

# blue PiraT2 / 5E / Mini / Remote Camera User Guide

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- 9. German Law is deemed to be as legal basis.

# 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

- blue PiraT2
- blue PiraT2 5E
- blue PiraT Mini
- blue PiraT Remote

Telemotive AG. 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.

When converting into a video file, the system can combine a maximum of 400 blocks per file. The length of the blocks can change. If more video blocks are available and they cannot be converted to one file, the system creates several files. In this way no video data is lost.

#### 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 60 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 60 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 Telemotive System Client, which is valid together.

The client software was only tested with Microsoft<sup>®</sup> Windows<sup>®</sup> 7.

This document refers to **firmware version 02.04.01** and the **Telemotive System Client** from **version 2.4.1.** 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 the Telemotive ServiceCenter. (*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

#### **Control Unit**

A Windows based Laptop or PC is needed to configure the devices of Telemotive AG by **Telemotive System Client**. It also allows to save the recorded data and to use them offline later.

#### **Telemotive System Client**

The software client is used for configuring the data logger as well as downloading the recorded data or convert these into your needed file format. An firmware update can be performed by the **Telemotive System Client** too to ensure that your devices are always up to date.

#### blue PiraT2 / blue PiraT2 5E / blue PiraT Mini

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

The **blue PiraT2** is our top-class all-in-one data logger. Seven models cover a wide range of interfaces.

Additionally, the **blue PiraT2 5E** offers improved power management and power backup, five integrated Ethernet ports and super-fast start-up behavior. The blue PiraT2 can be flexibly expanded via <u>Telemotive System Link</u>.

The **blue PiraT 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 flexibly expanded to one cluster and therefore handled very easily by using <u>Telemotive System Link</u>.

#### **Remote Control Touch (optional)**

Operate your blue PiraT Mini or blue PiraT2 data loggers safely and comfortably from the driver's or passenger seat. Via Telemotive System Link our new remote control becomes part of your logger network. One remote control can handle all connected loggers.

#### blue PiraT Remote

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.

#### blue PiraT2 Ethernet kit

This optional enhancement Ethernet kit is connected via a FCI cable to the rear side of the **blue PiraT2**. With his four Ethernet interfaces it establishes the connection between data logger and the Video Encoder or one single camera and allows connecting to a Local Area Network (LAN). In this way the Ethernet port on the front side of the data logger is open. This allows using the front Ethernet port for communication with the Telemotive System Client and manages the logger.

The Ethernet kit is available for blue PiraT2 only, because **blue PiraT2 5E** has an integrated Ethernet switch and four ports at the rear side.

#### 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.

#### 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 Further manuals

Beside this user guide we offer the main manuals for our client as well as for the different data logger generations in our ServiceCenter at <u>https://sc.telemotive.de/bluepirat</u>.

#### User manual for the Telemotive System Client

https://sc.telemotive.de/4/uploads/media/TelemotiveSystemClient\_UserManual.pdf

#### User manual for blue PiraT2 / blue PiraT2 5E

https://www.telemotive.de/4/uploads/media/blue\_PiraT2\_UserManual.pdf

#### User manual for blue PiraT Mini

https://www.telemotive.de/4/uploads/media/blue\_PiraT\_Mini\_UserManual.pdf

#### **User manual for Remote Control Touch**

https://sc.telemotive.de/4/uploads/media/RCTouch\_UserGuide.pdf

#### User manual for blue PiraT Remote

https://sc.telemotive.de/4/uploads/media/blue\_PiraT\_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.

File Tools Window	Help		
Network Logger 8	لم Te	lemotive System Client manual	-
Name	bl	ue PiraT 2 manual	s 🔯
E CS_TSL (3)	bli	ue PiraT Mini manual	
CS_bP2_10036	Re	mote Control Touch manual	
L CS_bPR_10057	bl	ue PiraT Remote manual	Ξ
CS_RCT_10060	Inf	fo	-

#### Figure 4.1: links to the manuals

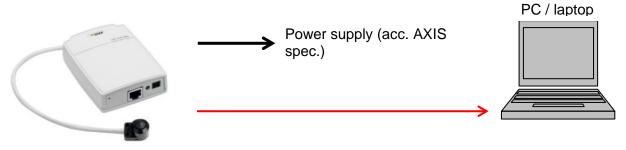
Our licensed enhancements have own manuals which are stored in the ServiceCenter too. You will find a list of these enhancements in the user manuals in the chapter **Additional features by optional licenses**.

# 5 Configuring the network camera AXIS P12xx

# 5.1 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 PCs IP configuration. Use static IP address with the following settings:

Internet Protocol Version 4 (TCP/IPv4) Properties					
General					
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.					
O Obtain an IP address automatical	ly				
□ Use the following IP address: —					
IP address:	192.168.0.80				
S <u>u</u> bnet mask:	255.255.255.0				
Default gateway:					
C Obtain DNS server address auton	C Obtain DNS server address automatically				
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	resses:				
Preferred DNS server:					
Alternate DNS server:					
☐ Validate settings upon exit Ad <u>v</u> anced					
	OK Cancel				

Figure 5.1: Setting a static IP address

# 5.2 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**. (<u>http://192.168.0.90</u>)

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.

Create Certificate	Create Certificate			
Secure configuration of the root password v certificate.	Secure configuration of the root password via HTTPS requires a self-signed			
Create self-signed certificate				
Configure Root Passwor	d using HTTP			
User name: root				
Password (max 64 characters):				
Confirm password:				
	ОК			
The password for the pre-configured admir before the product can be used.	istrator root must be changed			
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 Op	tions > Security > ONVIF			

#### Figure 5.2: Create a user password

After setting the password please login to the web interface:

Authentifizierung e	Authentifizierung erforderlich				
0	http://192.168.0.90 verlangt einen Benutzernamen und ein Passwort. Ausgabe der Website: "AXIS_ACCC8E112E59"				
Benutzername:	root				
Passwort:	Passwort: ••••••				
	OK Abbrechen				

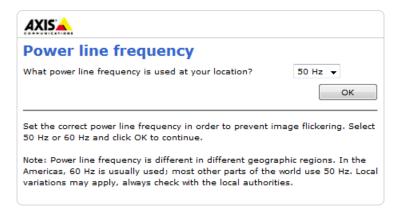
#### Figure 5.3: Login to the web interface

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 power line frequency of the power supply. In Europe 50 Hz is common.



#### Figure 5.4: Configure the power line frequency



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

Figure 5.5: Picture of a connected network camera

# 5.3 Creating the user "admin"

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

```
Click [Setup] \rightarrow [Basic Setup] \rightarrow [1 Users] \rightarrow [Add...].
```

	IS P1204 Network Camera	Live View   Setup   Help			
<ul> <li>Basic Setup</li> </ul>	Users	0			
Instructions	User List	User List			
1 Users	User Name User Grou				
2 TCP/IP 3 Date & Time 4 Video Stream	root Administ:	rator 🔺			
▶ Video					
Live View Config					
Detectors		Ψ.			
Applications	Add Modify Remove				
• Events	HTTP/RTSP Password Settings				
Recordings	Allow password type: Encrypted & unencrypted 👻				
System Options	User Settings				
About	Enable anonymous viewer login (no user name	Enable anonymous viewer login (no user name or password required)			
	Enable Basic Setup	Enable Basic Setup			
	Save	set			

#### Figure 5.6: Add a new user

A new window is opened.

User Setup	0
User name:	admin
Password (max 64 characters.):	•••••
Confirm password:	•••••
User group:	<ul> <li>Viewer</li> <li>Operator</li> <li>Administrator</li> </ul>
OK Car	ncel

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

Recommended: User name: Password:

admin 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]**.

User Settings
Fnable anonymous viewer login (no user name or password required)
Enable Basic Setup

#### Figure 5.7: Enable anonymous viewer login

# 5.4 Setting date and time

Change to the entry [Basic Setup]  $\rightarrow$  [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.

	(IS P1204 Network Camera Live View   Setup   Help			
• Basic Setup	Date & Time Settings			
Instructions	Current Server Time			
1 Users	Date: 2014-08-01 Time: 12:13:40			
2 TCP/IP 3 Date & Time	New Server Time			
4 Video Stream	Time zone: GMT (Dublin, Lisbon, London, Reykjavik) 💌			
▶ Video	Automatically adjust for daylight saving time changes.			
VIGEO	Time mode:			
Live View Config	Synchronize with computer time			
Detectors	Date: 2014-08-01 Time: 14:13:44			
	Synchronize with NTP server			
<ul> <li>Applications</li> </ul>	NTP server: <u>No server specified</u>			
• Events	Set manually			
h Deservationes	<sup>ໄ</sup> ຜ <sup>2</sup> Date: 2014-08-01 Time: 12:13:11			
Recordings	Date & Time Format Used in Images			
System Options	Specify date format: Predefined YYYY-MM-DD			
About	Ovn %F			
	Specify time format: Predefined 24h ▼ With resolution: 1 second ▼			
	Own %T			
	Save Reset			

#### Figure 5.8: 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]  $\rightarrow$  [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]**.

AXIS AX	CIS P1204 Network Camera Live View   Setup   Help		
• Basic Setup	Basic Setup Video Stream Settings		
• Video	Image H.264 MJPEG		
Video Stream	Image Appearance		
Stream Profiles	Resolution: 1280x720 (16:9) 🔻 pixels		
Camera Settings	Compression: 30 [0100]		
Overlay Image Privacy Mask	Mirror image		
Privacy mask	Rotate image: 0 - degrees		
Live View Config     Video Stream			
Detectors	Maximum frame rate:		
Detectors	Onlimited		
Applications	Limited to [130] fps per viewer		
• Events	Overlay Settings		
LVEILS	Include overlay image at the coordinates: X 0 [0] Y 0 [0]		
Recordings	Include date Include time		
System Options	Include text:		
	Text color: white 👻 Text background color: black 👻		
About Place text/date/time at top 👻 of image			
	Preview		
	View image stream while configuring. Video format: MJPEG  Open Save Reset		

#### Figure 5.9: 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 <<u>Maximum</u> frame rate>. Reducing to 15 or 20 fps eliminates the problem which is caused by to high frame rates especially with HD cameras.

# 5.5 IP configuration

Change to the entry [Basic Setup]  $\rightarrow$  [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

IΡv	IPv4 Address Configuration				
1	Enable IPv4				
$\bigcirc$	Obtain IP address via DHCP				
۲	Use the following IP address:				
	IP address:	192.168.1.90	Test		
	Subnet mask:	255.255.255.0			
	Default router:				

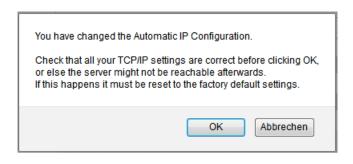
#### Figure 5.10: Setting an IP address

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:



#### Figure 5.11: popup window 1



Figure 5.12: 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.

# 5.6 Resetting configuration

The AXIS P-series 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 PWR connector and
- 3. reconnect to the power supply.
- 4. Hold the control button for 15 to 30 seconds till the Stat-LED flashes yellow.

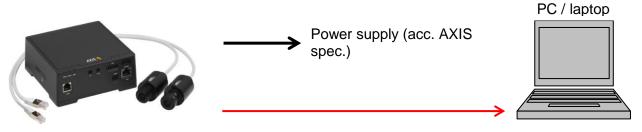
When the Stat-LED turns green the process is finished.

# 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 PCs IP configuration. Use static IP address with the following settings:

Internet Protocol Version 4 (TCP/IPv4) Properties						
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
O Obtain an IP address automatica	lly					
○ Use the following IP address:						
IP address:	192.168.0.80					
S <u>u</u> bnet mask:	255.255.255.0					
Default gateway:						
${f C}$ Obtain DNS server address auto	matically					
└ Use the following DNS server add	dresses:					
Preferred DNS server:						
Alternate DNS server:						
Validate settings upon exit	Ad <u>v</u> anced					
	OK Cancel					

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.

Create Certificate				
Secure configuration of the root password via HTTPS requires a self-signed certificate.				
Create self-signed certificate				
Configure Root Password using HTTP				
User name: root				
Password (max 64 characters):				
Confirm password:				
ОК				
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	Authentication Required				
A username and password are being requested by http://192.168.1.90. The site says: "AXIS_ACCC8E0CE158"					
User Name:					
Password:					
	OK Cancel				

#### 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.

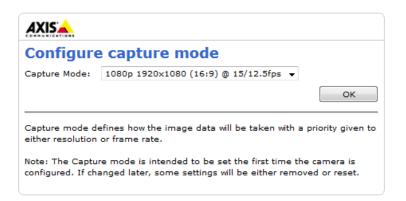


Figure 6.5: Configure the capture mode F41

Config	ure capture mode
Capture	1080p 1920×1080 (16:9) @ 15/12.5fps 🗸
Mode:	1080p 1920×1080 (16:9) @ 15/12.5fps 🗸
	1080p 1920×1080 (16:9) @ 15/12.5fps 🗸
	1080p 1920×1080 (16:9) @ 15/12.5fps →
	ОК
either resolu	de defines how the image data will be taken with a priority given ition or frame rate. apture mode is intended to be set the first time the camera is If changed later, some settings will be either removed or reset.

Figure 6.1: Configure the capture mode F44

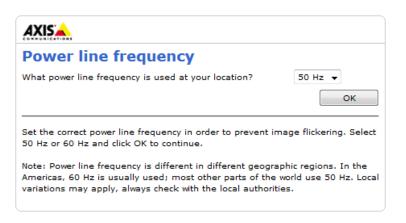


Figure 6.6: Configure the power line frequency

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



Figure 6.7: 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] \rightarrow [Basic Setup] \rightarrow [1 Users] \rightarrow [Add...].
```

AXIS	AXIS F41 Netwo	ork Camera	Live View   Setup   Help
• Basic Setup	Users		0
Instructions 1 Users	User List		
2 TCP/IP	User Name	User Group	
3 Date & Time	root	Administrator Administrator	$\sim$
4 Video Stream 5 Audio Settings		Administrator	
Video & Audio			
Live View Config			
Detectors			
Applications			$\checkmark$
• Events	Add Moo	dify Remove	
Recordings			
Languages	HTTP/RTSP Passw	-	
Languages	Allow password type:	Encrypted & unencrypted V	
<ul> <li>System Options</li> </ul>	User Settings		
About	Enable anonymous	viewer login (no user name o	r password required)
	Enable Basic Setu	p	
		Save	Reset

#### Figure 6.8: Adding a new user

A new window is opened.

User Setup	0
User name:	admin
Password (max 64 characters.):	•••••
Confirm password:	•••••
User group:	○ Viewer ○ Operator ● Administrator

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

#### Recommended: User name:

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]**.



**User Settings** 

Enable anonymous viewer login (no user name or password required)

Enable Basic Setup

Figure 6.9: Enable anonymous viewer login

# 6.4 Setting date and time

Change to the entry [Basic Setup]  $\rightarrow$  [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.

AXIS	AXIS F41 Network Camera Live View   Setup   Help			
• Basic Setup	Date & Time Settings			
Instructions 1 Users	Current Server Time			
2 TCP/IP	Date: 2014-11-18 Time: 15:29:10			
3 Date & Time	New Server Time			
4 Video Stream 5 Audio Settings	Time zone: GMT+08 (Beijing, Hong Kong, Shanghai)			
5 Addio Settings	<ul> <li>Automatically adjust for daylight saving time changes.</li> </ul>			
Video & Audio	Time mode:			
Live View Config	<ul> <li>Synchronize with computer time</li> </ul>			
	Date: 2014-11-18 Time: 15:29:51			
<ul> <li>Detectors</li> </ul>	Synchronize with NTP server			
Applications	NTP server: No server specified			
• Events	<ul> <li>Set manually</li> </ul>			
	Date: 2014-11-18 Time: 15:29:08			
<ul> <li>Recordings</li> </ul>	Date & Time Format Used in Images			
Languages	Specify date format:   Predefined VYYY-MM-DD			
System Options	O own			
	Specify time format:      Predefined 24h      With resolution: 1 second			
About	O own %T			
	Save Reset			

#### Figure 6.10: 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]  $\rightarrow$  [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]  $\rightarrow$  [4 Video Stream]  $\rightarrow$  [Camera ...]

AXIS	AXIS F44 Netwo	rk Camera	Live View   Setup   Help
<ul> <li>Basic Setup</li> </ul>	Video Stream	Settings	0
Instructions	Image Audio H.	264 MJPEG	
1 Users 2 TCP/IP	Image Appearance		
3 Date & Time • 4 Video Stream	Capture mode: Resolution:	1080p 1920×1080 (16:9) @ 1 1920×1080 (16:9) ▼ pixels	
Camera 1 Camera 2	Compression:	30 [0100]	
Camera 3	Mirror image		
Camera 4	Rotate image:	0 👻 degrees	
Quad Stream	Video Stream		
5 Audio Settings	Maximum frame rate:		

Figure 6.11: Settings for cameras 1 - 4

AXISA	AXIS F41 Network Camera Live View   Setup   Help			
• Basic Setup Instructions	Video Stream Settings			
1 Users 2 TCP/IP	Image Appearance			
3 Date & Time	Capture mode: 1080p 1920x1080 (16:9) @ 25/30 fps (WDR)			
4 Video Stream	Resolution: 1920x1080 (16:9) V pixels			
5 Audio Settings	Compression: 30 [0100]			
Video & Audio				
Line Many Confin	Rotate image: 0 🗸 degrees			
Live View Config	Video Stream			
Detectors	Maximum frame rate:			
	O Unlimited			
Applications     C Limited to     [125] fps per viewer				
Events	Overlay Settings			
	Include overlay image at the coordinates: X 0 [0] Y 0 [0]			
Recordings	✓ Include date ✓ Include time			
Languages	Include text:			
	Text overlay size: medium V			
<ul> <li>System Options</li> </ul>	Text color: white V Text background color: black V			
About	Place text/date/time at top V of image			
	Preview			
View image stream while configuring. Video format: MJPEG V Open				
Save Reset				

#### Figure 6.12: 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 to high frame rates especially with HD cameras.

# 6.5 Audio settings (FW 2.0.1 onwards)

Change to [Basic Setup]  $\rightarrow$  [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]  $\rightarrow$  [4 Video Stream]  $\rightarrow$  [Camera ...]

AXIS	AXIS F41 Network Camera	Live View   Setup   Help	
- Basic Setup Instructions	Video Stream Settings	0	
1 Users	Image Audio H.264 MJPEG		
2 TCP/IP	Enable Audio		
3 Date & Time 4 Video Stream	<ul> <li>Enable audio</li> </ul>	Note that the image preview is without audio.	
5 Audio Settings	Current Audio Settings:		
	<ul> <li>AAC, Full duplex</li> </ul>		
Video & Audio			
• Live View Config			

Figure 6.13: Enable audio

### 6.5.1 Adjusting audio source

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

AXIS	AXIS F41 Net	work Camera	Live View   S	etup   Help
Basic Setup	Audio Se	ttings		0
	Audio Channel	5		
<ul> <li>Video &amp; Audio</li> <li>Video Stream</li> </ul>	Audio mode:	Full duplex	~	
Stream Profiles	Audio Input			
Camera Settings	Source:	Microphone 🗸		
Overlay Image Privacy Mask	Microphone p	ower		
Audio Settings	Input gain:	0 🗸 dB	Level: -40 -46	0 d8
Audio Clips	Encoding:	AAC 🗸		
Live View Config	Sample rate:	32 V kHz		
Detectors	Bit rate:	128 🗸 kbits/s		
Detectors	Note: The Java ap	oplet only supports G711 audio.	QuickTime supports G711 an	d AAC.
<ul> <li>Applications</li> </ul>	Audio Output			
• Events	Output gain:	0 V dB	Reset	
Recordings				

Figure 6.14: 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].

Audio Input			
Source:	Line 🗸		
Microphone p	ower		
Input gain:	0 🗸 dB	Level: -40 -46	0 dB

Figure 6.15: Select audio input (Line)

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

Audio Input				
Source:	Microphone 🗸			
Microphone power				
Input gain:	0 🗸 dB	Level: -40	-46	0 dB

#### Figure 6.16: 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).

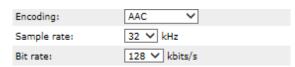


Figure 6.17: Adjust audio quality

# 6.6 IP configuration

Change to the entry [Basic Setup]  $\rightarrow$  [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       Image: Configuration         Image: Contract of the contrecont of the contract of the contract of th				
IPv4 Address Configuration		IP address:	192.168.1.90	)
Image: Constraint of the second system of		Subnet mask:	255.255.255.	0
Image: Constraint of the second system of				
<ul> <li>Obtain IP address via DHCP</li> <li>Use the following IP address:         IP address:         192.168.1.90         Test     </li> <li>Subnet mask:</li> </ul>	IPv4 Addres	s Configuration		
<ul> <li>Use the following IP address: IP address:</li> <li>Subnet mask:</li> </ul>	🗵 Enable IP	/4		
IP address:     192.168.1.90     Test       Subnet mask:     255.255.255.0	Obtain IP	address via DHCP		
Subnet mask: 255.255.255.0	Use the formation of the second se	ollowing IP address:		
	IP address:		192.168.1.90	Test
Default router:	Subnet mask:		255.255.255.0	
	Default ro	uter:		

#### Figure 6.18: Setting an IP address

Confirm the settings with [Save].

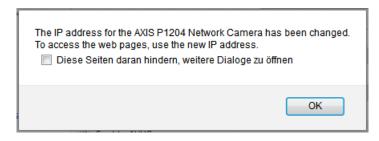
#### Note:

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 Automat	tic IP Configuration.
Check that all your TCP/IP setti or else the server might not be If this happens it must be reset	
	OK Abbrechen

#### Figure 6.19: Hint 1



#### Figure 6.20: 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 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 blue PiraT2 / blue PiraT2 5E / blue PiraT 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.

### 7.1 Related manuals

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

# 7.2 Automatic configuration (recommended)

**Needed software:** AXIS Camera Management v2.00.31 <u>http://www.axis.com/techsup/software/index.htm</u> or <u>http://www.axis.com/de/products/cam\_mgmt\_software/interface.htm</u>

#### Configuration steps:

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

### 7.2.1 Installing the camera template

The template "blue PiraT\_Kamera\_AXIS-ConfigTemplate\_vX.X.cmt" configures your camera automatically. The download file is available in our ServiceCenter at [blue PiraT]  $\rightarrow$  [Dokumentations] under the manual of the camera connection.

- 1. Click [Apply Template].
- 2. Click on the template file in the shortcut menu or choose it from the memory location with **[Browse...]**.

Search       Assign IP       Upgrade       Add/Edit User       Configure       Template       Editor       Apply Template       Home Page       Refresh       Views         Groups       Find:       Image: Configure       Image: Configure       Image: Configure       Browse         Add Group       Name       Image: Configure       C:\02_Ocean+Kamera\Ocean+Kamera_AxisO         All Devices (1)       Image: AxiIS 207-00408C7561EA       C:\\AXIS Camera Management - Templates\O         Warnings/Errors       Image: Configure       Image: Configure       C:\\AXIS Camera Management - Templates\O	
Add Group     C:\02_Ocean+Kamera\Ocean+Kamera_Axis0       All Devices (1)     Axis 207 - 00408C7561EA       New Devices (1)     Axis 207 - 00408C7561EA       Warnings/Errors     C:\\AXIS Camera Management - Templates\O	
Warnings/Errors	energie transference and the energies of the energy of the
My Groups	

#### Figure 7.1: Select a template

A dialog opens:

oups	dd/Edit User Configure Template	e Editor Apply Template Hom	e Page Refresh Views			
Add Group	Name	Status	Address	Serial Number Model	Firmware	
All Devices (1) New Devices (1) Warnings/Errors My Groups			192.168.0.90	00408C7561EA AXIS 207	7 4.40	
			Kamera_AxisConfigTempla	te_v1.0		
		Model: AXIS 207 (4.40)	~	🔽 Show Ni	ce Names 🛛 V Show Errors and Warnin	igs
		Image				
		Date format	үүүү-мм-dd 😽			
		Max viewers	10	[010]		
		Own date format	%F	[String]		
		Own date format enabled	no 🔽			
		Own time format	%T.	[String]		
		Own time format enabled	no 🗸			
		Referrers		[String]		
			[]	********		~
		Line Descriptio				
			neter "IPAddress = "192.168.0.90 neter "DNSName = """ is not reci			
		Note: Some parameters var	y between models. Use model dr	op-down list to review the ter	nplate for different models.	
		Devices				
		Name	Address	Serial Number	Model Firmware	
		AXIS 207 - 00408C7561EA	192.168.0.90	00408C7561EA	AXIS 207 4.40	_

Figure 7.2: Apply template



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

#### A dialog opens.

4. Check the configuration process.

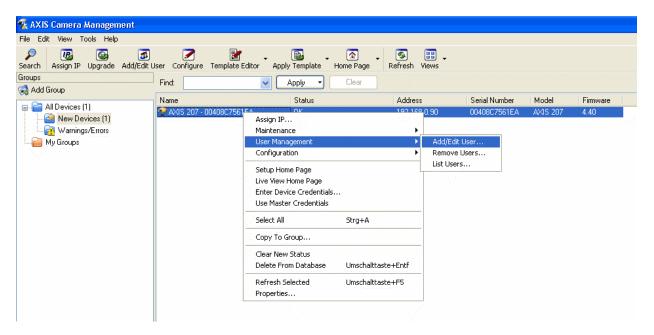
Show		Find			
Event #	1 to 1 (of 1)	Text		Apply -	Clear
Status	Date	▼ Event	Address	Serial Number	1
🔁 ОК	18.04.2007 11:59	1:30 Template Config	192.168.0.90	00408C7561EA	
Date:			168.0.90		
Event	Template Config	Serial Number: 004	08C7561EA		
Event Protocot	Template Config HTTP	Serial Number: 004 Model: AXIS	08C7561EA		~
Event	Template Config	Serial Number: 004 Model: AXIS Description	98C7561EA 5 207		
Event Protocot Status	Template Config HTTP Event	Serial Number: 004 Model: AXIS Description	98C7561EA : 207 nat = YYYY-MM-DD		
Event Protocot Status	Template Config HTTP Event Set Parameter	Serial Number: 004 Model: AXIS Description Image.DateForn Image.MaxView	98C7561EA : 207 nat = YYYY-MM-DD ers = 10		
Event Protocot Status OK OK OK	Template Config HTTP Event Set Parameter Set Parameter	Serial Number: 0044 Model: AXIS Description Image. DateForn Image. OwnDate	18C7561EA ; 207 hat = YYYY-MM-DD ers = 10 ;Format = %F		
Event Protocot Status OK OK OK OK OK	Template Config HTTP Event Set Parameter Set Parameter Set Parameter Set Parameter	Serial Number: 004/ Model: AXIS Description Image.DateForn Image.MaxView Image.OwnDate Image.OwnDate	18C7561EA : 207 nat = YYYY-MM-DD ers = 10 :Format = %F Format Enabled = no		
Event Protocot Status OK OK OK OK OK OK	Template Config HTTP Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Serial Number: 0044 Model: AXIS Description Image.DateForn Image.DateForn Image.OwnDate Image.OwnDate Image.OwnTime	18C7561EA 207 That = YYYY-MM-DD ers = 10 Format = %F Format = %T Format = %T		
Event Protocot Status OK OK OK OK OK OK OK	Template Config HTTP Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Serial Number: 0044 Model: AXIS Description Image. DateForn Image. MaxView Image. OwnDate Image. OwnDate Image. OwnTime Image. OwnTime	18C7561EA : 207 Nat = YYYY-MM-DD revs = 10 Format = %F Format = %T Format = %I Format = no FormatEnabled = no		
Event Protocot Status OK OK OK OK OK OK OK OK	Template Config HTTP Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Serial Number: 004/ Model: 04/04/ Image. DateForn Image. AvView Image. OwnDate Image. OwnTime Image. OwnTime Image. Referrers	18C7561EA : 207 nat = YYYY'-MM-DD ers = 10 Format = %F FormatEnabled = no FormatEnabled = no =		
Event Protocot Status OK OK OK OK OK OK OK OK OK OK	Template Config HTTP Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Serial Number: 0044 Model: AXIS Description Image. DateForn Image. MaxView Image. OwnDate Image. OwnDate Image. OwnTime Image. OwnTime	18C7561EA 207 hat = YYYY-MM-DD ers = 10 Format = %F FormatEnabled = no = Enabled = no		
Event Protocot Status OK OK OK OK OK OK OK OK OK	Template Config HTTP Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Serial Number: 0044 Model: A345 Description Image. DateForn Image. OwnDat Image. OwnDat Image. OwnTime Image. OwnTime Image. Referers Image. Referers	18C7561EA 207 hat = YYYY-MM-DD ers = 10 Format = %F FormatEnabled = no = Enabled = no		<u> </u>

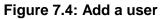
Figure 7.3: Result of the configuration process

### 7.2.2 Creating the user "admin"

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

- 1. Click the configured AXIS camera with the right mouse button.
- 2. Click [User Management] → [Add/Edit User...] in the shortcut menu.





A dialog opens.

3. Add administrator as follows:

Add/Edit User				
Add or edit user for one or more devices.				
User Details				
User name:	admin 🔽			
Password:	•••••			
Confirm password:	•••••			
Access rights:	Administrator 🔽			
PTZ control:	🔄 Enable			
All Users				
List Users List existing users.				
ОК	Cancel Help			

Figure 7.5: Select a user password

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

#### Recommended:

User name: Password: admin 2x8bg4

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

# 7.3 Manual configuration

- 1. Reset camera to the factory default settings.
- 2. Connect camera with the PC / laptop via an Ethernet cable.
- 3. Open browser.
- 4. Type in the preset IP address of the network camera: **192.168.0.90**.
- 5. Press [Enter].
- 6. Click [Setup].
- 7. 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.

### 7.3.1 Resetting configuration

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

AXIS	AXIS 210 Network Camera	ve View   Setup   Help
Basic Configuration	Server Maintenance	0
Video & Image	Maintain Server           Restart         Restart the AXIS 210 Network Camera.	
Live View Config	Restore Resets all parameters, except the IP parameters, to the original restore Resets and Parameters and Para	ginal factory settings.
Event Configuration     System Options	Default Resets all parameters to the original factory settings.	
<ul> <li>Security Date &amp; Time</li> <li>Network</li> <li>Ports &amp; Devices LED settings</li> <li>Maintenance</li> </ul>	Upgrade Server Upgrade the AXIS 210 Network Camera with the latest firmware. Specify the firmware to upgrade to: Durchsuchen Note: Do not disconnect power to the unit during the upgrade. The unit res upgrade has completed. (1-10 minutes.)	and click Upgrade
<ul> <li>Support</li> <li>Advanced</li> </ul>	Backup Save all parameters and user-defined scripts to a backup file.	Backup
About	Restore Use a saved backup file to return the unit to a previous configuration.	
	Specify the backup file to use: Durchsuchen and	d click Restore

Figure 7.6: Reset configuration

# 7.3.2 IP configuration

Change to the entry [Basic Configuration]  $\rightarrow$  [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			
AXIS	AXIS 210 Network	Camera	Live View   Setup   Help		
<ul> <li>Basic Configuration</li> </ul>	Basic TCP/IP Se	ettings	0		
Instructions	IP Address Configuration				
1. Users 2. TCP/IP	O Obtain IP address via DI				
3. Date & Time	Use the following IP address:				
4. Video & Image	IP address:	192.168	.0.90 Test		
Video & Image	Subnet mask:	255.255	.255.0		
Live View Config	Default router:	192.168	.0.1		
• Event Configuration	Services				
event comgaration	Options for notification of IP	address change Settings	5		
System Options	AXIS Internet Dynamic DNS Service Settings				
About		Save Rese	t		
	See also the advanced TCP/	IP settings			

Figure 7.7: 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.

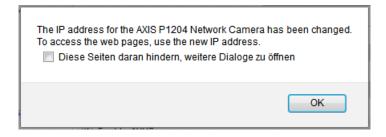
Confirm the settings with [Save].

#### 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:

You have changed the Automatic	IP Configuration.
Check that all your TCP/IP setting or else the server might not be re If this happens it must be reset to	eachable afterwards.
	OK Abbrechen

#### Figure 7.8: Hint 1



#### Figure 7.9: 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.

### 7.3.3 Creating the user "admin"

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

#### Click [Setup] $\rightarrow$ [Basic Configuration] $\rightarrow$ [1. Users] $\rightarrow$ [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.

Telemotive AG a company of Magna	blue PiraT2 / 5E / Mini Camera User Guide	Datum: 16.09.201 Seite 38 von 7
AXIS	XIS 210 Network Camera	Live View   Setup   Help
• Basic Configuration	Users	0
Instructions	User List	
1. Users	User Name User Group	
2. TCP/IP 3. Date & Time	root Administrator	
4. Video & Image	admin Administrator	
in these standards		
Video & Image		
▶ Live View Config		
, Live view coning		
▸ Event Configuration		
1 Custom Ontings		
System Options	Add Modify Remove	
About		
	User Settings	
	Enable anonymous viewer login (no user name o	or password required)
		- 10 Lin 202
	Maximum number of simultaneous viewers limited to Subsequent viewers will see a blank image.	o: 20 [020]

Figure 7.10: Enable anonymous viewer login

### 7.3.4 Setting date and time

Change to the entry [Basic Configuration]  $\rightarrow$  [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.

<ul> <li>Basic Configuration</li> </ul>	Date & Time Settings	0
Instructions	Current Server Time	
1. Users 2. TCP/IP	Date: 2007-01-24 Time: 13:16:30	
3. Date & Time	New Server Time	
4. Video & Image	Time zone: GMT (Dublin, Lisbon, London, Reykjavik)	
Video & Image	Automatically adjust for daylight saving time changes.	
	Time mode:	
Live View Config	O Synchronize with computer time	
Event Configuration	Date: 2007-01-24 Time: 14:16:36	
System Options	Synchronize with NTP server	
About	NTP server: <u>No server specified</u> Set manually  Date: 2007-01-24 Time: 13:16:17	
	Date & Time Format Used in Images	
	Specify date format:  Predefined YYYY-MM-DD Own %F	
	Specify time format:  Predefined 24h  With resolution: 1 second	

Figure 7.11: 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]  $\rightarrow$  [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]**.

Video & Image Image Overlay/Mask       Image Appearance         Advanced       Resolution:       640x480 ♥ pixels         Advanced       Rotate image:       0 ♥ degrees         Live View Config       Color level:       50 [0100] *         Event Configuration       Brightness:       50 [0100] (Does not affect Test image)         System Options       Contrast:       50 [0100] (Does not affect Test image)         About       Text Overlay Settings         ♥ Include date       ♥ Include time         Include text:       Text toolor:         Text color:       white ♥ Text background color:         Place text/date/time at top ♥ of image       Video Stream         Maximum video stream time:       ♥ Unlimited         Limited to       [1] seconds ♥ per session	Basic Configuration	Image Settin	igs 🕜	
Image Overlay/Mask       Resolution:       640x480 v pixels         Advanced       Compression:       30 [0100]         Advanced       Rotate image:       0 v degrees         Live View Config       Color level:       50 [0100] *         Event Configuration       Brightness:       50 [0100] (Does not affect Test image)         System Options       Contrast:       50 [0100] (Does not affect Test image)         * Changes to color level do not affect Test image (exception 0 = B/W)       Text Overlay Settings         * Include date       V Include time         Include text:       Text color: white v Text background color: black v         Place text/date/time at top v of image       Video Stream         Maximum video stream time:       Unlimited         Unlimited       Limited to [1] seconds v per session	busic comgaration	Image Appearance		
Overlay/Mask       Compression:       30 [0100]         Advanced       Rotate image:       0 degrees         Live View Config       Color level:       50 [0100] *         Event Configuration       Brightness:       50 [0100] (Does not affect Test image)         System Options       Changes to color level do not affect Test image (exception 0 = B/W)         About       Text Overlay Settings         V       Include date       Include time         Include text:       Text color:       white V         Text color:       white V       Text background color:         Video Stream       Maximum video stream time:       Unlimited         Unlimited       Limited to [1] seconds V per session       Maximum frame rate:	Autopation de la construcción de la	Resolution:	640x480 💓 pixels	
Rotate image:       0 v degrees         Live View Config       Color level:       50 [0100]*         Event Configuration       Brightness:       50 [0100] (Does not affect Test image)         System Options       Contrast:       50 [0100] (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 v Text background color: black v         Place text/date/time at top v of image         Video Stream         Maximum video stream time:         • Unlimited         Limited to [1] seconds v per session	Overlay/Mask	Compression:	30 [0100]	
Event Configuration   System Options   About     Contrast:   50   [0100]   Does not affect Test image)   Contrast:   50   [0100]   Does not affect Test image)   * Changes to color level do not affect Test image (exception 0 = B/W)   Text Overlay Settings   ✓   Include date   ✓   Include text:   Text color:   White ✓   Place text/date/time at top   of image   Video Stream   Maximum video stream time:   Unlimited   Limited to   Unlimited   Unlimited	Advanced	Rotate image:	0 🕑 degrees	
System Options         About         Contrast:       50 [0100] (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 ♥         Place text/date/time at top ♥ of image         Video Stream         Maximum video stream time:         ③       Unlimited         □       I] seconds ♥ per session         Maximum frame rate:       Unlimited	Live View Config	Color level:	50 [0100] *	
System Options         About         * Changes to color level do not affect Test image (exception 0 = B/W)         Text Overlay Settings         Ø         Include date         Include text:         Text color:         white Ø         Place text/date/time at top Ø of image         Video Stream         Maximum video stream time:         Ø         Unlimited         Limited to [1] seconds Ø per session         Maximum frame rate:         Ø         Unlimited	• Event Configuration	Brightness:	50 [0100] (Does not affect Test image)	
About       Text Overlay Settings         ✓       Include date       ✓         ✓       Include time         Include text:          Text color:       white       Text background color:         Place text/date/time at top       of image         Video Stream       Maximum video stream time:         ③       Unlimited         ○       Limited to       [1] seconds         ✓       Unlimited	System Options	Contrast:	50 [0100] (Does not affect Test image)	
<ul> <li>Include date</li> <li>Include time</li> <li>Include text:</li> <li>Text color: white v Text background color: black v</li> <li>Place text/date/time at top v of image</li> <li>Video Stream</li> <li>Maximum video stream time:</li> <li>Unlimited</li> <li>Limited to 11] seconds v per session</li> <li>Maximum frame rate:</li> <li>Unlimited</li> </ul>	System options	* Changes to color level do not affect Test image (exception 0 = B/W)		
Include text:         Text color:       white ♥         Text background color:       black         Place text/date/time at top       of image         Video Stream       Maximum video stream time:         ③       Unlimited         ○       Limited to       [1] seconds ♥ per session         Maximum frame rate:       ○	About	Text Overlay Settings		
Text color: white V Text background color: black V Place text/date/time at top V of image Video Stream Maximum video stream time: Unlimited Limited to [1] seconds V per session Maximum frame rate: Unlimited	<	Include date	Include time	
Place text/date/time at top v of image Video Stream Maximum video stream time: Unlimited Limited to [1] seconds v per session Maximum frame rate: Unlimited		Include text:		
Video Stream Maximum video stream time: ③ Unlimited ○ Limited to [1] seconds ♥ per session Maximum frame rate: ○ Unlimited		Text color: white 👻	Text background color: black	
Maximum video stream time: Unlimited Limited to [1] seconds v per session Maximum frame rate: Unlimited		Place text/date/time at top 💉 of image		
<ul> <li>Unlimited</li> <li>Limited to [1] seconds per session</li> <li>Maximum frame rate:</li> <li>Unlimited</li> </ul>		Video Stream		
<ul> <li>Limited to [1] seconds v per session</li> <li>Maximum frame rate:</li> <li>Unlimited</li> </ul>		Maximum video stream time:		
Maximum frame rate:		O Unlimited		
O Unlimited		O Limited to [1] seconds 💙 per session		
		Maximum frame rate:		
C Imited to 15 [130] fps per viewer	C	Limited to     15     [130] fps per viewer		
Test				
		i car seconds (using Mo	otion JPEG) before saving. Test	

#### Figure 7.12: 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 to high frame rates especially with HD cameras.

### 7.3.5 Setting MPEG-4

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

AXIS	AXIS 210 Netw	ork Camera	Live View	Setup   Help	
Basic Configuration	MPEG-4 Se	MPEG-4 Settings		0	
	<b>Client Compatibil</b>	ity			
<ul> <li>Video &amp; Image Image</li> </ul>	Video object type:	Advanced Simple ⊻			
Overlay/Mask	ISMA compliant				
<ul> <li>Advanced</li> <li>Camera</li> </ul>	GOV Settings				
MPEG-4	Structure:	1P 💙			
Line Man Canfa	Length:	32 [1-150]			
Live View Config	Bit Rate Control	Bit Rate Control			
• Event Configuration	Maximum bit rate:	O Unlimited	10 M		
System Options	$\subset$	Limited to 3000	kbit/s		
About	Use:	Variable bit rate			
		O Constant bit rate			
	Target bit rate:	kbit/s			
	Priority:	None			
	View Image Setti	ngs			
	View image after sa	iving.	Reset	View	

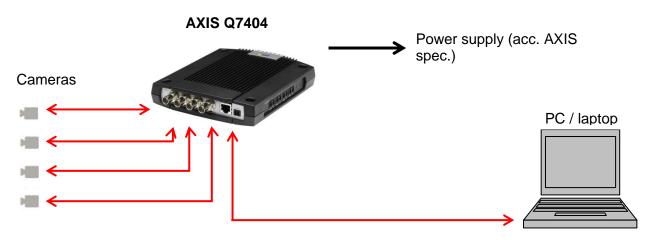
Figure 7.13: MPEG-4 settings

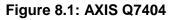
# 8 Configuring the Video Encoder AXIS Q7404

## 8.1 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.





Change your PCs IP configuration. Use static IP address with the following settings:

Internet Protocol Version 4 (TCP/IPv4)	Properties
General	
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.	
O Obtain an IP address automatical	ly
□ Use the following IP address:	
IP address:	192.168.0.80
Subnet mask:	255.255.255.0
Default gateway:	
C Obtain DNS server address auton	natically
□ Use the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	· · ·
Validate settings upon exit	Ad <u>v</u> anced
	OK Cancel

Figure 8.2: Setting a static IP address

### 8.2 Access to the Video Encoder AXIS Q7404

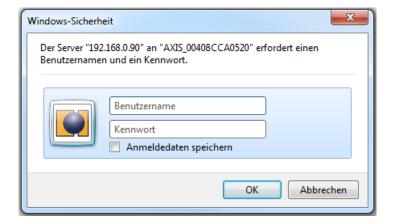
Open your browser and type in the preset IP address of the video server: 192.168.0.90.

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.

AXISA			
Create Certificate			
Secure configuration of the root password via HTTPS requires a self-signed certificate.			
Create self-signed certificate			
Configure Root Password using HTTP			
User name: root			
Password (max 64 characters):			
Confirm password:			
ОК			
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 8.3: Creating a user password

After setting the password please login to the video server:



#### Figure 8.4: 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 now download a new language file or select the existing.

AXIS
Sprache auswählen
Schritt 1 von 2: Herunterladen der Deutsch Sprachdatei
Neue Sprachdatei herunterladen in Deutsch oder eine vorhandene verwenden.
Herunterladen Deutsch Vorhandene Datei verwenden
Sprachauswahl überspringen
Die Sprache kann unter Setup > Sprache auch später noch ausgewählt werden.
Use English

#### Figure 8.5: Selecting a language

If you download a language file to your PC, it has to be selected in the next step and installed by clicking **[Weiter]**.

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.

AXISA	AXIS Q7404 Video Encoder	Live-Ansicht   Einrichtung   Hilfe
Video-Streamprofil Motion JPEG V		
	1 martine and the second descent descen	
- Ala		
		H
		A CALLER THE PARTY OF THE PARTY OF
		THE REAL PROPERTY AND INC.
		ALL ALLE
		and the second
Wiedergabe von, Motion	JPEG	
000		
	$\searrow$	<b>e</b> ,100%

Figure 8.6: Picture of a connected network camera

### 8.3 Creating the user "admin"

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

```
Click [Setup] (1) \rightarrow [Basic Setup] \rightarrow [1 Users] (2) \rightarrow [Add...] (3).
```

AXIS	AXIS Q7404 V	ideo Encoder	Live View	Setup	Help
▼ Basic Setup	Users			1	0
Instructions	User List				
1 Users 2	User Name	User Group	User Info		
2. TCP/IP 3. Date & Time 4. Video Stream 5. Audio Settings	root admin	Administrator Administrator		*	
• Video & Audio					
► Live View Config					
• Events	3			-	
• System Options	Add	Modify Remove	]		
About					
	HTTP/RTSP Pa	ssword Settings			
	Allow password t	ype: Encrypted & unencr	ypted 💌		
	User Settings				
	7 Thable anony	/mous viewer login (no us	er name or password ree	quired)	
	Enable anony	ymous PTZ control login (I	no user name or passwo	rd required)	
	🕅 Enable Basic	: Setup 8 Save	Reset		

#### Figure 8.7: Adding a new user

A new window opens.

🥹 System Options/User Setup - AXIS Q 💶 🔳 💌	
🜏 192.168.0.90/admin/users_set.shtml?basic=yes&grc 🏠	
User Setup 4 (2) User name:	Na (4)
Password (max 8 chars.):	toc
Confirm password:	Re
User group: O Viewer O Operator 5 @ Administrator	Us Pa
Enable PTZ control  OK Cancel	Ch an

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

#### Recommended:

er name: admin ssword: 2x8bg4

Choose the <User group> (o) Administrator (5) nd 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)**.

### 8.4 Setting date and time

Change to the entry [Basic Setup]  $\rightarrow$  [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.

	KIS Q7404 Vie	deo Encoder Live View   Setup   He	elp
• Basic Setup Instructions	Date & Time	Settings	0
	Current Server Time		
1. Users 2. TC <u>P/IP</u> 9		Date: 2012-07-20 Time: 18:15:59	
3. Date & Time	New Server Time		
4. Video Stream	Time zone:	GMT (Dublin, Lisbon, London, Reykjavik)	
5. Audio Settings		Automatically adjust for daylight saving time changes.	
Video & Audio	Time mode:		
→ Live View Config	Ô	Synchronize with computer time Date: 2012-07-20 Time: 18:18:29	
<ul> <li>Events</li> <li>System Options</li> </ul>	0	Synchronize with NTP server	
		NTP server: <u>No server specified</u>	
<ul> <li>System Options</li> </ul>	10 🔘	Set manually	
About		Date: 2012-07-20 Time: 18:19:00	
	Date & Time Forma	at Used in Images	
	Specify date format:	YYYY-MM-DD	
		Own %F	
	Specify time format:	Predefined 24h v With resolution: 1 second v	
		Own %T	
		11 Save Reset	

#### Figure 8.8: 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]  $\rightarrow$  [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).

Basic Setup     Instructions	Video Stre	Ham Settings	
1 Users 2 TCP/IP	Image Appeara	nce	
3 Date & Time 6	Resolution:	Aspect ratio correction	
S Actile Settlings	galanogalate	4CIF (704 x 480)	
Video & Audio	Compression:	30 [0100]	
and the second second	🖾 Mirror image		
Live View Config	Rotate image:	0 💌 degrees	
PTZ	Color setting:	Color 🔗	
	Video Stream		
Applications	Maximum frame ra	te:	
Events	<ul> <li>Unlimited</li> </ul>		
A Design of the second s	Limited to	[130] fps per viewer	
Recordings	Overlay Settings		
System Options	Include overla	ry image at the coordinates: X 0 [0] Y 0 [0]	
	Ed Include date	Include time 7	
About	D Include text:		
	text color: white	Text background color: black	
	here text/date/tim	and a second	
	Find the other of the	ie at www. 122 or mage	
	Preview		
	View image stream	while confirming Video format: MJPEG 👻 Open	

Figure 8.9: 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.

## 8.5 IP configuration

Change to the entry [Basic Setup]  $\rightarrow$  [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

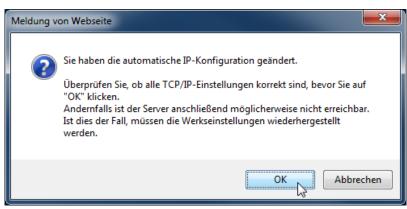
Confirm the settings with [Save] (15).

AXIS	AX	IS Q7404 Video Encoder Live View   Setup   Help
▼ Basic Setup		Basic TCP/IP Settings
Instructions		Network Settings
1. Ucers 2 TCP/IP 12		View current network settings: View
3. Date & Time		IPv4 Address Configuration
<ol> <li>Video Stream</li> <li>Audio Settings</li> </ol>		Enable IPv4
5. Audio Securigs		Obtain IP address via DHCP
Video & Audio	13	Use the following IP address: 14
→ Live View Config		IP address: 192.168.1.90 Test
> Events		Subnet mask: 255.255.2
		Default router:
System Options		IPv6 Address Configuration
About		Enable IPv6
, and the second s		Services
		Enable ARP/Ping setting of IP Address
		AXIS Internet Dynamic DNS Service Settings
		15 Save Reset
		See also the advanced TCP/IP settings

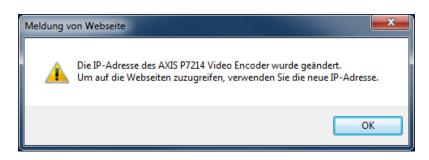
Figure 8.10: Setting an IP address

#### 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 8.11: Hint 1



#### Figure 8.12: 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.

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.

# 9 Configuring the Video Encoder AXIS P7214

## 9.1 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.

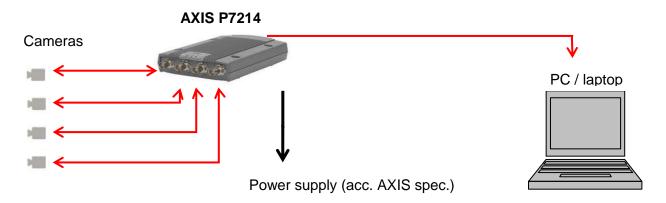


Figure 9.1: Connecting a Video Encoder

Change your PCs IP configuration. Use static IP address with the following settings:

Internet Protocol Version 4 (TCP/IPv4) Properties						
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
O Obtain an IP address automatica	lly					
○ Use the following IP address:						
IP address:	192.168.0.80					
Subnet mask:	255.255.255.0					
Default gateway:						
${f C}$ Obtain DNS server address auto	C Obtain DNS server address automatically					
• Use the following DNS server add	dresses:					
Preferred DNS server:						
<u>A</u> lternate DNS server:						
Validate settings upon exit	Ad <u>v</u> anced					
	OK Cancel					

Figure 9.2: Setting a static IP address

## 9.2 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.

AXISA				
Create Certificate				
Secure configuration of the root password via HTTPS requires a self-signed certificate.				
Create 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 9.3: Selecting a user password

After setting the password please login to the video server:

Windows-Sicherheit		
Der Server "192.168.0.90" an "AXIS_00408CCA0520" erfordert einen Benutzernamen und ein Kennwort.		
	Benutzername       Kennwort       Anmeldedaten speichern	
	OK Abbrechen	

#### 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 now download a new language file or select the existing.

AXIS			
Sprache auswählen			
Schritt 1 von 2: Herunterladen der Deutsch Sprachdatei			
Neue Sprachdatei herunterladen in Deutsch oder eine vorhandene verwenden.			
Herunterladen Deutsch Vorhandene Datei verwenden			
Sprachauswahl überspringen			
Die Sprache kann unter Setup > Sprache auch später noch ausgewählt werden.			
Use English			

#### Figure 9.5: Select a language

If you download a language file to your PC, it has to be selected in the next step and installed by clicking **[Weiter]**.

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.

AXIS	AXIS P7214 Video Encoder	Live View Setup Help
Stream profile Motion JPEG	Video Stream or PT2 preset	
	Video 2 Video 3 Video 4 Oued Stream	

#### Figure 9.6: 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]**.

## 9.3 Creating the user "admin"

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

```
Click [Setup] (1) \rightarrow [Basic Setup] \rightarrow [1. Users] (2) \rightarrow [Add...] (3).
```

AXIS	AXI	S P7214 Vi	ideo Encoder	Live View	setup	Help	
• Basic Setup		Users		1	0		
Instructions		User List					
1 Users 2		User Name	User Group	User Info			
<ol> <li>TCP/IP</li> <li>Date &amp; Time</li> <li>Video Stream</li> <li>Audio Settings</li> </ol>		root admin	Administrator Administrator		*		
Video & Audio							
• Live View Config							
• Events		3			-		
System Options		Add	Modify Remove				
About						_	
		-	ssword Settings				
		Allow password ty	ype: Encrypted & unencry	rpted 💌			
		User Settings					
	7	hable anony	rmous viewer login (no use	er name or password red	quired)		
		Enable anony	rmous PTZ control login (n	o user name or passwo	rd required)		
		<table-cell> Enable Basic</table-cell>	Setup 8 Save	Reset			

Figure 9.7: Adding a new user

🥹 System Options/User Setup - AXIS Q 💶 💷 💻 🌉		
🜏 192.168.0.90/admin/users_set.shtml?basic=yes&gre 🏠		
User Setup 4 🕜		
User name:		
Password (max 8 chars.):		
Confirm password:		
User group: Operator 5 Operator		
Enable PTZ control		

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 9.8: 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)**.

### 9.4 Setting date and time

Change to the entry [Basic Setup]  $\rightarrow$  [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.

	CIS P7214 Vid	Live View   Setup   Help		
	Date & Time	Settings 🛛 💡		
Instructions	Current Server Time			
1. Users 2. TC <u>P/IP</u> 9		Date: 2012-07-20 Time: 18:15:59		
3. Date & Time	New Server Time			
4. Video Stream	Time zone:	GMT (Dublin, Lisbon, London, Reykjavik)		
5. Audio Settings		Automatically adjust for daylight saving time changes.		
Video & Audio	Time mode:			
	0	Synchronize with computer time		
Live View Config		Date: 2012-07-20 Time: 18:18:29		
• Events	0	Synchronize with NTP server		
		NTP server: <u>No server specified</u>		
System Options	10 🔘	Set manually		
About		Date: 2012-07-20 Time: 18:19:00		
	Date & Time Forma	t Used in Images		
	Specify date format:	Predefined     YYYY-MM-DD		
		Own %F		
	Specify time format:	O 24h Vith resolution: 1 second Vita Se		
		Own %T		
		11 Save Reset		

#### Figure 9.9: 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]  $\rightarrow$  [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).

imanim ·		Video Encoder Live View   Setup   Help			
- Basic Setup		eam Settings			
1 Users	Image Audio				
2 TCP/IP	Image Appeara	nce			
3 Date & Time	Resolution:	Aspect ratio correction			
5 Autho Cothings		4CIF (704 x 480)			
Video & Audio	Compression:	30 [0100]			
VIDEO & AUDIO	D Mirror image				
Live View Config	Rotate image:	0 egrees			
PTZ	Color setting:	Color			
	Video Stream				
<ul> <li>Applications</li> </ul>	Maximum frame rate:				
+ Events	<ul> <li>Unlimited</li> </ul>				
Literes	O Limited to	[130] fps per viewer			
Recordings	Overlay Settings				
System Options	D Include overla	ry image at the coordinates: X 0 [0] Y 0 [0]			
- System Options	Include date	Disclude time			
About	and the second se				
	Include text:				
	Text color: white Text background color: black				
	Proce_text/date/tire	ne at top 💉 of image			
	Charles and the second se				
	Preview				
	1010-0010-001				
	View image stream	while confiniting. Video format: MJPEG 👻 Open			

#### Figure 9.10: 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 to high frame rates especially with HD cameras.

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### 9.5 IP configuration

Change to the entry [Basic Setup]  $\rightarrow$  [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).

AXIS	AXIS P7214 Video Encoder Live View   Setup   Help
▼ Basic Setup	Basic TCP/IP Settings
Instructions	Network Settings
2 TCP/IP 3	View current network settings: View
3 Date & Time	IPv4 Address Configuration
▶ 4 Video Stream	Enable IPv4
5 Audio Settings	Obtain IP address via DHCP
Video & Audio	OUse the following IP address: 5
▶ Live View Config	4 IP address: 192.168.1.90 Test
· Live view coming	Subnet mask: (255.255.255.0)
▶ PTZ	Default router:
Detectors	IPv6 Address Configuration
. Franks	Enable IPv6
Events	Services
Recordings	Enable ARP/Ping setting of IP Address
System Options	Enable AVHS
	One-click enabled O Always
About	Proxy:
	Proxy port: 3128
	Proxy login:
	Proxy password:
	Proxy authentication method:       Basic    Digest    Auto
	AXIS Internet Dynamic DNS Service Settings 6 Save Reset
	See also the advanced TCP/IP settings

Figure 9.11: 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.

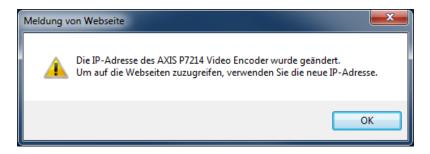
Note:

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 9.12: Hint 1



#### Figure 9.13: 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.

## **10** 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 <u>http://www.axis.com/techsup/software/index.htm</u> 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]  $\rightarrow$  [AXIS Camera Management]  $\rightarrow$  [AXIS Camera Management Client].

SIXA 😵	Camera N	lanagement Clie	nt								
<u>F</u> ile <u>C</u>	onfigurat	tion <u>O</u> ptions	<u>H</u> elp								
<b>%</b>	Ē	🐺 📲	T T	2	8 📥 🐻 🖞	S Q 🗠	÷.				
		ces, 0 selected						Type to	search		×
	Name		Status	Address	Host Name	Serial Number	Model	Firmware	DHCP	Server	
Alar	rms	Tasks									~
Time		Alarm	Des	cription							~
											Ē
	devices Connected	I to JGOLOMBEK									

Figure 10.1: AXIS Camera Management Client

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



Figure 10.2: 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.

Add Devices					
Select the devices	to add				Minimieren
Search Again	-			Type to search	×
Address	Serial Number	Model	Status		
192.168.1.90	00408CCA0520	AXIS P7214	Incorrect pa	issword	
0 of 1 devices selected Select / deselect <u>a</u> ll Use host name whe					
			Help	<u>Back</u>	Cancel

Figure 10.3: Adding devices step 2

🔗 Enter Use	r Name and Password
User name:	root
Password:	••••••
Use pass	word for all devices with incorrect password
	Help OK Cancel

Figure 10.4: Adding devices step 3

😵 AXIS C	Camera Management Clie	ent			<b>N</b>					x
<u>F</u> ile <u>C</u> o	onfiguration <u>O</u> ptions	<u>H</u> elp			<u></u>					
92	2 🐺 🕾	1 🖬 🗍	F   🕿 🛛	) 📥 🐻 🐫	<b>™</b>	<b>4</b> .				
6	1 devices, 0 selected						Type to	search		×
Ť	Name	Status	Address	Host Name	Serial Number	Model	Firmware	DHCP	Server	
	192.168.1.90	ОК	<u>192.168.1.90</u>		00408CCA0520	AXIS P7214	5.50.2	No	JGOLOMBEK	
Aları	ms Tasks									, V
Time	Alarm	D	escription							~
$\sim \prime$	devices onnected to JGOLOMBEK									

Figure 10.5: Device added

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

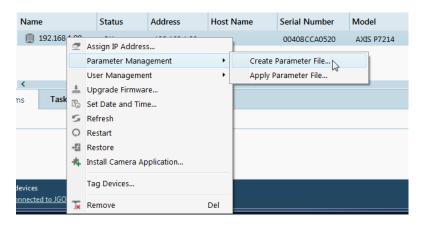


Figure 10.6: Creating Parameter File

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

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

# 11 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 **[RE-SET]** button (1) while reconnecting with the power supply.

AXIS Q7404

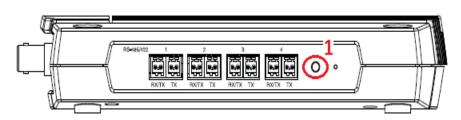


Figure 11.1: Reset button AXIS Q7404

AXIS P7214

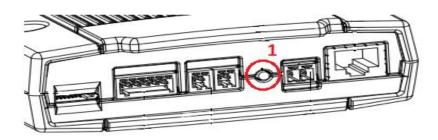


Figure 11.2: Reset button AXIS P7214

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.

# 12 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.

blue PiraT 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).

blue PiraT2 5E: It is possible to use the front Ethernet port (ETH #1 / TSL) or one of the back ports (ETH #2 to ETH #5).

**blue PiraT2:** It is possible to use the **Gigabit-Ethernet** port on the front side or the **Ethernet kit** on the back.

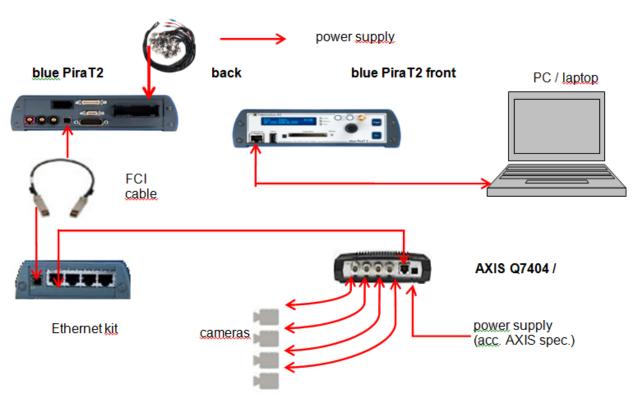
At the blue PiraT2 / blue PiraT2 5E the back ports should be preferred. In this case the front port still can be used for access to the logger while the Video Encoder is recording data. This alternative is described in the following.

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 blue PiraT2 (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.



Universal cable set

Figure 12.1: Connecting video equipment to a data logger

# 13 Configuring the data logger

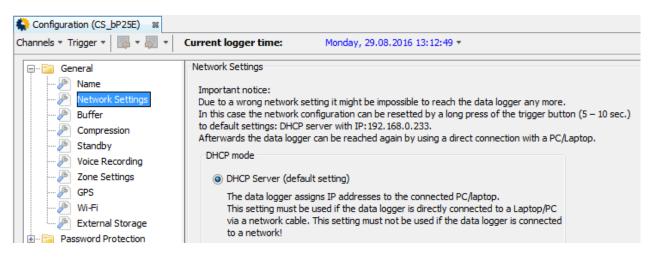
## 13.1 General settings

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 Telemotive System Client. Expand the folder **[General]** in the window to the right and click on **[Network settings]**. Enable the <DHCP mode> **(0)** DHCP server.

			-
IP	Connected with	S/N	1
192.168.0.233		1003696	-
10.64.76.48	qi11214		
10.64.76.189	qi10382	1005419	:
10.64.76.205	qi10695	1001704	
1	2 2 4	5 6	7
_			_
0			Ä
	192.168.0.233 10.64.76.48 10.64.76.189 10.64.76.205	192. 168.0.233         10.64. 76. 48       qi11214         10.64. 76. 189       qi10382         10.64. 76. 205       qi10695	192.168.0.233       1003696         10.64.76.48       qi11214         10.64.76.189       qi10382         10.64.76.205       qi10695         10.64.76.205       qi10695

Figure 13.1: Selecting an application in the Telemotive System Client



### Figure 13.2: Setting the network settings in the Telemotive System Client

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

You can activate or deactivate the automatic standby at [General]  $\rightarrow$  [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.

## 13.2 Camera settings

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

🖃 🔚 General	Buffer
Mame P Network Settings	Circular Buffer Mode Active
🔑 Buffer	Protection of Startup Data
Compression	End Time of Protected Data Block: 0 Seconds After Startup
Standby	
Voice Recording	Protection of Marker Data
Zone Settings	In case of a full data logger with enabled circular buffer mode:
🦉 GPS	Delete the video data first, only then the remaining trace data
Wi-Fi	💷 Destant the data of a Madea from being supervitter.
External Storage	Protect the data of a Marker from being overwritten
⊕	
🕀 📲 LIN	Start Time of the Data Block
🕀 📲 Serial	Last startup before the marker
i∎…≉i MOST	600 seconds before the Marker
🗄 📲 FlexRay	
🕀 🍬 🎫 Ethernet	End Time of the Data Block
🕀 📲 Analog	First shutdown after the marker
🗄 📲 Digital Input	
🗄 📲 Digital Output	600 seconds after the Marker
🗄 📲 Camera	
🗄 🔚 Trigger	

Figure 13.3: Setting the time range around a marker

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

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.

🕀 🖻 General	General Settings						
🕀 🍨 CAN	☑ Only Record Video Data Around a Marker						
🗄 📲 LIN	Note: The time range is equivalent to the time range used for data protection. See Buffer Settings						
😥 🍋 Serial							
🖶 🍬 Ethernet	Video Block Length: 60 s (Default: 60s)						
🗄 📲 Analog	Synchronisation of the camera time with the data logger time every 200 s (Default: 200s) 0 = No synchronisation while recording						
🗄 📲 Digital Input							
💼 📲 Digital Output							
🖨 🍋 Camera	Video Servers: No video server / video server with 4 IPs -						
P Camera #1 (Camera-1) inactive							
🖉 Camera #2 (Camera-2) inactive							
🖉 Camera #3 (Camera-3) inactive							
🖉 Camera #4 (Camera-4) inactive							
P General Settings							

Figure 13.4: General settings of the camera functionality

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

I	General Settings								
	Only Record	Only Record Video Data Around a Marker							
	Note: The tin	ne range is equivalent to the time range used for data protection. See Buffer Settings							
	Video Block Lengt	60 s (Default: 60s)							
	Synchronisation of	of the camera time with the data logger time every 200 s (Default: 200s) 0 = No synchronisation while recording							
	Video Servers:	Video server with one IP and 4 channels							
		IP Address: 192 . 168 . 1 . 90							

Figure 13.5: Setting an IP address

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.

<b>.</b>	General	Camera #1	
±	CAN 2	Camera Interface Activ	
	LIN		o data around a Marker" is active! See general camera settings
÷	Serial	A Note: Only record vide	so data al ound a marker is active: <u>see general camera setungs</u>
<b>€€</b>	Ethernet	Name:	Camera-1
÷*	Analog	Connection	
<b>⊡€</b> ⊡	Digital Input 3	Connector:	Back 💌
<b>⊡€</b>	Digital Output	IP Address:	192 . 168 . 1 . 90 4
<b>•</b>	Camera		
1	Camera #1 (Camera-1)	IP Address of Data Longer:	
	Camera #2 (Camera-2) inactive	Subnet Mask:	255 . 255 . 255 . 0 7
	Camera #3 (Camera-3) inactive	Subrict Husit.	
	Camera #4 (Camera-4) inactive		
	General Settings 5	Default password	
∎	Trigger	Enter Password:	
÷	Signal Based Filter		6
	CCP/XCP	Repeat Password:	
±	Online Streaming		Note: The Password must be between 3 and 8 characters in length and
	Live View		must contain only numbers and letters (0-9 , A-Z , a-z ) (no umlauts)
÷ 🔁	Channel Mapping		
<b>⊡⊡</b>	System Link (TSL)		
÷ 🚞	Databases		
			8
		Default configura	ation Load from file Save as file Write to logger

#### Figure 13.6: 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 AXIS P1204, F41	192.168.1.90	192.168.1.91	192.168.1.92	192.168.1.93
AXIS P7214, F44	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.

## 13.3 Front display of blue PiraT2

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.



Figure 13.1: 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.

- 💽 Te	lemotiv	ve AG ——
	SER	NNNNN XX

### Figure 13.2: 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.

Te	lemotiv	ve AG —
	SER	NNNNNN TT

Figure 13.3: Display: VID TT--

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

## 14 Downloading video data

The Telemotive 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 15)

Download and conversion of data is explained in detail in the **Telemotive System Client User Guide**. This manual you can find in the ServiceCenter of Telemotive AG.

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 log-ger.

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.

# 15 Converting video data

The Telemotive 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).

Please keep in mind, that when converting into one video file, the system can combine a maximum of 400 video blocks per file. After that the client opens a new file.

For both options the result will be the ".mpeg4" video format.

	4
Camera #1 (Camera 1)	MPEG4 - Video format, one file (*.mpeg4) 🔹 🚽 📩
Camera #2 (Camera-2)	MPEG4 - Video format, separate files(*.mpeg4)
	MPEG4 - Video format, one file (*.mpeg4) MPEG4 - Video format, one file (3.mpeg4)
Camera #4 (Camera-4)	MPEG4 - Video format, one file (*.mpeg4) 🚽 1 🗙

Figure 15.1: Settings for converting video data in the Telemotive System Client

The Telemotive 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.

	Open selection
offline_bpng_Limit	
data	
🕀 🕕 🎼 fpgaa	
trace	

Figure 15.2: Choose an offline dataset

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

## 16 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.

# 17 Axis IP Utility

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

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

File View Tools Help		
£\$5		Suchwort eingeben
Name	IP-Adresse	Seriennummer
AXIS F44 - ACCC8E37769F	192.168.1.90	ACCC8E37769F
AXIS P1214 - ACCC8E06A3A6	192.168.1.91	ACCC8E06A3A6

#### Figure 17.1: 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.

# 18 Abbreviations

Kürzel / abbreviation	Bedeutung / meaning
blue PiraT	Processing Information Recording Analyzing Tool
bP	blue PiraT
bP2	blue PiraT2
bP2 5E	blue PiraT2 5E
bPMini	blue PiraT Mini
RC Touch	Remote Control Touch
bP Remote	blue PiraT Remote
A2L	ASAM MCD-2 MC Language
AE	Automotive Electronics
ACK	ACKnowledged
CAN	Controller Area Network
ССР	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	Fleld 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	Measure Calibrate Diagnose
MDX	Meta Data EXchange Format
MEP	MOST Ethernet Packet
MOST	Media Oriented Systems Transport ( <u>www.mostnet.de</u> )
ODT	Object Descriptor Table
ODX	Open Data EXchange
OEM	Original Equipment Manufacturer

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PHY	PHYsical Bus Connect
PW	Passwort
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
ТМР	Telemotive Packetformat
TSL	Telemotive System Link
UDP	User Datagram Protocol
USB	Universal Serial Bus
UTC	Universal Time, Coordinated
Wi-Fi	Wireless Fidelity
WLAN	Wireless Local Area Network
ХСР	Universal Measurement and Calibration Protocol

Table 18.1: Abbreviations

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