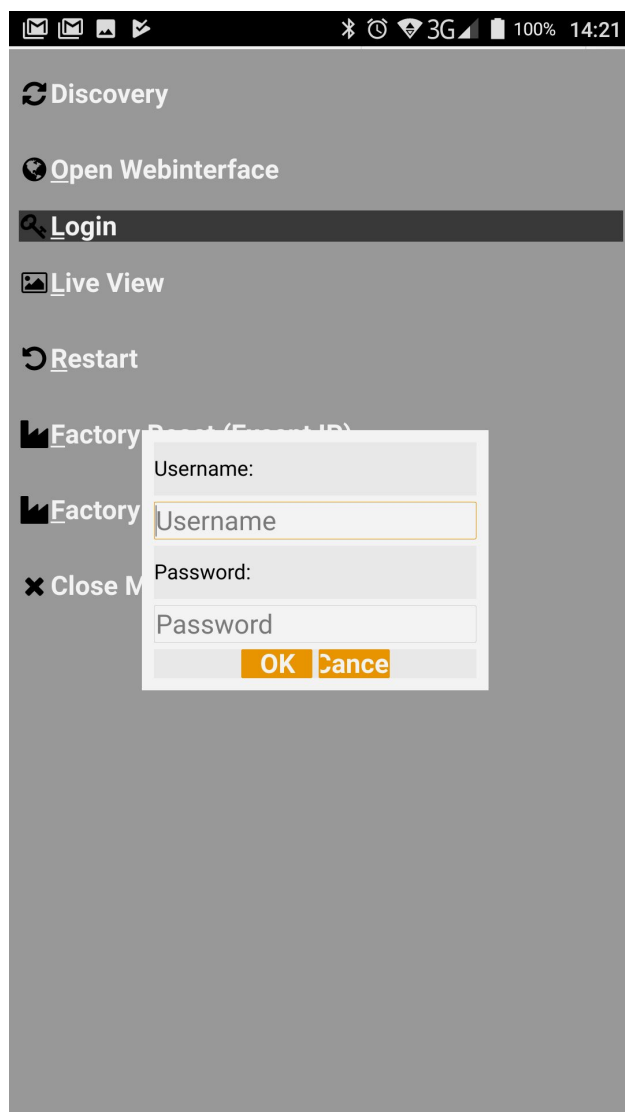


Figure 35: View of the main window with open web browser and camera login Dialog.



Figure 36: View of the main window with open web browser and camera live image
(Single)



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