

# blue PiraT2 Camera User Guide

Version 1.9.1 - 29.01.2014





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## 3. Overwiev

The following documentation describes the usage of a system composed of an AXIS Video-Encoder Q7404 or P7214, the AXIS Network-Cameras 207, 210 or 211 and a blue PiraT2 data logger. The Video-Encoders are used to connect analog (PAL / NTSC) cameras. The network cameras can be connected directly.

For general points refer to the manual "User Guide". For special functions, appropriate instructions are available.

The system allows the recording of one to four different videos streams at the same time. To make it work, the server and the data logger must be connected to each other and configured separately by a HTML based client. The procedure is explained from chapter 3.

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 between 15 and 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, then the system creates several files. In this way no video data is lost.

### Attention:

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

After rebooting, the system takes approximately 60 seconds to be synchronized. The recording starts immediately after the synchronization.

If the Ethernet cable was removed from the Video-Encoder during the recording and plugged in again, the system takes around 11 seconds for the resynchronization.

If the supply voltage is removed from the Video-Encoder during the recording, the server takes about 54 seconds to be synchronized (after a reconnection).

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

This document refers to blue PiraT2 FW 01.09.01 and blue PiraT2 client version 1.9.1. Some features depending on model and feature license or may not be available in older versions.

Software updates are frequently available in the blue PiraT Service Center. Please make sure to use current software.



## 4. System requirements

### Control Unit

A Laptop or a PC is used to configure the devices by a software client. It also allows to save the recorded data and to use them offline.

#### blue PiraT2

The blue PiraT2 is an optimized data logger developed by Telemotive AG. The communication of bus systems and control units are monitored and relevant data can be recorded very precisely with the blue PiraT2. The collected data are stored on the blue PiraT2 and can be downloaded to a PC

#### blue PiraT2 Ethernet Kit

This device is connected via a FCI cable to the blue PiraT2 and via Ethernet with the AXIS Server. This establishes the connection between blue PiraT2 and the AXIS Video-Encoder and allows connecting to a Local Area Network (LAN).

#### AXIS Q7404 / P7214 Video Encoder

The AXIS Video Encoder is a powerful standalone device with 4 channels. It integrates 4 analog cameras simultaneously into an IP-based video surveillance system. It delivers also super video quality with H.264 and significant savings in bandwidth and storage requirements.

AXIS Q7404 will use 4 different IP addresses for each group of 4 input channels.

AXIS P7214 however will use 1 IP address for each group of 4 input channels.

#### Network-Cameras

1 to 4 cameras are supported to record the video streams. These cameras can be connected to the 4 channels of the encoder. These cameras are supported: AXIS 207, 210 and 211.

The setup of AXIS Network-Cameras 207/210/211 is similar to the configuration of AXIS Q7404 Video-Encoder.

#### **Camera License**

For using the camera feature, a license file must be installed on each blue PiraT2.



## 5. Setup Video Encoder AXIS Q7404

## 5.1. Connecting to the Q7404

Connect your PC with the Video-Encoder via Ethernet. The video signal has to be connected to the Video-Encoder port. Connect the Video-Encoder to the power supply. Wait until the startup is complete (All LEDs are colored in green).



PC

Change your PC IP configuration. Use static IP address with the following setting:

IP address: 192.168.1.80 Subnet mask: 255.255.255.0

## 5.2. Access to Axis Q7404

Open you browser and type in the following URL: 192.168.0.90

Type in your password and keep it in mind or write it down. If the system ask for a further authentication (in some cases), please type in the same user and password like before.



AXIS				
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.				

After setting the password please login to the Video Encoder

When you logged into the Video Encoder the first time, you can change the language settings if required.

After your confirmation, you can see the live stream from camera 1.

Video-Streamprofil Motion JPEG V	
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## 5.3. Installing the admin user

The blue PiraT2 camera application needs a special user with administrator rights.



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Open "Setup" (1), "Basic Setup" => "Users" (2) and choose "Add..." (3). Name the new user "admin" and define a password (4). Keep the data in mind or write it down. Choose the option "Administrator" (5) and click "OK (6). Afterwards, mark the checkbox "Enable anonymous viewer login (no user name or password required)" (7) and confirm all with "Save" (8).

AXISA	AXIS Q74	404 Vide	eo Encoder	L	ve View Set	up I	Help
- Basic Setup	Use	rs				1	0
Instructions	User L	ist					
1 Users 2	User	Name	User Group	User In	ıfo		
3. Date & Time 4. Video Stream 5. Audio Settings	root admin		Administrator Administrator			*	
▶ Video & Audio							
Live View Config							
• Events		3				-	
System Options	Ado	i Mod	lify Remove	)			
About							
	HTTP/	RTSP Passw	ord Settings				
	Allow pa	assword type:	Encrypted & unencr	ypted 💌			
	User S	ettings					
	7 🕢 🖓	ble anonymou	us viewer login (no us	er name or pa	ssword required)		
	Ena	ble anonymou	us PTZ control login (	no user name	or password requi	red)	
	🗹 Ena	able Basic Set	up 8 Save	Reset	]		



2x8bg4

## Note:

To be sure to get access to the Video Encoder by the blue PiraT2 please use the properties above.



## 5.4. Setting date and time

Change to the entry "Date & Time" (9) and activate the checkbox "Set manually" (10).

Set up Date and Time and click "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 it after successful synchronization with the Video-Encoder, with the logger time.

AXIS	AXIS Q7404 Vie	deo Encoder Live View   Setup   Help
→ Basic Setup	Date & Time	Settings 📀
Instructions	<b>Current Server Tim</b>	e
1. Users		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>
<ul> <li>System Options</li> </ul>	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:	Predefined 24h  With resolution: 1 second
		Own %T
		11 Save Reset

You can also display the date and time on the video image. The settings for this feature are described in the following.

### Attention:

Always set the blue PiraT2 time before you start logging. 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.

The setup for embedded timestamp has to be done in the Video-Encoder setup. If the date and time are already set up like described within step 9, 10 and 11 (see above), the format can be set up under "Date and Time Format Used in Images". Confirm these settings with "Save".

Click on "Video Stream" (6) and set up the Overlay Settings. Activate both checkboxes "Include date" and "Include time" (7). If desired, change the format options like "Text color", "Background color", "Text Place" (8) and so on. Confirm the settings again with "Save" (9).



Basic Setup	Video Stre	am Settings	0	
Instructions	Image Audio	11.264 M3PEG		
2 TCP/IP	Image Appearan	ice		
3 Date & Time 6	Resolution:	Aspect ratio correction		
5 Anthio Setting		4CIF (704 x 480)		
	Compression:	30 [0100]		
Video & Audio	Mirror image			
Live View Config	Rotate image:	0 degrees		
PTZ	Color setting:	Color		
	Video Stream			
Applications	Maximum frame rate:			
Events	<ul> <li>Unlimited</li> </ul>			
L'ICHICS .	Limited to     [130] fps per viewer			
Recordings	Overlay Settings			
System Options	D Include overla	y image at the coordinates: X 0	[0] Y 0 [0]	
	E Include date	E Include time 7		
About	D Include text			
	and and and the	and a second sec	0	
	Crext color: White	Text background color: back	- · · · ·	
	Press text/date/tim	e at top image		
	Preview			
	Serve an entering and the			

The set up for embedded timestamp is finished.

## 5.5. IP-configuration

Change to the entry "TCP/IP" (12) and use static IP (13) with the following data (14):

IP address:	192.168.1.90
Subnet mask:	255.255.255.0

Confirm your setting with save (15).

	AX	IS Q7404 Video Encoder Live View   Setup   Help
- Basic Setup		Basic TCP/IP Settings
Instructions		Network Settings
1. Ucers 12		View current network settings: View
3. Date & Time		IPv4 Address Configuration
4. Video Stream		✓ Enable IPv4
5. Audio Setungs		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		IPv6 Address Configuration
About		Enable IPv6
ADOUL		Services
		Enable ARP/Ping setting of IP Address
		AXIS Internet Dynamic DNS Service Settings
		15 Save Reset
		See also the advanced TCP/IP settings

### Note:

By pressing [Save] the new IP address is set to the Video Encoder and in this moment you loose the connection to the device!





For reconnecting you have to connect to the Video Encoder again as described in chapter 5.2.

The first camera, connected to the Video-Encoder, is now configured. If more than one camera should be connected, the same changes for all connected cameras has to be done

	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:

Change your computers IP configuration back to dynamic configuration.



## 6. Setup Video Encoder AXIS P7214

## 6.1. Connecting to the P7214

Connect the AXIS P7214 via Ethernet to your PC and to the power supply. The video signal has to be connected to the Video-Encoder port. Wait until the startup is complete (All LEDs are colored in green).



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

IP address:	192.168.1.80
Subnet mask:	255.255.255.0

## 6.2. Access to Axis P7214

Open you browser and type in the following URL: 192.168.0.90

Type in your password and keep it in mind or write it down. If the system ask for a further authentication (in some cases), please type in the same user and password like before.

AXIS	
<b>Create Certificat</b>	e
Secure configuration of the roo certificate.	ot password via HTTPS requires a self-signed
Create self-signed certificat	te
Configure Root P	Password using HTTP
User name:	root
Password (max 64 characters)	):
Confirm password:	
	ОК
The password for the pre-conf before the product can be use	igured administrator root must be changed rd.
If the password for root is lost settings, by pressing the butto user documentation for more	;, the product must be reset to the factory default on located in the product's casing. Please see the information.



After setting the password please login to the Video Encoder

When you logged into the Video Encoder the first time, you can change the language settings if required.

After your confirmation, you can see the live stream from camera 1.

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

To have a look at the other cameras please choose the one you want to see in the drop-down menu.

### 6.3. Installing the admin user

The blue PiraT2 camera application needs a special user with administrator rights.

Open "Setup" (1), "Basic Setup" => "Users" (2) and choose "Add..." (3). Name the new user "admin" and define a password (4). Keep the data in mind or write it down. Choose the option "Administrator" (5) and click "OK (6). Afterwards, mark the checkbox "Enable anonymous viewer login (no user name or password required)" (7) and confirm all with "Save" (8).

AXIS	AXIS P7214 V	ideo Encoder	Live Vie	w Setup	Help
• Basic Setup	Users			1	0
Instructions	User List				
1 Users 2	User Name	User Group	User Info		
3. Date & Time 4. Video Stream 5. Audio Settings	root admin	Administrator Administrator		*	
Video & Audio					
Live View Config					
• Events	3			~	
System Options	Add	Modify Remove			
About		• =			
	HTTP/RTSP P	assword Settings			
	Allow password	type: Encrypted & unencryp	oted 💌		
	User Settings				
	7 💽 hable anon	nymous viewer login (no user	r name or password re	equired)	
	Enable anon	nymous PTZ control login (no	user name or passw	ord required)	
	🕅 Enable Basi	ic Setup	Reset		



🍪 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:	We recommend these setings:
User group: O Viewer	-
Operator	User name: admin
5 🙆 Administrator	Password: 2x8bg4
Enable PTZ control	
6 ОК Cancel	

### Note:

To be sure to get access to the Video Encoder by the blue PiraT2 please use the properties above.

## 6.4. Setting date and time

Change to the entry "Date & Time" (9) and activate the checkbox "Set manually" (10).

Set up Date and Time and click "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 it after successful synchronization with the Video-Encoder, with the logger time.

AXIS	AXIS P7214 Video Encoder Live View   Set	tup   Help
• Basic Setup	Date & Time Settings	0
Instructions	Current Server Time	
1. Users	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:	
	Synchronize with computer time	
Live view Config	Date: 2012-07-20 Time: 18:18:29	
Events	Synchronize with NTP server	
	NTP server: No server specified	
System Options	10 Set manually	
About	Date: 2012-07-20 Time: 18:19:00	
	Date & Time Format Used in Images	
	Specify date format: Predefined YYYY-MM-DD	
	Own %F	
	Specify time format: Predefined 24h  With resolution: 1 second	•
	Own %T	
	11 Save Reset	

You can also display the date and time on the video image. The settings for this feature are described in the following.



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## Attention:

Always set the blue PiraT2 time before you start logging. 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.

The setup for embedded timestamp has to be done in the Video-Encoder setup. If the date and time are already set up like described within step 9, 10 and 11 (see above), the format can be set up under "Date and Time Format Used in Images". Confirm these settings with "Save".

Click on "Video Stream" (6) and set up the Overlay Settings. Activate both checkboxes "Include date" and "Include time" (7). If desired, change the format options like "Text color", "Background color", "Text Place" (8) and so on. Confirm the settings again with "Save" (9).

AXIS	AXIS P7214	Video Encoder	Live View   Setup   Help
<ul> <li>bit</li> <li>bit</li> <li>bit</li> <li>bit</li> <li>bit</li> <li>bit</li> <li>bit</li> <li>bit</li> <li>constructions</li> <liconstructions< li=""> <li>co</li></liconstructions<></ul>	AXIS P7214 Video Stree Image Audio Image Appearan Resolution: Compression: Mirror image Rotate image: Color setting: Video Stream Maximum frame ra © Unlimited Coverlay Settings Directed events Directed events Include overlay Include tate Include tate Include tate Include tate Include tate	Video Encoder Sam Settings 1.264 MJPEG Aspect ratio correction 4CIF (704 x 480) 30 [0100] 0 degrees Color 130] fps per viewer te: [130] fps per viewer mumage at the coordinates: x 0 mumage at the coor	Live View : Setup : Help
	Preview View image stream	while confirming. Video	o format: MJPEG 💌 Open

## 6.5. IP-configuration

Change to the entry "TCP/IP" (3) and use static IP (4) with the follow data (5) and confirm the setting (6):

IP address:	192.168.1.90
Subnet mask:	255.255.255.0



AXIS	AXIS P7214 Video Encoder Live View   5	etup   Help
Basic Setup	Basic TCP/IP Settings	6
Instructions	Network Settings	
1 licers	View current network settings: View	
3 Date & Time	IPv4 Address Configuration	
4 Video Stream	Enable IPv4	
5 Audio Settings	Obtain IP address via DHCP	
Video & Audio	OUse the following IP address:	
Live View Config	4 IP address: 192.168.1.90 Test	
Life field boiling	Subnet mask: 255.255.255.0	
PTZ	Default router:	
Detectors	IPv6 Address Configuration	
Europha .	Enable IPv6	
Events	Services	
Recordings	Enable ARP/Ping setting of IP Address	
System Options	Enable AVHS	
	One-click enabled	
About	Proxy:	
	Proxy port: 3128	
	Proxy login:	
	Proxy password:	
	Proxy authentication method:   Basic Digest Auto	
	AXIS Internet Dynamic DNS Service Settings	
	6 Save Reset	

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

See also the advanced TCP/IP settings

## Note:

Change your PCs IP configuration back to dynamic configuration.



## 7. Save and restore the Video Encoder settings

To save all settings of the Video Encoder you can use the tool **AXIS Camara Management Software**, which you can download from AXIS after registration.

http://www.axis.com/de/products/cam\_mgmt\_software/interface.htm After installing the software you can start it by using

#### Start => AXIS Camera Management => AXIS Camera Management Client

	S Camera Ma	nagement Clie	nt								x
<u>F</u> ile	<u>C</u> onfiguratic	n <u>O</u> ptions	<u>H</u> elp								
S.	Ē	<b>T</b>	1 1 1	- <b>-</b> - (	8 📥 🖾	50-3	<b>R</b> -				
	0 device	s, 0 selected						Type to s	earch		×
Ť	Name		Status	Address	Host Name	Serial Number	Model	Firmware	DHCP	Server	
Al	arms	Tasks									~
Time		Alarm	De	scription							~
											Ī
$\triangleleft$	0 devices Connected to	JGOLOMBEK									

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

S SIXA	amera Ma	inagemei	nt Client			
<u>File</u>	onfiguratio	on Opt	tions <u>F</u>	<u>l</u> elp		
9	圜	Tre	EX.	T	T	

After selecting your device and connecting to the Video Encoder you add the device with **[Next>]** and **[Finish]** in the next window.

Add Devices	s to add					Minimieren
Search Again	_			Type to	search	×
Address	Serial Number	Model	Status			
192.168.1.90	00408CCA0520	AXIS P7214	Incorrect p	assword		
0 of 1 devices selected Select / deselect all	n possible		Help	< <u>B</u> ack	<u>N</u> ext >	Cancel





	Enter User Name and Password									
		User name: root								
		Passw	vord: 🔸	•••••						
		🔽 Us	e passwo	rd for all de	evices with i	incorrect p	assword			
				Help	ОК	<mark>д С</mark> а	ancel			
😵 axis (	Camera Management Clier	nt								x
<u>F</u> ile <u>C</u> o	onfiguration <u>O</u> ptions	<u>H</u> elp								
92		T T	- 2 6	) 📥 🐻 🖞	いつる	<b>R</b>				
Ø	1 devices, 0 selected						Type to s	earch		×
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	
	<									>
Alar	ms Tasks									~
Time	Alarm	Des	scription							~
										Ē
$\bigotimes^{1}_{\underline{C}}$	devices onnected to JGOLOMBEK									

To save the current settings please rightclick your device and use the option => Parameter Management => Create Parameter File ...

Name		Status	Address	Host	Name		Serial Number	Model	
192.168		Assign IP Addres	· · ·				00408CCA0520	AXIS P7214	
	Ē	Parameter Manag	•	C	reate F	Parameter File			
		User Managemer	nt	•	A	pply P	arameter File		
< T!		Upgrade Firmwa	re						
ns Task	E.	Set Date and Tim	e						
	S	Refresh							
	Ģ	Restart							
	+ <u>당</u>	Restore							
	*	Install Camera Ap	plication						
levices		Tag Devices							
onnected to JGO	×	Remove		Del					

With **[X] Select / Deselect all** and then **[Save]** you can save the configuration of the Video Encoder to your local system..

To restore the saved settings to your device please use the option => Parameter Management => Aply Parameter File ...



## 8. Resetting the Video Encoder AXIS Q7404 or 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 4 video channels (including all IP addresses) to the factory default settings:

First disconnect the power from the AXIS Server.

Then press and hold the "RESET button" (1) and reconnect power.

#### **AXIS Q7404**



#### **AXIS P7214**



Keep the RESET button pressed until the status LED turn amber. This may take up to 15 seconds.

Hold the RESET button until the status LED display permanently green (which can take up to 1 minute). The process is complete and the video encoder has been reset.

The video-server is set back to factory defaults now and can be configured again.



## 9. Connecting AXIS Video Encoder to blue PiraT2

There are two possibilities, to connect the Video-Server or Network-Camera to a blue PiraT2. Either you connect both via Gigabit Ethernet-Port (front side), or by using the Ethernet-Kit on the backside of the Blue PiraT2. The last one should be preferred. In this case the front connector could use for access the Video-Server during data recording.

Connect the Gigabit-Ethernet port of the logger via a Ethernet cable with the Ethernet port of your PC. (Note: the blue PiraT2 is configured as DHCP-Server as default!). Connect the blue PiraT2 via the power harness (red/+/clamp30 and black/GND/-/clamp31) with the vehicle battery or a power supply.

Connect the blue PiraT2 via the FCI cable with the blue PiraT2 Ethernet Kit and the Ethernet Kit with the AXIS Server via Ethernet. The video signal has already to be connected to the Video-Encoder port. Connect the AXIS Server to the power supply. Wait until the startup is complete (All LEDs are colored in green).





## 10. Configuring stand alone cameras AXIS 207/210/211

By using an blue PiraT2 without an switch or build in switch you have to connect the camera with an Crossover Ethernet cable. This is a point to point connection without autonegotiation.

## **10.1.** Further applicable documents

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

## 10.2. Configuration of the Ethernet camera AXIS 207/210/211

## Warning:

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

Any camera that is used with the blue PiraT2 data logger must have a special configuration. There is the possibility of manual and automatic (recommended) camera configuration.

The manual configuration is done over the camera web interface.

The recommended **automatic configuration** is done with the "AXIS Camera management" SW tool. A blue PiraT2 camera configuration template is available.

## 10.3. Automatic configuration (recommended)

### Needed SW:

1. AXIS Camera Management v2.00.31

http://www.axis.com/techsup/software/index.htm

### Camera configuration steps:

- 1. Check/Update camera FW v4-40 ([1],[2],[3] or AXIS online)
- 2. Resetting camera to the Factory Default Settings. ([1],[2],[3] Chapter: " Resetting to the Factory Default Settings").
- 3. Connect the camera with the PC/Laptop via a cross-over Ethernet cable.
- 4. Set the password ([1],[2],[3] Chapter: "Set the password").
- 5. Install blue PiraT camera configuration-template on the camera with "AXIS Camera Management"
- 6. Add camera user "admin"

The camera configuration steps 4 und 5 are described in the following chapters. The displayed figures contain screen shots of the AXIS camera management tool.

## 10.3.1. Installing the camera configuration-template

Installing the camera configuration-template "blue PiraT\_Kamera\_AXIS-ConfigTemplate\_vX.X.cmt" will automatically configure the camera to be used with the blue PiraT camera application.

The template can be downloaded in our ServiceCenter.



- Open with "Apply Template" menu the delivered blue PiraT2 camera configuration-template
   Confirm the "Apply Template Dialog" with OK
   Check the configuration process in the "Results" Dialog.

🐔 AXIS Camera Management		
File Edit View Tools Help		
Search Assign IP Upgrade Add/E	🛃 🚺 🛃	Apply Template HomePage Refresh Views
Groups	Find	Browse
🥰 Add Group		Cul. 99 (Kamara) Ocean J Kamara, AvicConfigTemplate, ut. 8, cmt
: 🖘 🖂 All Devices (1)	Name	ci, noz_ocean+kamera(ocean+kamera_Axisconny) emplace_v1.0.cmc
All Devices (1)	AXIS 207 - 00408C7561EA	C:\\AXIS Camera Management - Templates\Ocean+Kamera_Template_2007-04-18.cmt
Wew Devices [1]		

Figure 1: Open blue PiraT2 camera configuration-template

ups Add Cross	Find:		Apply reinplace Hom	Refresh views			
Rad Group	Name		Status	Address	Serial Number	Model Firmwar	e
All Devices (1) Warnings/Errors My Groups	ŶAXIS 207 - 004	08C7561EA	OK  oply Template - Ocean+	192.168.0.90 Kamera_AxisConfigTemp	00408C7561EA	AXIS 207 4.40	×
		C	Template				
			Model: AXIS 207 (4.40)	~	V	Show Nice Names 🛛 🔽	Show Errors and Warnings
			Image				^
			Date format	YYYY-MM-DD			
			Max viewers	10	[010]		
			Own date format	%F.	[String]		
			Own date format enabled	no			
			Own time format	%T	[String]		
			Own time format enabled	no	·····		
			Referrers		[String]		~
			Line Descriptio	n			
			97 The parameter     107 The parameter	neter "IPAddress = "192.168.0. meter "DNSName = """ is not r	.90 <sup>°°°</sup> is not recomme ecommended to set in	t	
			Note: Some parameters var	y between models. Use model	drop-down list to revi	iew the template for diffe	rent models.
			Devices				
			Name	Address	Serial Nu	mber Model	Firmware
			AA13 207 - 0040607361EA	132.186.0.30	0040867	JOIEM MAIS 207	4.40

Figure 2: Confirm the "Apply Template Dialogue" with OK



Event #	1 to 1 (	(of 1)		d t: [	Apply -	Clear
Status		Date		Address	Serial Number	
🔁 OK	)	18.04.2007 11:	59:30 Template Confi	g 192.168.0.90	00408C7561EA	
Date: Event Protocot	18.04.2007 Template C HTTP	7 11:59:30 Config	Address: 193 Serial Number: 00 Model: AX	2.168.0.30 408C7561EA IS 207		
Date: Event Protocot Status	18.04.2007 Template C HTTP	7 11:59:30 Config Event	Address: 19: Serial Number: 00: Model: AX	2.168.0.30 408C7561EA IS 207		
Date: Event Protocot Status	18.04.2007 Template C HTTP	7 11:59:30 Config Event Set Parameter	Address: 19: Serial Number: 00 Model: AX Description Image DateFo	2.168.0.90 408C7561EA IS 207 mat = YYYY-MM-DD		
Date: Event Protocot Status OK OK	18.04.2007 Template C HTTP	7 11:59:30 Config Event Set Parameter Set Parameter	Address: 19: Serial Number: 00- Model: AX Description Image.DateFo Image.DateFo	2.168.0.90 408C7561EA 15.207 mat = YYYY-MM-DD wers = 10 45 cm th 25	[	
Date: Event Protocot Status OK OK OK	18.04.2007 Template C HTTP	7 11:59:30 Config Event Set Parameter Set Parameter Set Parameter	Address: 19: Serial Number: 00: Model: 00: Image.DateFo Image.MaxVie Image.WmDa	2.168.0.90 408C7561EA IS 207 mat = YYYY-MM-DD wers = 10 teFormat = %F teFormat = %F		
Date: Event Protocot Status OK OK OK OK	18.04.2007 Template C HTTP	7 11:59:30 Config Event Set Parameter Set Parameter Set Parameter Set Parameter	Address: 19: Serial Number: 00 Model: AXVie Image.DateFo Image.MaxVie Image.OwnDa Image.OwnDa	2.168.0.90 408C7561EA IS 207 mat = YYYY-MM-DD wers = 10 teFormat = %F teFormatEnabled = no seferemate ~ ∞T		
Date: Event Protocot Status © OK © OK © OK © OK	18.04.2007 Template C HTTP	7 11:59:30 Config Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Address: 19: Serial Number: 00: Model: AX Description Image.DateFo Image.OwnDa Image.OwnDa Image.OwnDa	2.168.0.90 408C7561EA IS 207 mat = YYYY-MM-DD wers = 10 teFormat = %F teFormat = %F teFormat = %T seFormat = balled = no seFormat = balled = no		
Date: Event Protocot Status © OK © OK © OK © OK © OK	18.04.2007 Template C HTTP	7 11:59:30 Config Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Address: 19: Serial Number: 00: Model: 00: Image.DateFo Image.dwnDa Image.0wnDa Image.0wnTin Image.DwnTin	2.168.0.90 408C7561EA IS 207 teFormat = %F teFormat = %F teFormatEnabled = no teFormatEnabled = no fer		
Date: Event Protocot Status OK OK OK OK OK OK	18.04.2007 Template C HTTP	7 11:59:30 Config Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Address: 19 Serial Number: 0 Model: AX Description Image DateFo Image OwnD a Image OwnD a Image OwnD a Image OwnT in Image OwnT in Image Referee Image Referee	2.168.0.90 408C7561EA IS 207 mat = YYYY-MM-DD wers = 10 teFormatEnabled = no reFormatEnabled = no rs = cEnabled = no		
Date: Event Protocot Status OK OK OK OK OK OK	18.04.2007 Template C HTTP	711:53:30 Config Event Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter Set Parameter	Address: 19: Serial Number: 00 Model: AX Description Image DateFo Image OwnDa Image.0wnDa Image.0wnDa Image.0wnTin Image.0wnTin Image.Referre Image TimeFo	2.168.0.90 408C7561EA IS 207 mat = YYYY-MM-DD wers = 10 teFormat = %F teFormat = %F teFormatEnabled = no rsf= nabled = no rsf= nabled = no rsf= nabled = no rsf= 24		

Figure 3: Check the configuration process in the "Results" dialogue

## 10.3.2. Adding the camera user "admin"

The blue PiraT2 camera application needs a special user "admin".

- 1. Select configured AXIS camera and activate the camera menu with the right mouse button. "User Management -> Add/Edit User..."
- 2. Add user "admin".

User "admin" properties:User name:adminPassword:2x8bg4Access rights:Administrator



🐔 AXIS Camera Management								
File Edit View Tools Help								
Search Assign IP Upgrade Add/Edit U	Jser Configure Template Ec	itor Apply Template Ho	ome Page Refresh Vi	iews				
Groups	Find:	Apply -	Clear					
🨪 Add Group	News			Deviat	kl	L MARINA L	L Circuit and	
🖃 🚰 All Devices (1)		Status	Address 100.100.0	5enal 0.00 00400		Model	Firmware	
- 🎽 New Devices (1)	AVI2 501 - 00409012991	Assign IP		0.30 00406	U7361EA	AAI5 207	4.40	
Warnings/Errors		Maintenance	•					
My Groups		User Management	•	Add/Edit User				
		Configuration	•	Remove Users				
	-	Setup Home Page		List Users				
		Live View Home Page						
		Enter Device Credentials						
		Use Master Credentials						
		Select All	Strg+A					
	_	Copy To Group						
	1	Clear New Status						
	-	Delete From Database	Umschalttaste+Entr					
		Refresh Selected Properties	Umschalttaste+F5					

Figure 4: Select the "Add/Edit User..." dialog

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

Figure 5: Adding the camera user "admin"



## 10.4. Manual configuration of AXIS 207/210/211

Please connect the camera with the PC/Laptop via a cross-over Ethernet cable, enter the camera's IP address in your web browser and click on *Setup*. If you don't know the camera's IP address, use the IP-Utility tool 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), use the fix IP address 192.168.0.10 for your PC/Laptop and enter the default camera IP (192.168.0.90) in your web browser.

A step by step configuration of the camera is described in the following chapters 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 settings will not be stored.

#### 10.4.1. Reset configuration

Before starting with the configuration, the camera should be reset to original factory settings. To do so, press the **Default** button in **Options**  $\rightarrow$  **Maintenance**  $\rightarrow$  **Maintain Server**.

AXIS	AXIS 210 Network Camera	Live View   Setup   Help
Basic Configuration	Server Maintenance	0
	Maintain Server	
Video & Image	Restart Device the AVIG 210 Network Company	
▶ Live View Config	Restart the AXIS 210 Network Camera.	
	Restore Resets all parameters, except the IP paramete	rs, to the original factory settings.
Event Configuration		
- Oustan Ontions	Default Resets all parameters to the original factory set	ttings.
<ul> <li>System Options</li> <li>Security</li> </ul>	Upgrade Server	
Date & Time	Upgrade the AXIS 210 Network Camera with the latest firmware	e.
Network		where here and slight the second surface
Ports & Devices		Idisuchen) and cick Opgrade
Maintenance	Note: Do not disconnect power to the unit during the upgrade. upgrade has completed. (1-10 minutes.)	The unit restarts automatically after the
Support	Backup	
Advanced	Save all parameters and user-defined scripts to a backup file.	Backup
About		
	Restore	
	Use a saved backup file to return the unit to a previous config	uration.
	Specify the backup file to use:	chen and click Restore

#### Figure 6: Resetting the camera settings

#### 10.4.2. Setting up the IP-address

Enter the following values under **Basic Configuration -> TCP/IP**:

IP-Address:	192.168.0.XXX
Subnet:	255.255.255.0
Default-Router:	192.168.0.1

Note: The same IP-address has to be used in the data logger's configuration (Recommendation: 192.168.0.90)



AXIS	AXIS 210 Network Camera	Live View   Setup   Help
Basic Configuration	Basic TCP/IP Settings	0
Instructions	IP Address Configuration	
1. Users 2. TCP/IP	O Obtain the address via DHCP	View
3. Date & Time 4. Video & Image	• Use the following IP address:	
In video et inidge	IP address:	192.168.0.90 Test
→ Video & Image	Subnet mask:	255.255.255.0
▸ Live View Config	Default router:	192.168.0.1
• Event Configuration	Services	
· Event configuration	Options for notification of IP address change	Settings
System Options	AXIS Internet Dynamic DNS Service	Settings
About	Save	Reset
	See also the advanced TCP/IP settings	

Figure 7: TCP/IP settings

#### 10.4.3. Create admin user account

For the aim of automatic time synchronization between the data logger and the camera it is necessary to create an admin user account on the camera. This can be done under **Basis Configuration**  $\rightarrow$  **Users.** 

Press "Add..." below the User List to create a new user account. Enter the following settings:

User:	admin
Passw.:	2x8bg4
User group:	Administrator

The checkbox Enable anonymous viewer login must be selected!

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> <li>System Options         About     </li> </ul>	n Users User List User Name Ilser Group Foot Administrator admin Administrator Add Modify Remove User Settings	e or password required)
	Subsequent viewers will see a blank image.	eset

#### Figure 8: Create admin account

If you want to use an individual password for the camera (not default), than you have to **deactivate** checkbox *Enable anonymous viewer login.* Now you can change the password for user: admin individually



Caution: This password has also to be configured in the client.

### 10.4.4. Video and image settings

To display the data logger time at the top of the video image, the checkboxes *Include date* and *Include time* under *Video & Image*. The stream should be limited to 15 fps.

Basic Configuration	Image Settings				
Dusie comigaration	Image Appearance				
Video & Image	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)			
Sustam Ontions	Contrast:	50 [0100] (Does not affect Test image)			
System Options	* Changes to color level do not affect Test image (exception 0 = B/W)				
About	Text Overlay Settings				
<	Include date	Include time			
	Include text:				
	Text color: white 💌	Text background color: black 🕑			
	Place text/date/time at top 💙 of image				
	Video Stream				
	Maximum video stream time:				
	O Unlimited				
	C Limited to [1] seconds V per session				
	Maximum frame rate:				
0	O Limited to 15	[130] fps per viewer			
	Tast				

Figure 9: Video and image settings

### 10.4.5. Date and time settings

Choose Set manually as Time mode under Basic Configuration  $\rightarrow$  Date & Time  $\rightarrow$  New Server Time. The text fields below this setting don't have to be filled in. The data logger manages the time synchronization between camera and logger.





* Basic Configuration	Date & Time Settings	0
Instructions	Current Server Time	
1. Users 2. TCP/IP	Date: 2007-01-24 Time: 13:16:30	
3. Date & Time	New Server Time	
4. Video & Image	Time zone: GMT (Dublin, Lisbon, London, Reykjavik)	~
Video & Image	Automatically adjust for daylight saving tir	ne 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>	
About	Set manually	
	Date: 2007-01-24 Time: 13:16:17	
	Date & Time Format Used in Images	
	Specify date format: () Predefined YYYY-MM-DD	
	O Own %F	
	Specify time format:  Predefined 24h  With resolution	1 second

Figure 10: Date and time settings

## 10.4.6. MPEG-4 settings

The following settings have to be entered under Video & Image → Advanced → MPEG-4:

Length: 32 (GOV Settings). The maximum bit rate is limited to 3000 kbit/s (Bit Rate Control)

AXIS A	XIS 210 Netw	ork Camera Live View   Setup   Help
Basic Configuration	MPEG-4 Se	ttings 🕜
-	<b>Client Compatibil</b>	ity
<ul> <li>Video &amp; Image</li> <li>Image</li> </ul>	Video object type:	Advanced Simple 💌
Overlay/Mask	ISMA compliant	
<ul> <li>Advanced</li> </ul>	GOV Settings	
MPEG-4	Structure:	IP V
	Length:	32 [1-150]
+ Live view Config	Bit Rate Control	
• Event Configuration	Maximum bit rate:	O Unlimited
System Options	$\subset$	Imited to 3000 kbit/s
About	Use:	Variable bit rate
About		O Constant bit rate
	Target bit rate:	kbit/s
	Priority:	None
	View Image Setti	ngs
	View image after sa	ving. View Save Reset

Figure 11: MPEG-4 settings



## 11. Preparing the blue PiraT2

## 11.1. Startup blue PiraT2

Switch the blue PiraT2 on by pressing the [Trigger] button (1) and wait until the Logger is ready (Startup display disappears). By pressing the rotary knob (2) you will enter the Operation menu. Here choose the Menu "[1] Info" and then the Info-Screen "9/10 IP-address"(3).

Open your web browser and enter the IP address that appears on the display of Logger (4). The connection between Logger and PC will be established (5).

Note: Java Runtime Environment (JRE) 32-bit is necessary to run the program!





A mouse click on the blue PiraT2 screen starts the Client download (~60MB). Confirm the installation by pressing [Execute]. Follow the installation steps, choose a directory and finalize the installation by pressing [Install]. After successful installation you will find a blue Pirat2 client icon on your desktop. Double-click the icon to start the application.

In the "Network Logger" window you will find the connected data logger. By pressing one of the 5 icons (6) you can choose one of the desired operations below.



Download data

Convert data

Open configuration

Update firmware

Open bug report





## 11.2. Shutting down blue PiraT2 manually

To shut down the blue PiraT2 manually you can use the rotaring knob (1) by choosing **[3] Functions**, shown in the display (2) and accept the Standby mode by pressing the rotaring knob.



To restart the logger please use the **ON/Trigger** button (3).

The second way to go into standby mode is to press [ESC] button (4) for 5 seconds till the memoryand error5-LEDs are blinking for a short period of time.



To restart the logger please use the **ON/Trigger** button (6).

## 11.3. Updating the blue PiraT2's firmware

After clicking on the "Update firmware" button (1), the current version of the firmware on the data logger appears (2). Check the button "Force component update" (3) to flash the same version again or to reinstall an older version on the logger.



Click on the "Update firmware"- button (4) and select the file containing the wanted version (the file extension should be .dat). Open it and wait until the update process is completed.



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Firmware-/Licenses	update (192.168.0.233) ⊯		
Firmware	2	4	3
Firmware version 🔇	01.07.01.40	Update firmware	Force component update
Hardware			
Hardware version	01-1.3.A.0,02-1.3.A.0	Mainboard Serial Nr.	1014277
Licenses			
License Client L License Comple	brary (101484) × Triggers (101431)		Update licenses
License Remote License Camera	Compression (101476) • Control Monitor (101388 • Support (100934)	>	Remove all licenses
License CCP (C License Diagno	AN Calibration Protocol) stic Log and Trace BMW (1	102600)	2
License XCP (U License Termini License online r	niversal Measurement and al (101432) monitor et Logging(100932)	I Calibration Protocol)	,
		ſ	Details Read data again

As for the firmware (5), the current hardware version (6) appears. There is the Mainboard Serial Number too (7).

Firmware 5 Firmware version	01.07.01.51	Update firmware Force component update
Hardware 6 Hardware version	01-1.3.A.0,02-1.3.A.0	7 Mainboard Serial Nr. 1014277

## 11.4. Updating the license of a blue PiraT2

After clicking of "Update firmware" ((1) chapter 8), the current licenses appear (2):

License Client Library (101484)	
License Complex Triggers (101431)	2
License Online Compression (101476)	-
License Remote Control Monitor (101388)	
License Camera Support (100934)	
License Recording of the MOST synchronous channel (101892)	
License CCP (CAN Calibration Protocol)	
License Diagnostic Log and Trace BMW (102600)	
License XCP (Universal Measurement and Calibration Protocol)	
License Terminal (101432)	
License online monitor	
License Ethernet Logging(100932)	

In order to update licenses, click on the "Update licenses" button (3) and choose the file containing the license (4) (the file extension should be .tml). It is possible to remove all licenses by a click on the corresponding button (5).



Please selec	t the license file		3 Update licenses
Look in	: 🞯 Desktop	t # # # #	Remove all licenses
Zuletzt verwendete Dokumente	Eigene Dateien     Bussystemen       Arbeitsplatz     Conversion_client       Netzwerkumgebung     Docs Manuel       bpng_Firmware     Glossar market	Constant Sector Constant Sector Secto	5
Desktop	File name: License.tml Files of type: .tml Datein (*.tml)	Open Cancel	
		4	

## 11.5. Updating blue PiraT2's client

After a successfully update, the logger now is running with the new firmware.

For using all new features in the client too, please install the new version of the client which you can now download from the logger as described in chapter 9.



## 12. Configuration of the blue PiraT2 to use cameras or video encoder

## 12.1. General settings

Configure the blue PiraT2 as DHCP-Server: Open configuration (1), "General", "Network settings" (2) and activate the checkbox "DHCP – Server" (3).

Network Log	gger		Configuration (192.168.0.233) 🛛	
Name	IP	Connected with	Logger Configuration	
NoName	10.64.76.26	Multiuser		Network settings
NoName QS_DUT78	192.168.0.233 10.64.76.11	Smone Njike	Name 2 Network settings Buffer Dompression Standby Voice recording Cascading	Important note: It might be impor In this case the network configur in the menu on the loggers displa using a PC/Laptop. DHCP mode <b>3 O</b> DHCP server (Default sett
Favorites (lo	cally saved offline da	ta, configuration ④ ≋ Open selection	Time zone Time zone CAN Time zone Can Tim	The data logger assigns IF This setting must be used via a network cable. This s to a network! DHCP dient The data logger obtains it must be used, if the data

Please be sure about your "Standby" setting (General -> Standby). You can activate or deactivate automatic standby. If active, there are two different time settings for network connection.

Switch to "General settings" (5) and type the desired video block length value in seconds (6).

**Attention:** Is the checkbox "only record video data around a marker "(7) activated, the video stream will only be recorded around a marker. In this case there are no data if you don't set any marker. If you do not use marker, please deactivate this checkbox. If deactivated, the logger always records all video data.

Logger Co	onfiguration	
	General	General settings
🕀 💼	CAN 7	🔲 Only report video data around a Marker
	LIN	
🗼 ··· 🔁	Serial	Note: The time range is equivalent to the time range used for data protection (see \ Buffer\ settings)
🖶 🛅	FlexRay	6 50 s (lastility 50s)
🖶 🚞	MOST	
🗄 🔚	Ethernet	Synchronisation of the camera time with the data longer time every 200 s (Default: 200s)
🕀 🖓 🔁	Analog	
🖻 ··· 🔚	Digital input	Video Servers: No video server / video server with 4 IPs
🖻 ··· 🔚	Digital Out	
📄 🖓 🖓	Camera	
	🖉 Camera #1	
-	🖉 Camera #2	
-	🖉 Camera #3	
	General settings	

Choose the connected camera/Video-Encoder (8).

No video server / video server with 4 IPs

- (AXIS Q7404, 207, 210, 211) (AXIS P7214) (AXIS P7214)
- Video server with one IP and 4 channels
  Video server with one IP and one \*quad\* channel

If an AXIS P7214 is used, please type the IP address in the field below.



## 12.2. Camera settings in blue PiraT2 client

Switch to Camera #1 (1), activate the checkbox "Camera interface active" (2) and choose the connector (3). Connector back or front is available.

Enter the cameras IP Address (4). If the AXIS P7214 is used, the IP address is already done in the general settings.

Deactivate the checkbox "Default password" (5) and type in the "admin" password (6).

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

Logger Configuration	
🖽 🖓 🔚 General	Camera #1
time CAN	2 Camera interface a tive
	Called a little addre
🖶 🗁 📴 Serial	
🗄 🖓 🔚 FlexRay	Name Camera-1
🖶 💼 MOST	(This name is inserted later into the trace file names)
🖶 🛅 Ethernet	3
🖶 🔚 Analog	Aperblues Back (100 MBit/s) -
🕀 🔚 Digital input	
🗄 🔚 Digital Out 🧳	IP Address 192 . 168 . 1 . 90
E E	
Camera #1	Additional IP-alias of the data logger 7
Samera #2	E 102 168 1 222
Camera #3	IP-address of data logger
Camera #4	Subnet mask 255 , 255 , 255 , 0
General settings	
	Comera paceword protection
	Caliference of Direction
	🔲 Default password
	Enter approved
	Repeat password
	Note: The Password must be between 3 and 8 characters in length and must contain only numbers and letters (0-9, A-7, a-7) (no umlauts)
De	aut comparation jet to logger write to logger write to logger

Make the same changes for all connected cameras with the following addresses:

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

After set up, click on the button "Write to data logger". The button is placed right below in the blue PiraT2 client.

The configuration is finished and the blue PiraT2 starts recording the Video signal.



## 12.3. Front display of blue PiraT2

By pressing the "Esc" button at the front of the blue PiraT 2 once or several times, 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 4 cameras, represented by "VID" and meaning video. Each sign after the word "VID" is placed for one video channel. 3 cases are listed:

1. The license is installed but no configuration has been performed. The 4 channels are however recognized (see Figure 1).

### Display: VID ---- (like in the following picture)



2. All parameters are configured. The video data are not recorded or there is no connection between logger and server.

The figure 2 means that the first and second cameras are configured but not recorded and the third and fourth are not activated.

#### Display: VID XX-- (like in the following picture)



3. Logger and server are connected and the videos are recorded.

The figure 3 means that the first and second cameras are recording and the third and fourth are not configured.

Display: VID TT-- (like in the following picture)



Does the data recording runs without errors, there should always a "T" showing for each video channel.



## 13. Download video data

This application allows to save internal data (in Telemotive format) from the logger on the computers disk and to use it offline.

This function is explained in detail in the document "blue PiraT2 manual".

For the video application, there is an 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 lengt of 60 seconds does not matchexactly 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.

## 14. Converting the video data

The application [Convert data] allows the storage of data from the blue PiraT2 in a requested format on a PC or external storage device.

For the video application, the video blocks can either store as single video blocks (like set up in the configuration) or as one video file.

The conversion function is explained in detail in the document "User Guide".

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.

Please keep in mind: When converting into one video file, the system can combine a maximum of 400 blocks per file.

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

	*	
Camera #1 (Camera 1)	MPEG4 - Video format, one file (*.mpeg4) 🛛 🗸 🗸	1 X
Camera #2 (Camera-2)	MPEG4 - Video format, separate files(*.mpeg4)	1 🗙
	MPEG4 - Video format, one file (*.mpeg4)	
Camera #3 (Camera-3)	MPEG4 Video format_one_file (*.mpeg4) 🗸 🗸	<b>1</b> X
Camera #4 (Camera-4)	MPEG4 - Video format, one file (*.mpeg4)	1 X

The Client can also convert offline data, which are downloaded already from the blue PiraT2. There is only an installed Client necessary.

In the "Favorite" window, open the offline data set. Click + (1) and choose the main download folder.

The download folder appears (2). Double click the main folder (3) open the conversion tab.



•	韋 😩 🗻
EFavorites 1 cally saved offlin	ne data, configuration 🐗 🕱
	Open selection
Surge atfline boog Limit	
data	
3 B B fpgaa	)
. Itrace	12
video	-

## 15. Watching the videos

The \*.Mpeg4 video files can be used only if they have been stored on a computers disk first. They can be played on any standard video player.



## 16. Contact



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