



BLUEPIRAT

BY MAGNA



BLUEPIRAT Series Camera User Guide / 30.09.2020

Version 5.0.1

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1 LICENSE AGREEMENT

Please read the license agreement of this license contract carefully, before you install the software. By the installation of the software you agree to the conditions of this license contract.

This software-license agreement, in the following called "license", contains all rights and restrictions for final users that regulate the use of the accompanying software, operating instructions and other documents, in the following called as "software".

1. This license contract is an agreement between licensor and licensee, who is being licensed to use the named software.
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6. Licensor is not liable to licensee for any damages, including compensatory, special, incidental, exemplary, punitive or consequential damages, connected with or resulting from this license agreement or licensee's use of this software.
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8. Licensor has the right to terminate this license agreement and licensee's right to use this software upon any material breach by licensee. The duration of the license contract is indefinitely determined.
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12. If a regulation of this license contract is void by law, the validity of the remaining regulations is not affected. If there is such a regulation it will be replaced by a valid, according to the legal regulations and enforceable regulation with similar intention and similar economic consequence.
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15. The licensee is liable for all damages caused to the licensor by the violation of these license regulations.

2 PRODUCT LIABILITY

2.1 Terms and Conditions of Sale and Delivery

The General Terms and Conditions of Sale and Delivery of MAGNA Telemotive GmbH can be found on our website (<https://telemotive.magna.com>) under imprint.

2.2 Important operating instructions

Please note these important instructions about the handling of devices of MAGNA Telemotive GmbH!

There's a linux system running on the devices and sometimes when the device has a dirty shutdown due to a power break down or unplugging the power supply, the system is corrupt from this time. You know this situation from a PC, when you switch it off some times it maybe will not work any more or show you some mistakes.

In most cases this issue is catched up and repaired by the linux system we use, but sometimes it can happen that the system on the logger is damaged and there's no access to the device any more.

We are optimizing the handling of corrupted systems permanently and are integrating some new enhancements regarding this kind of issues with every new release to save the system. But we can't make the system for 100% save against these influences.

So please use always the provided mechanism for shutting down the device or the implemented standby function in which the device shutting down when no traffic is detected any more in an adjustable time.

3 Overview

This user guide describes the installation and usage of a system for video recording. It consists of one network camera AXIS P12-series / F-series / 211 / 210 / 207 or a Video Encoder AXIS Q7404 / P7214 with analog cameras and a one of the data logger

- BLUEPIRAT Rapid
- BLUEPIRAT Mini
- BLUEPIRAT2 5E
- BLUEPIRAT2
- BLUEPIRAT Remote

of MAGNA Telemotive GmbH. The Video Encoders are used to connect analog cameras (NTSC/PAL). The network cameras can be connected directly to the data logger.

The system allows the recording of up to four different video streams at the same time. For that the server (or a network camera) and the data logger must be connected to each other and configured separately by a HTML-based client.

The video streams are recorded in real-time and in a specified time interval in the logger. They can be downloaded into a control unit for offline use. They can also be converted to a video file and transferred from the logger into a computer. The video block length can be adjusted to 15 up to 60 seconds and the videos are stored in the mpeg4 format.

Attention:

The Video Encoder and the cameras are not set by default to standby mode, which may be a reason for an empty battery.

After rebooting the system takes approximately 120 seconds to be synchronized. The recording starts immediately after the synchronization.

If the Ethernet cable was removed between the Video Encoder / camera and the data logger and plugged in again, the system takes around 11 seconds for the resynchronization.

If the supply voltage is removed from the Video Encoder / camera during the recording, it takes about 120 seconds to be synchronized (after a reconnection).

AXIS camera and Video Encoder should be operating within the AXIS specification. This is especially required for power and environmental parameters.

This user guide describes the configuration and usage of this feature. The general configuration is described in the user guides of the used data logger as well as the System Client, which is valid together.

This document refers to **firmware version 05.00.01** and the **System Client** from **version 5.0.1**. Some features depending on model and feature license or may not be available in older versions.

Software updates and user guides for other, optional, licensed enhancements are available in our Service Center. (Please find the address under Contact at the last page.)

To ensure the most reliable operation of your system as possible, please make sure to use always current firmware and software versions.

4 System requirements

Network camera AXIS P12 / F44 / F41 / 211 / 210 / 207

Network cameras have an Ethernet port and therefore can be connected directly to the data logger. Up to four cameras are supported to record the video streams. These cameras can be connected to the four channels of the encoder. The following AXIS camera types are supported: P12, F44, F41, 211, 210 and 207.

AXIS Q7404 / P7214 Video Encoder

The AXIS Video Encoder is a high performance, four-channel standalone device that integrates up to four analog cameras (NTSC/PAL) at a time into an IP-based video surveillance system. Video Encoder and camera are connected via BNC connector.

Both Video Encoders support the compression formats H.264, MJPEG and MPEG-4. Therefore they are capable to reduce bandwidth and storage requirements without compromising image quality.

The AXIS Q7404 Video Encoder contains four separate video channels, one for each video input. Each channel has its own IP address.

The AXIS P7214 Video Encoder uses only one IP address for all four channels.

The communication between bus systems and control units is monitored, and relevant data can be recorded very precisely with the data logger. The collected data are stored to the logger and can be downloaded via Ethernet to a PC.

Control Unit

You need a Windows based Laptop or PC to configure the devices by the **System Client**. It also allows to save the recorded data and to use them offline later.

System Client

Update, configure and read out your data loggers with System Client. Save time with central administration of your software products. System Client is your key to success for using all our products!

BLUEPIRAT Rapid

High-performance multi-bus data logger for modern vehicle architectures based on Automotive Ethernet. With up to 3 TB internal memory and supreme recording performance. Robust and compact for in-vehicle use.

Due to the increasing complexity of driver assistance systems and the growing number of infotainment applications, the data traffic between ECUs in the most recent vehicle models has grown significantly. Consequently, besides the various classic bus systems, modern vehicle architectures are based on Automotive Ethernet according to BroadR-Reach / IEEE 802.3 100(0)Base-T1, which can keep up with the growing bandwidth demand.

Power Backup

The **Power Backup** is a special component, which is designed to bridge short voltage interruptions. It is connected upstream of the data loggers on the voltage side, and must be connected to them via a dedicated LS CAN port for controlling.

BLUEPIRAT Mini

The **BLUEPIRAT Mini** is smallest data logger in the world with an outstanding functional scope. It offers a wide range of interfaces, stable temperature behavior, very low energy consumption,

four GBit Ethernet ports, and much more. Different blue PiraT Mini can be expanded flexibly to one cluster and therefore handled very easily by using [System Link](#).

BLUEPIRAT2

The **BLUEPIRAT2** is our top-class all-in-one data logger. Seven models cover a wide range of interfaces. (Device is EOL)

BLUEPIRAT2 5E

Additionally, the **BLUEPIRAT2 5E** offers improved power management and power backup, five integrated Ethernet ports and super-fast start-up behavior. The BLUEPIRAT2 can be expanded flexibly via [System Link](#). (Device is EOL)

Remote Control Touch (optional)

Operate your BLUEPIRAT data loggers safely and comfortably from the driver's or passenger seat. Via System Link our new remote control becomes part of your logger network. One remote control can handle all connected loggers.

BLUEPIRAT Remote (optional)

While Remote Control Touch is just a control unit for handling unique devices or a TSL network, the blue PiraT Remote additional has logger functionality by offering internal storage and some interfaces. (Device is EOL)

License

For the additional feature **Camera Link**, an installed license is required. Settings for licensed features can be performed with a valid license only.

If you need a license for your logger, please contact our sales department (please find the address under contact at the last page).

4.1 Accessing a connected camera / camera server

If the camera / camera server is connected to a data logger and has to be modified, it can be reached by the IP address of the logger and **port 11400**.

To access the configuration just put the IP address and port into your browser, e.g.:
192.168.0.233:11400

If there are more cameras / camera server connected, they can be reached by the ports 11401, 11402, 11403.

4.2 Further manuals

Beside this user Manual, we offer the main manuals for our System Client as well as for the different data logger generations in our Service Center at

<https://sc.telemotive.de/bluepirat>.

Our licensed enhancements have own manuals which are stored in the Service Center too. You will find a list of these enhancements in the user manuals in the chapter **Additional features by optional licenses**.

Under the following links, you always will find the latest versions:

User manual for the System Client

https://sc.telemotive.de/4/uploads/media/SystemClient_UserManual.pdf

User manual for BLUEPIRAT Rapid

https://sc.telemotive.de/4/uploads/media/BLUEPIRAT_Rapid_UserManual.pdf

User manual for BLUEPIRAT Mini

https://sc.telemotive.de/4/uploads/media/BLUEPIRAT_Mini_UserManual.pdf

User manual for Remote Control Touch

https://sc.telemotive.de/4/uploads/media/RCTouch_UserGuide.pdf

User manual for BLUEPIRAT Power Backup

https://sc.telemotive.de/4/uploads/media/BLUEPIRAT_Power_Backup_UserManual.pdf

User manual for BLUEPIRAT2 / BLUEPIRAT2 5E

https://sc.telemotive.de/4/uploads/media/BLUEPIRAT2_UserManual.pdf

User manual for BLUEPIRAT Remote

https://sc.telemotive.de/4/uploads/media/BLUEPIRAT_Remote_UserGuide.pdf

For having an easy access if necessary, the most important manuals are linked in the client under the menu item [Help] and are reachable easily from there.

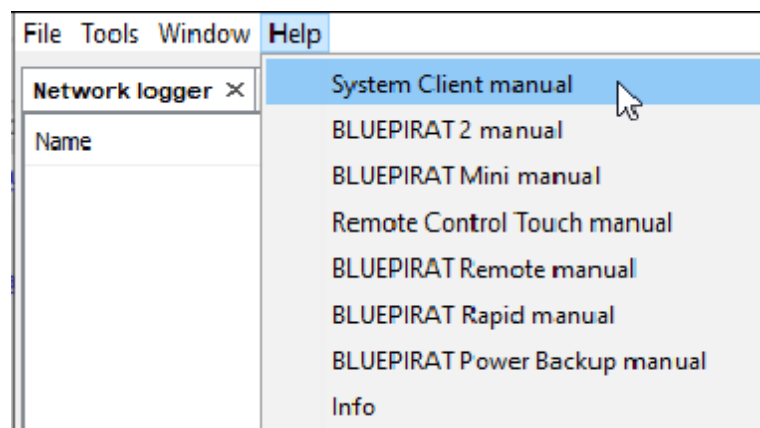


Figure 4.1: links to the manuals in the System Client

4.3 Additional features by optional licenses

Additional features can be activated by purchasing and installing licenses. Licenses can be ordered at our sales team. You find the user guides for these additional features in our Service Center. Currently the following licensed features are available.

Feature	Description
Camera Link	video recording via video server or network cameras Till now, only some cameras from AXIS were supported
WLAN	supporting wireless LAN / WiFi (802.11, 802.11a, 802.11n), (802.11ac from FW 02.04.01)
GPS logging	tracking of GPS data
Measurements with CCP	CAN Calibration Protocol
Measurements with XCP	Universal Measurement and Calibration Protocol Currently the functionality for Ethernet (XCP on Ethernet) and the CAN-bus (XCP on CAN) are available.
MOST150 Streaming	logging MOST150 synchronous/isochronous data
MLBevo / QXDM	The license Connected-Gateway MLBevo enables the recording of data of the ATOP control unit MLBevo via USB to the Magna Telemotive data logger and convert these data with the System Client. (from FW 02.03.01) Additional this license allows to log Qualcomm QXDM logs via USB (from FW 03.06.XX)
Download Terminal	The in the System Client integrated Download Terminal allows an automatization of configured tasks for a defined group of devices. (from FW 02.03.01)
Test automation	Interface for connecting to test automation tools. At the moment, the sending of CAN messages is supported. (from FW 02.04.01)
Cellular network	Allows the logger to send status messages over cellular network. (from FW 03.01.01)
Firmware Care	As part of the " Service Product Firmware Care ", new software and firmware versions are made available for download for a limited period of time. This service is available for 12 months from the date of purchasing the BLUEPIRAT . This period can be extended by licenses.

Table 4.1: Additional features by optional licenses

4.4 Firmware Care

MAGNA Telemotive GmbH invests a great amount in the further development of its products.

For this we regularly provide new functions and enhancements via firmware and client releases.

Basic conditions

As part of the " Service Product Firmware Care ", new software and firmware versions are made available for download for a limited period of time. This service is available for 12 months from the date of purchasing the **BLUEPIRAT**. This period can be extended.

For details, please contact your sales partner (see contact at the end of the manual for addresses).

Affected products

- **BLUEPIRAT Rapid**
- **BLUEPIRAT Mini**
- **Remote Control Touch**
- **BLUEPIRAT2 5E**
- **BLUEPIRAT2**
- **BLUEPIRAT Remote**

Note:

Enhancements are only possible in current firmware releases.

Attention:

Please note that updates to main firmware versions (05.00.01 / 06.00.01) need a special update license and can't be flashed to a device without this license.

To buy these licenses please contact our sales department under TMO.Sales@magna.com (please find the complete address under Contact on the last page).

5 Configuring the network camera AXIS F54

More information about AXIS FA54 Main Unit you can also be found at:

<https://www.axis.com/de-de/products/online-manual/32947>

The following settings were made with AXIS firmware 10.0.2.

5.1 Connecting the network camera AXIS F54

Connect the camera with the associated main unit. Connect the power supply to the main unit. Connect your PC or laptop via Ethernet cable to the main unit. Turn on PC / Laptop supply. All three LEDs should light green after about 60 seconds.



Figure 5.1 Connecting the network camera with a PC/ laptop

Change your PC's IP configuration. Use static IP address with the following settings:

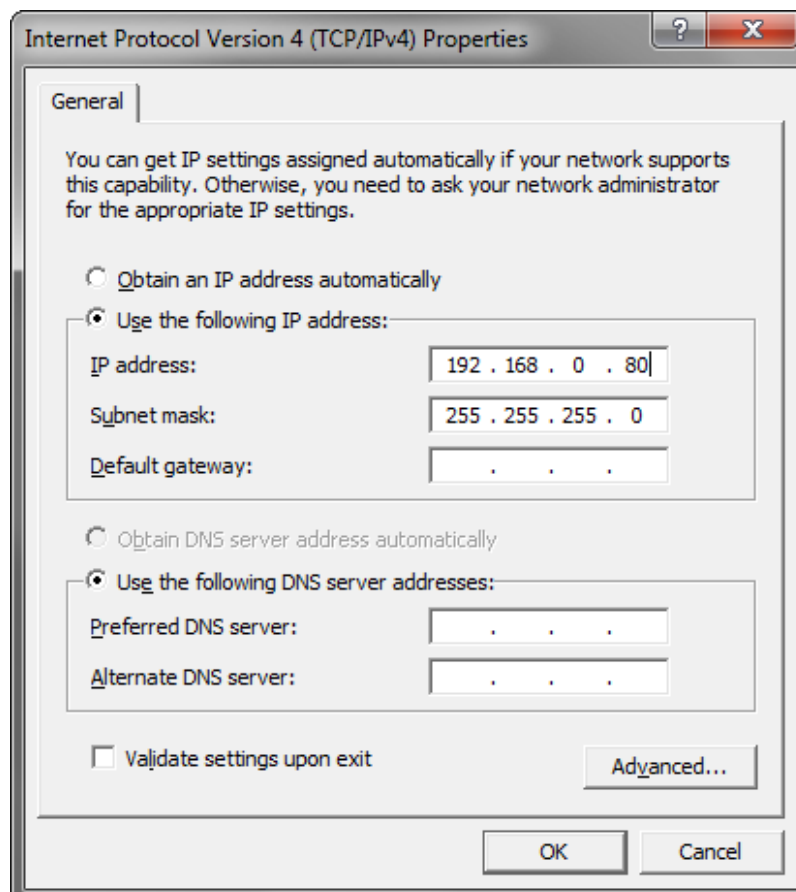
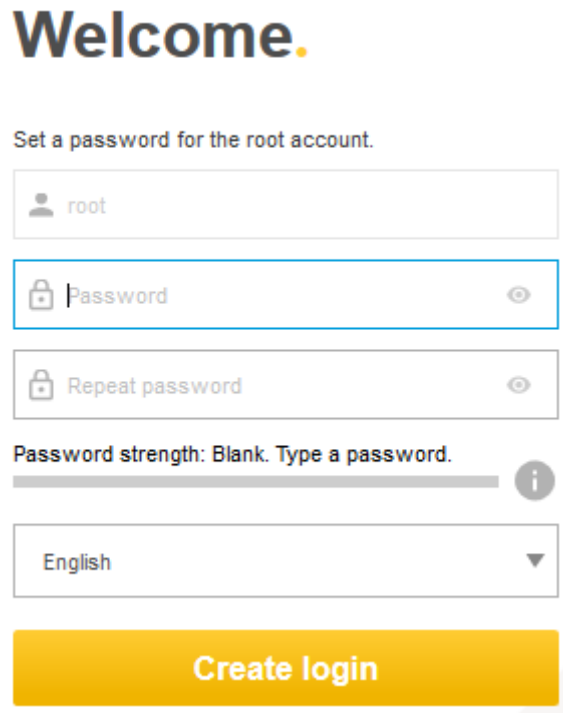


Figure 5.2 Setting a static IP address

5.2 Access to the network camera AXIS FA54

Open your Internet browser and enter the network camera's default IP address: 192.168.0.90. Please refer to the instructions from AXIS regarding browser support: <https://www.axis.com/support/technical-notes/browser-support>
The latest versions of Chrome and Firefox are recommended.



Welcome.

Set a password for the root account.

root

Password

Repeat password

Password strength: Blank. Type a password.

English

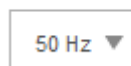
Create login

Figure 5.3 Initial login mask

Choose your password and type it in. This password will be needed later. If the system asks for a further authentication, please type in the same password like before.

Thereafter you have to set the capture mode and the power line frequency of the power supply. In Europe 50 Hz is common.

Select your power line frequency



50 Hz ▼

Figure 5.4 Select power line frequency

Set IP address to **192.168.1.90** and set date and time manually

Get started

The screenshot shows a network configuration interface with two main sections: IPv4 and Date and time.

IPv4 Section:

- Method: Manual IP and manual DNS (selected in a dropdown menu)
- IP address: 192.168.1.90
- Subnet mask: 255.255.255.0
- Default router: 192.168.0.1
- Domain name: Domain name (with a plus icon below)
- Primary DNS server: 0.0.0.0
- Secondary DNS server: 0.0.0.0

Date and time Section:

- Automatic date and time: Disabled (toggle switch)
- Date and time: Year (2020), Month (08), Day (07), Hour (4), Min (23), PM
- Time zone: Europe/Berlin (selected in a dropdown menu)
- Connect to NTP-server:
 - Automatically (DHCP) (selected with a radio button)
 - Manually (radio button)

Figure 5.5 Defining the IP address and setting the date and time

Comment:

The time set here is initially only a temporary adjustment. In our system the data logger is the time master and overwrites the logger time after successfully synchronizing with the video server.

Attention:

Before you start recording always set the date and time in the data logger first. It is impossible to change the timestamp at recorded video data. This means, the setup of a new logger time before downloading does not change the time within the video pictures. In this case, the timestamps of the other channels and the video picture timestamp could not match.

Click on [next].



Hint:

If you change the IP address, you will lose the connection to the network camera.

To connect to the Main Unit again, change the IP address to **192.168.1.80** in the [Internet Protocol Version 4 (TCP/IPv4) Properties] window of your computer.

5.3 Creating the „admin“ user

Now enter the IP address 192.168.1.90 in the browser:

Enter the user name root and the password you entered before.

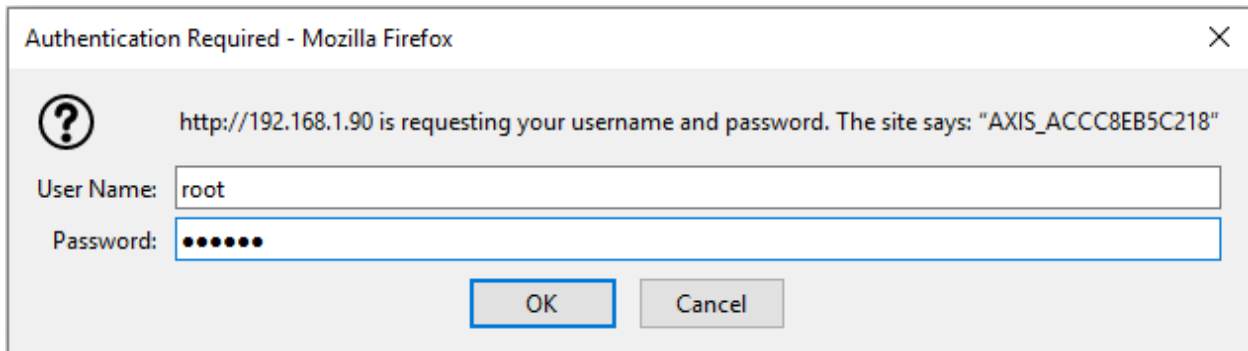
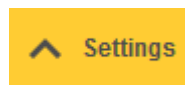


Figure 5.6 Login to the Main Unit after changing the IP address

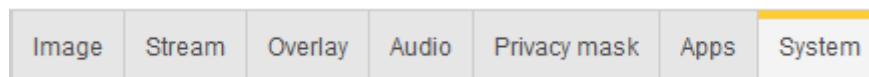
Click on the [Done] button at the bottom right



Then the [Settings] button will also appear in the bottom right-hand corner, please click on it:



In the window that opens, click on the [System] tab.



Here on [Users]:

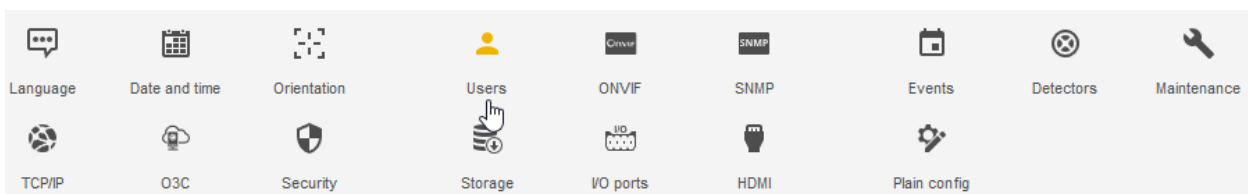


Figure 5.7 Select the Users menu

There you create a new user "Admin" in the role of the administrator by clicking on the "+" sign.

Important!

Please enter as password **2x8bg4**

Username	admin
Password	2x8bg4

Users

root
Administrator

New

Username
admin

New password
.....

Repeat password
.....|

Password strength: Weak

Role
Administrator

Cancel Save

Figure 5.8 Create new user Admin

After entering the password click on [Save].

Now two users root and Admin should appear in the user menu.

Users

root
Administrator

admin
Administrator

Figure 5.9 Created users

In the Anonymous Users field, move the slider to the right to allow anonymous users.

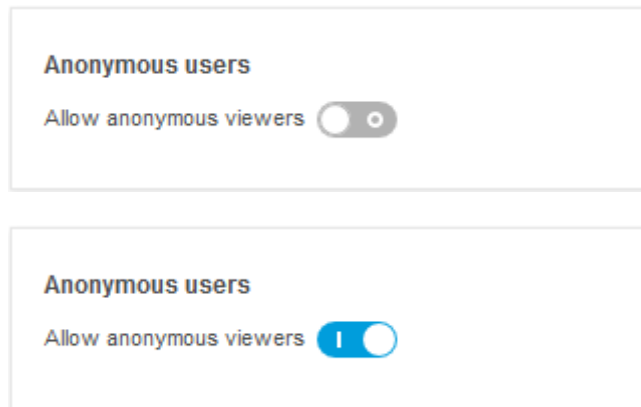


Figure 5.10 Anonymous Users field

and confirm the note by clicking the [Yes] button.

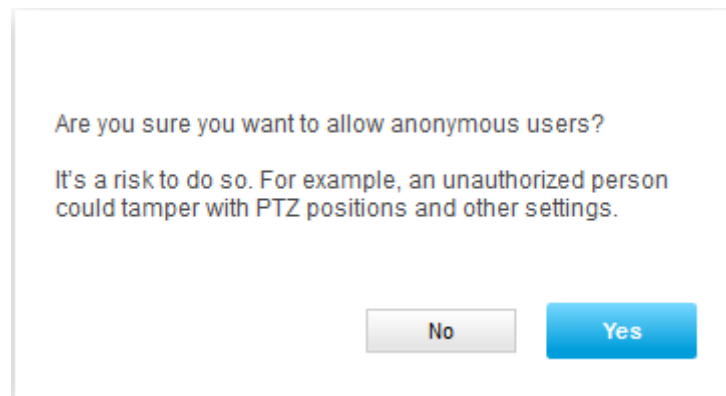


Figure 5.11 Note Allow anonymous users

5.4 Further system settings

5.4.1 RTSP (Real-Time Streaming Protocol)

Please check that the following setting is set:

On the System tab, click on [Plain config].

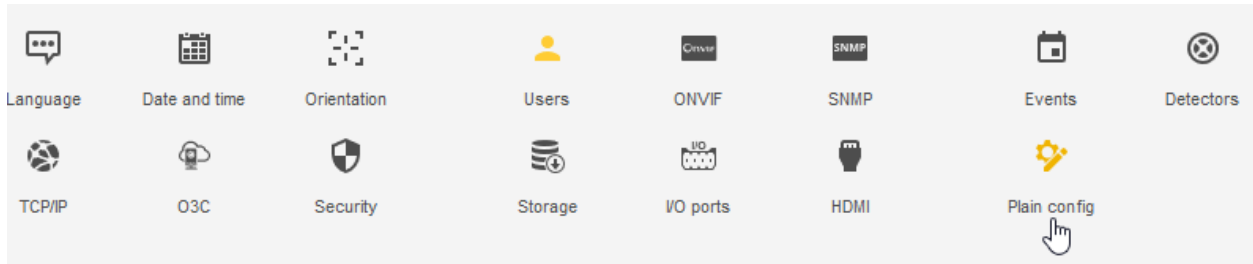


Figure 5.12 Selection menu

Click on the [Got it] button in the message that now appears

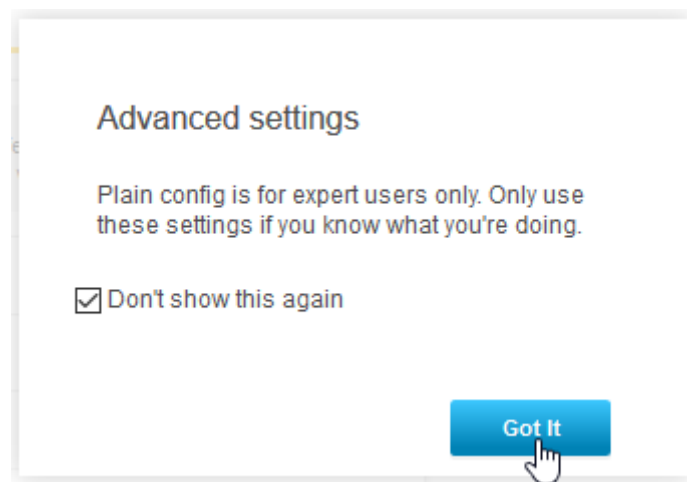


Figure 5.13 Confirmation query Advanced settings

To check whether the correct settings are set, scroll down in the offered selection menu "Plain-config" and click in the line [Network]

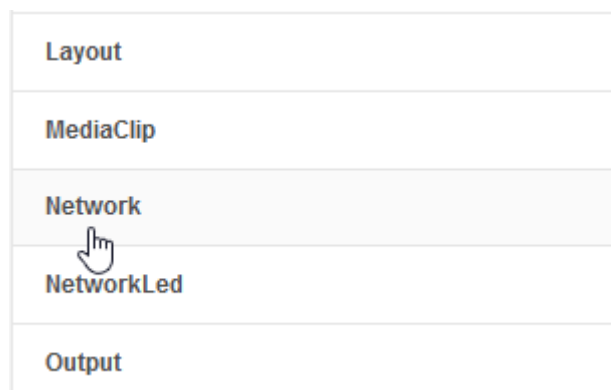


Figure 5.14 Selection menu Simple Config

In the opened window scroll down almost completely to RTSP. The following settings should be made there:

RTSP

Allow client transport settings

AuthenticateOverHTTP - has no effect

Authenticate RTSP over HTTP

Enabled

Port

Allow anonymous viewers

Timeout

[0..]

Figure 5.15 RTSP Menu

5.4.2 Displaying the date and time in the video image

These settings must be made individually for each camera.

To select a camera, click on the corresponding camera in the Start menu screen.

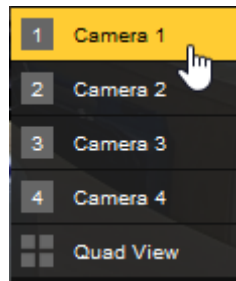


Figure 5.16 Camera selection Menu

Go to the [Overlay] tab

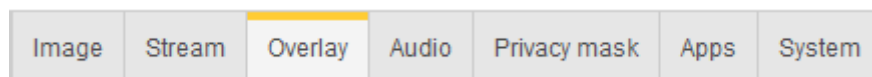


Figure 5.17 Settings menu

Click on [Create overlay]

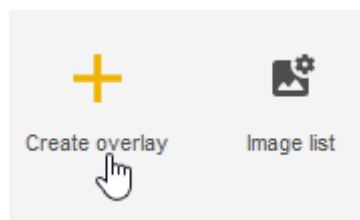


Figure 5.18 Select Create Overlay

Select [Create] from the Create Overlay menu

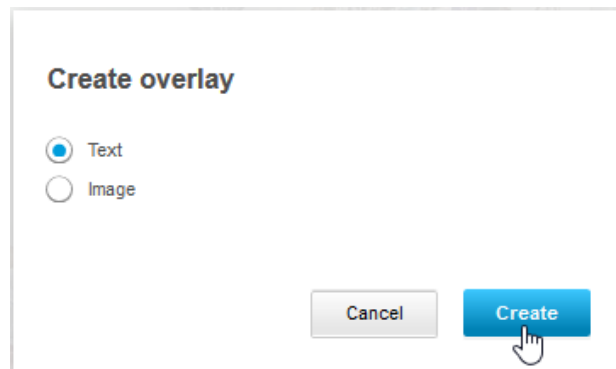


Figure 5.19 Menu Overlay

Click on the date and time to display them in the image.

You can also set the desired formatting here.

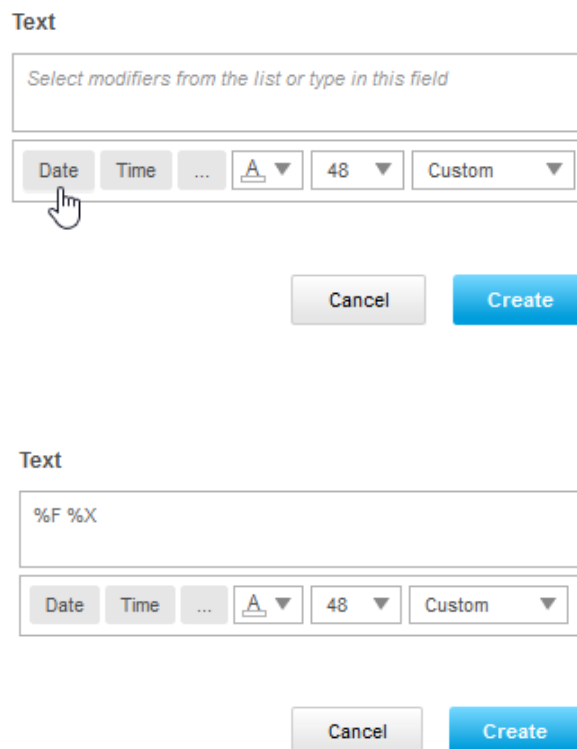


Figure 5.20 Text input in the Overlay menu

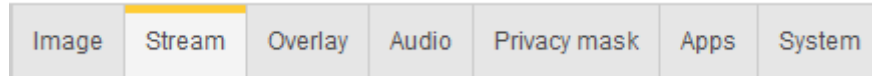
Finally click on the button [Create].

Attention:

Before you start recording always set the date and time in the data logger first. It is impossible to change the timestamp at recorded video data. This means, the setup of a new logger time before downloading does not change the time within the video pictures. In this case, the timestamps of the other channels and the video picture timestamp could not match.

5.4.3 Stream settings

Click on the [stream] tab.



The following settings can be made here:

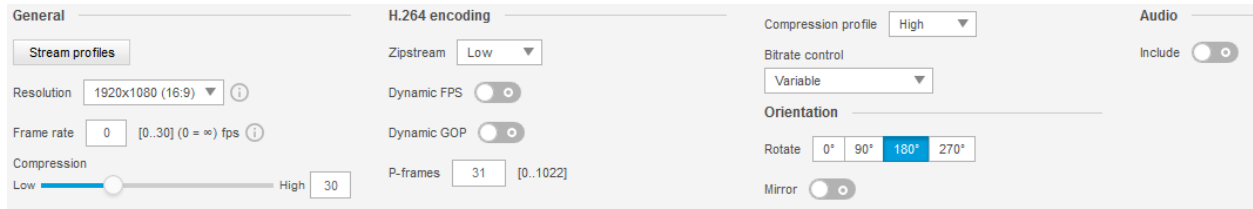


Figure 5.21 Stream settings

Note:

In case that the video is stuttering or has breaks, please reduce the preset <Maximum frame rate>. Reducing to 15 or 20 fps eliminates the problem which is caused by too high frame rates especially with HD cameras.



Figure 5.22 Frame rate settings

Up to two microphones can be connected to the Main Unit. To include an audio recording in the video stream, click the [Include Audio] slider and select the desired audio input:

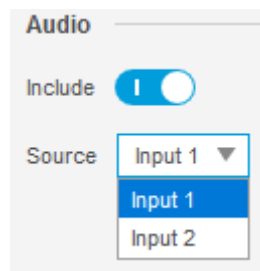
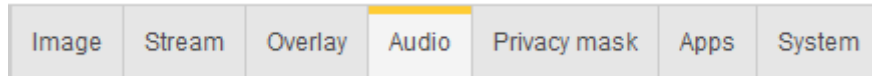


Figure 5.23 Include audio in the video stream

5.4.4 Audio setting

To enable audio, select the [Audio] tab.



Make the desired settings here.

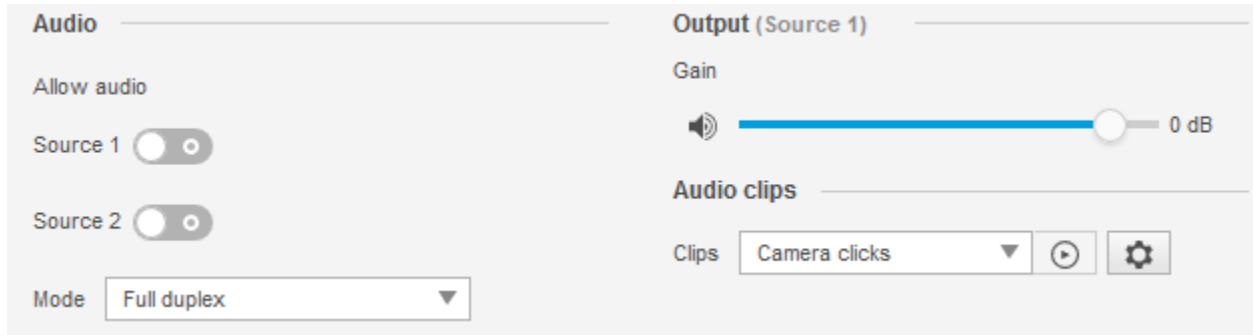


Figure 5.24 Audio settings menu

Further settings can be made by selecting the audio source.

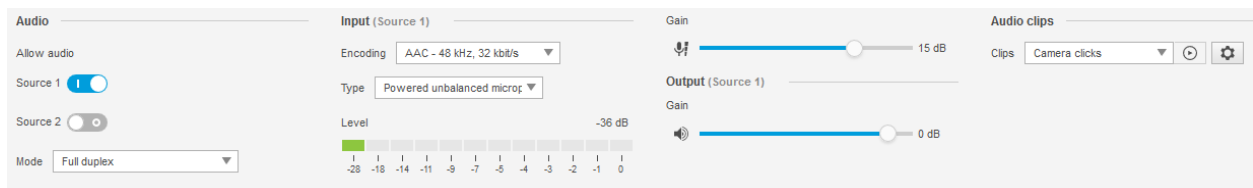


Figure 5.25 Further audio source settings

The audio quality can still be adjusted with the [Encoding] settings

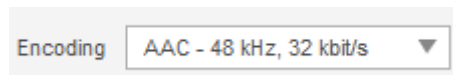


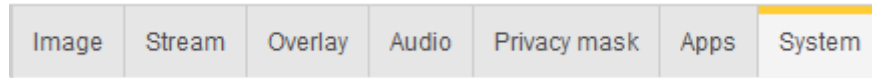
Figure 5.26 Setting the audio quality

Hint:

When you have made all settings, please set the IP settings of your PC or laptop back to dynamic IP address.

5.5 System Maintenance

For system maintenance please click on the menu item [System].



Click on the [Maintenance] icon there

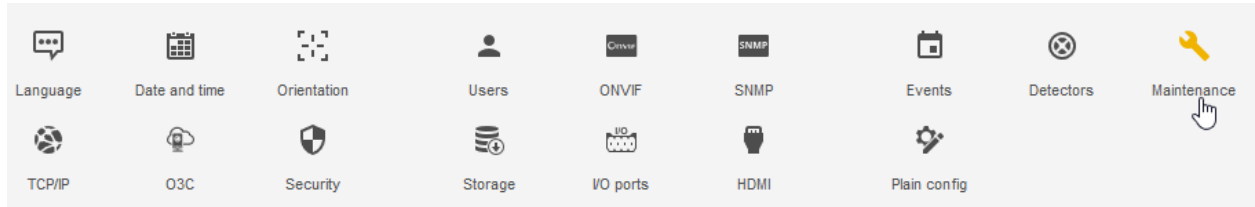


Figure 5.27 System menu

Various system tasks can be performed in the System / Maintenance menu, including resetting to factory settings and an update or downgrade of the firmware.

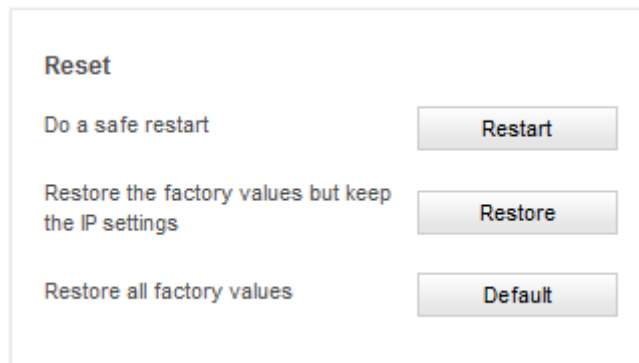


Figure 5.28 Reset to factory settings

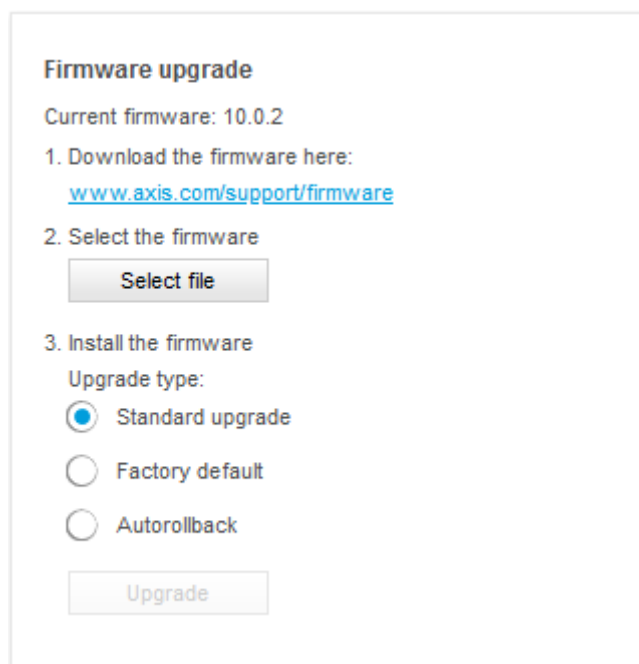


Figure 5.29 Firmware upgrade

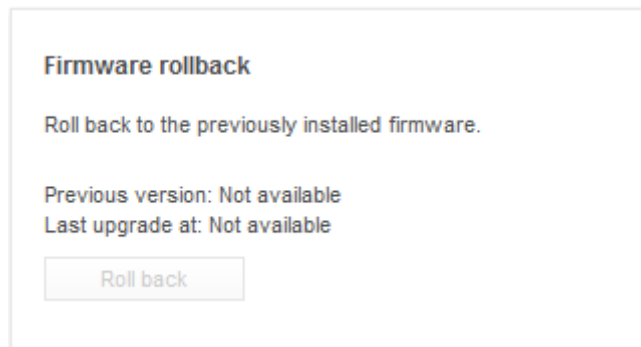


Figure 5.30 Firmware rollback

5.6 Reset to factory settings

In addition to the procedure described above, you can also reset the Main Unit to the factory settings as follows:

1. Disconnect power from the product.
2. Hold down the control button between the two SD card slots on the right side and
3. Reconnect the power supply.
4. Keep the control button pressed for 15–30 seconds until the status LED indicator flashes amber.
5. Release the control button.
6. The process is complete when the status LED indicator turns green. The product has been reset to the factory default settings.

6 Configuring the network camera AXIS F41/F44

6.1 Connecting the network camera AXIS F41/F44

Connect the camera with the associated main unit. Connect the power supply to the main unit. Connect your PC or laptop via Ethernet cable to the main unit. Turn on the power supply. All LEDs should light green after about 60 seconds.

Network camera AXIS F41

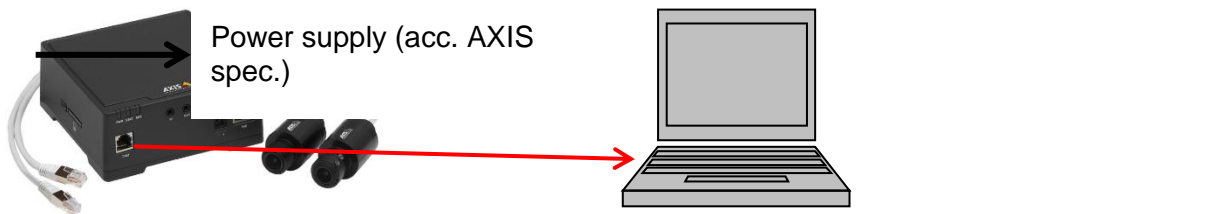


Figure 6.1: Connecting the network camera with a PC/ laptop

Change your PC's IP configuration. Use static IP address with the following settings:

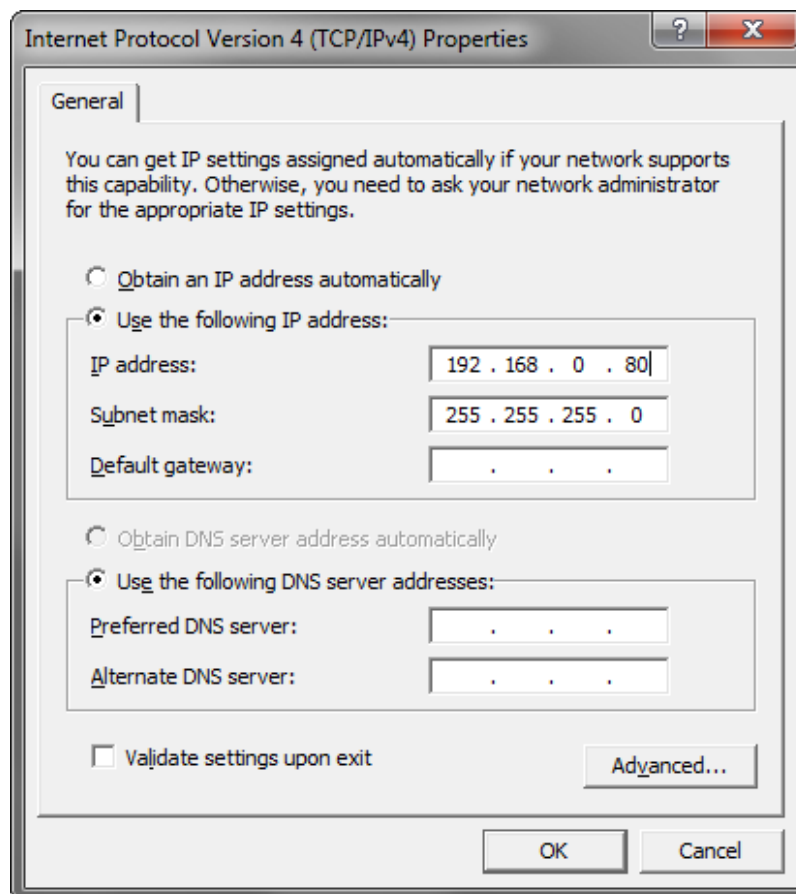


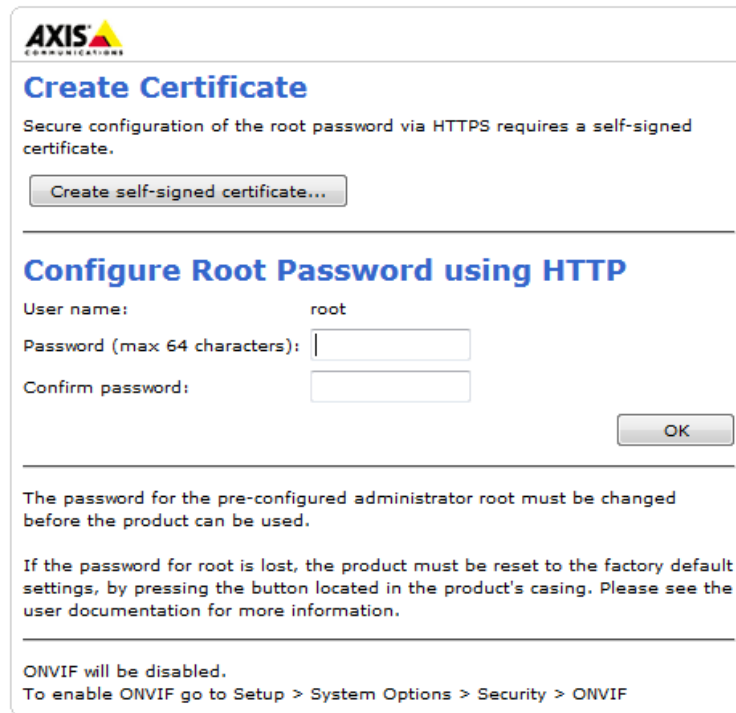
Figure 6.2: Setting a static IP address

6.2 Access to the network camera AXIS F41/F44

Open your browser and type in the preset IP address of the network camera: **192.168.0.90**.

Choose your password and type it in. This password will be needed later.

If the system asks for a further authentication, please type in the same password like before.



AXIS
COMMUNICATIONS

Create Certificate

Secure configuration of the root password via HTTPS requires a self-signed certificate.

Configure Root Password using HTTP

User name: root

Password (max 64 characters):

Confirm password:

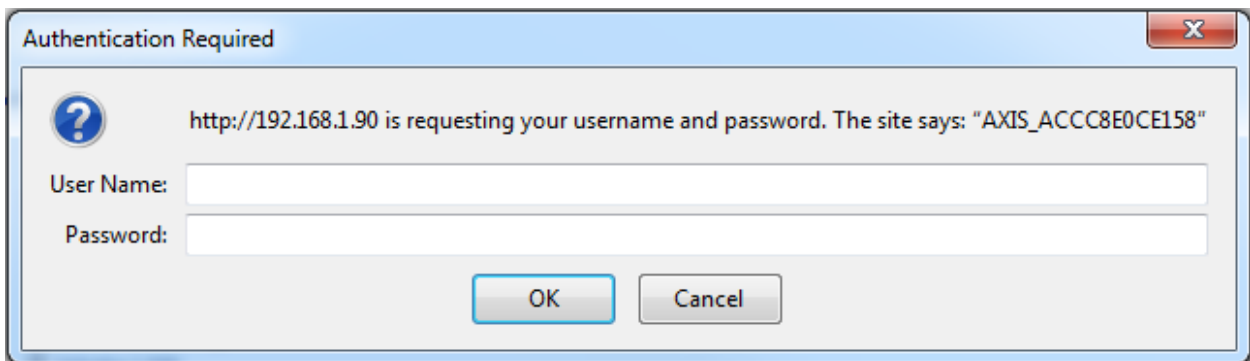
The password for the pre-configured administrator root must be changed before the product can be used.

If the password for root is lost, the product must be reset to the factory default settings, by pressing the button located in the product's casing. Please see the user documentation for more information.

ONVIF will be disabled.
To enable ONVIF go to Setup > System Options > Security > ONVIF

Figure 6.3: Creating an user password

After setting the password please login to the AXIS F41/F44 web interface:



Authentication Required

http://192.168.1.90 is requesting your username and password. The site says: "AXIS_ACC8E0CE158"

User Name:

Password:

Figure 6.4: Login to the web interface

User name: root

Password: (your chosen password from before)

In some cases a browser add-on is necessary to display the video stream.

Thereafter you have to set the capture mode and the power line frequency of the power supply. In Europe 50 Hz is common.

AXIS
COMMUNICATIONS

Configure capture mode

Capture Mode:

Capture mode defines how the image data will be taken with a priority given to either resolution or frame rate.

Note: The Capture mode is intended to be set the first time the camera is configured. If changed later, some settings will be either removed or reset.

Figure 6.5: Configure the capture mode F41

AXIS
COMMUNICATIONS

Configure capture mode

Capture Mode:

Capture mode defines how the image data will be taken with a priority given to either resolution or frame rate.

Note: The Capture mode is intended to be set the first time the camera is configured. If changed later, some settings will be either removed or reset.

Figure 6.6: Configure the capture mode F44

AXIS
COMMUNICATIONS

Power line frequency

What power line frequency is used at your location?

Set the correct power line frequency in order to prevent image flickering. Select 50 Hz or 60 Hz and click OK to continue.

Note: Power line frequency is different in different geographic regions. In the Americas, 60 Hz is usually used; most other parts of the world use 50 Hz. Local variations may apply, always check with the local authorities.

Figure 6.7: Configure the power line frequency

Now you should see the live stream of the connected network camera.



Figure 6.8: Picture of a connected network camera

6.3 Creating the user “admin”

For communicating with the data logger a special user is needed with administrator rights.

Click [Setup] → [Basic Setup] → [1 Users] → [Add...].

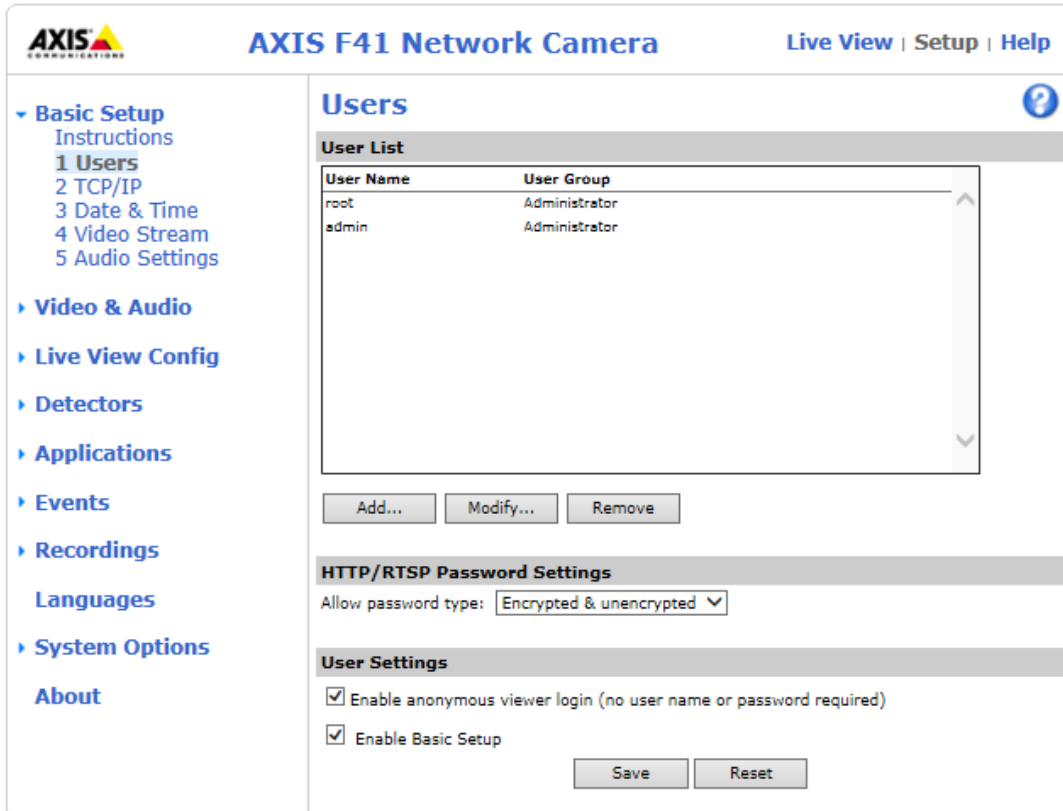


Figure 6.9: Adding a new user

A new window is opened.

Name the new user “admin” and define a password. This user and password will be needed later too.

Recommended:

User name: admin
Password: 2x8bg4

Choose the <User group> **(o) Administrator** and click [OK].

Activate at <User Settings> the checkbox **Enable anonymous viewer login (no user name or password required)**. Confirm the settings with [Save].

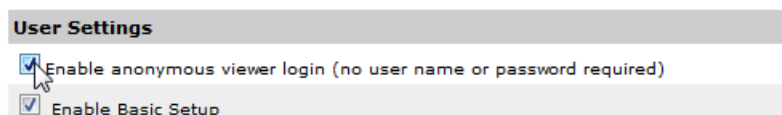


Figure 6.10: Enable anonymous viewer login

6.4 Setting date and time

Change to the entry **[Basic Setup]** → **[3 Date & Time]**. Choose the <Time mode> **(o) Set manually**. Set up date and time. Confirm the settings with **[Save]**.

Comment:

The time set here is initially only a temporary adjustment. In our system the data logger is the time master and overwrites the logger time after successfully synchronizing with the video server.

Figure 6.11: Set date and time manually

You can also display date and time on the video image.

Attention:

Before you start recording always set the date and time in the data logger first. It is impossible to change the timestamp at recorded video data. This means, the setup of a new logger time before downloading does not change the time within the video pictures. In this case, the timestamps of the other channels and the video picture timestamp could not match.

Click **[Basic Setup]** → **[4 Video Stream]**. Activate both checkboxes **Include date** and **Include time** to activate the display on the video image. Confirm the settings with **[Save]**.

If desired, change format options like <Text color>, <Text background color> and text place. Confirm the settings with **[Save]**.

Note:

Using the AXIS F44 these settings must be made for Camera 1 to 4.

[Basic Setup] → [4 Video Stream] → [Camera ...]

The screenshot shows the 'AXIS F44 Network Camera' setup page. The left sidebar lists navigation options: Basic Setup (Instructions, 1 Users, 2 TCP/IP, 3 Date & Time, 4 Video Stream, Camera 1, Camera 2, Camera 3, **Camera 4**, Quad Stream, 5 Audio Settings). The main area is titled 'Video Stream Settings' and has tabs for Image, Audio, H.264, and MJPEG. Under the 'Image Appearance' section, the 'Capture mode' is 1080p 1920x1080 (16:9) @ 15/12.5fps. The 'Resolution' is set to 1920x1080 (16:9) pixels. The 'Compression' is 30. There are checkboxes for 'Mirror image' and 'Rotate image' (set to 0 degrees). The 'Video Stream' section shows 'Maximum frame rate:'.

Figure 6.12: Settings for cameras 1 - 4

The screenshot shows the 'AXIS F41 Network Camera' setup page. The left sidebar lists navigation options: Basic Setup (Instructions, 1 Users, 2 TCP/IP, 3 Date & Time, **4 Video Stream**, 5 Audio Settings), Video & Audio, Live View Config, Detectors, Applications, Events, Recordings, Languages, System Options, and About. The main area is titled 'Video Stream Settings' and has tabs for Image, Audio, H.264, and MJPEG. Under the 'Image Appearance' section, the 'Capture mode' is 1080p 1920x1080 (16:9) @ 25/30 fps (WDR). The 'Resolution' is 1920x1080 (16:9) pixels. The 'Compression' is 30. There are checkboxes for 'Mirror image' and 'Rotate image' (set to 0 degrees). The 'Video Stream' section shows 'Maximum frame rate:' with radio buttons for 'Unlimited' (selected) and 'Limited to' [] [1..25] fps per viewer. The 'Overlay Settings' section has checkboxes for 'Include overlay image at the coordinates: X [0] [0..] Y [0] [0..]', 'Include date' (checked), and 'Include time' (checked). There is a checkbox for 'Include text:' []. The 'Text overlay size' is 'medium'. The 'Text color' is 'white' and 'Text background color' is 'black'. The 'Place text/date/time at' is 'top' of image. The 'Preview' section shows 'View image stream while configuring.' and 'Video format: MJPEG'. There are 'Save' and 'Reset' buttons.

Figure 6.13: Include date and time in the video stream

The setup for in the video image embedded timestamps is finished.

Note:

In case that the video is stuttering or has breaks, please reduce the preset **<Maximum frame rate>**. Reducing to 15 or 20 fps eliminates the problem which is caused by to high frame rates especially with HD cameras.

6.5 Audio settings (FW 2.0.1 onwards)

Change to **[Basic Setup]** → **[4 Video Stream]** and switch to the tab **[Audio]**. Activate the checkbox **Enable audio** to enable the general audio functionality.

Note:

Using the **AXIS F44** these settings must be made for **Camera 1 to 4**.

[Basic Setup] → **[4 Video Stream]** → **[Camera ...]**

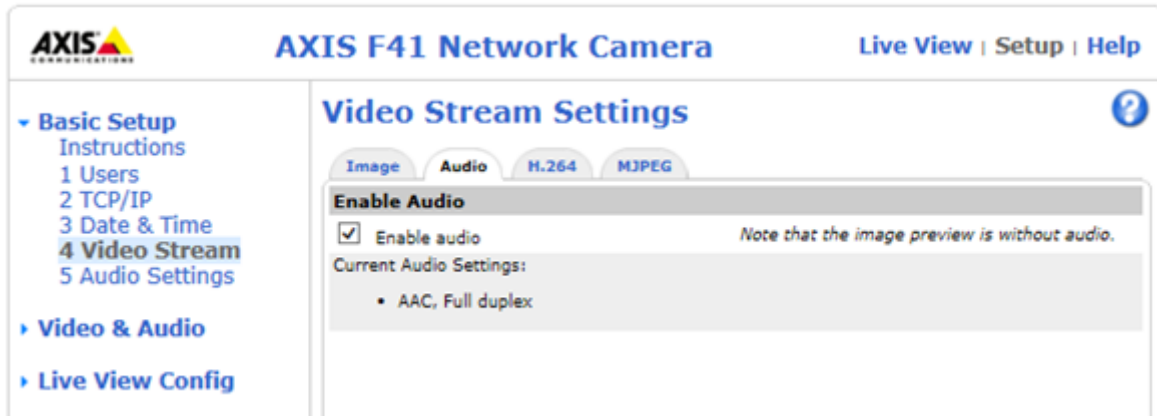


Figure 6.14: Enable audio

6.5.1 Adjusting audio source

Change to the entry **[Video & Audio]** → **[Audio Settings]**. Here you can configure the connected source as well as the recorded audio quality.

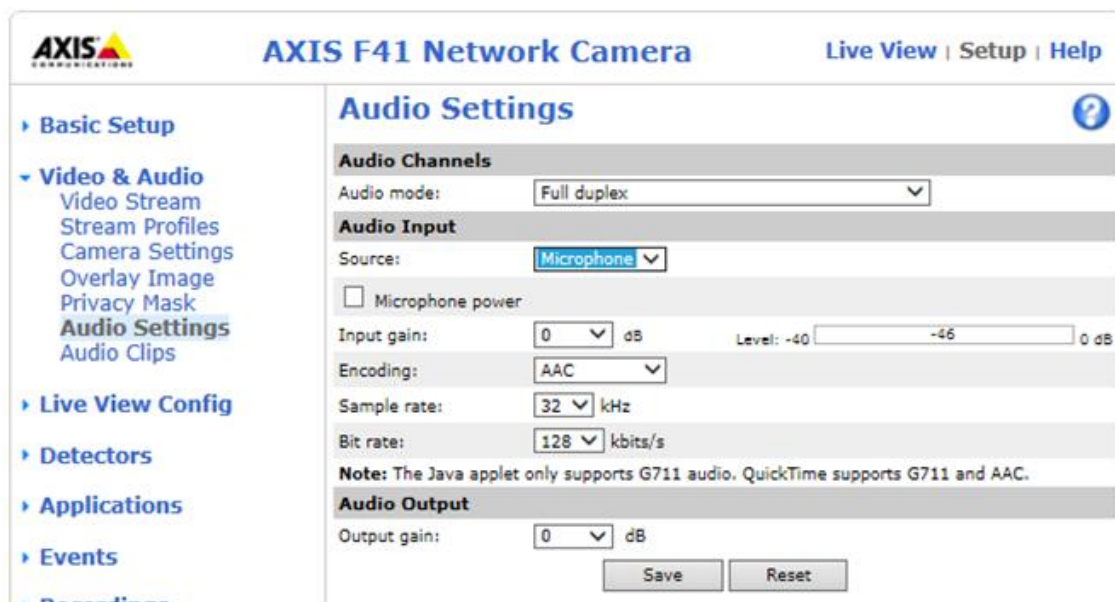


Figure 6.15: Configure audio settings

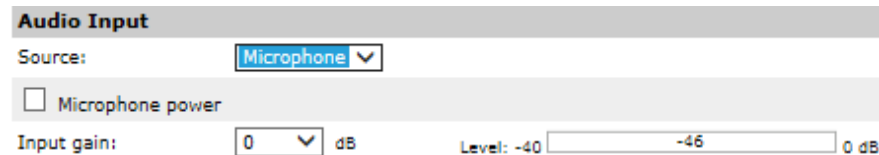
In the dropdown box next to <Source> you can choose between **[Line]** for an audio source like an MP3 player and **[Microphone]**.



The screenshot shows the 'Audio Input' configuration panel. The 'Source' dropdown menu is set to 'Line'. Below it, there is a checkbox for 'Microphone power' which is unchecked. At the bottom, the 'Input gain' is set to '0 dB' and the 'Level' is set to '-46 dB'.

Figure 6.16: Select audio input (Line)

The source **[Microphone]** supports additionally the functionality to power a microphone.



The screenshot shows the 'Audio Input' configuration panel. The 'Source' dropdown menu is set to 'Microphone'. Below it, there is a checkbox for 'Microphone power' which is unchecked. At the bottom, the 'Input gain' is set to '0 dB' and the 'Level' is set to '-46 dB'.

Figure 6.17: Select audio input (Microphone)

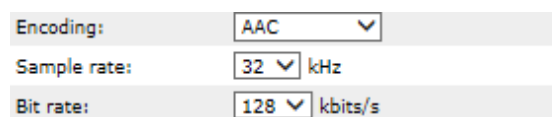
The setting of the <Input gain> can be used to configure an internal preamplifier for signal improvement.

Note:

If the source configuration is not valid the audio signal may be distorted.

6.5.2 Adjusting audio quality

For a high audio quality we recommend to configure the <Sample rate> and the <Bit rate> at the highest value. The <Encoding> is left by default (AAC).



The screenshot shows the audio quality configuration panel. The 'Encoding' dropdown is set to 'AAC'. The 'Sample rate' dropdown is set to '32 kHz'. The 'Bit rate' dropdown is set to '128 kbits/s'.

Figure 6.18: Adjust audio quality

6.6 IP configuration

Change to the entry **[Basic Setup] → [2 TCP/IP]**. Choose the <IPv4 Address Configuration> **(o) Use the following IP address**. Type in these data:

IP address:	192.168.1.90
Subnet mask:	255.255.255.0

IPv4 Address Configuration

Enable IPv4

Obtain IP address via DHCP

Use the following IP address:

IP address:

Subnet mask:

Default router:

Figure 6.19: Setting an IP address

Confirm the settings with **[Save]**.

Note:

By changing the IP address you lose the connection to the network camera.

This also will be told to you in an information window:

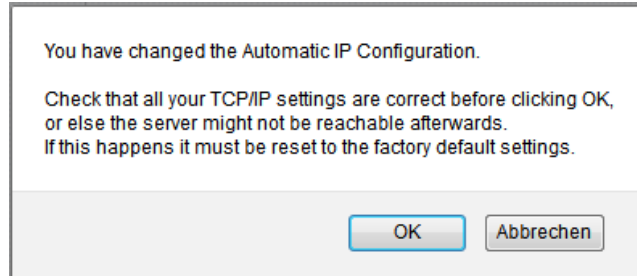


Figure 6.20: Hint 1

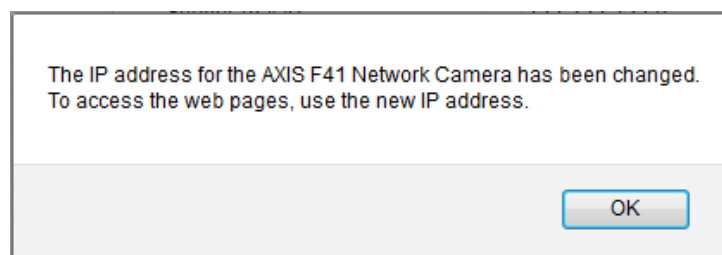


Figure 6.21: Hint 2

For reconnecting you have to change your computers IP address to **192.168.1.80**. Then type in your browser the new IP address of the network camera, to access the configuration again.

Note:

Finally, change your PCs or laptops IP configuration back to dynamic configuration.

6.7 Resetting configuration

The camera AXIS F41/F44 can be set to default settings by the following steps:

1. Disconnect the connection to the power supply.
2. Press and hold the control button next to the SD slot and
3. reconnect to the power supply.
4. Hold the control button for 15 to 30 seconds till the Stat-LED flashes yellow.

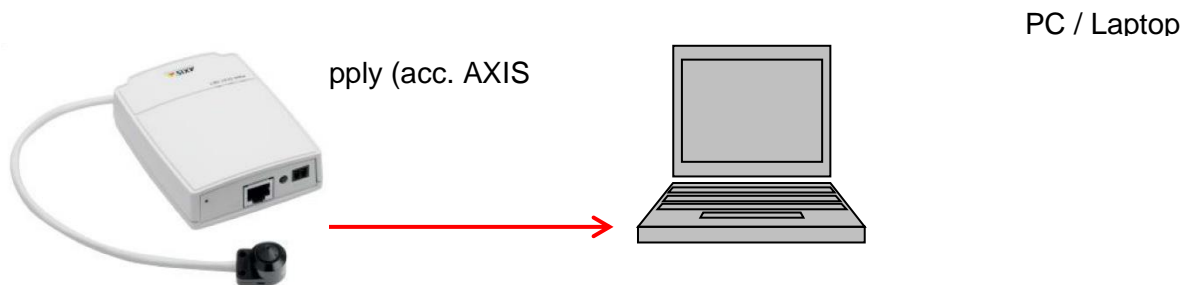
When the Stat-LED turns green the process is finished.

7 Configuring the network camera AXIS P12xx

7.1 Connecting the network camera AXIS P1204 / P1214 / P1224

Connect the camera with the associated main unit. Connect the power supply to the main unit. Connect your PC or laptop via Ethernet cable to the main unit. Turn on the power supply. All LEDs should light green after about 60 seconds.

Network camera AXIS P1204 / P1214 / P1224



Change your PC's IP configuration. Use static IP address with the following settings:

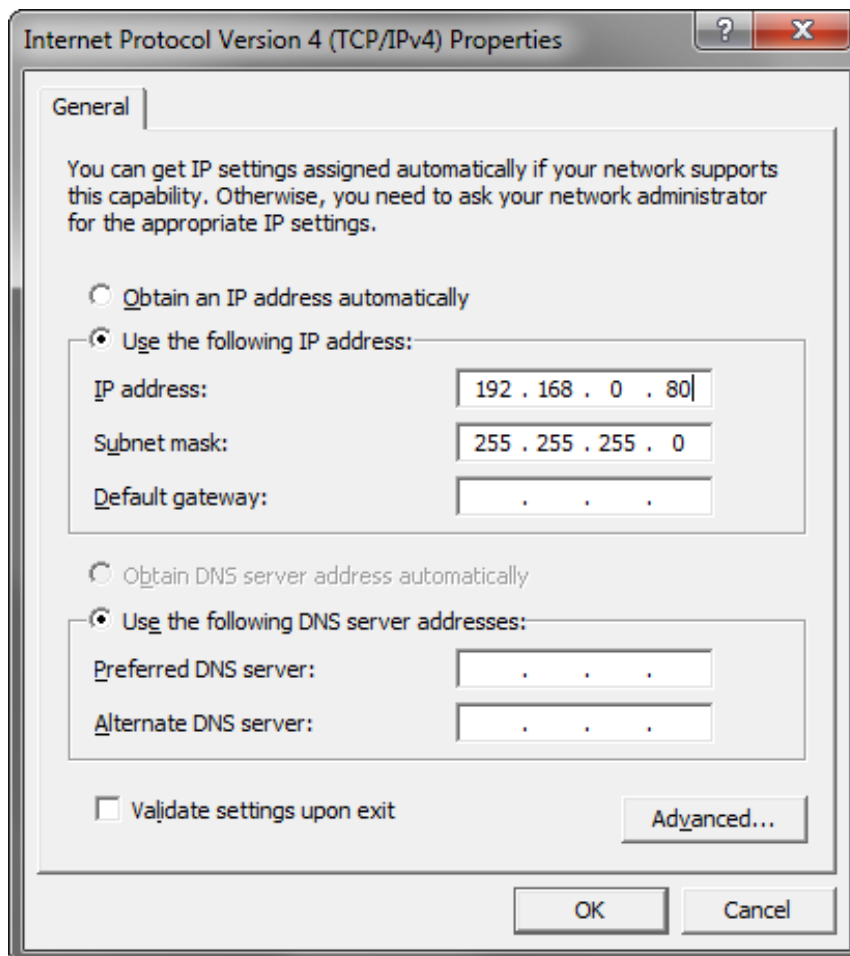


Figure 7.1: Setting a static IP address

7.2 Access to the network camera AXIS P12xx

Open your browser and type in the preset IP address of the network camera: **192.168.0.90**.
(<http://192.168.0.90>)

Choose your password and type it in. This password will be needed later.
If the system asks for a further authentication, please type in the same password like before.



AXIS
COMMUNICATIONS

Create Certificate

Secure configuration of the root password via HTTPS requires a self-signed certificate.

Configure Root Password using HTTP

User name:

Password (max 64 characters):

Confirm password:

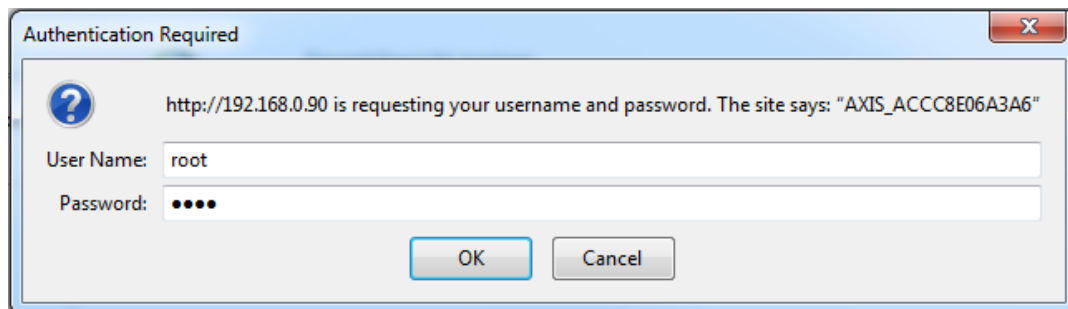
The password for the pre-configured administrator root must be changed before the product can be used.

If the password for root is lost, the product must be reset to the factory default settings, by pressing the button located in the product's casing. Please see the user documentation for more information.

ONVIF will be disabled.
To enable ONVIF go to Setup > System Options > Security > ONVIF

Figure 7.2: Create a user password

After setting the password please login to the web interface:



Authentication Required

http://192.168.0.90 is requesting your username and password. The site says: "AXIS_ACC8E06A3A6"

User Name:

Password:

Figure 7.3: Login to the web interface

User name:

Password:

A browser add-on is necessary to display the video stream in some cases.

Thereafter you have to set the power line frequency of the power supply. In Europe 50 Hz is common.

AXIS
COMMUNICATIONS

Power line frequency

What power line frequency is used at your location? 50 Hz ▾

Set the correct power line frequency in order to prevent image flickering. Select 50 Hz or 60 Hz and click OK to continue.

Note: Power line frequency is different in different geographic regions. In the Americas, 60 Hz is usually used; most other parts of the world use 50 Hz. Local variations may apply, always check with the local authorities.

Figure 7.4: Configure the power line frequency

Now you should see the live stream of the connected network camera.



Figure 7.5: Picture of a connected network camera

7.3 Creating the user “admin”

For communicating with the blue data logger a special user is needed with administrator rights.

Click **[Setup]** → **[Basic Setup]** → **[1 Users]** → **[Add...]**.

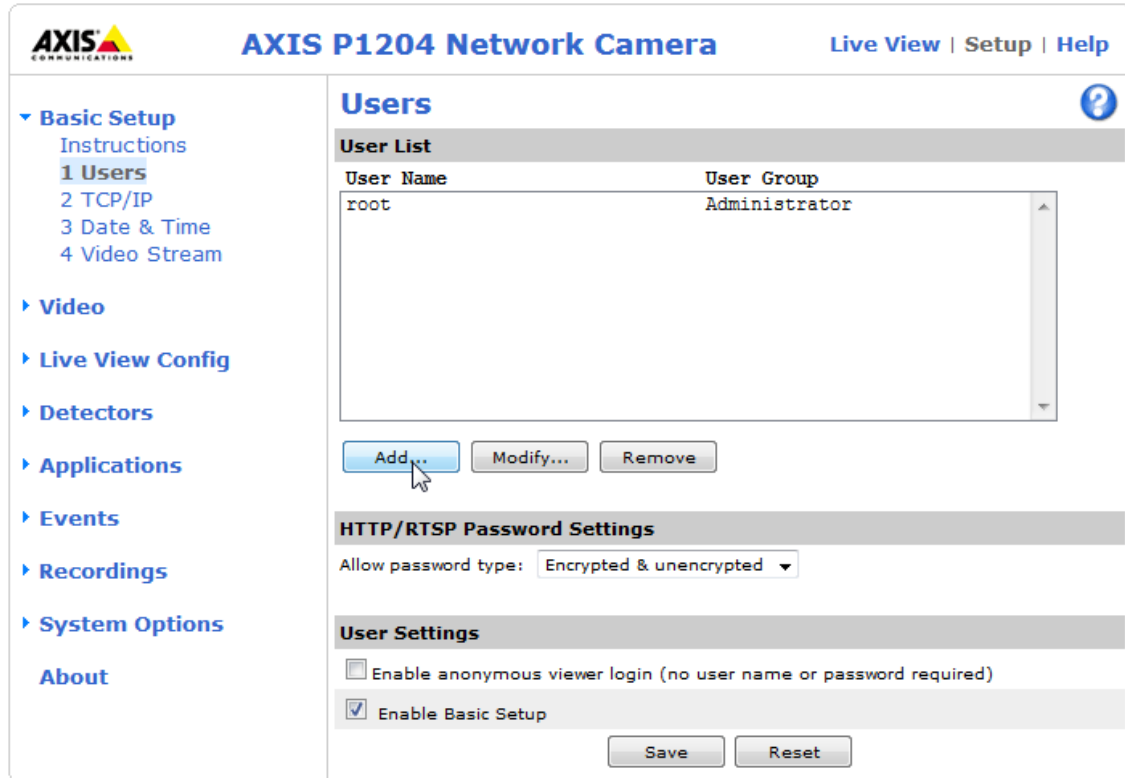


Figure 7.6: Add a new user

A new window is opened.

Name the new user “admin” and define a password. This user and password will be needed later too.

Recommended:

User name: admin
Password: 2x8bg4

Choose the <User group> **(o) Administrator** and click **[OK]**.

Activate at <User Settings> the checkbox **Enable anonymous viewer login (no user name or password required)**. Confirm the settings with **[Save]**.

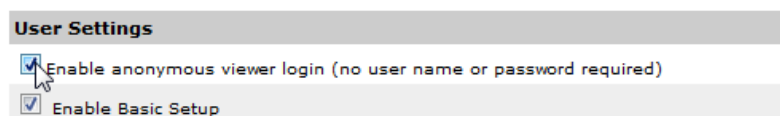


Figure 7.7: Enable anonymous viewer login

7.4 Setting date and time

Change to the entry **[Basic Setup] → [3 Date & Time]**. Choose the <Time mode> **(o) Set manually**. Set up date and time. Confirm the settings with **[Save]**.

Comment:

The time set here is initially only a temporary adjustment. In our system the data logger is the time master and overwrites the logger time after successfully synchronizing with the video server.

The screenshot shows the 'Date & Time Settings' page for an AXIS P1204 Network Camera. The interface includes a sidebar with navigation options like 'Basic Setup', 'Video', and 'Live View Config'. The main content area is titled 'Date & Time Settings' and contains several sections:

- Current Server Time:** Date: 2014-08-01, Time: 12:13:40
- New Server Time:** Time zone: GMT (Dublin, Lisbon, London, Reykjavik). A checkbox for 'Automatically adjust for daylight saving time changes' is present.
- Time mode:** Three radio buttons are shown: 'Synchronize with computer time', 'Synchronize with NTP server', and 'Set manually'. The 'Set manually' option is selected.
- Date & Time Format Used in Images:**
 - Specify date format:** 'Predefined' is selected with the format 'YYYY-MM-DD'. An 'Own' option with a text input field '%F' is also available.
 - Specify time format:** 'Predefined' is selected with '24h' and 'With resolution: 1 second'. An 'Own' option with a text input field '%T' is also available.

At the bottom of the settings area, there are 'Save' and 'Reset' buttons.

Figure 7.8: Set date and time manually

You can also display date and time on the video image.

Attention:

Before you start recording always set the date and time in the data logger first. It is impossible to change the timestamp at recorded video data. This means, the setup of a new logger time before downloading does not change the time within the video pictures. In this case, the timestamps of the other channels and the video picture timestamp could not match.

Click **[Video] → [Video Stream]**. Activate both checkboxes **Include date** and **Include time** to activate the display on the video image. Confirm the settings with **[Save]**.

If desired, change format options like <Text color>, <Text background color> and text place. Confirm the settings with **[Save]**.

The screenshot displays the configuration page for an AXIS P1204 Network Camera. The left sidebar contains navigation options: Basic Setup, Video (with sub-options: Video Stream, Stream Profiles, Camera Settings, Overlay Image, Privacy Mask), Live View Config, Detectors, Applications, Events, Recordings, System Options, and About. The main content area is titled 'Video Stream Settings' and includes tabs for Image, H.264, and MJPEG. The 'Image Appearance' section includes Resolution (1280x720 (16:9) pixels), Compression (30), and options for Mirror image and Rotate image (0 degrees). The 'Video Stream' section has a Maximum frame rate set to Unlimited. The 'Overlay Settings' section is active, showing 'Include date' and 'Include time' checked, with 'Include text' unchecked. Text color is white and text background color is black. The text is placed at the top of the image. The 'Preview' section at the bottom shows 'View image stream while configuring. Video format: MJPEG' and buttons for 'Open...', 'Save', and 'Reset'.

Figure 7.9: Include date and time in the video stream

The setup for in the video image embedded timestamps is finished.

Note:

In case that the video is stuttering or has breaks, please reduce the preset **<Maximum frame rate>**. Reducing to 15 or 20 fps eliminates the problem which is caused by to high frame rates especially with HD cameras.

7.5 IP configuration

Change to the entry **[Basic Setup] → [2 TCP/IP]**. Choose the <IPv4 Address Configuration> **(o) Use the following IP address**. Type in these data:

IP address:	192.168.1.90
Subnet mask:	255.255.255.0

IPv4 Address Configuration

Enable IPv4

Obtain IP address via DHCP

Use the following IP address:

IP address:

Subnet mask:

Default router:

Figure 7.10: Setting an IP address

Confirm the settings with **[Save]**.

Note:

By changing the IP address you lose the connection to the network camera.

This also will be told to you in an information window:

You have changed the Automatic IP Configuration.

Check that all your TCP/IP settings are correct before clicking OK, or else the server might not be reachable afterwards. If this happens it must be reset to the factory default settings.

Figure 7.11: popup window 1

The IP address for the AXIS P1214 Network Camera has been changed. To access the web pages, use the new IP address.

Figure 7.12: popup window 2

For reconnecting you have to change your computers IP address to **192.168.1.80**. Then type in your browser the new IP address of the network camera, to access the configuration again.

<http://192.168.1.90>

Note:

Finally, change your PCs or laptops IP configuration back to dynamic configuration.

7.6 Resetting configuration

The AXIS P-series can be set to default settings by the following steps:

5. Disconnect the connection to the power supply.
6. Press and hold the control button next to the PWR connector and
7. reconnect to the power supply.
8. Hold the control button for 15 to 30 seconds till the Stat-LED flashes yellow.

When the Stat-LED turns green the process is finished.

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8 Configuring the network camera AXIS 207/210/211

Warning:

The camera must have installed the firmware version 4.40. If there is another firmware version installed it is recommended to install the 4.40.

Any camera that is used with the data loggers BLUEPIRAT2 / BLUEPIRAT2 5E / BLUEPIRAT Mini can be installed manually or automatically (recommended).

The manual configuration is done over the camera web interface.

The automatic configuration is done with the program "AXIS Camera Management". For this variant a template is available.

8.1 Related manuals

- AXIS 207 User Manual [1]
- AXIS 210 User Manual [2]
- AXIS 211 User Manual [3]

8.2 Automatic configuration (recommended)

Needed software: AXIS Camera Management v2.00.31

<http://www.axis.com/techsup/software/index.htm> or
http://www.axis.com/de/products/cam_mgmt_software/interface.htm

Configuration steps:

9. Check firmware version. Recommended: 4.40 (more information see [1], [2], [3] or AXIS online).
10. Resetting camera to the factory default settings (more information see [1], [2] or [3] chapter "Resetting to the Factory Default Settings").
11. Connect the camera with the PC / laptop via an Ethernet cable.
12. Set the password (more information see [1], [2] or [3] chapter "Set the password").
13. Install camera template by using the program "AXIS Camera Management".
14. Add administrator.

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8.2.1 Installing the camera template

The template “BLUEPIRAT_Kamera_AXIS-ConfigTemplate_vX.X.cmt” configures your camera automatically. The download file is available in our ServiceCenter at **[BLUEPIRAT] → [Dokumentations]** under the manual of the camera connection.

15. Click **[Apply Template]**.

16. Click on the template file in the shortcut menu or choose it from the memory location with **[Browse...]**.

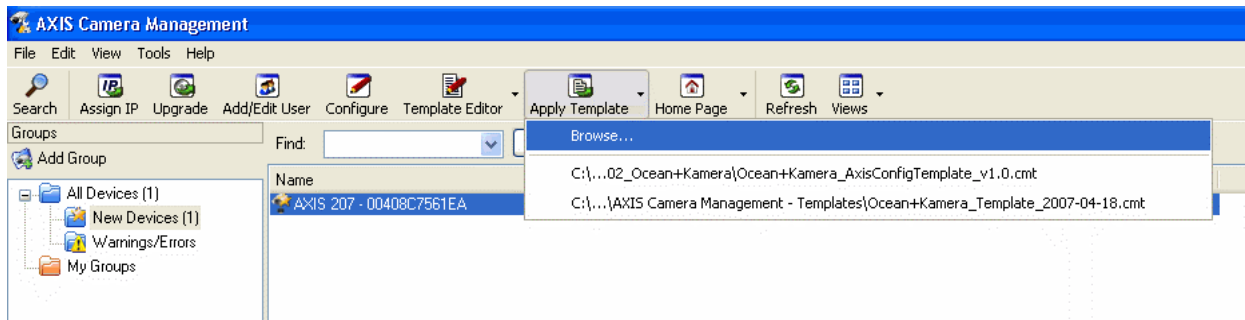


Figure 8.1: Select a template

A dialog opens:

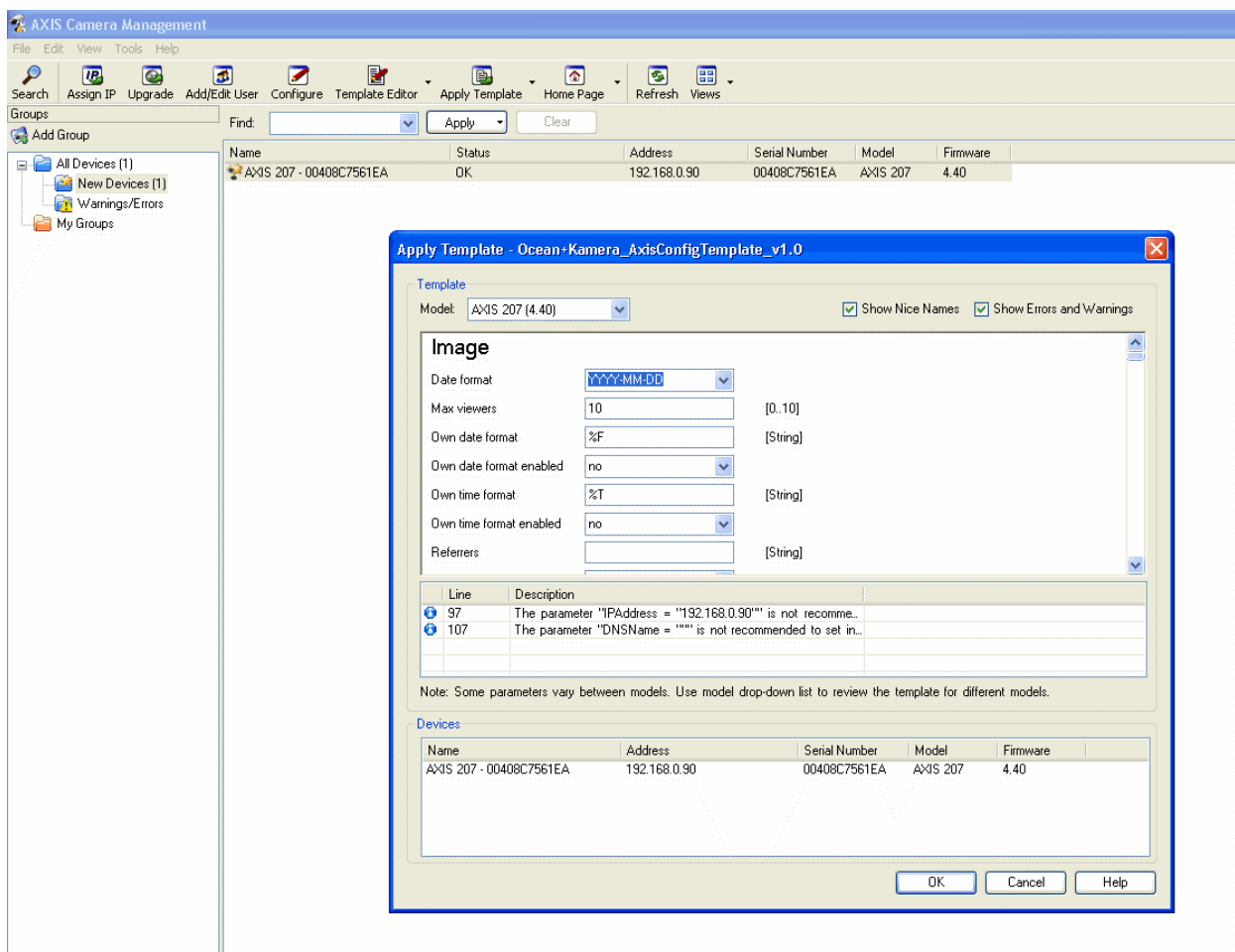


Figure 8.2: Apply template

17. Click **[OK]** to confirm the template.

A dialog opens.

18. Check the configuration process.

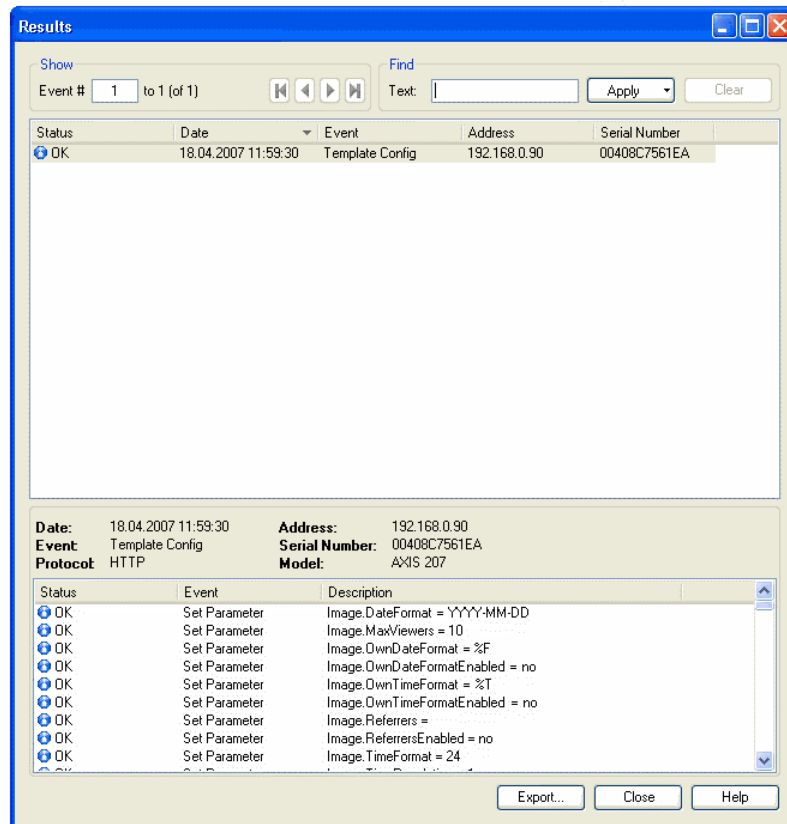


Figure 8.3: Result of the configuration process

8.2.2 Creating the user “admin”

For communicating with the data logger a special user is needed with administrator rights.

19. Click the configured AXIS camera with the right mouse button.
20. Click **[User Management]** → **[Add/Edit User...]** in the shortcut menu.

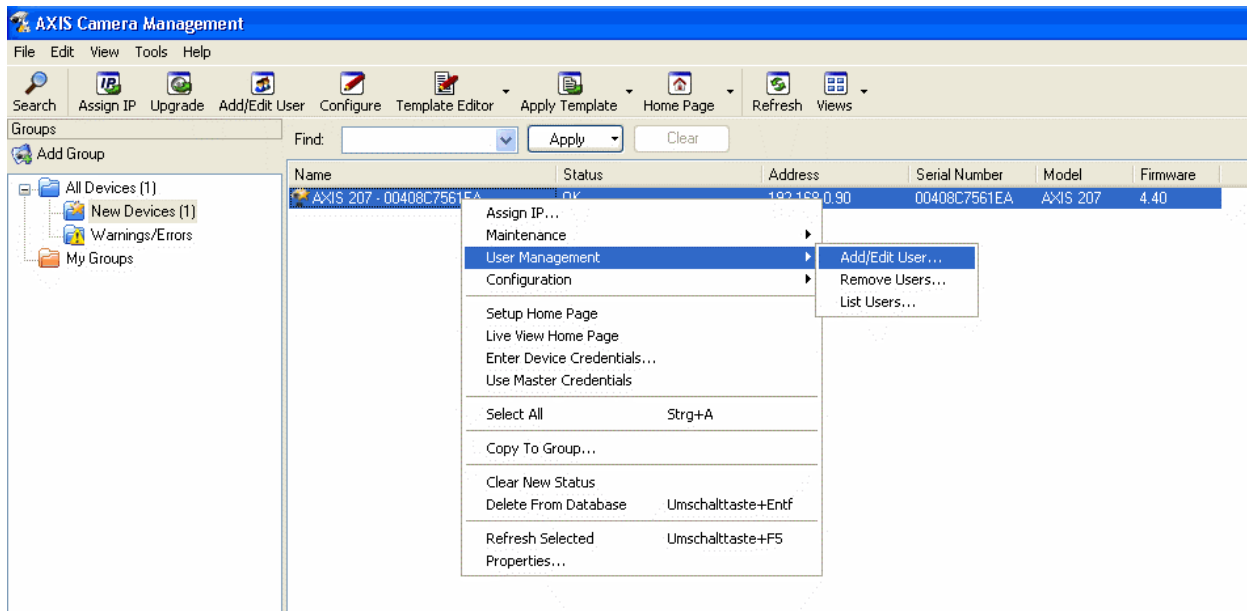
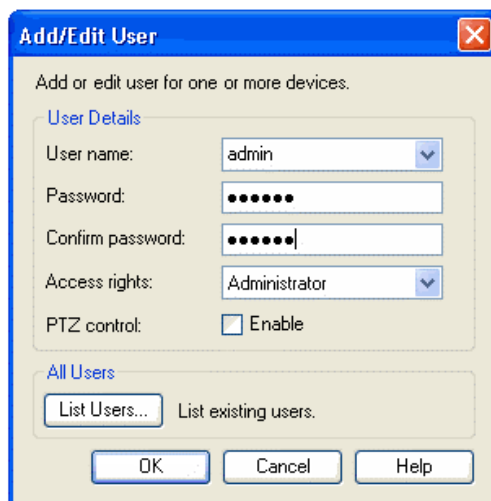


Figure 8.4: Add a user

A dialog opens.

21. Add administrator as follows:



Name the new user “admin” and define a password. This user and password will be needed later too.

Recommended:

User name: admin
 Password: 2x8bg4

Choose the <Access rights> “Administrator” and click **[OK]**.

Figure 8.5: Select a user password

8.3 Manual configuration

22. Reset camera to the factory default settings.
23. Connect camera with the PC / laptop via an Ethernet cable.
24. Open browser.
25. Type in the preset IP address of the network camera: **192.168.0.90**.
26. Press **[Enter]**.
27. Click **[Setup]**.
28. Add administrator.

If you don't know the cameras IP address, use the program "IP-Utility" on the AXIS CD-ROM for detection.

If it is still not possible to connect to the camera setup, please reset the camera via hardware reset. This is described in the camera manual. In this case you have to use the fix IP address 192.168.0.10 for your PC. The camera is reachable by the IP address 192.168.0.90.

A step by step configuration of the camera is described in the section below.

The following instructions are illustrated by screenshots of the camera setup of the AXIS 210. The layout of the other supported cameras 207, 207W and 211 can differ.

Note:

All modifications of one setup screen must be applied by the [Save] button. Otherwise the changes will be discarded.

8.3.1 Resetting configuration

The camera AXIS 207/210/211 can be set to default settings at **[System Options]** → **[Maintenance]** with the **[Default]** button under <Maintain Server>.

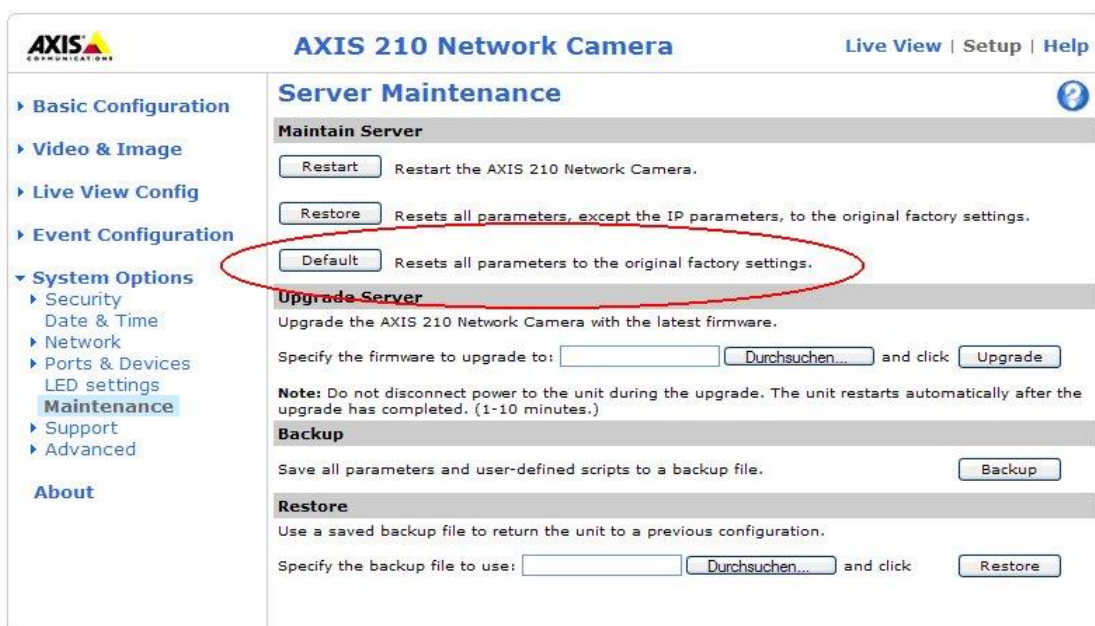


Figure 8.6: Reset configuration

8.3.2 IP configuration

Change to the entry **[Basic Configuration] → [2. TCP/IP]**. Choose the <IPv4 Address Configuration> **(o) Use the following IP address**. Type in these data:

IP address:	192.168.1.90
Subnet mask:	255.255.255.0
Default router:	192.168.1.1

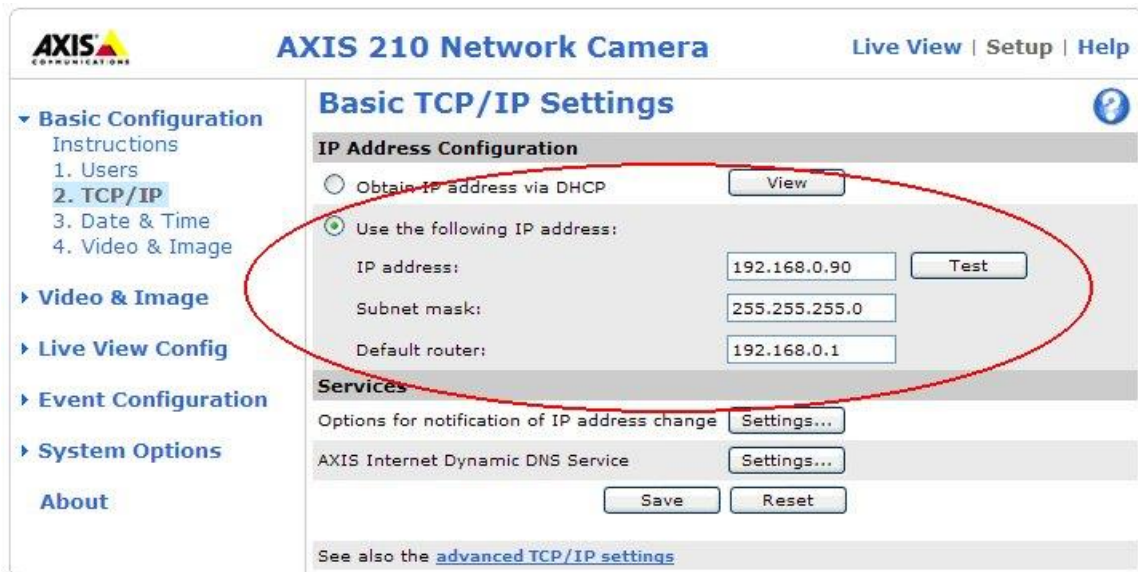


Figure 8.7: Setting an IP address

Note:

When using a port on the rear side of the logger, please type in the <IP address> 192.168.0.90 and the <Default router> 192.168.0.1.

The same IP address has to be used in the data loggers configuration.

Confirm the settings with **[Save]**.

Note:

By changing the IP address you lose the connection to the network camera.

This also will be told to you in an information window:

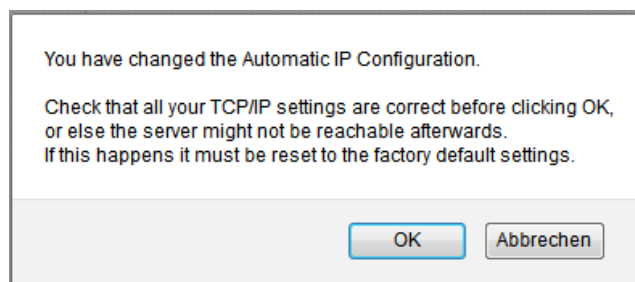


Figure 8.8: Hint 1



Figure 8.9: Hint 2

For reconnecting you have to change your computers IP address to **192.168.1.80**. Then type in your browser the new IP address of the network camera, to access the configuration again.

Note:

Finally, change your PCs or laptops IP configuration back to dynamic configuration.

8.3.3 Creating the user “admin”

For communicating with the data logger a special user is needed with administrator rights.

Click **[Setup]** → **[Basic Configuration]** → **[1. Users]** → **[Add...]**.

A new window is opened.

Name the new user “admin” and define a password. This user and password will be needed later too.

Recommended:

User name: admin
Password: 2x8bg4

Choose the <User group> **(o) Administrator** and click **[OK]**.

Activate at <User Settings> the checkbox **Enable anonymous viewer login (no user name or password required)**. Confirm the settings with **[Save]**.

Note:

If you want to use an individual password for the camera, you have to deactivate this checkbox. Now you can change the password for the user “admin” individually. This password has also to be configured in the client.

The screenshot shows the web interface for an AXIS 210 Network Camera. The page title is "AXIS 210 Network Camera" and it includes links for "Live View", "Setup", and "Help". The left sidebar contains a navigation menu with "Basic Configuration" expanded to show "1. Users", "2. TCP/IP", "3. Date & Time", and "4. Video & Image". Other menu items include "Video & Image", "Live View Config", "Event Configuration", "System Options", and "About".

The main content area is titled "Users" and features a "User List" table with the following data:

User Name	User Group
root	Administrator
admin	Administrator

Below the table are buttons for "Add...", "Modify...", and "Remove".

The "User Settings" section includes a checked checkbox for "Enable anonymous viewer login (no user name or password required)". Below this, there is a field for "Maximum number of simultaneous viewers limited to:" with a value of "20" and a range "[0..20]". A note states "Subsequent viewers will see a blank image." At the bottom of the settings are "Save" and "Reset" buttons.

Figure 8.10: Enable anonymous viewer login

8.3.4 Setting date and time

Change to the entry **[Basic Configuration] → [3. Date & Time]**. Choose the <Time mode> **(o) Set manually**. Set up date and time. Confirm the settings with **[Save]**.

Comment:

The time set here is initially only a temporary adjustment. In our system the data logger is the time master and overwrites the logger time after successfully synchronizing with the video server.

The screenshot shows the 'Date & Time Settings' page for an AXIS 210 Network Camera. The page is divided into a left sidebar and a main content area. The sidebar contains a 'Basic Configuration' menu with options: Instructions, 1. Users, 2. TCP/IP, 3. Date & Time (highlighted), 4. Video & Image, Video & Image, Live View Config, Event Configuration, System Options, and About. The main content area is titled 'Date & Time Settings' and includes a 'Current Server Time' section with Date: 2007-01-24 and Time: 13:16:30. Below this is the 'New Server Time' section, which includes a 'Time zone' dropdown set to 'GMT (Dublin, Lisbon, London, Reykjavik)', a checkbox for 'Automatically adjust for daylight saving time changes' (unchecked), and a 'Time mode' section with three radio buttons: 'Synchronize with computer time' (unchecked), 'Synchronize with NTP server' (unchecked), and 'Set manually' (checked and circled in red). The 'Set manually' section has Date: 2007-01-24 and Time: 13:16:17. Below the 'New Server Time' section is the 'Date & Time Format Used in Images' section, which includes 'Specify date format' with 'Predefined' selected and 'YYYY-MM-DD' chosen, and 'Specify time format' with 'Predefined' selected, '24h' chosen, and 'With resolution' set to '1 second'. At the bottom of the page are 'Save' and 'Reset' buttons.

Figure 8.11: Set date and time manually

You can also display date and time on the video image.

Attention:

Before you start recording always set the date and time in the data logger first. It is impossible to change the timestamp at recorded video data. This means, the setup of a new logger time before downloading does not change the time within the video pictures. In this case, the timestamps of the other channels and the video picture timestamp could not match.

Click **[Video & Image] → [Image]**. Activate both checkboxes **Include date** and **Include time** to activate the display on the video image. Confirm the settings with **[Save]**.

If desired, change format options like <Text color>, <Text background color> and text place. Confirm the settings with **[Save]**.

AXIS 210 Network Camera Live View | Setup | Help

Image Settings

Image Appearance

Resolution: 640x480 pixels

Compression: 30 [0..100]

Rotate image: 0 degrees

Color level: 50 [0..100] *

Brightness: 50 [0..100] (Does not affect Test image)

Contrast: 50 [0..100] (Does not affect Test image)

* Changes to color level do not affect Test image (exception 0 = B/W)

Text Overlay Settings

Include date Include time

Include text:

Text color: white Text background color: black

Place text/date/time at: top of image

Video Stream

Maximum video stream time:

Unlimited

Limited to [1..] seconds per session

Maximum frame rate:

Unlimited

Limited to 15 [1..30] fps per viewer

Test

Test settings (using Motion JPEG) before saving.

Figure 8.12: Include date and time in the video stream

The setup for in the video image embedded timestamps is finished.

Note:

In case that the video is stuttering or has breaks, please reduce the preset <Maximum frame rate>. Reducing to 15 or 20 fps eliminates the problem which is caused by too high frame rates especially with HD cameras.

8.3.5 Setting MPEG-4

Change to the entry [Video & Image] → [Advanced] → [MPEG-4]. Change <Length> to 32. Choose the <Maximum bit rate> (o) Limited to ... kbit/s. Type in "3000".

The screenshot displays the 'MPEG-4 Settings' page for an AXIS 210 Network Camera. The left sidebar shows a navigation menu with 'MPEG-4' selected under 'Video & Image' > 'Advanced'. The main content area is divided into several sections:

- Client Compatibility:** Video object type is set to 'Advanced Simple'. The 'ISMA compliant' checkbox is unchecked.
- GOV Settings:** Structure is set to 'IP'. The 'Length' field is set to '32' with a range of '[1-150]'.
- Bit Rate Control:** The 'Maximum bit rate' is set to 'Limited to 3000 kbit/s'. The 'Use' section has 'Variable bit rate' selected, with 'Constant bit rate' also available. The 'Target bit rate' field is empty, and the 'Priority' is set to 'None'.
- View Image Settings:** A 'View image after saving.' checkbox is present, with a 'View' button next to it.

At the bottom of the page, there are 'Save' and 'Reset' buttons.

Figure 8.13: MPEG-4 settings

9 Configuring the Video Encoder AXIS Q7404

9.1 Connecting the Video Encoder AXIS Q7404

Connect the required cameras with the Video Encoder. The BNC connectors of the Video Encoder are numbered. Always start with the first connector.

Connect the power supply to the Video Encoder. Connect your PC or laptop via Ethernet cable to the Video Encoder. Turn on the power supply. All LEDs should light green after about 60 seconds.

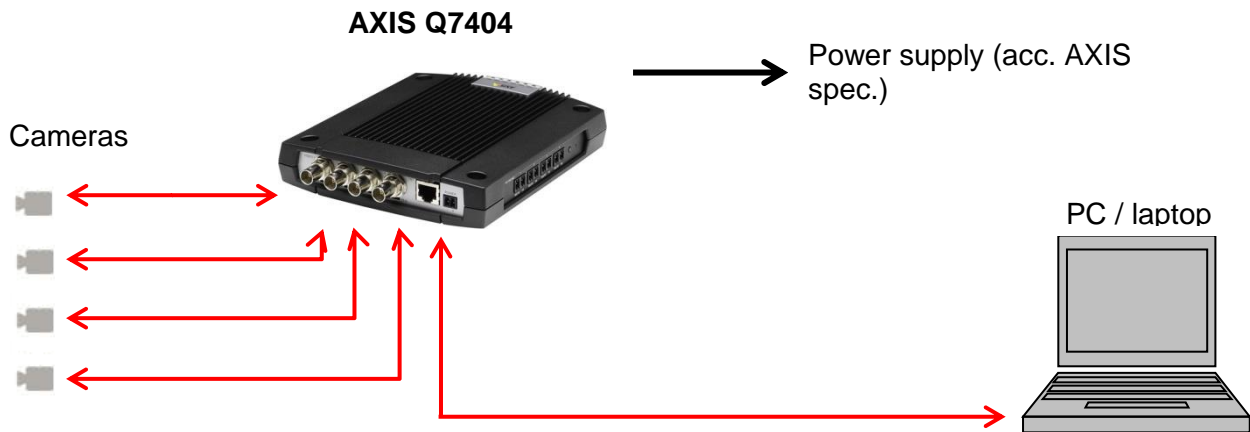


Figure 9.1: AXIS Q7404

Change your PC's IP configuration. Use static IP address with the following settings:

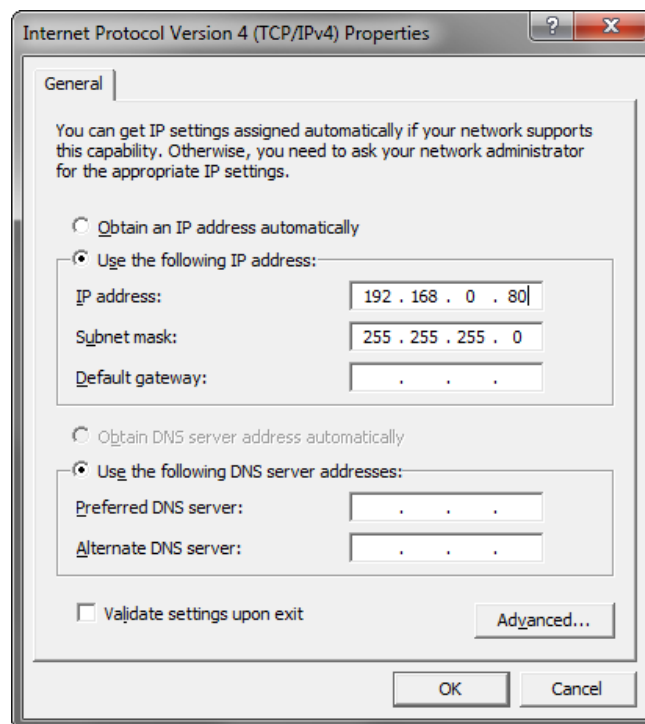


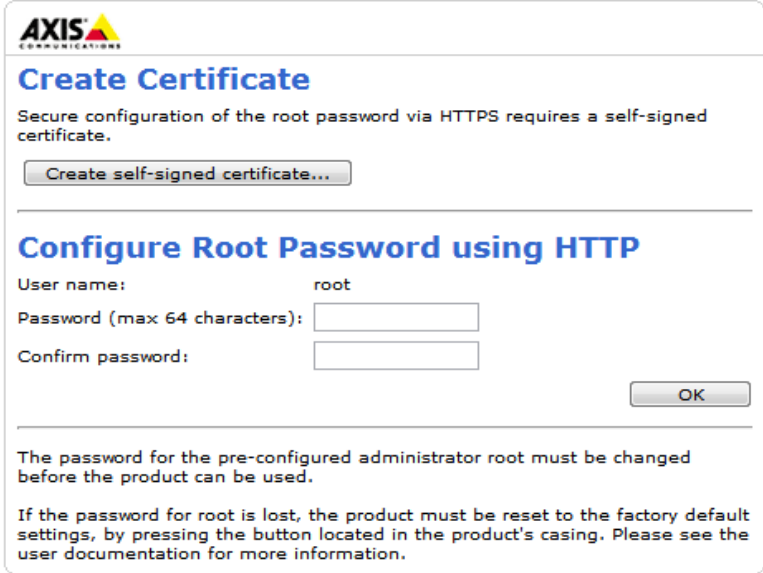
Figure 9.2: Setting a static IP address

9.2 Access to the Video Encoder AXIS Q7404

Open your browser and type in the preset IP address of the video server: **192.168.0.90**.

Choose your password and type it in. This password will be needed later.

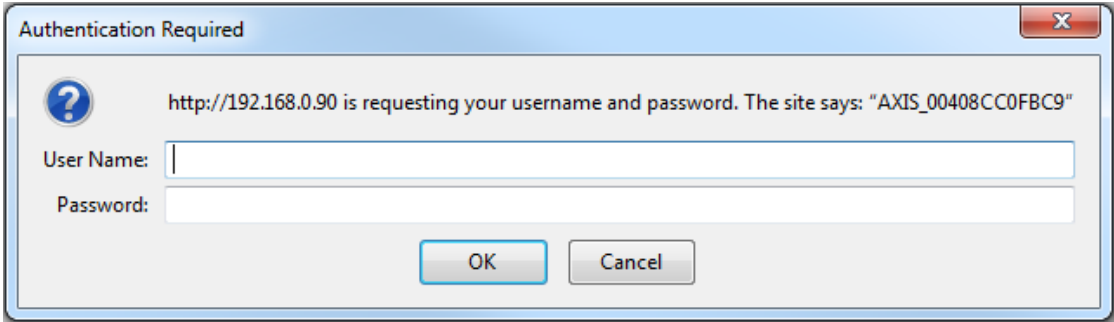
If the system asks for a further authentication, please type in the same password like before.



The screenshot shows the AXIS Communications web interface. At the top, there is the AXIS logo and the heading 'Create Certificate'. Below this, a message states: 'Secure configuration of the root password via HTTPS requires a self-signed certificate.' A button labeled 'Create self-signed certificate...' is visible. The next section is titled 'Configure Root Password using HTTP'. It contains a form with the following fields: 'User name:' with the value 'root', 'Password (max 64 characters):' with an empty input field, and 'Confirm password:' with another empty input field. An 'OK' button is located to the right of the confirm password field. At the bottom, there are two paragraphs of text: 'The password for the pre-configured administrator root must be changed before the product can be used.' and 'If the password for root is lost, the product must be reset to the factory default settings, by pressing the button located in the product's casing. Please see the user documentation for more information.'

Figure 9.3: Creating a user password

After setting the password please login to the video server:



The screenshot shows a standard Windows-style dialog box titled 'Authentication Required'. It contains a question mark icon and the text: 'http://192.168.0.90 is requesting your username and password. The site says: "AXIS_00408CC0FBC9"'. Below this text are two input fields: 'User Name:' and 'Password:'. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

Figure 9.4: Login to the video server

User name: root

Password: (your chosen password from before)

Depending on the installed language at the video server you can download a new language file or select the existing.



Figure 9.5: Selecting a language

In some cases a browser add-on is necessary to display the video stream.

Now you should see the live stream of the connected network camera number 1.

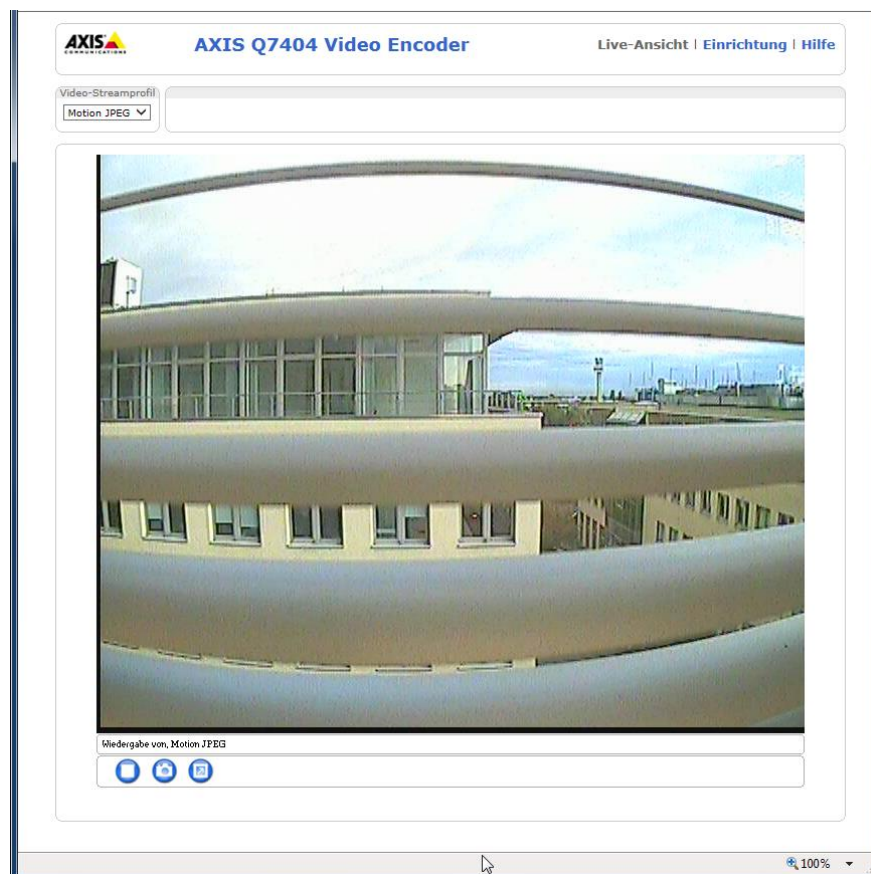


Figure 9.6: Picture of a connected network camera

9.3 Creating the user “admin”

For communicating with the data logger a special user is needed with administrator rights.

Click **[Setup]** (1) → **[Basic Setup]** → **[1 Users]** (2) → **[Add...]** (3).

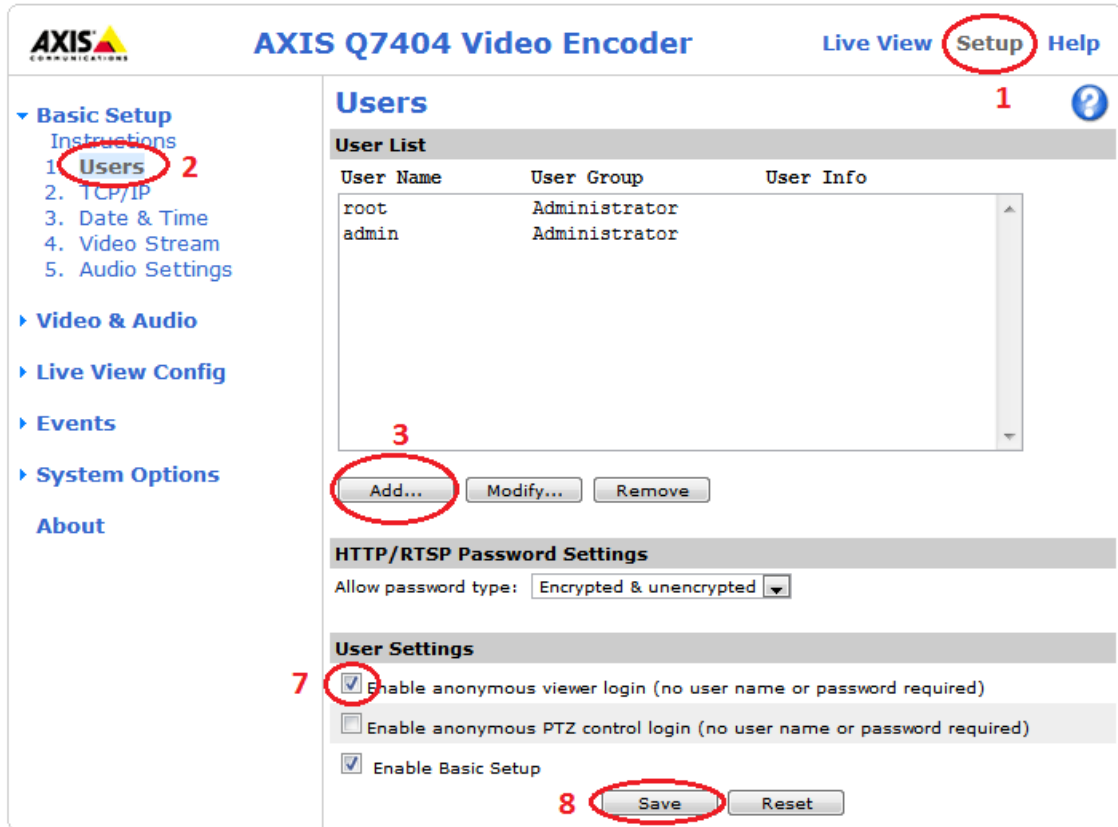
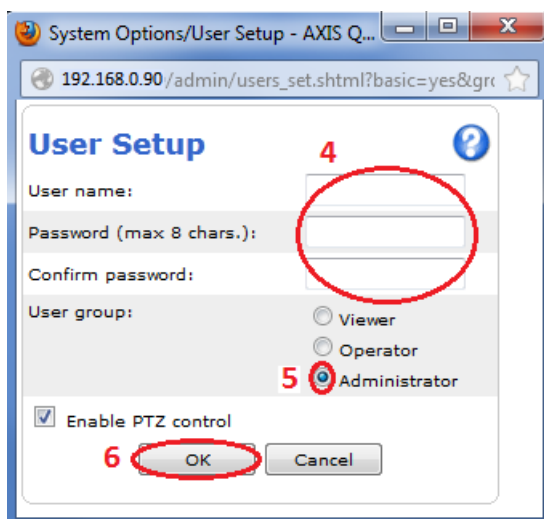


Figure 9.7: Adding a new user

A new window opens.



Name the new user “admin” and define a password (4). This user and password will be needed later too.

Recommended:

User name: admin
Password: 2x8bg4

Choose the <User group> (o) **Administrator** (5) and click **[OK]** (6).

Activate at <User Settings> the checkbox **Enable anonymous viewer login (no user name or password required)** (7). Confirm the settings with **[Save]** (8).

9.4 Setting date and time

Change to the entry **[Basic Setup] → [3. Date & Time] (9)**. Choose the <Time mode> **(o) Set manually (10)**. Set up date and time. Confirm the settings with **[Save] (11)**.

Comment:

The time set here is initially only a temporary adjustment. In our system the data logger is the time master and overwrites the logger time after successfully synchronizing with the video server.

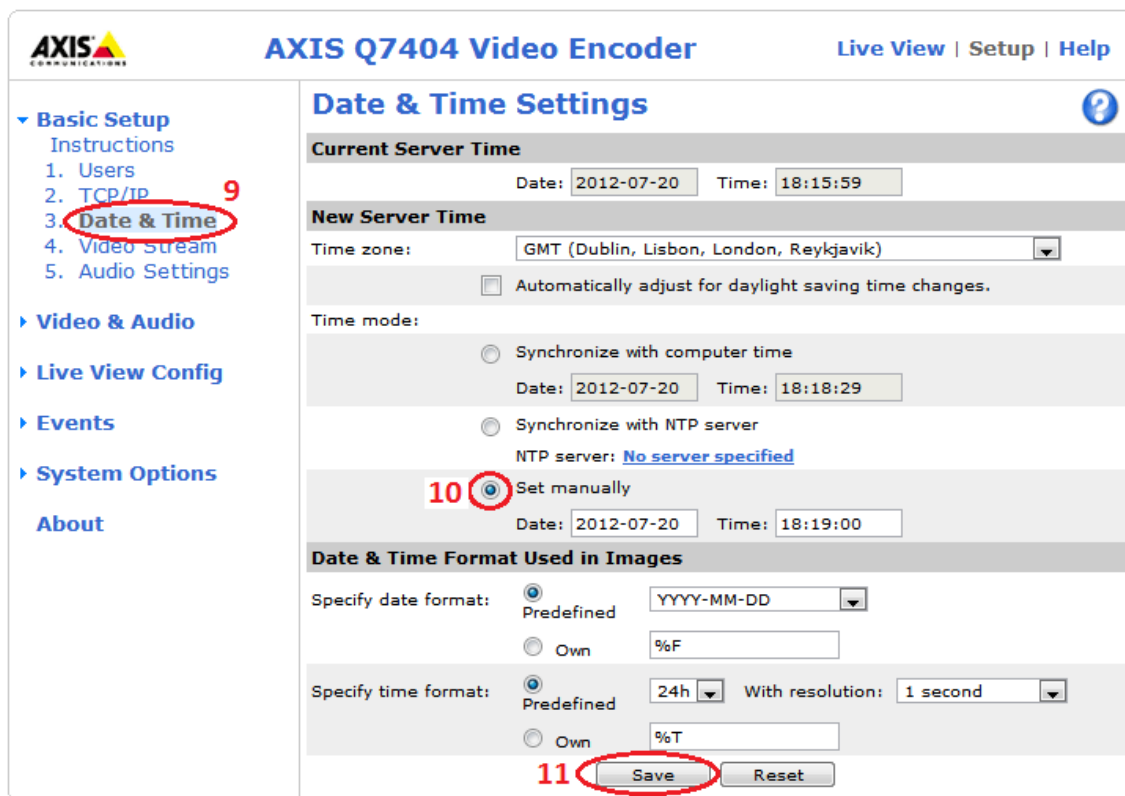


Figure 9.8: Set date and time manually

You can also display date and time on the video image.

Attention:

Before you start recording always set the date and time in the data logger first. It is impossible to change the timestamp at recorded video data. This means, the setup of a new logger time before downloading does not change the time within the video pictures. In this case, the timestamps of the other channels and the video picture timestamp could not match.

Click **[Basic Setup] → [4 Video Stream] (6)**. <----- Unterschied zu deutscher Version. Activate both checkboxes **Include date** and **Include time (7)** to activate the display on the video image. Confirm the settings with **[Save] (9)**.

If desired, change format options like <Text color>, <Text background color> and text place **(8)**. Confirm the settings with **[Save] (9)**.

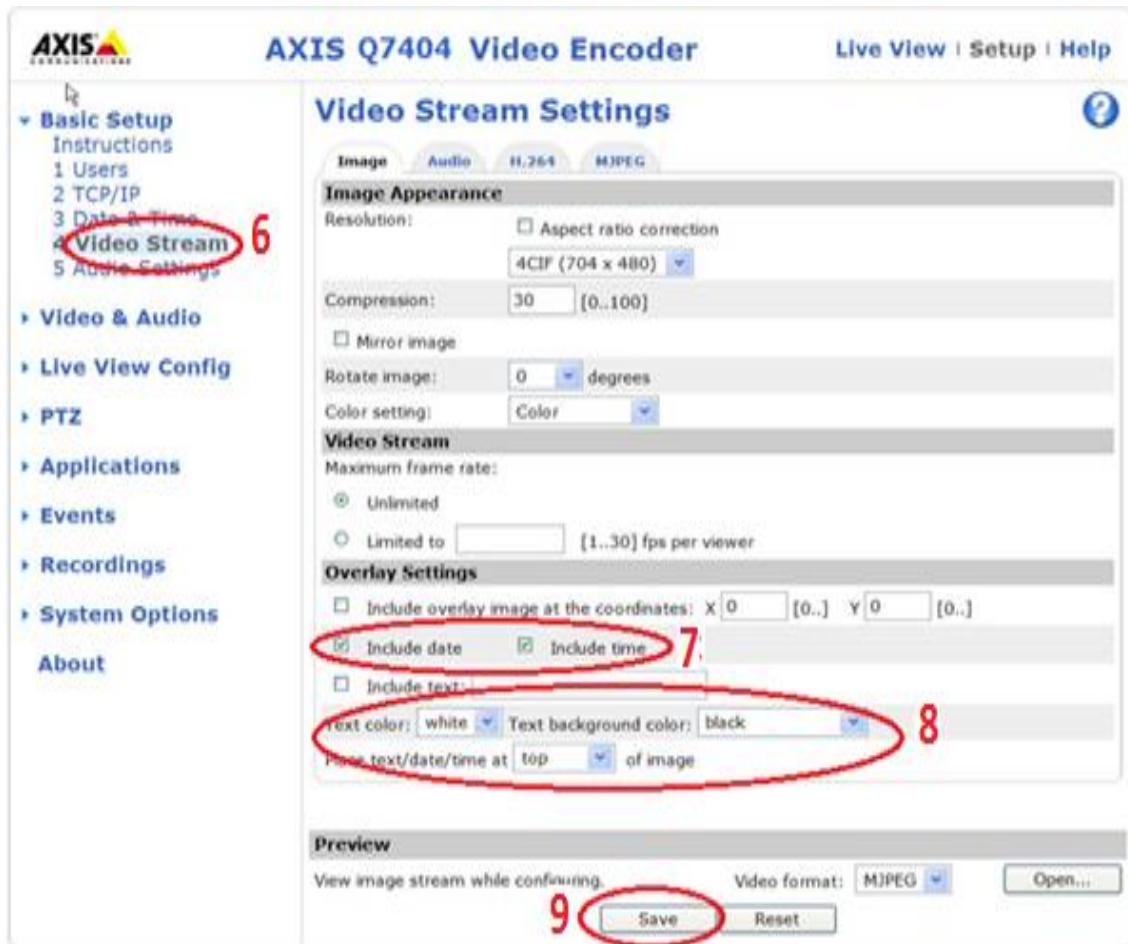


Figure 9.9: Including date and time in the video stream

The setup for in the video image embedded timestamps is finished.

Note:

In case that the video is stuttering or has breaks, please reduce the preset <Maximum frame rate>. Reducing to 15 or 20 fps eliminates the problem which is caused by to high frame rates especially with HD cameras.

9.5 IP configuration

Change to the entry **[Basic Setup] → [2. TCP/IP] (12)**. Choose the <IPv4 Address Configuration> **(o) Use the following IP address (13)**. Type in these data **(14)**:

IP address:	192.168.1.90
Subnet mask:	255.255.255.0

Confirm the settings with **[Save] (15)**.

The screenshot shows the web interface for the AXIS Q7404 Video Encoder. The left sidebar contains a navigation menu with 'Basic Setup' expanded to 'TCP/IP' (12). The main content area is titled 'Basic TCP/IP Settings'. Under 'Network Settings', there is a 'View' button. The 'IPv4 Address Configuration' section has a checked checkbox for 'Enable IPv4' and a radio button selected for 'Use the following IP address:' (13). The IP address field contains '192.168.1.90' and the Subnet mask field contains '255.255.255.0' (14). The 'IPv6 Address Configuration' section has an unchecked checkbox for 'Enable IPv6'. The 'Services' section has a checked checkbox for 'Enable ARP/Ping setting of IP Address' and a 'Settings...' button for 'AXIS Internet Dynamic DNS Service'. At the bottom, the 'Save' button is circled (15) and the 'Reset' button is also visible. A link for 'advanced TCP/IP settings' is at the bottom.

Figure 9.10: Setting an IP address

Note:

By changing the IP address you lose the connection to the video server.

This also will be told to you in an information window:

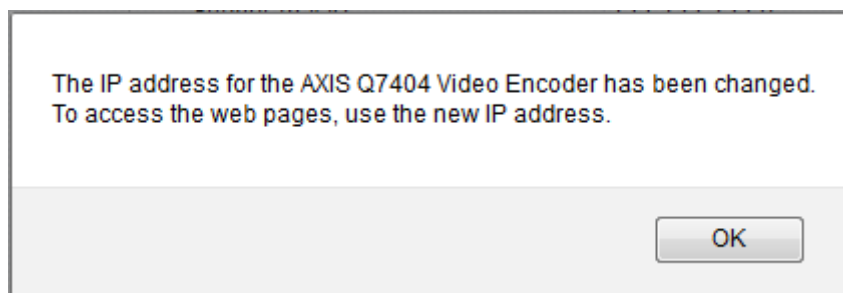


Figure 9.11: Hint

For reconnecting you have to change your computers IP address to **192.168.1.80**. Then type in your browser the new IP address of the network camera, to access the configuration again.

The first camera connected to the Video Encoder AXIS Q7404 is now configured. If more than one camera should be connected, the same changes for all connected cameras have to be done. Use the specified IP address in the following table for its respective camera.

	Camera 2	Camera 3	Camera 4
IP address	192.168.1.91	192.168.1.92	192.168.1.93
Subnet mask	255.255.255.0	255.255.255.0	255.255.255.0

Note:

Finally, change your PCs or laptops IP configuration back to dynamic configuration.

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10 Configuring the Video Encoder AXIS P7214

10.1 Connecting the Video Encoder AXIS P7214

Connect the required cameras with the Video Encoder. The BNC connectors of the Video Encoder are numbered. Always start with the first connector.

Connect the power supply to the Video Encoder. Connect your PC or laptop via Ethernet cable to the Video Encoder. Turn on the power supply. All LEDs should light green after about 60 seconds.

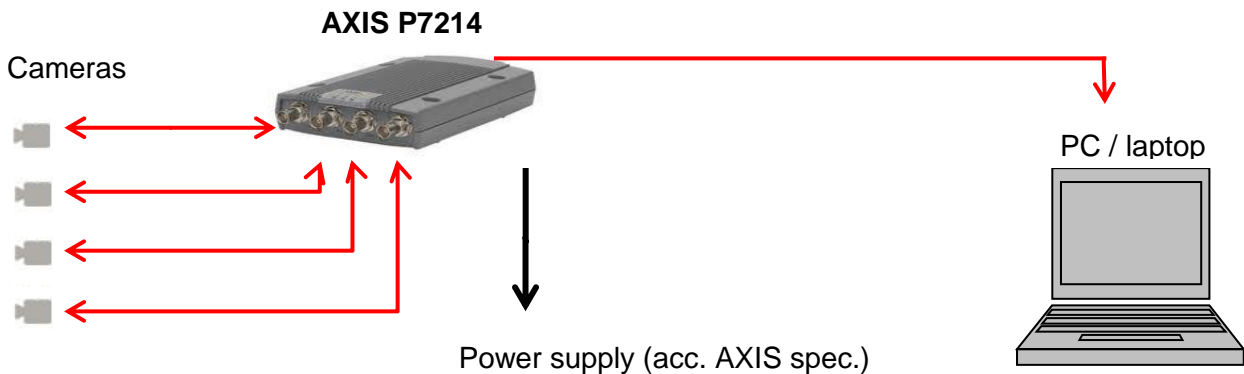


Figure 10.1: Connecting a Video Encoder

Change your PC's IP configuration. Use static IP address with the following settings:

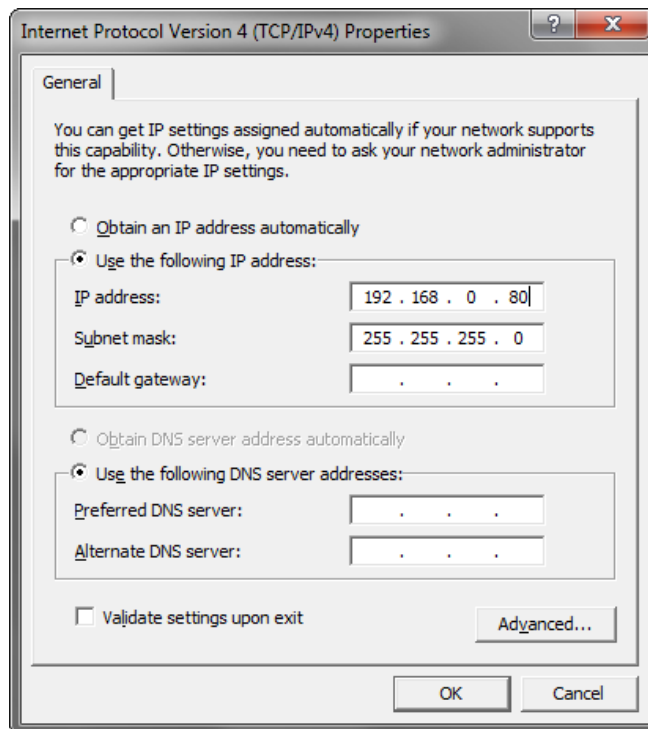


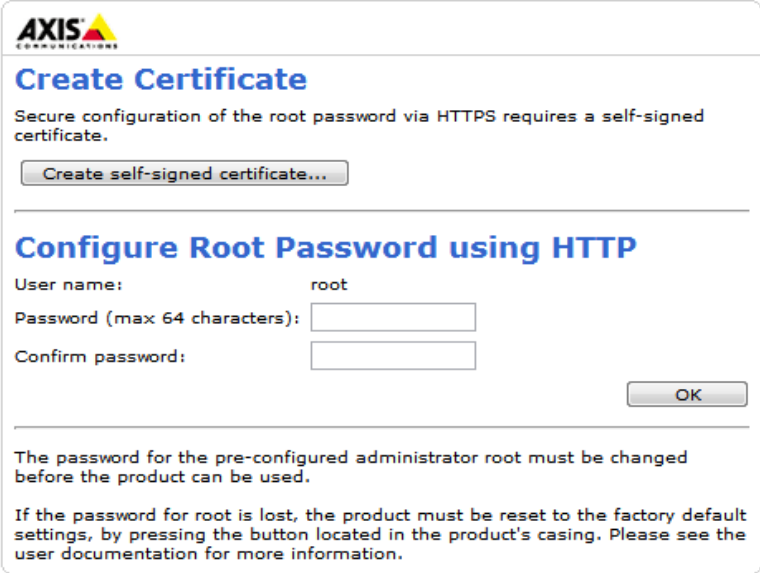
Figure 10.2: Setting a static IP address

10.2 Access to the Video Encoder AXIS P7214

Open your browser and type in the preset IP address of the video server: **192.168.0.90**.

Choose your password and type it in. This password will be needed later.

If the system asks for a further authentication, please type in the same password like before.



AXIS
COMMUNICATIONS

Create Certificate

Secure configuration of the root password via HTTPS requires a self-signed certificate.

Configure Root Password using HTTP

User name: root

Password (max 64 characters):

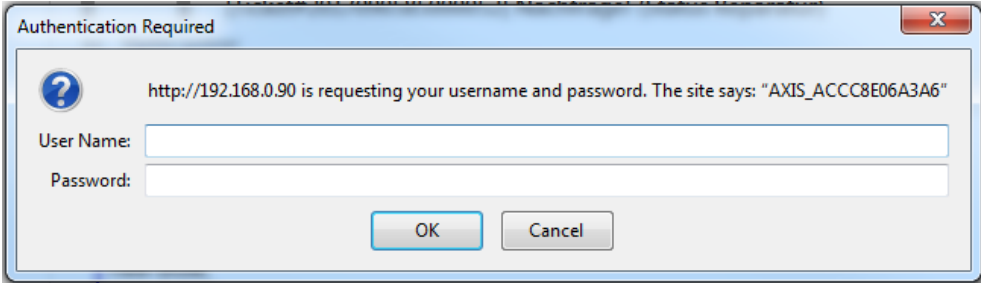
Confirm password:

The password for the pre-configured administrator root must be changed before the product can be used.

If the password for root is lost, the product must be reset to the factory default settings, by pressing the button located in the product's casing. Please see the user documentation for more information.

Figure 10.3: Selecting a user password

After setting the password please login to the video server:



Authentication Required

http://192.168.0.90 is requesting your username and password. The site says: "AXIS_ACC8E06A3A6"

User Name:

Password:

Figure 10.4: Login to the video server

User name: root

Password: (your chosen password from before)

Depending on the installed language at the video server you can download a new language file or select the existing.

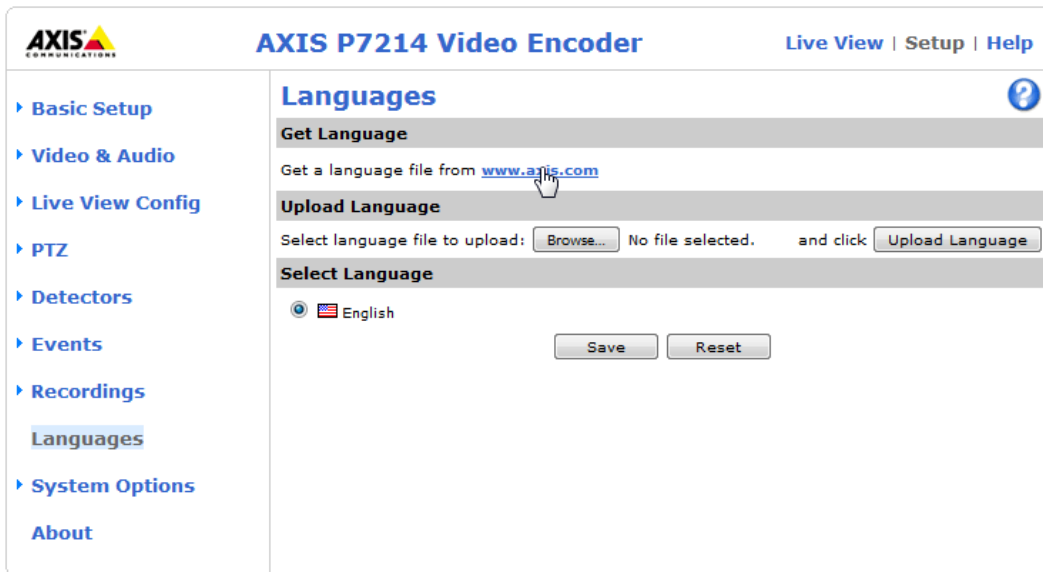


Figure 10.5: Select a language

In some cases a browser add-on is necessary to display the video stream.

Now you should see the live stream of the connected network camera number 1.

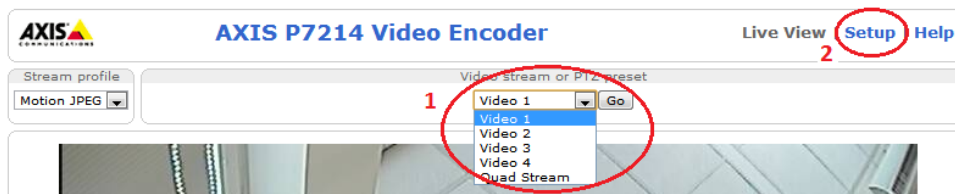


Figure 10.6: Display a video stream

To have a look at the other cameras open the dropdown menu on top and select the one you want to see or to see the videos of all four cameras in one screen click **[Quad Stream]**.

10.3 Creating the user “admin”

For communicating with the data logger a special user is needed with administrator rights.

Click [Setup] (1) → [Basic Setup] → [1. Users] (2) → [Add...] (3).

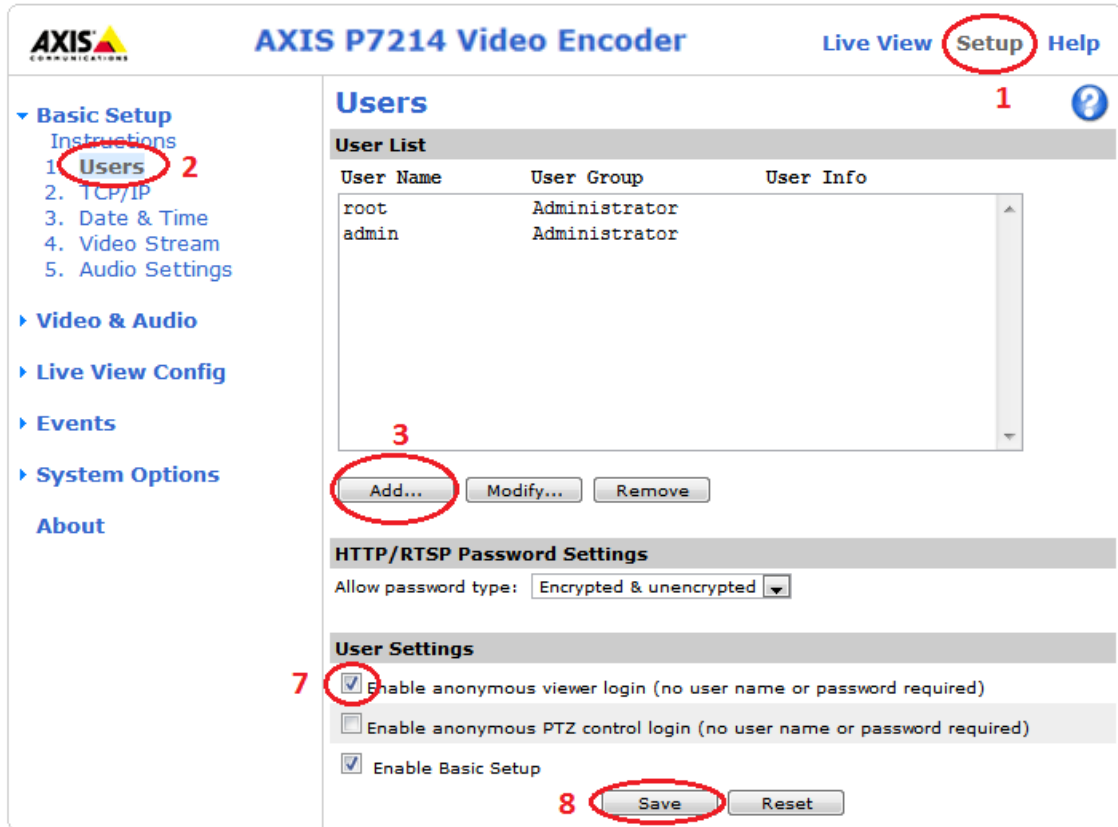
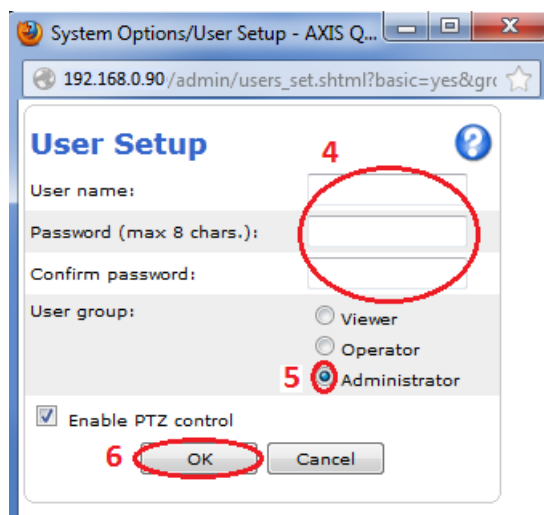


Figure 10.7: Adding a new user



A new window is opened.

Name the new user “admin” and define a password (4). This password will be needed later.

Recommended:

User name: admin
Password: 2x8bg4

Choose the <User group> (o) Administrator (5) and click [OK] (6).

Figure 10.8: Choose a password for the new user

Activate at <User Settings> the checkbox **Enable anonymous viewer login (no user name or password required)** (7). Confirm the settings with [Save] (8).

10.4 Setting date and time

Change to the entry **[Basic Setup] → [3. Date & Time] (9)**. Choose the <Time mode> **(o) Set manually (10)**. Set up date and time. Confirm the settings with **[Save] (11)**.

Comment:

The time set here is initially only a temporary adjustment. In our system the data logger is the time master and overwrites the logger time after successfully synchronizing with the video server.

The screenshot shows the 'Date & Time Settings' page for an AXIS P7214 Video Encoder. The left sidebar contains a navigation menu with 'Date & Time' highlighted. The main content area shows 'Current Server Time' (Date: 2012-07-20, Time: 18:15:59) and 'New Server Time' settings. Under 'Time mode', the 'Set manually' option is selected. The 'Date & Time Format Used in Images' section shows 'Specify date format' set to 'Predefined' with 'YYYY-MM-DD' and 'Specify time format' set to 'Predefined' with '24h' and 'With resolution: 1 second'. The 'Save' button is circled in red.

Figure 10.9: Set date and time manually

You can also display date and time on the video image.

Attention:

Before you start recording always set the date and time in the data logger first. It is impossible to change the timestamp at recorded video data. This means, the setup of a new logger time before downloading does not change the time within the video pictures. In this case, the timestamps of the other channels and the video picture timestamp could not match.

Click **[Basic Setup] → [4 Video Stream] (6)**. Activate both checkboxes **Include date** and **Include time (7)** to activate the display on the video image. Confirm the settings with **[Save] (9)**.

If desired, change format options like <Text color>, <Text background color> and text place **(8)**. Confirm the settings with **[Save] (9)**.

The screenshot shows the configuration page for the AXIS P7214 Video Encoder. The left sidebar contains a navigation menu with 'Video Stream' highlighted and circled in red, with a red '6' next to it. The main content area is titled 'Video Stream Settings' and has tabs for 'Image', 'Audio', 'H.264', and 'MJPEG'. The 'Image' tab is active. Under 'Image Appearance', 'Resolution' is set to '4CIF (704 x 480)'. Under 'Video Stream', 'Maximum frame rate' is set to 'Unlimited'. In the 'Overlay Settings' section, 'Include date' and 'Include time' are checked and circled in red, with a red '7' next to them. Below this, 'Text color' is set to 'white' and 'Text background color' is set to 'black', both circled in red, with a red '8' next to them. At the bottom, the 'Save' button is circled in red, with a red '9' next to it.

Figure 10.10: Include date and time in the video stream

The setup for in the video image embedded timestamps is finished.

Note:

In case that the video is stuttering or has breaks, please reduce the preset <Maximum frame rate>. Reducing to 15 or 20 fps eliminates the problem which is caused by too high frame rates especially with HD cameras.

10.5 IP configuration

Change to the entry **[Basic Setup] → [2 TCP/IP] (3)**. Choose the <IPv4 Address Configuration> **(o) Use the following IP address (4)**. Type in these data **(5)**:

IP address:	192.168.1.90
Subnet mask:	255.255.255.0

Confirm the settings with **[Save] (6)**.

The screenshot shows the 'Basic TCP/IP Settings' page for the AXIS P7214 Video Encoder. The left sidebar contains a navigation menu with 'Basic Setup' expanded, showing '2 TCP/IP' circled in red. The main content area is titled 'Basic TCP/IP Settings' and includes sections for 'Network Settings', 'IPv4 Address Configuration', 'IPv6 Address Configuration', and 'Services'. In the 'IPv4 Address Configuration' section, the radio button for 'Use the following IP address:' is selected and circled in red. Below it, the 'IP address' field contains '192.168.1.90' and the 'Subnet mask' field contains '255.255.255.0', both circled in red. At the bottom of the page, the 'Save' button is circled in red. The 'Services' section includes options for 'Enable ARP/Ping setting of IP Address' and 'Enable AVHS', both checked.

Figure 10.11: Setting an IP address

Note:

The video server AXIS P7214 has only one IP address. The camera configuration automatically changes the settings of the other cameras. It is therefore unnecessary to set the other cameras.

Note:

By changing the IP address you lose the connection to the video server.

This also will be told to you in an information window:

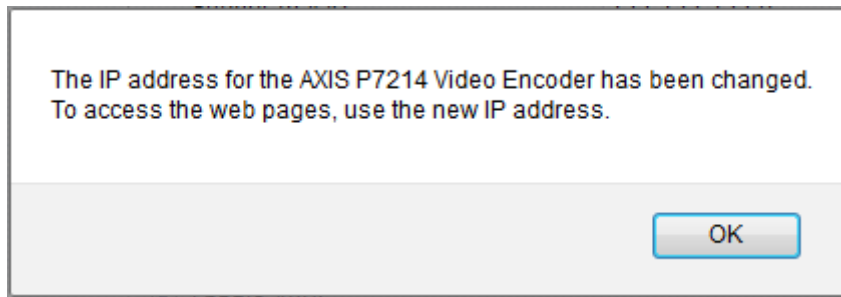


Figure 10.12: Hint

For reconnecting you have to change your computers IP address to **192.168.1.80**. Then type in your browser the new IP address of the network camera, to access the configuration again.

Note:

Finally, change your PCs or laptops IP configuration back to dynamic configuration.

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11 Save and restore the Video Encoder settings

To save all settings of the AXIS video server you can use the program “AXIS Camera Management”, which can be downloaded on the website of AXIS (registration required).

Needed software: AXIS Camera Management v2.00.31

<http://www.axis.com/techsup/software/index.htm> or
http://www.axis.com/de/products/cam_mgmt_software/interface.htm

Attention:

If you use a newer version of the program it may be that the communication between software client and data logger is disturbed. That is because the program changes some network settings, so UDP pings are not correctly transferred from the logger to the AXIS Camera Management Client.

In this case the older version (mentioned above) should be used or the program should be uninstalled after the saving.

After installing the software you can start it by using [Start] → [AXIS Camera Management] → [AXIS Camera Management Client].

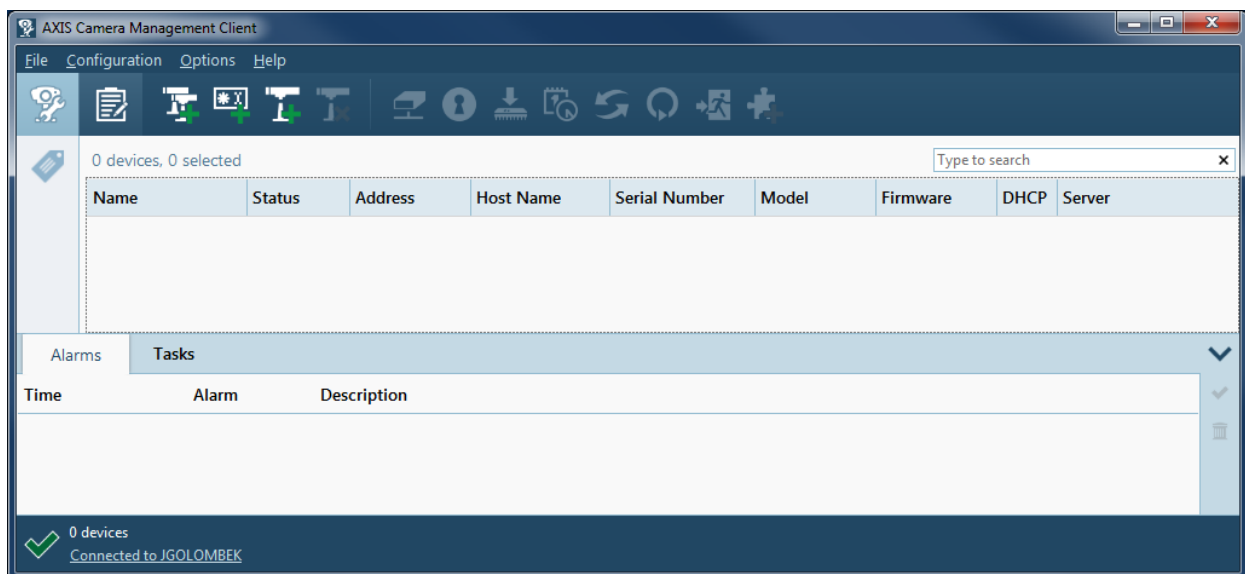


Figure 11.1: AXIS Camera Management Client

You can add your device by clicking [Add devices].



Figure 11.2: Adding devices step 1

After selecting your device and logging in with your chosen password for the user “root” from before you add the device to the device list with [Next >] and [Finish] in the next window.

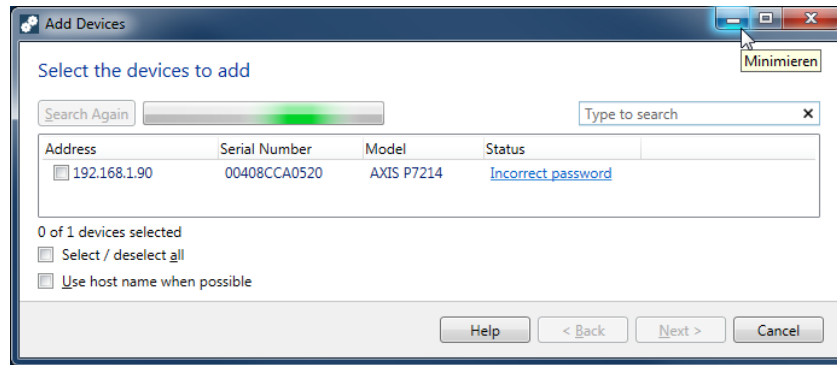


Figure 11.3: Adding devices step 2

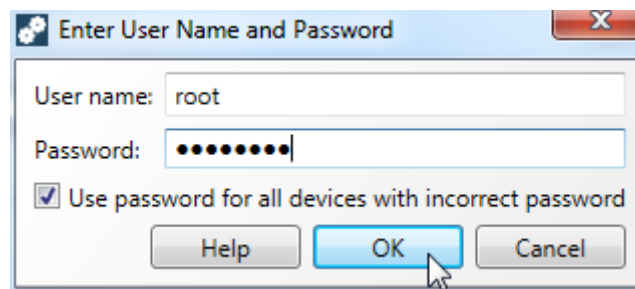


Figure 11.4: Adding devices step 3

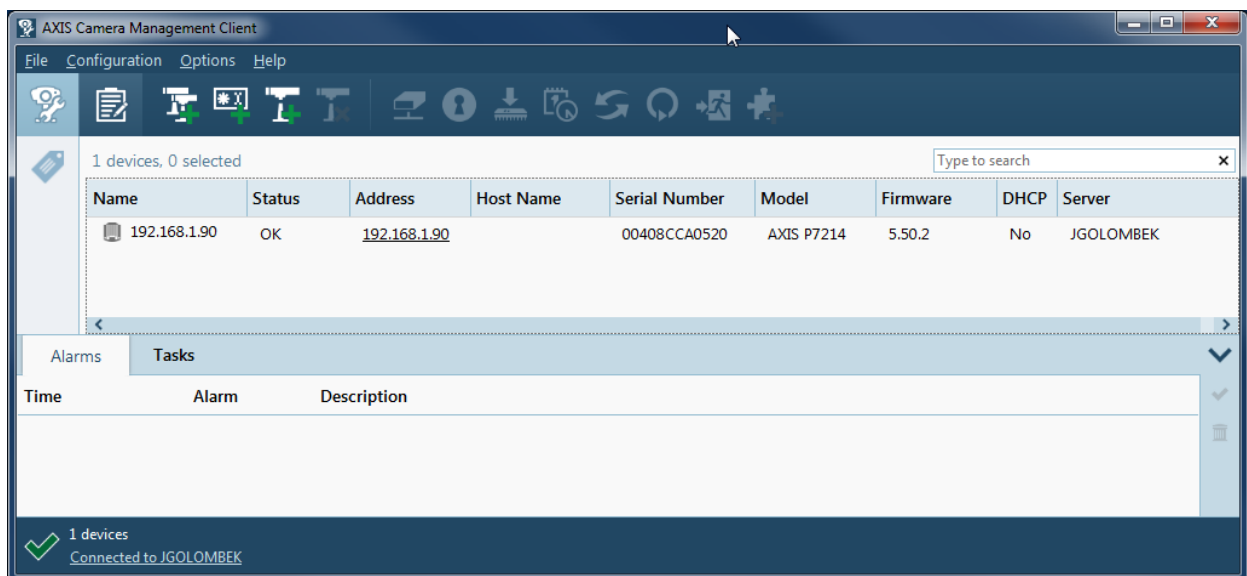


Figure 11.5: Device added

To save the current settings please right click your device. In the shortcut menu select **[Parameter Management]** → **[Create Parameter File...]**.

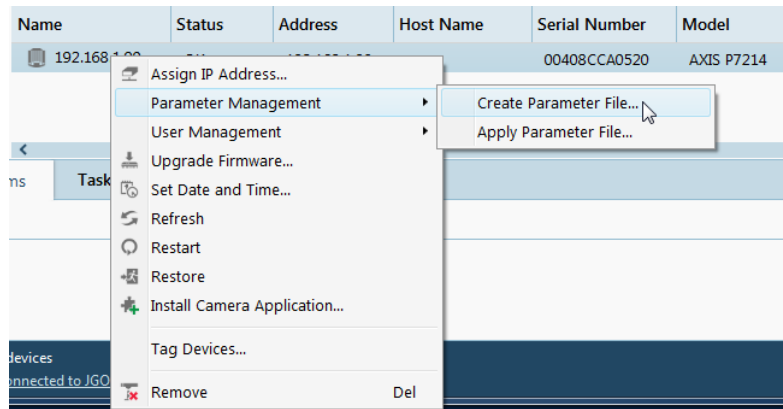


Figure 11.6: Creating Parameter File

The program reads the configuration from the video server. Activate the checkbox **Select / Deselect all** and then click **[Save]** to save the configuration to your local system.

To restore the saved settings to your device select **[Parameter Management] → [Apply Parameter File...]** in the shortcut menu of the device.

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12 Resetting the Video Encoder AXIS Q7404 / P7214

If something is configured incorrectly in the camera or the password is lost, it is important to reset the video server for a new configuration. This will reset all parameters in all four video channels (including all IP addresses) to the factory default settings.

First disconnect the power supply from the AXIS Video Encoder. Then press and hold the **[RESET]** button (1) while reconnecting with the power supply.

AXIS Q7404

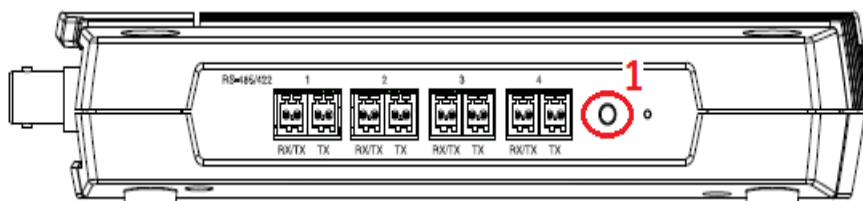


Figure 12.1: Reset button AXIS Q7404

AXIS P7214

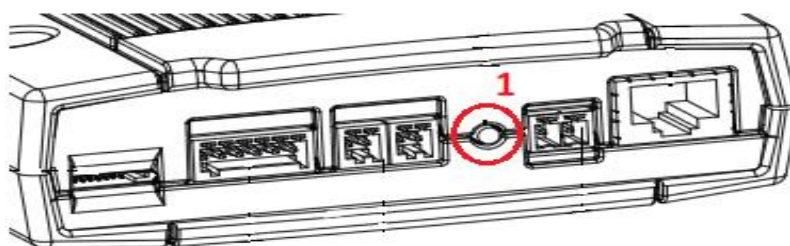


Figure 12.2: Reset button AXIS P7214

Keep the **[RESET]** button (1) pressed.
The STATUS LED turns yellow. This may take up to 15 seconds.

Release the **[RESET]** button (1) when the STATUS LED lights permanently green. This may take up to one minute.

The video server is set back to factory default settings and can be configured again.

13 Connecting video equipment to the data logger

Depending on the logger model you have several ways to connect the network camera or Video Encoder to the logger.

BLUEPIRAT Mini: It is possible to use one of the front Ethernet ports (**ETH #1 / TSL** or **ETH #2 / TSL**) or one of the back ports (**ETH #3** or **ETH #4**).

BLUEPIRAT2 5E: It is possible to use the front Ethernet port (**ETH #1 / TSL**) or one of the back ports (**ETH #2** to **ETH #5**).

BLUEPIRAT2: It is possible to use the **Gigabit-Ethernet** port on the front side or the **Ethernet kit** on the back.

At the BLUEPIRAT2 / BLUEPIRAT2 5E the back ports should be preferred. In this case the front port still can be used for access to the logger while the Video Encoder is recording data. This alternative is described in the following.

Connect the Gigabit-Ethernet port of the logger via an Ethernet cable with the Ethernet port of your PC / laptop. The data logger is configured as a DHCP server by default. Connect the logger via the affiliated power harness (**red/+/clamp 30** and **black/-/clamp 31**) with a power supply (e.g., the vehicle battery). Connect the Ethernet kit with the FCI port of the BLUEPIRAT2 (rear side). Connect the Ethernet kit with the network camera or the Video Encoder. When using a Video Encoder the network camera can be connected to its BNC connector number 1. Connect the Video Encoder and if required even the network camera to the according power supply. The Video Encoder is starting. Wait until all its LEDs turn green.

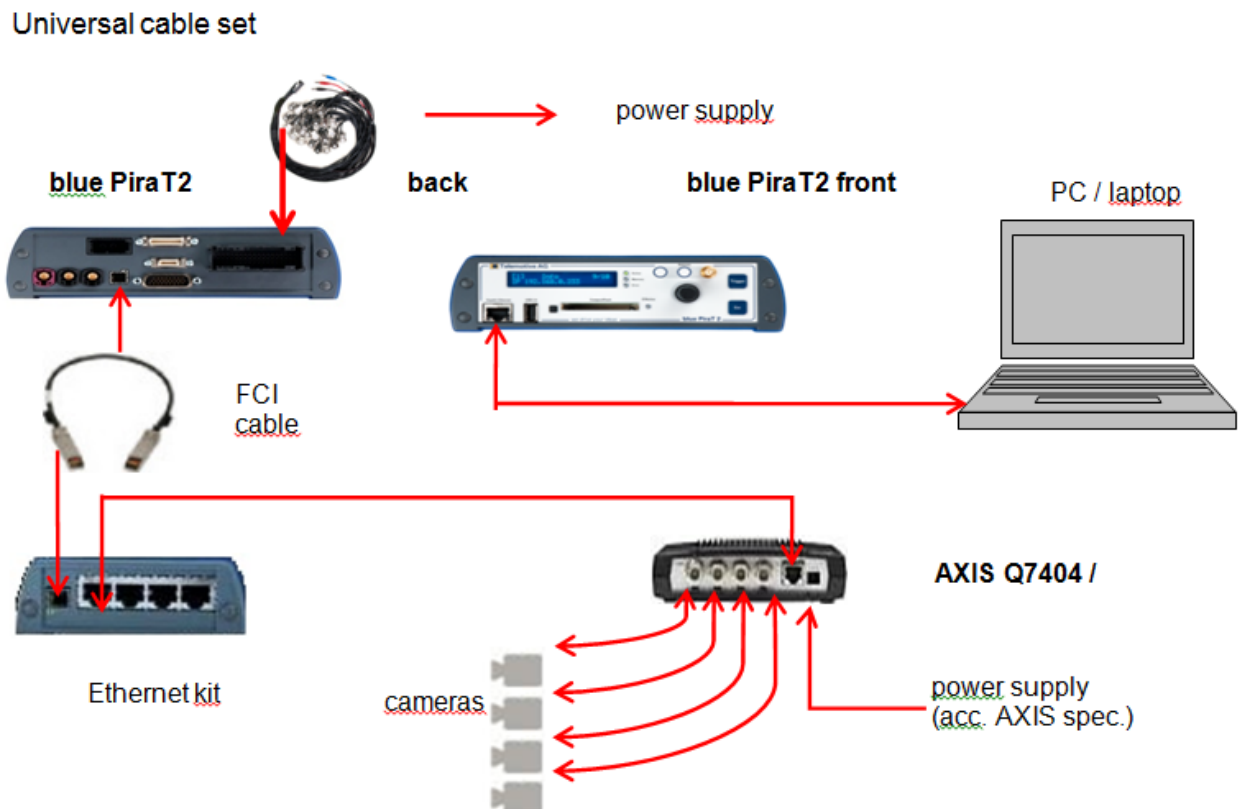


Figure 13.1: Connecting video equipment to a data logger

14 Configuring the data logger

14.1 General settings

The logger should be configured as DHCP server, if it is not already configured accordingly (default value).

Therefore click on the application **[Open configuration] (5)** in the System Client. Expand the folder **[General]** in the window to the right and click on **[Network settings]**. Enable the <DHCP mode> **(o) DHCP server** or **(o) Automatic DHCP Configuration for TSL**.

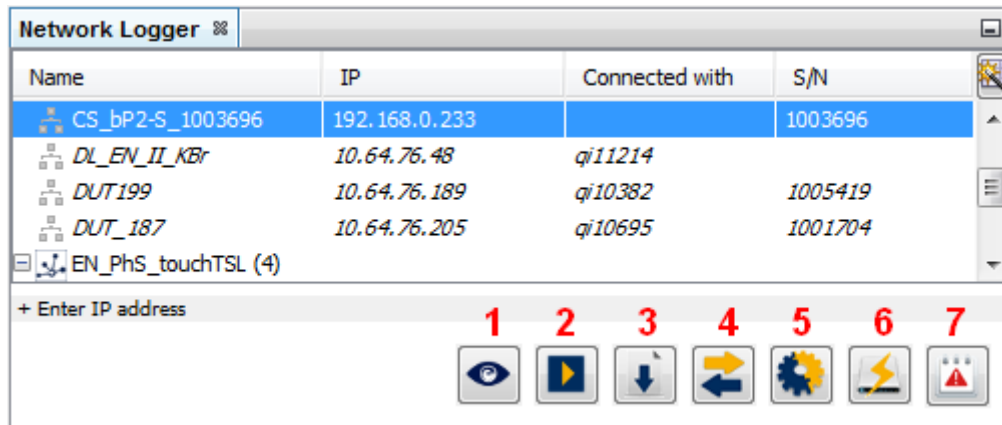


Figure 14.1: Selecting an application in the System Client

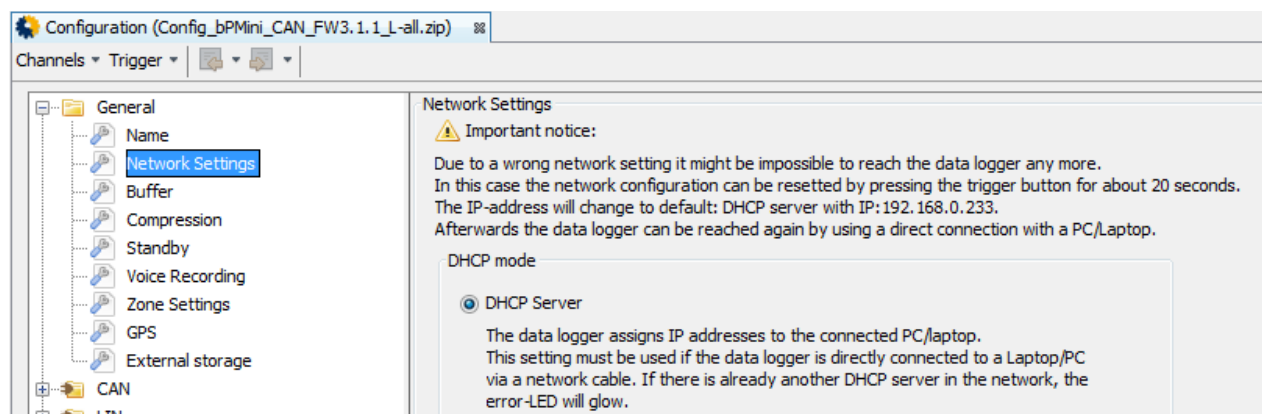


Figure 14.2: Setting the network settings in the System Client

Please be sure about the setting of the logger's standby.

You can activate or deactivate the automatic standby at **[General] → [Standby]**. If active, there are two different time settings for network connection.

If the data logger is not connected to a network at the front Ethernet port and does not receive any data during the timeout entered in the upper text field, then it shuts down and enters standby mode.

If the data logger is connected to a network at the front Ethernet port with active link and does not receive any data during the timeout entered in the lower text field, then it shuts down and enters standby mode.

This has important implications when using the camera function since Ethernet is required. If you activated the automatic standby, no further channels are connected or they are inactive, the logger shuts down and enters standby mode according to the lower time indication despite the video recording. So you have two options:

- Deactivating the automatic standby and shifting the device to standby manually, if necessary or
- Configuring a channel (e.g., CAN channel), whose activity coincides with the camera activity.

14.2 Camera settings

14.2.1 Camera | General settings

Click on the application **[Open configuration]** in the System Client. Expand the folder **[Camera]** in the window to the right and click on **[General settings]**.

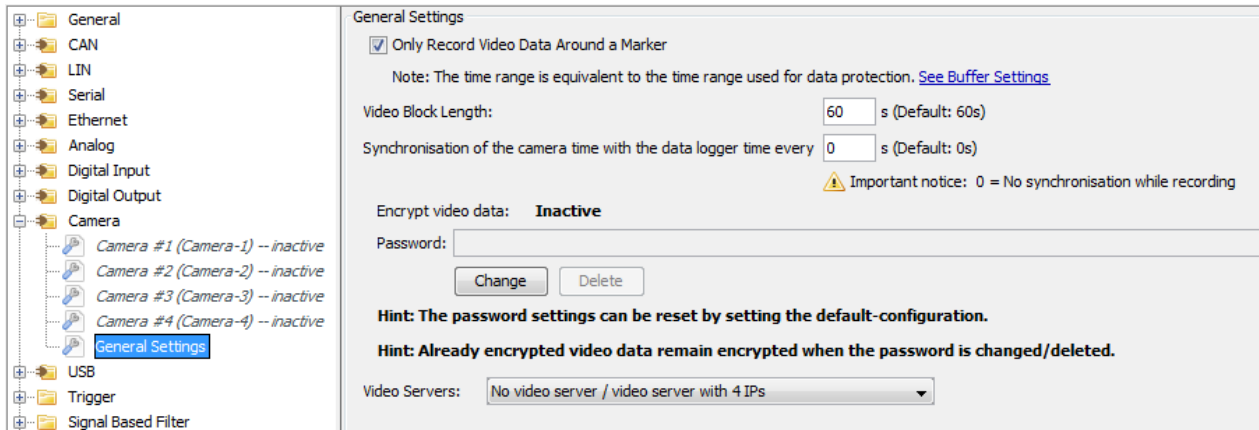


Figure 14.3: Camera => General settings

If the checkbox for **Only record video data around a Marker** is:

- activated: the logger records no data, except these around a Marker.
- deactivated: the logger always records all video data.

You can define the time range around a marker under **[General] => [Buffer]**:

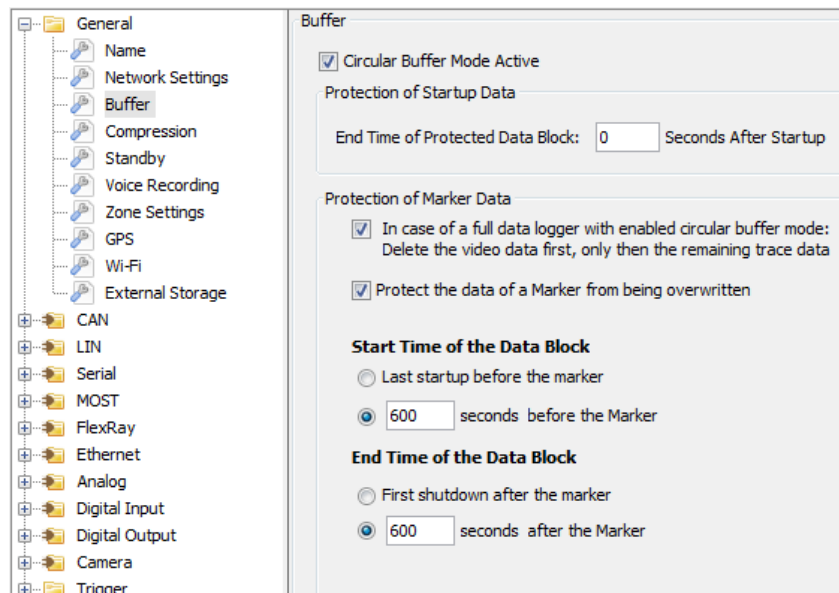


Figure 14.4: Setting the time range around a marker

General Settings

Only Record Video Data Around a Marker

Note: The time range is equivalent to the time range used for data protection. [See Buffer Settings](#)

Video Block Length: s (Default: 60s)

Synchronisation of the camera time with the data logger time every s (Default: 0s)

Important notice: 0 = No synchronisation while recording

Encrypt video data: **Inactive**

Password:

Hint: The password settings can be reset by setting the default-configuration.

Hint: Already encrypted video data remain encrypted when the password is changed/deleted.

Video Servers:

Figure 14.5: Camera => General settings

To record video blocks of certain length, type in your desired value in seconds at **<Video block length>**.

The field **<Synchronisation of the camera time with the data logger time every [] s>** allows defining his time range.

Note:

If there are some gaps in the recording it may be caused by this synchronisation. In this case please deactivate the synchronization by inserting *0* into the field.

If you use more than one single camera like Axis 207/210/211 the synchronisation must be enabled to guarantee a synchronised recording of all cameras.

14.2.1.1 Encrypting video data

If the video data should be encrypted, the Client offers the possibility to set, change or delete a password in this field:

Encrypt video data: **Inactive**

Password:

14.2.1.2 Setting the video server

In the dropdown menu at **<Video Servers>** select the connected network camera / Video Encoder. The following options are available:

Option 1: No video server / video server with 4 IPs
AXIS Q7404 / 207 / 210 / 211 / P12 series / F41

Option 2: Video server with one IP and 4 channels
AXIS P7214 / F44

Option 3: Video server with one IP and one *quad* channel
AXIS P7214 / F44

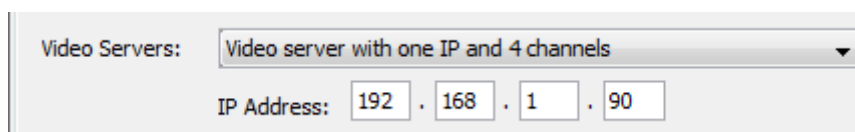
Note:

Quad channel means that up to 4 video streams are recorded in one window.

Attention:

With the setting Quad-View, the same maximum frame rate must be set for all cameras! You can find this setting in the camera configuration under Axis Setup => Basic Setup => Video Stream => Camera 1, Camera 2,... At different frame rates, otherwise connection breaks may occur.

If you select **option 2** or **3**, please type the IP address of the AXIS P7214 / F44 in the approaching fields below.



The screenshot shows a configuration window for 'Video Servers'. A dropdown menu is set to 'Video server with one IP and 4 channels'. Below the dropdown, the 'IP Address' field is filled with the values '192', '168', '1', and '90' separated by dots.

Figure 14.6: Setting an IP address

14.2.1.3 Configuring the cameras

In the folder **[Camera]** click **[Camera #1] (1)** and activate the checkbox for **Camera interface active (2)**. Choose the connector **(3)** depending on the Ethernet port the Video Encoder / network camera is connected to. Enter the Video Encoders / network cameras IP address **(4)**. If the AXIS P7214 is used, the IP address is already specified in the general settings. It is taken from there.

If you have chosen to use the recommended user and password, you can activate the checkbox for **Default password (5)**.

If you have chosen to use your own password, deactivate the checkbox for **Default password (5)** and type in your chosen “admin” password from before **(6)**.

Type in the additional IP-alias of the data logger **(7)**. The data logger has to be in the same subnet as the Video Encoder / network camera.

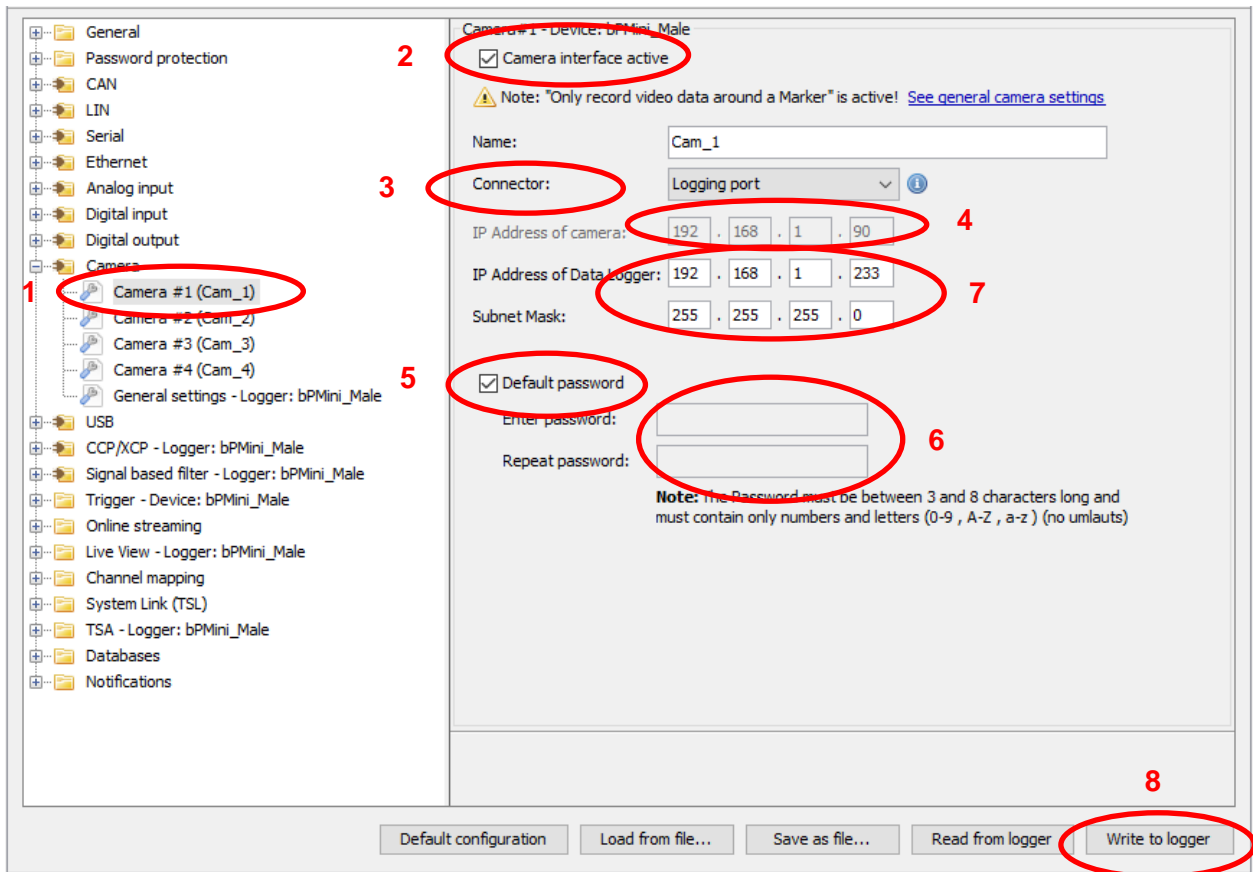


Figure 14.7: Configuring the cameras

If you have selected **No video server / video server with 4 IPs** under **[General]**, make the same changes for all connected cameras with the following IP addresses:

	Camera 1	Camera 2	Camera 3	Camera 4
AXIS Q7404, 207, 210, 211	192.168.1.90	192.168.1.91	192.168.1.92	192.168.1.93
AXIS P1204, F41	192.168.1.90	192.168.1.90	192.168.1.90	192.168.1.90
AXIS P7214, F44, FA54	192.168.1.90	192.168.1.90	192.168.1.90	192.168.1.90

After setup click on the button **[Write to logger] (8)**.

The configuration is finished. The logger starts recording the video signal as configured.

14.3 Front display of BLUEPIRAT2

With the [OFF / Esc] button at the front of the data logger the main window appears on the display. By switching the rotary knob you can change the displayed interfaces. There you can see the configuration of the four cameras, represented by "VID" and meaning video. Each sign after the word "VID" is placed for one video channel.

Three cases are listed:

Case 1

"-" means, the camera license is installed but no configuration has been performed. All four channels are however recognized.



Figure14.8: Display: VID ----

Case 2

„X“ means, all parameters are configured. The video data are not recorded or there is no connection between logger and server. The following figure shows that camera 1 and 2 are configured but not recorded and camera 3 and 4 are not activated.



Figure14.9: Display: VID XX--

Case 3

„T“ means, logger and server are connected and the videos are recorded. The following figure shows that camera 1 and 2 are recording and camera 3 and 4 are not configured.



Figure14.10: Display: VID TT--

Does the data recording runs without errors, there should always be shown a "T" (Traffic).

15 Downloading video data

The System Client application allows downloading and saving the recorded data as offline data set from the logger on the computers disk to use it later or to convert the data directly from the logger. (see chapter 16)

Download and conversion of data is explained in detail in the **System Client User Guide**. This manual you can find in the ServiceCenter of MAGNA Telemotive GmbH or directly under this link:

https://sc.telemotive.de/4/uploads/media/TelemotiveSystemClient_UserManual.pdf

While all of the other trace files are recorded in the Telemotive format from the logger, video signals are directly provided as MPEG4 stream from the camera and saved as it is on the logger.

For the video application, there is a special characteristic about the video block length. If you select a time period or a marker for download, so the downloaded data does not match exactly to the expected start- and end time. The reason is that the video block length of 60 seconds does not match exactly to the selected download time. The system always downloads complete video blocks. The downloaded video is in all cases longer than selected. It starts earlier and ends later than the selected period. But the selected time is always included.

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16 Converting video data

The System Client additionally allows to save data from the logger in a requested format on a PC or external storage device. Because video signals are directly provided as MPEG4 stream there is no direct conversion possible.

This document describes only the specifics for the video conversion.

The conversion can left the video blocks separate (untouched) or converted to one video file. Choose the required option in the client output window (4).

For both options the result will be the “.mpeg4” video format.

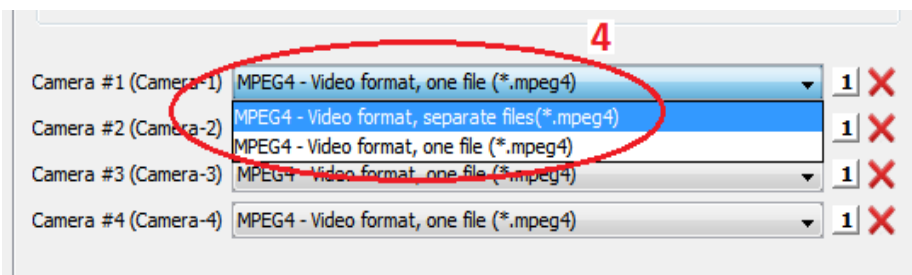


Figure 16.1: Settings for converting video data in the System Client

The System Client can also convert offline data, which are downloaded already from the data logger. Only an installed client is necessary.

In the tab <Favorites> click the green [+] (1) and choose the main download folder. The download folder appears (2). Double clicking the main folder (3) will open the conversion tab.

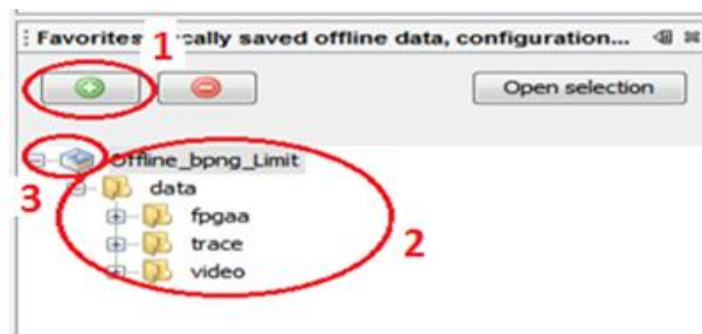


Figure 16.2: Choose an offline dataset

Like this you can convert every part of an offline data set at any time.

17 Watching videos

The .mpeg4 video files cannot be watched with the data logger. They can be used only if they have been downloaded or converted and saved to a computers disk first.

They can be played on any standard video player.

Note:

In case that the video is stuttering or has breaks, please reduce the preset <Maximum frame rate>. Reducing to 15 or 20 fps eliminates the problem which is caused by to high frame rates especially with HD cameras.

18 Axis IP Utility

is a small tool that you can download from the Axis Homepage over the following link:

<http://www.axis.com/global/en/support/downloads/axis-ip-utility>

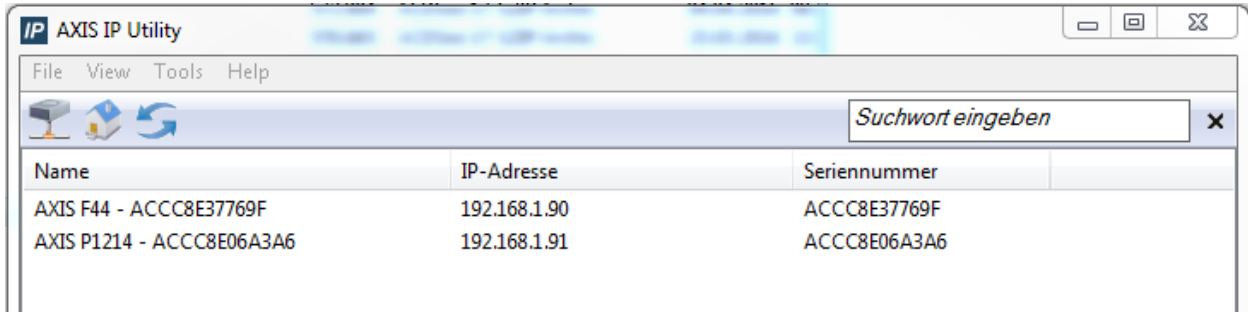


Figure 18.1: Axis IP Utility

AXIS IP Utility helps you set the IP address of an Axis network video product. Axis devices on the network are automatically discovered and displayed. Assign network parameters (IP Address, Subnet mask and Default router) or configure the device to obtain its IP address from DHCP.

The Axis device and the client computer must be on the same subnet/network segment.

19 Abbreviations

Kürzel / abbreviation	Bedeutung / meaning
blue PiraT	Processing Information Recording Analyzing Tool
bP	blue PiraT => BLUEPIRAT
bP2	blue PiraT2 => BLUEPIRAT2
bP2 5E	blue PiraT2 5E => BLUEPIRAT2 5E
bPMini	blue PiraT Mini => BLUEPIRAT Mini
RC Touch	Remote Control Touch
bP Remote	blue PiraT Remote => BLUEPIRAT Remote
bP Rapid	BLUEPIRAT Rapid
A2L	ASAM MCD-2 MC Language
AE	Automotive Electronics
ACK	ACKnowledged
CAN	Controller Area Network
CCP	CAN Calibration Protocol
CF	Compact Flash
CRO	Command Receive Object
DAQ	Data Acquisition
DTO	Data Transmission Object
ECL	Electrical Control Line
ECU	Electronic Control Unit
FIBEX	Field Bus Exchange Format
FW	Firmware
GMT	Greenwich Mean Time
INCA	INtegrated Calibration and Application Tool
LAN	Local Area Network = Netzwerk
LIN	Local Interconnect Network
MAC	Media Access Control
MCD	M ea s ure C alibrate D iagnose
MDX	M eta D ata E Xchange Format
MEP	MOST Ethernet Packet
MOST	Media Oriented Systems Transport (www.mostnet.de)
ODT	O bject D escriptor T able
ODX	O pen D ata E Xchange
OEM	O riginal E quipment M anufacturer
PHY	PHY sical Bus Connect
PW	Password
RX	Receiver Data
SD	Secure Digital
SFTP	Secure File Transfer Protocol
SHA	Secure Hash
SSL	Secure Sockets Layer
TCP/IP	Transmission Control Protocol/Internet Protocol
TLS	Transport Layer Security

tmt	Telemotive Trace
bPP	blue PiraT Packetformat
bPSA	blue PiraT System Access
bPSL	blue PiraT System Link
UDP	User Datagram Protocol
USB	Universal Serial Bus
UTC	Universal Time, Coordinated
Wi-Fi	Wireless Fidelity
WLAN	Wireless Local Area Network
XCP	Universal Measurement and Calibration Protocol
xtmt	eXtended Telemotive Trace

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