

# **Camera User Guide**

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Telemotive

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<u>General\_Terms\_and\_Conditions\_of\_Sale\_and\_Delivery\_Telemotive\_AG.pdf</u>

# 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

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

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

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

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 120 seconds to be synchronized. The recording starts immediately after the synchronization.

If the Ethernet cable was removed between the Video Encoder / camera and the data logger and plugged in again, the system takes around 11 seconds for the resynchronization. If the supply voltage is removed from the Video Encoder / camera during the recording, it takes about 120 seconds to be synchronized (after a reconnection).

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

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

This document refers to **firmware version 03.04.01** and the **Telemotive System Client** from **version 3.4.1**. 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.



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

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

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

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

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

# 4 System requirements

#### **Control Unit**

A Windows based Laptop or PC is needed to configure the devices 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. 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 Accessing a connected camera / camera server

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

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

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



# 4.2 Further manuals

Beside this user 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

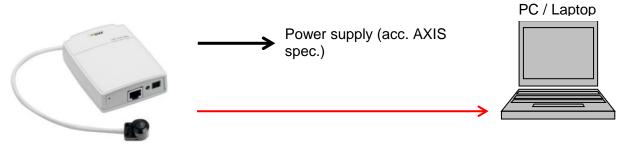
Our licensed enhancements have own manuals which are stored in the ServiceCenter too. You will find a list of these enhancements in the user manuals in the chapter **Additional features by optional licenses**.

# 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					
Subnet mask:	255 . 255 . 255 . 0					
Default gateway:						
C Obtain DNS server address automatically						
□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	resses:					
Preferred DNS server:						
Alternate DNS server:						
☐ Validate settings upon exit Advanced						
	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			
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 5.2: Create a user password

After setting the password please login to the web interface:

Authentication	Authentication Required						
http://192.168.0.90 is requesting your username and password. The site says: "AXIS_ACCC8E0							
User Name:	root						
Password:	ord: ••••						
	OK Cancel						

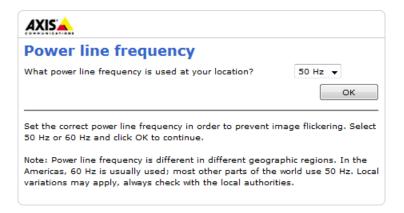
#### Figure 5.3: Login to the web interface

User name: root

Password: (your chosen password from before)

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

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



#### 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...].
```

AXIS A	XIS P1204 Networ	k Camera Live View	Setup   Help	
<ul> <li>Basic Setup</li> </ul>	Users		0	
Instructions	User List			
1 Users	User Name	User Group		
2 TCP/IP 3 Date & Time 4 Video Stream	root	Administrator	*	
▶ Video				
Live View Config				
Detectors				
Applications	Add Modify	Remove		
• Events	HTTP/RTSP Password	HTTP/RTSP Password Settings		
• Recordings	Allow password type: End	crypted & unencrypted 👻		
System Options	User Settings			
About	Enable anonymous vie	Enable anonymous viewer login (no user name or password required)		
	🗹 Enable Basic Setup	Enable Basic Setup		
		Save Reset		

#### 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:	Viewer Operator Administrator
OK Car	ncei

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.

AXIS A	XIS 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.		
, video	Time mode:		
Live View Config	Synchronize with computer time		
> Detectors	Date: 2014-08-01 Time: 14:13:44		
	Synchronize with NTP server		
Applications	NTP server: No server specified		
• Events	Set manually		
	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	Own %F		
	Specify time format: Predefined 24h  With resolution: 1 second		
	Own %T		
	Save		

#### 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]**.

AXISA AX	CIS P1204 Network Camera Live View   Setup   Help		
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 v degrees		
Live View Config	Video Stream		
	Maximum frame rate:		
Detectors	Onlimited		
Applications	C Limited to [130] fps per viewer		
• Events	Overlay Settings		
r Events	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 <Maximum 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

IPv4 Address Configuration		
🕅 Enable IPv4		
Obtain IP address via DHCP		
Ose the following IP address:		
IP address:	192.168.1.90	Test
Subnet mask:	255.255.255.0	
Default router:		

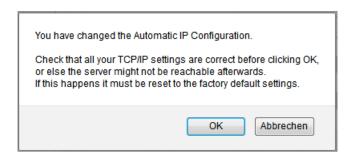
#### Figure 5.10: Setting an IP address

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.

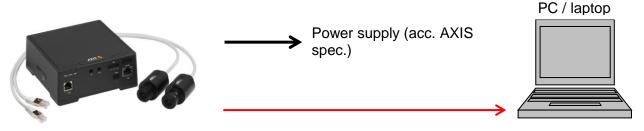
When the Stat-LED turns green the process is finished.

# 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.			
C 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:			
C Obtain DNS server address autor	matically		
□	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.

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

#### Figure 6.3: Creating an user password

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

Authentication	Required
?	http://192.168.1.90 is requesting your username and password. The site says: "AXIS_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.

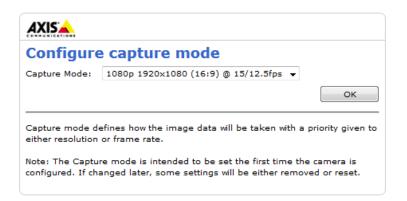


Figure 6.5: Configure the capture mode F41

Config	ure capture mode
Capture Mode:	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 Note: The C	de defines how the image data will be taken with a priority given to 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

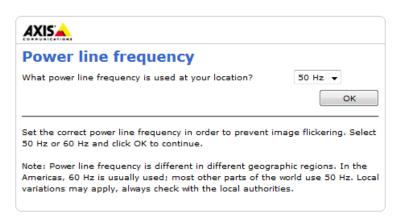


Figure 6.6: Configure the power line frequency



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			
<ul> <li>Applications</li> </ul>			$\checkmark$
• 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:adrPassword:2x8

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** 

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)		
_	<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>	O Synchronize with NTP server		
Applications	NTP server: No server specified		
. Frank	Set manually		
Events	Date: 2014-11-18 Time: 15:29:08		
Recordings	Date & Time Format Used in Images		
Languages	Specify date format:      Predefined      YYYY-MM-DD		
	96F		
<ul> <li>System Options</li> </ul>	Specify time format:   Predefined 24h  With resolution: 1 second		
About			
	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 Netw	vork Camera	Live View   Setup   Help
▼ Basic Setup	Video Strea	m Settings	0
Instructions	Image Audio	H.264 MJPEG	
2 TCP/IP	1 Users 2 TCD/ID Image Appearance		
3 Date & Time	Capture mode:	1080p 1920×1080 (16:9) @ 15	5/12.5fps
🝷 4 Video Stream	Resolution:	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 rat	e:	

Figure 6.11: Settings for cameras 1 - 4

AXIS	AXIS F41 Network Camera Live View   Setup   Help
Basic Setup     Instructions	Video Stream Settings
1 Users	Image Audio H.264 MJPEG
2 TCP/IP	Image Appearance
3 Date & Time 4 Video Stream 5 Audio Settings	Capture mode:         1080p 1920×1080 (16:9) @ 25/30 fps (WDR)           Resolution:         1920×1080 (16:9) ✓ pixels
5 Audio Setunys	Compression: 30 [0100]
Video & Audio	Mirror image
Live View Config	Rotate image: 0 🗸 degrees
• Live view Coning	Video Stream
Detectors	Maximum frame rate:
	O Unlimited
<ul> <li>Applications</li> </ul>	O Limited to [125] fps per viewer
• Events	Overlay Settings
	Include overlay image at the coordinates: X 0 [0] Y 0 [0]
<ul> <li>Recordings</li> </ul>	☑ Include date ☑ Include time
Languages	Include text:
· Sustan Ontions	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 💙 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	Enable audio	Note that the image preview is without audio.	
4 Video Stream 5 Audio Settings	Current Audio Settings:		
o riddio octailigo	<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 Network Camera Live View   Setup   Help	
Basic Setup	Audio Settings	
Midea & Andle	Audio Channels	
<ul> <li>Video &amp; Audio</li> <li>Video Stream</li> </ul>	Audio mode: Full duplex: V	
Stream Profiles	Audio Input	
Camera Settings	Source: Microphone V	
Overlay Image Privacy Mask	Microphone power	
Audio Settings	Input gain: 0 V dB Level: -40 -46 0 dt	
Audio Clips	Encoding: AAC V	
Live View Config	Sample rate: 32 V kHz	
	Bit rate: 128 V kbits/s	
<ul> <li>Detectors</li> </ul>	Note: The Java applet only supports G711 audio. QuickTime supports G711 and AAC.	
<ul> <li>Applications</li> </ul>	Audio Output	
• Events	Output gain: 0 V dB Save Reset	
Applications	Audio Output Output gain: 0 V dB	

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).

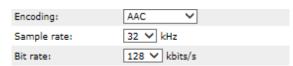


Figure 6.17: Adjust audio quality

# 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 Addres	s Configuration			
🛛 Enable IP	v4			
Obtain IP	address via DHCP			
Ose the feature	ollowing IP address:			
IP address:		192.168.1.90	Tes	st
Subnet mask:		255.255.255.0		
Default ro	outer:			

#### Figure 6.18: Setting an IP address

Confirm the settings with [Save].

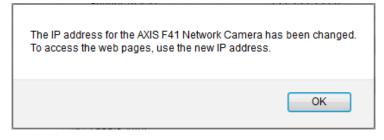
#### Note:

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 Automatic	c IP Configuration.
Check that all your TCP/IP setting or else the server might not be re If this happens it must be reset t	
	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:

All Devices [1] All Devices [1] Warnings/Etrors My Groups Apply Template - Ocean + Kamera_AxisConfigTemplate_v1.0 Apply Template - Ocean + Kamera_AxisConfigTemplate_v1.0 Template Modet Axis 207 (4.40) Template Date format Max viewers 10 0wn date format 2F 0wn dite format 2F 0wn time format 97 Te parameter "IPAddess = "192.168.0.90" is not recomme (String) Une Description 97 107	d Warnings
Template         Modet       AxIS 207 (4.40)         Image         Date format         Max viewers         10       [0.10]         Own date format       2/F         String]         Own date format       2/T         Own time format       2/T         Ine       Description         Ine       Description         Ine       Description         Ine       Description	d Warnings
Date format       YYYYYMM/DD         Max viewers       10       [0.10]         Own date format       %F       [String]         Own date format enabled       no       Y         Own time format       %T       [String]         Own time format enabled       no       Y         Referrers       [String]         Line       Description         Image: Parameter "IPAddress = "192.168.0.90"" is not recomme.	^
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       Description         Image: Parameter "IPAddress = "192.168.0.90"" is not recomme.	
Own date format enabled       no         Own time format       %T         Own time format enabled       no         Own time format enabled       no         Referrers       [String]         Line       Description         Image: Stription       97         The parameter "IPAddress = "192.168.0.90"" is not recomme.	
Own time format enabled no [String] Referrers [String] Line Description 97 The parameter "IPAddress = "192.168.0.90"" is not recomme.	
Line Description	
97 The parameter "IPAddress = "192.168.0.90"" is not recomme	~
• 107 The parameter Divisioname = is not recommended to set in	
Note: Some parameters vary between models. Use model drop-down list to review the template for different models.	
Name Address Serial Number Model Firmware	

Figure 7.2: Apply template



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

#### A dialog opens.

4. Check the configuration process.

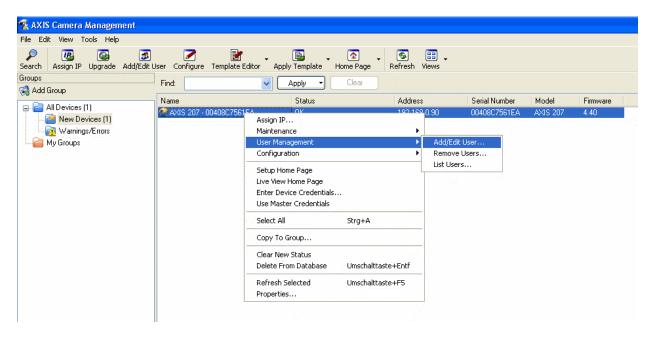
Show		Find			
Event #	1 to 1 (of 1)	Text		Apply -	Clear
Status	Date	▼ Event	Address	Serial Number	1
🔁 ОК	18.04.2007 11:59	1:30 Template Config	192.168.0.90	00408C7561EA	
Date:			168.0.90		
Event	Template Config	Serial Number: 004	08C7561EA		
Event Protocot	Template Config HTTP	Serial Number: 004 Model: 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>

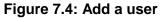
Figure 7.3: Result of the configuration process

### 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]  $\rightarrow$  [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 Live View   Setup   Help			
Basic Configuration	Server Maintenance			
	Maintain Server			
Video & Image	Restart Restart the AXIS 210 Network Camera.			
Live View Config	Kestelt the Arts 210 network centers.			
	Restore Resets all parameters, except the IP parameters, to the original factory settings.			
Event Configuration				
System Options	Default Resets all parameters to the original factory settings.			
<ul> <li>Security</li> </ul>	Upgrade Server			
Date & Time	Upgrade the AXIS 210 Network Camera with the latest firmware.			
<ul> <li>Network</li> <li>Ports &amp; Devices</li> </ul>	Specify the firmware to upgrade to: Durchsuchen and click Upgrade			
LED settings Maintenance	Note: Do not disconnect power to the unit during the upgrade. The unit restarts automatically after the upgrade has completed. (1-10 minutes.)			
Support	Backup			
Advanced	Save all parameters and user-defined scripts to a backup file. Backup			
ADOUL	Restore			
	Use a saved backup file to return the unit to a previous configuration.			
	Specify the backup file to use: Durchsuchen and 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	k Camera	Live View   Setup   Help		
<ul> <li>Basic Configuration</li> </ul>	Basic TCP/IP Se	Basic TCP/IP Settings			
Instructions	IP Address Configuration				
1. Users	O Obtain IP address via DHCP View				
2. TCP/IP 3. Date & Time	Use the following IP address:				
4. Video & Image	IP address:	192,168.	0.90 Test		
Video & Image	Subnet mask:	255.255.			
Live View Config	Default router:	192.168.	0.1		
• Event Configuration	Services				
	Options for notification of IF	address change Settings			
System Options	AXIS Internet Dynamic DNS Service Settings		····		
About		Save Reset			
	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	
	OK Abbrechen

#### Figure 7.8: Hint 1

The IP address for the AXIS 211A Network Camera has been cha To access the web pages, use the new IP address.	nged.
ОК	

### 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 a company of Magna	blue PiraT2 / 5E / Mini Camera User Guide	Datum: 22.01 Seite 38 v
AXIS	AXIS 210 Network Camera	Live View   Setup   Help
<ul> <li>Basic Configuratio Instructions         <ol> <li>Users</li> <li>TCP/IP</li> <li>Date &amp; Time</li> <li>Video &amp; Image</li> </ol> </li> <li>Video &amp; Image</li> <li>Live View Config</li> <li>Event Configuration</li> </ul>	User List User Name User Group Toot Administrator admin Administrator	
<ul> <li>System Options</li> <li>About</li> </ul>	Add Modify Remove	

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

Save Reset

Maximum number of simultaneous viewers limited to: 20 [0..20]

Subsequent viewers will see a blank image.

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			
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]**.

Basic Configuration	Image Settings			
,	Image Appearance			
<ul> <li>Video &amp; Image Image</li> </ul>	Resolution:	640x480 💓 pixels		
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	Contrast:	50 [0100] (Does not affect Test image)		
oystem options	* Changes to color level do not affect Test image (exception 0 = B/W)			
About	Text Overlay Settin	qs		
	🗹 Include date	Include time		
	Include text:			
	Text color: white 😒	Text background color: black		
	Place text/date/time a	t top 🕑 of image		
	Video Stream			
	Maximum video stream time:			
	Unlimited			
	O Limited to [1] seconds Y per session			
	Maximum frame rate:			
<	O Limited to 15	[130] fps per viewer		
	Test			

### Figure 7.12: Include date and time in the video stream

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

#### Note:

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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 💙			
→ Live View Config	Length:	32 [1-150]			
Flive view Coning	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	

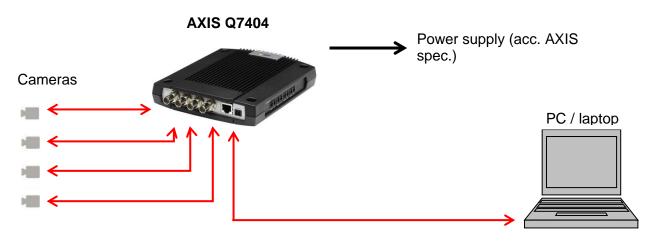
Figure 7.13: MPEG-4 settings

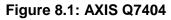
# 8 Configuring the Video Encoder AXIS Q7404

## 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.





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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	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 autor	natically
○ 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 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.

AXIS	
<b>Create Certificate</b>	
Secure configuration of the root certificate.	password via HTTPS requires a self-signed
Create self-signed certificate.	
Configure Root Pa	ssword using HTTP
User name:	root
Password (max 64 characters):	
Confirm password:	
	ОК
The password for the pre-configue before the product can be used.	ured administrator root must be changed
	he product must be reset to the factory default located in the product's casing. Please see the formation.

Figure 8.3: Creating a user password

After setting the password please login to the video server:

Authentication	Required
0	http://192.168.0.90 is requesting your username and password. The site says: "AXIS_00408CC0FBC9"
User Name:	
Password:	
	OK Cancel

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

C Telemotiv		Datum: 22.01.2019 Seite 44 von 80
AXIS	AXIS Q7404 Video Encoder	e View   Setup   Help
▶ Basic Setup	Languages	()
► Video & Audi	Get a language file from www.axincom	
Live View Co	nfig Upload Language	
► PTZ	Select language file to upload: Browse No file selected. an Select Language	d click Upload Language
Detectors	English	
Applications	Save Reset	
• Events		
Recordings		
Languages		
System Option	DNS	
About		

### Figure 8.5: Selecting a language

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

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

AXIS	AXIS Q7404 Video Encoder	Live-Ansicht   Einrichtung   Hilfe
Video-Streamprofil Motion JPEG V		
Sec.		
-		
D	and the second	
-		
NAME AND ADDRESS OF TAXABLE		
		The second se
	The set of the Market and the set of the set of the set	
		A DESCRIPTION OF THE PARTY OF T
		Line Dr.
ALC: NO.		and the Barris and the State of the
		A CONTRACTOR OF THE OWNER
		and the second se
		A REAL PROPERTY OF THE REAL
Wiedergabe von	Matin TER	and the second se
Wiedergabe von		
	5	<b>R</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		
<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					
	HTTP/RTSP Pa	ssword Settings			
	Allow password t	ype: Encrypted & unencry	pted 💌		
	User Settings				
	7 Dable anony	ymous viewer login (no use	er name or password rec	quired)	
	Enable anony	ymous PTZ control login (n	o user name or passwo	rd required)	
	🗹 Enable Basio	: Setup 8 Save	Reset		

### Figure 8.7: Adding a new user

A new window opens.

left System Options/User Setup - AXI	IS Q 🗖 🗖 💌 🗙
192.168.0.90 / admin/users_set.sh	ntml?basic=yes&gr( 🏠
User Setup	Na (4)
Password (max 8 chars.):	too
Confirm password:	Re
User group: O	Viewer Us Operator Pa Administrator
Enable PTZ control	cel Cł

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

2x8bg4

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

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

## 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 Vid	deo Encoder Live View   Setup   Help		
• Basic Setup	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:			
• Live View Config	0	Synchronize with computer time Date: 2012-07-20 Time: 18:18:29		
• Events	0	Synchronize with NTP server		
h Sustan Ontions		NTP server: No server specified		
System Options	10 Set manually			
About	Date: 2012-07-20 Time: 18:19:00			
	Date & Time Forma	t Used in Images		
	Specify date format:	YYYY-MM-DD		
		Own %F		
	Specify time format:	Operation of the second of		
		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     Lusers	Video Stre	eam Settings	
2 TCP/IP	Image Appeara	nce	
3 Date & Tream 6	Resolution:	Aspect ratio correction	
S Addie Settings	Compression:		
Video & Audio	ARCONTRACTOR AND A	30 [0100]	
Live View Config	Mirror image		
Live view coming	Rotate image:	0 degrees	
PTZ	Color setting: Color Video Stream		
<ul> <li>Applications</li> <li>Events</li> <li>Recordings</li> <li>System Options</li> <li>About</li> </ul>	<ul><li>Include date</li><li>Include text:</li></ul>	(130) fps per viewer y image at the coordinates: x 0 [0] ¥ 0 [0] Include time 7. Text background color: black 8	
	Proview View image stream	while configuring. Video format: MJPEG Video format: 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. Ucore 2 TCP/IP 12		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	13	Use the following IP address: 14
→ Live View Config		IP address: 192.168.1.90 Test
• Events		Subnet mask: 255.255.0
System Options		Default router:
v system options		IPv6 Address Configuration
About		Enable IPv6
		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

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.

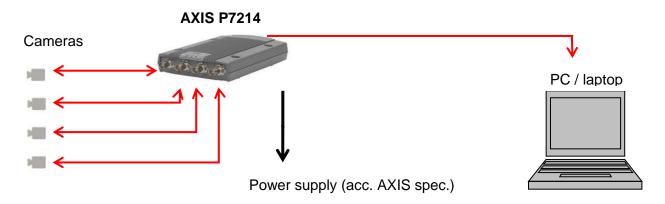


Figure 9.1: Connecting a Video Encoder

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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				
Subnet mask:	255.255.255.0				
Default gateway:					
${f C}$ 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 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.

IXIS 🔺				
create Certificate				
ecure configuration of the root password via HTTPS requires a self-signed rtificate.				
Create self-signed certificate				
Configure Root Password using HTTP				
ser name: root				
assword (max 64 characters):				
onfirm 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 9.3: Selecting a user password

After setting the password please login to the video server:

Authentication	Required
?	http://192.168.0.90 is requesting your username and password. The site says: "AXIS_ACCC8E06A3A6"
User Name:	
Password:	
	OK Cancel

### Figure 9.4: Login to the video server

User name: root

Password: (your chosen password from before)

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

	XIS P7214 Video Encoder	Live View   Setup   Help
▶ Basic Setup	Languages	0
	Get Language	
Video & Audio	Get a language file from <u>www.anis.com</u>	
Live View Config	Upload Language	
→ PTZ	Select language file to upload: Browse No file selected.	and click Upload Language
	Select Language	
Detectors	English	
• Events	Save Reset	
Recordings		
Languages		
System Options		
About		

Figure 9.5: Select a language

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

AXISA	AXIS P7214 Video Encoder	Live View Setup Help
Stream profile Motion JPEG	Video Stream or P12 creset	
	Video 1 Video 2 Video 3 Video 4 Video 4 Video 4	

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

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 V	ideo Encoder	Live Viev	v 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			-	
<ul> <li>System Options</li> <li>About</li> </ul>		Add	Modify Remove			
About		HTTP/RTSP Pa	ssword Settings			
		Allow password ty	ype: Encrypted & unencry	pted 💌		
		User Settings				
	7	Dhable anony	/mous viewer login (no use	er name or password re	quired)	
		Enable anony	ymous PTZ control login (n	o user name or passwo	rd required)	
		🗹 Enable Basic	: 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&grc 🏠
User Setup 4 🕜
User name:
Password (max 8 chars.):
Confirm password:
User group: Oviewer 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.

	(IS P7214 Vid	Live View   Setup   Help					
★ Basic Setup	Date & Time	Settings 👔					
Instructions	Current Server Time						
1. Users 2. TCP/IP 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     Predefined     24h ▼     With resolution: 1 second     ▼					
		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).

Basic Setup     Instructions		eam Settings
1 Users	Image Audio	H.264 HIPEG
2 TCP/IP 3 Date & Time Video Stream 6	Image Appeara Resolution:	Aspect ratio correction 4CIF (704 x 480)
S Addie Settlings	Compression:	
Video & Audio	Mirror image	30 [0100]
Live View Config	Rotate image:	0 💌 degrees
PTZ	Color setting: Video Stream	Color
<ul> <li>Applications</li> <li>Events</li> <li>Recordings</li> <li>System Options</li> <li>About</li> </ul>	Maximum frame ra	[130] fps per viewer y image at the coordinates: X 0 [0] Y 0 [0] Include time 7, Text background color: black 8 te at top of image

### 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.

## 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	O Obtain IP address via DHCP
Video & Audio	OUse the following IP address:
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
	Enable IPv6
Events	Services
Recordings	Enable ARP/Ping setting of IP Address
System Options	Enable AVHS
y system options	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:

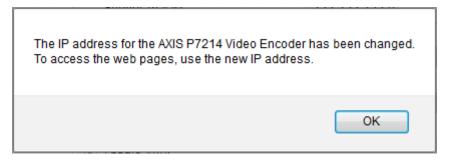
The video server AXIS P7214 has only one IP address. The camera configuration automatically changes the settings of the other cameras. It is therefore unnecessary to set the other cameras.

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

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].

😵 AXIS C	Camera N	lanagement Clie	nt								
<u>F</u> ile <u>C</u> o	<u>File C</u> onfiguration <u>O</u> ptions <u>H</u> elp										
9	Đ	<b>T</b> 📲	1 1 2		8 📥 🖾	いつ 卤	<b>R</b>				
Ø	0 devi	ces, 0 selected						Type to	o search		×
Ť	Name		Status	Address	Host Name	Serial Number	Model	Firmware	DHCP	Server	
Alarr	ms	Tasks									~
Time		Alarm	De	scription							(II
	devices onnected	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	s to add				Minimieren
Search Again	-			Type to search	×
Address	Serial Number	Model	Status		
192.168.1.90	00408CCA0520	AXIS P7214	Incorrect pa	assword	
0 of 1 devices selected Select / deselect <u>a</u> ll					
0 of 1 devices selected Select / deselect <u>a</u> ll <u>U</u> se host name whe	en possible				
			Help	< <u>B</u> ack <u>N</u> ext >	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...].

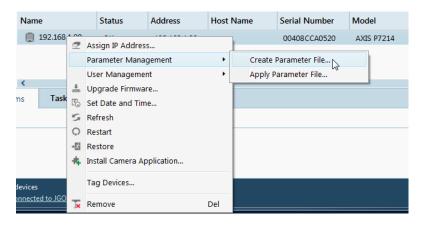


Figure 10.6: Creating Parameter File

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

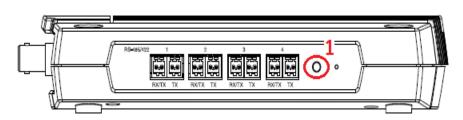


Figure 11.1: Reset button AXIS Q7404

AXIS P7214

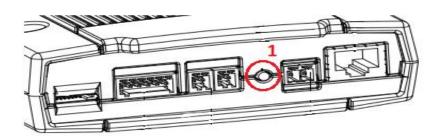


Figure 11.2: Reset button AXIS P7214

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.

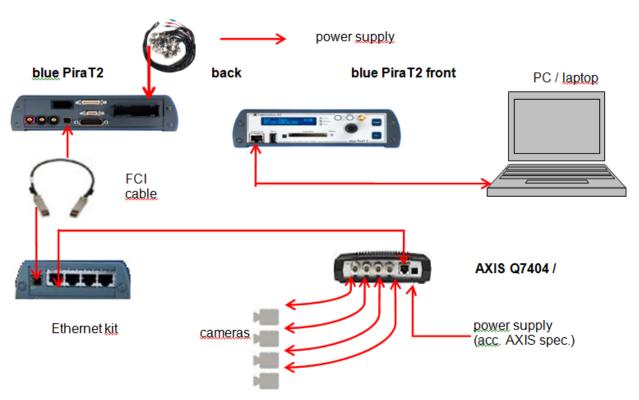
At the blue PiraT2 / blue PiraT2 5E the back ports should be preferred. In this case the front port still can be used for access to the logger while the Video Encoder is recording data. This alternative is described in the following.

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 or **(0)** Automatic DHCP Configuration for TSL.

Network Logger 🕷				-
Name	IP	Connected wit	h S/N	*
📥 CS_bP2-S_1003696	192.168.0.233		1003696	-
L_EN_II_KBr	10.64.76.48	qi11214		
DUT 199	10.64.76.189	qi 10382	1005419	Ξ
DUT_187	10.64.76.205	qi 10695	1001704	
EN_PhS_touchTSL (4)				-
+ Enter IP address	4	2 3	4 5 6	7
	_	2 3 4		_
	Ø	D 🖡 👗	2 🔹 🔬	A

Figure 13.1: Selecting an application in the Telemotive System Client

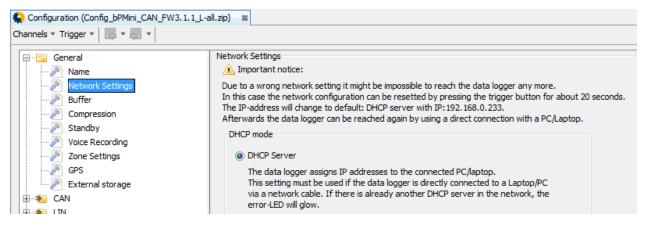


Figure 13.2: Setting the network settings in the Telemotive System Client

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

## 13.2.1 Camera | General 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]**.

🕀 💼 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 0 s (Default: 0s)
🖶 🐀 Digital Input	▲ Important notice: 0 = No synchronisation while recording
🖶 🍬 Digital Output	
🖨 🍋 Camera	Encrypt video data: Inactive
🖉 Camera #1 (Camera-1) inactive	Password:
🔊 Camera #2 (Camera-2) inactive	Change Delete
P Camera #3 (Camera-3) inactive	
P Camera #4 (Camera-4) inactive	Hint: The password settings can be reset by setting the default-configuration.
General Settings	Hint: Already encrypted video data remain encrypted when the password is changed/deleted.
🖶 🍬 USB	
🖶 🔚 Trigger	Video Servers: No video server / video server with 4 IPs 🗸
🐵 📄 Signal Based Filter	

Figure 13.3: Camera => General settings

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

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

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

🖃 💼 General	Buffer
🤌 Name 🥬 Network Settings	
🤌 Buffer	Protection of Startup Data
P Compression P Standby	End Time of Protected Data Block: 0 Seconds After Startup
Voice Recording	Protection of Marker Data
Zone Settings	
P GPS	In case of a full data logger with enabled circular buffer mode: Delete the video data first, only then the remaining trace data
🎤 Wi-Fi	belete the video data moty only then the remaining date data
	Protect the data of a Marker from being overwritten
🗄 📲 CAN	
🗄 📲 LIN	Start Time of the Data Block
🗈 📲 Serial	Last startup before the marker
terenter te	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 13.4: Setting the time range around a marker

Telemotive     a company of Magna	blue PiraT2 / 5E / Mini Camera User Guide	Datum: 22.01.2019 Seite 66 von 80
General Settings           Image: Only Record Video Data Around           Note: The time range is equivale	a Marker nt to the time range used for data protection. <u>See Buffer Settings</u>	
Video Block Length: Synchronisation of the camera time		
Encrypt video data: Inactive Password: Change Dele	Important notice: 0 = No synchronisati te	ion while recording

Hint: Already encrypted video data remain encrypted when the password is changed/delete
---

#### Figure 13.5: Camera => General settings

No video server / video server with 4 IPs

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

Ŧ

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

#### Note:

Video Servers:

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

### 13.2.1.1 Encrypting video data

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

Encrypt video data: Inactive
Password:
Change Delete

### 13.2.1.2 Setting the video server

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

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

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

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

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

#### Attention:

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

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

Video Servers:	Video server	with o	ne	IP an	d 4	l chai	nnel	S	•]
	IP Address:	192	].	168	].	1	•	90	

Figure 13.6: Setting an IP address

### 13.2.1.3 Configuring the cameras

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

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

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

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

<b>Telemotive</b>	blue PiraT2 / 5E / Mini Camera User Guide	Datum: 22.01.2019 Seite 68 von 80
General     G	2       Camera #1         2       ✓ Camera Interface Active         ▲ Note: Only record video data around a Marker" is active! See generation         3       Connector:         Back       IP         4       IP Address:       192         192       168       1       90         4       IP Address of Data Looger:       192       168       1       233         Subnet Mask:       255       255       0       5         5       ✓ Default password:       Friter Password:       1       1	7 5 and 8 characters in length and
	Default configuration Load from file Save a	s file Write to logger

Figure 13.7: Configuring the cameras

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

	Camera 1	Camera 2	Camera 3	Camera 4
AXIS Q7404, 207, 210, 211 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	lemoti	ve AG —
	SER	NNNNN 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 or directly under this link:

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

While all of the other trace files are recorded in the Telemotive format from the logger, video signals are directly provided as MPEG4 stream from the camera and saved as it is on the 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
	MPEG4 - Video format, one file (*.mpeg4) 🛛 🗸 🚽 🗙
Camera #2 (Camera-2)	MPEG4 - Video format, separate files(*.mpeg4)
	MPEG4 - video format, one file (*.mpeg4)
Camera #3 (Camera-3)	MPEG+ Video format_one file (*.mpeg4) 🔹 1 🗙
Camera #4 (Camera-4)	MPEG4 - Video format, one file (*.mpeg4)

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

Ó	Telemotive
	a company of Magna

DUV	
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
TMP	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

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