



Security Tech Germany

# TVIP11561 / TVIP21560 / TVIP41560 / TVIP61560

## User guide

You can find important information and FAQs about this and other products online at:

[www.abus.com](http://www.abus.com)

Version 1.0

Firmware: 5.4.4 Build 170502



*English translation of the original German user manual.  
Retain for future reference.*

## Introduction

Dear Customer,

Thank you for purchasing this product.

**ABUS Security-Center hereby declares that the TVIP11561, TVIP21560, TVIP41560 and TVIP61560 cameras comply with the RED Directive 2014/53/EU. These devices also meet the requirements of the following EU directives: EMC Directive 2014/30/EU and the RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text may be found at:**

[www.abus.com/product/TVIP11561](http://www.abus.com/product/TVIP11561)

[www.abus.com/product/TVIP21560](http://www.abus.com/product/TVIP21560)

[www.abus.com/product/TVIP41560](http://www.abus.com/product/TVIP41560)

[www.abus.com/product/TVIP61560](http://www.abus.com/product/TVIP61560)

To ensure this condition is maintained and that safe operation is guaranteed, it is your obligation to observe this user manual.

Please read the entire user manual carefully before putting the product into operation, and pay attention to all operating instructions and safety information.

**All company names and product descriptions are trademarks of the corresponding owner. All rights reserved.**

**If you have any questions, please contact your specialist installation contractor or specialist dealer.**



Data storage is subject to national data privacy guidelines.



**Warning as required by §201 StGB (German Criminal Code):**

Whosoever unlawfully makes an audio recording of the privately spoken words of another, and uses or makes a recording thus produced accessible to a third party, shall be liable to imprisonment or a fine.

Whosoever unlawfully overhears with an eavesdropping device the privately spoken words of another not intended for his attention, or publicly communicates, verbatim or the essential content of, the privately spoken words of another, recorded or overheard, shall incur the same penalty.






**Disclaimer**

This user manual has been produced with the greatest of care. Should you discover any omissions or inaccuracies, please contact us in writing at the address provided above.

ABUS Security-Center GmbH does not accept any liability for technical and typographical errors, and reserves the right to make changes to the product and user manuals at any time and without prior warning.

ABUS Security-Center GmbH is not liable or responsible for direct or indirect damage resulting from the equipment, performance and use of this product. No guarantee is made for the contents of this document.

## Explanation of symbols

	The triangular high voltage symbol is used to warn of the risk of injury or health hazards (e.g. caused by electric shock).
	The triangular warning symbol indicates important notes in this user manual which must be observed.
	This symbol indicates special tips and notes on the operation of the device.

## Lists

<ol style="list-style-type: none"> <li>1. ...</li> <li>2. ...</li> </ol>	<b>Lists with a set order, given either in the text or warning notice</b>
<ul style="list-style-type: none"> <li>• ...</li> <li>• ...</li> </ul>	<b>Lists without a set order, given either in the text or warning notice</b>



## Intended use

Use the device only for the purpose for which it was built and designed. Any other use is considered unintended.

## Important safety information

### General

Before using this device for the first time, please read the following instructions carefully and observe all warning information, even if you are familiar with the use of electronic devices.

	<b>All guarantee claims are invalid in the event of damage caused by non-compliance with this user manual. We cannot be held liable for resulting damage.</b>
	<b>We cannot be held liable for material or personal damage caused by improper operation or non-compliance with the safety information. All guarantee claims are void in such cases.</b>

Retain this handbook for future reference.

If you sell or pass on the device to third parties, you must include these instructions with the device.

The following safety information and hazard notes are not only intended to protect your health, but also to protect the device from damage. Please read the following points carefully:

**Power supply**

- Only operate this device through a power source which supplies the mains power specified on the type plate. If you are unsure of the power supply available to you, contact your energy provider.
- Disconnect the device from the power supply before carrying out maintenance or installation work.
- The device is only fully disconnected from the mains network when the power supply unit is removed.
- To fully disconnect the device completely from the mains, the mains plug must be withdrawn from the mains socket.
- In order to eliminate the risk of fire, the device's mains plug should always be disconnected from the mains socket, if the device is not being used for an extended period of time.

**Overload/overvoltage**

- Prior to unstable weather and/or when there is a risk of lightning strike, disconnect the device from the mains network or connect the device to a UPS.
- Avoid overloading electrical sockets, extension cables and adapters, as this can result in fire or electric shock.

**Cable**

- Always grasp all cables by the plug connector and do not pull the cable itself.
- Never grasp the power cable with wet hands, as this can cause a short circuit or electric shock.
- Do not place the device itself, items of furniture or other heavy objects on the cable and ensure that it does not become kinked, especially at the connector plug and at the connection sockets.
- Never tie a knot in the cable and do not bundle it together with other cables.
- All cables should be laid so that they cannot be trodden on, or cause a hazard.
- Damaged power cables can cause fire or electric shock. Check the power cable from time to time.
- Do not modify or manipulate the power cable or plug.
- Only use adapter plugs or extension cables that conform to applicable safety standards, and do not interfere with the mains or power cables.

**Children**

- Keep electrical devices out of reach of children. Never allow children to use electrical devices unsupervised. Children may not always properly identify possible hazards. Small parts may be fatal if swallowed.
- Keep packaging film away from children. There is a risk of suffocation.
- This device is not intended for children. If used incorrectly, parts under spring tension may fly out and cause injury to children (e.g. to eyes).

**Surveillance**

- The use of surveillance equipment may be forbidden or regulated by law in some countries.
- Before using this equipment, ensure that all of your surveillance activities are completely legal.

### Installation location/operating environment

Do not place any heavy objects on the device.

The device is only designed for operation in spaces with appropriate temperatures or humidity (e.g. bathrooms), or excessive accumulation of dust. Please refer to the individual devices' technical data for more detailed information.

Ensure that:

- adequate ventilation is always guaranteed (do not place the device on a shelf, thick carpet, bed or wherever ventilation slits may be covered. Always leave a 10 cm gap on all sides)
- no direct sources of heat (e.g. radiators) can affect the device
- interior devices are not exposed to direct sunlight or strong artificial light
- the device is not in the immediate vicinity of magnetic fields (e.g. loudspeakers)
- no naked lights (e.g. lit candles) are on, or next to the device
- sprayed or dripping water is prevented from coming into contact with interior devices and caustic fluids are avoided
- the device is not operated in the vicinity of water, in particular, the device should never be submerged (do not place objects containing fluids, e.g. vases or drinks, on or near the device)
- no foreign bodies penetrate the device
- the device is not exposed to wide temperature variations, as otherwise there may be condensation from humidity causing electrical short circuits
- the device is not exposed to excessive shock or vibration.

### Unpacking the device

Handle the device with extreme care when unpacking it.

Packaging and packaging aids can be reused and, as far as possible, should be sent for recycling.

We recommend the following:

Paper, cardboard and corrugated cardboard as well as plastic packaging items should be placed in the appropriate recycling containers.

If no such facility exists in the area, these materials should be put into the general household waste.



#### Warning

If the original packaging has been damaged, start by inspecting the device. If the device shows signs of damage, return it in the original packaging and inform the delivery service.

### Disposal





Devices displaying this symbol may not be disposed of with domestic waste. At the end of its service life, dispose of the product according to the applicable legal requirements.

Please contact your dealer or dispose of the products at the local collection point for electronic waste.

**Start-up**

- Observe all safety and operating instructions before operating the device for the first time.

	<p><b>Warning</b></p> <p>When installing the device in an existing video surveillance system, ensure that all devices have been disconnected from the mains power circuit and low-voltage circuit.</p>
	<p><b>Warning</b></p> <p>Improper or unprofessional work on the mains network or domestic installations puts both you and others at risk.</p> <p>Connect the installations so that the mains power circuit and low-voltage circuit always run separately from each other. They should not be connected at any point or become connected as a result of a malfunction.</p>

**Care and maintenance**

Maintenance is necessary if the device has been damaged (e.g. damage to the power cable and plug, or the housing), or if liquids or foreign bodies have got into the interior of the device, or if it has been exposed to rain or damp, or if it does not work properly or has been dropped.

Maintenance

- If smoke, unusual noises or smells develop, switch the device off immediately and unplug from the socket. In such cases, the device should not be used until it has been inspected by a qualified technician.
- Have all maintenance tasks carried out by qualified technicians only.
- Never open the housing on the device or accessories unless this is necessary. As there is always a risk to life due to electric shock when the housing is open, only open the housing when the device is disconnected from the power source.

With some devices, opening the device is unavoidable and permitted for the following purposes:

- Installing the device
- Inserting a storage medium (SD card or hard disk drive)
- Accessing essential functions (reset button or WPS button)

Cleaning

- Only clean the device housing with a damp cloth.
- Do not use solvents, white spirit, thinners etc. or any of the following substances:  
Brine, insect spray, solvents containing chlorine or acids (ammonium chloride), or scouring powder.
- Rub the surface gently with the cotton cloth until it is completely dry.

	<p><b>The device operates with a dangerous voltage level. When conducting maintenance or cleaning work, disconnect the device from the mains.</b></p>
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## 1. Scope of delivery

### TVIP11561

- Wi-Fi 1080p indoor camera with alarm function
- Mount
- Power supply unit (EU, AU, UK)
- 1 m network cable
- CD
- Quickstart guide
- Installation materials

### TVIP41560

- Wi-Fi HD 720p outdoor dome camera
- Power supply unit (EU, AU, UK)
- 1 m network cable
- CD
- Quickstart guide
- Installation materials

### TVIP21560

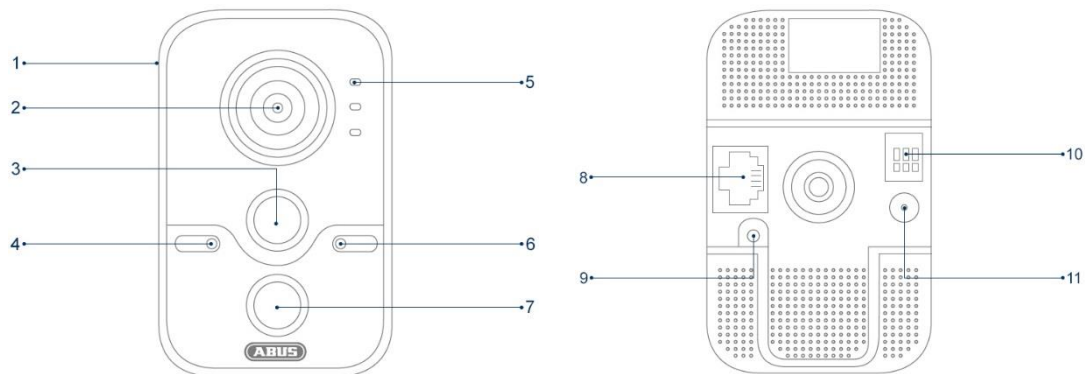
- Wi-Fi 720p pan/tilt indoor camera with alarm function
- Ceiling bracket
- Power supply unit (EU, AU, UK)
- 1 m network cable
- CD
- Quickstart guide
- Installation materials

### TVIP61560

- Wi-Fi HD 720p Outdoor Camera
- Power supply unit (EU, AU, UK)
- 1 m network cable
- CD
- Quickstart guide
- Installation materials

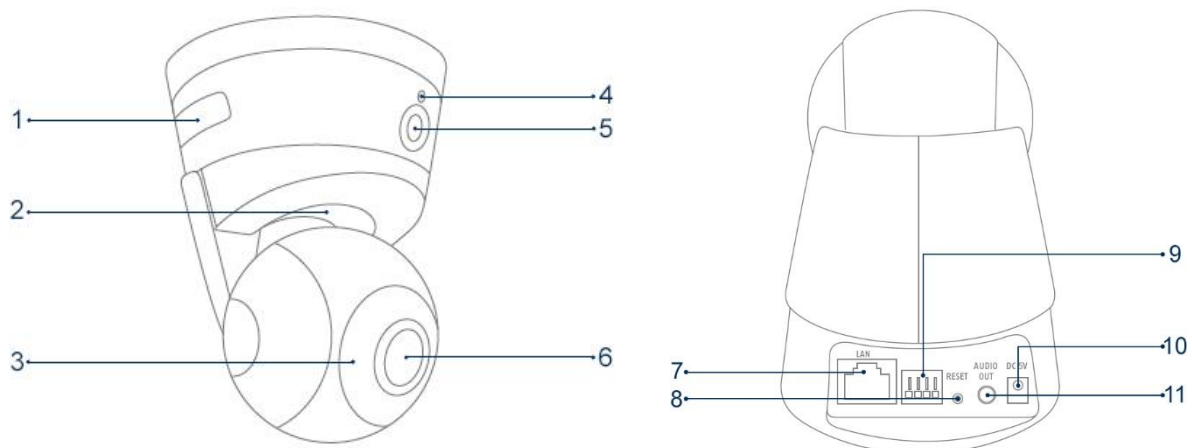
## 2. Description of hardware

### 2.1. TVIP11561



1	microSD card slot	2	Lens
3	PIR – Passive Infrared Sensor	4	Microphone
5	Status LEDs	6	Photo sensor
7	IR LED	8	LAN (PoE-enabled)
9	WPS/Reset button	10	Alarm input/output
11	12 V DC power supply connection		

### 2.2. TVIP21560



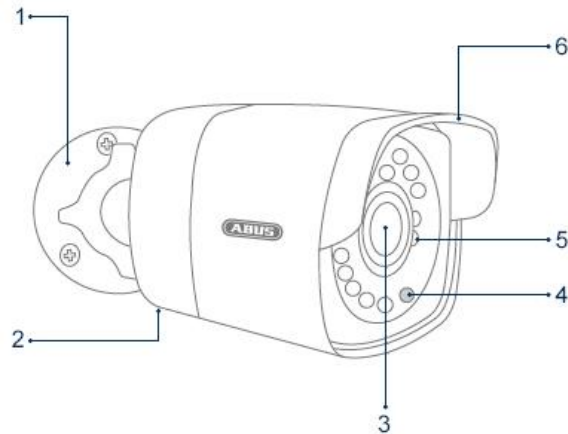
1	WPS button & microSD card slot	2	LED status bar
3	IR LEDs	4	Microphone
5	PIR – Passive Infrared Sensor	6	Lens
7	LAN	8	Reset button
9	Alarm input/output	10	5 V DC power supply connection
11	Audio output		

### 2.3. TVIP41560



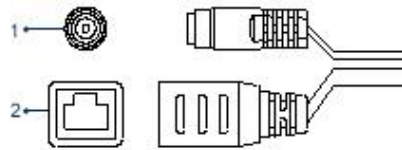
1	Base plate	2	IR LEDs
3	Photo sensor	4	Lens
5	Internal microSD card slot & WPS/Reset button ( <b>TVIP41560 only</b> )		

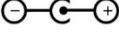
### 2.4. TVIP61560



1	Camera holder	2	Covered microSD card slot & WPS/Reset button ( <b>TVIP61560 only</b> )
3	Lens	4	Photo sensor
5	IR LEDs	6	Sun shield

## Connections (TVIP41560 / TVIP61560)



1	12 V DC power supply connection (round plug 5.5x2.1 mm) 
2	<p>Network access (RJ45, PoE-compatible)</p> <p>The network access includes a cover, which can be used if necessary. This cover provides additional protection by preventing moisture from entering the equipment. When using the cover, the network cable must only be connected (crimped) to the network plug once it has been passed through the cover. In addition, the connections (as well as the power supply connection) can be sealed with insulation tape.</p>

### 3. Description of hardware functions

#### 3.1. Status LEDs

##### TVIP11561

LED	Status	Description
Alarm LED	Lights <b>red</b>	A camera schedule is active
	Lights <b>blue</b>	No camera schedule is active
LED status	Lights <b>blue</b>	Camera has a malfunction
	Off	Camera does not have a malfunction
Link LED	Flashes <b>orange</b>	Network connected
	Off	Network not connected

##### TVIP21560

LED	Status	Description
Status bar	Lights <b>blue</b>	Network connected, No camera schedule is active
	Flashes <b>blue</b>	Network not connected, No camera schedule is active
	Lights <b>red</b>	A camera schedule is active
	Flashes <b>red</b>	Camera has a malfunction

##### TVIP41560 / TVIP61560

There are no visible status LEDs for these cameras.

### 3.2. Reset

To reset the camera to its factory settings, first disconnect the power supply. Keep the reset button pressed and reconnect the power supply to the camera. Continue pressing the reset button for another 15 seconds, then release.

**Note**

On some cameras, the same button is used for the reset function and the WPS function. Please refer to the description of the camera.

### 3.3. WPS

To use the WPS function via the hardware button, connect the camera to the power supply. Wait approximately one minute until the camera has fully started up. Then, first enable the WPS function on your receiver (router or recorder). Next, press and hold down the WPS button on the camera for 15 seconds.

**Note**

On some cameras, the same button is used for the reset function and the WPS function. Please refer to the description of the camera.

### 3.4. Alarm input/output

The alarm inputs/outputs are identified as follows on the cameras:

- I = Input
- O = Output
- G = Earth (ground)

The connections are potential-free relays which can be operated with the following maximum connection voltages:

- Max. 120 VAC / 1A
- Max. 24 VDC / 1A



Connect your peripherals as follows:

- Sensor:  
Connect your sensor to the output and earth.
- Actuator:  
Connect your actuator to the output and earth.

**Note for TVIP11561**

The earth can be used simultaneously for a sensor (input + earth) and an actuator (output + earth).

## 4. Mounting/installation

	<p><b>IMPORTANT!</b> The camera must be disconnected from the power supply during installation.</p>
	<p><b>Note</b> You will find installation illustrations in the quick start guide for the camera in question.</p>

### 4.1. TVIP11561


#### Mounting the camera

Use the accompanying drilling template or mount for drilling the mounting holes.

The drilling distance is 44 mm.

#### Orientation of the camera

The direction of the camera can be adjusted using the ball joint; loosen the fixing screws and adjust the camera.

	<p><b>Important:</b> Do not forget to tighten up the screws again!</p>
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### 4.2. TVIP21560

#### Mounting the camera

Use the accompanying drilling template or mount for drilling the mounting holes.

Drill the holes in advance and insert the accompanying screw anchor.

Use the accompanying screws to fasten the ceiling bracket in place.

	<p><b>Important:</b> Please note that the arrow and the label "FRONT" on the ceiling bracket points in the right direction.</p>
---	---

#### Orientation of the camera

Then place the camera onto the ceiling bracket and latch the camera in place by rotating it anti-clockwise.

### 4.3. TVIP41560

#### Mounting the camera

Loosen the fixing screws for the camera dome and remove them. Use the accompanying drilling template for drilling the mounting holes.

Secure the base plate with the screws and dowels provided.

Use the fixing screws to screw the camera dome back on to the camera. Adjust the orientation of the camera before doing this.

#### Orientation of the camera

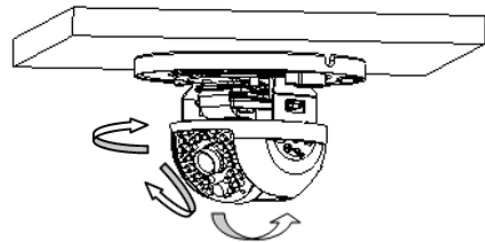
First, undo the black dome cover. Loosen the screws at the side of the bracket to align the lens.

The camera can be aligned in three axes.

Panning: 0°–355°

Inclination: 0°–65°

Rotation: 0°–360°



#### Important:

Do not forget to tighten up the screws again!

### 4.4. TVIP61560

#### Mounting the camera

Use the accompanying drilling template for drilling the mounting holes.

Secure the base plate with the screws and dowels provided.

#### Orientation of the camera

The camera can be aligned in three axes.

Panning: 0°–360°

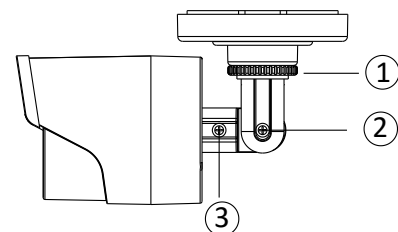
Loosen the rotary wheel (1) to adjust the alignment horizontally.

Inclination: 0°–90°

Loosen the screw (2) to adjust the alignment vertically.

Rotation: 0°–360°

Loosen the screw (3) to adjust the rotation of the camera image.



#### Important:

Do not forget to tighten up the screws again!

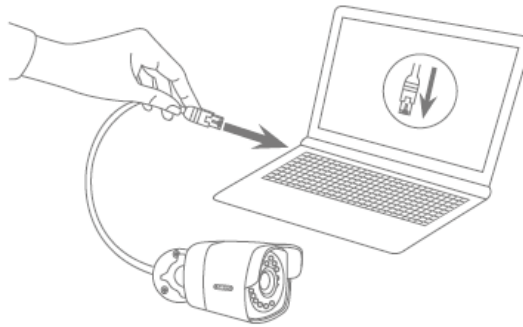


## 5. Initial start-up

The network camera automatically detects whether a direct connection between the PC and camera should be established. A crossover network cable is not required for this. You can use the supplied patch cable for direct connection for initial start-up.

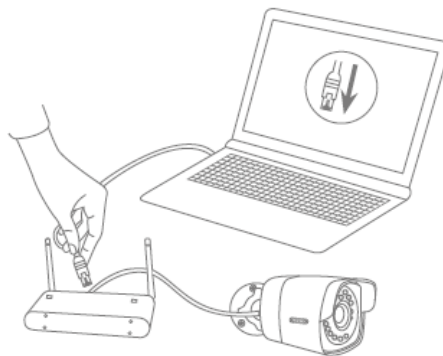
### Connecting the network camera directly to a PC/laptop

1. Ensure that a CAT 5 network cable is used.
2. Connect the cable to the Ethernet interface of the PC/laptop and the network camera.
3. Connect the network camera to the power supply.
4. Configure the network interface of your PC/laptop to the IP address 192.168.0.2



### Connecting the network camera to a router/switch

1. Ensure that a CAT 5 network cable is used for the connection.
2. Connect the PC/laptop to the router/switch.
3. Connect the network camera to the router/switch.
4. Connect the network camera to the power supply.
5. If a DHCP server is available on your network, set the network interface of your PC/laptop to "Obtain an IP address automatically".
6. If no DHCP server is available, configure the network interface of your PC/laptop to 192.168.0.2 and the default gateway to 192.168.0.1.



## 6. First access

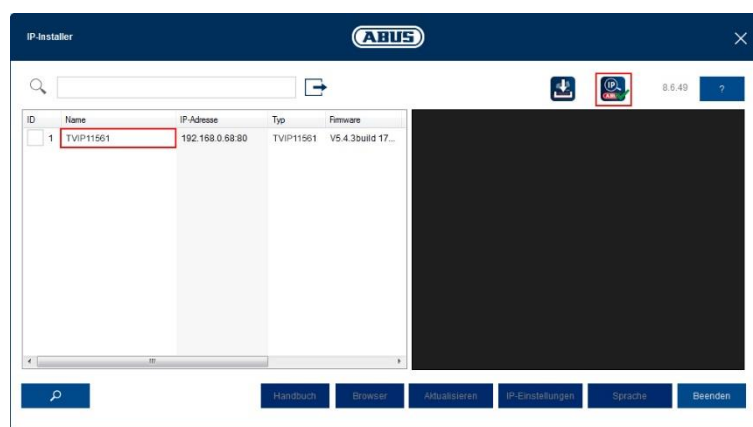
The first access to the IP camera simultaneously enables the device and makes it ready for operation.

### 6.1. First access with ABUS IP Installer

You can initiate first access to the IP camera using the IP Installer. The IP Installer is included on the enclosed CD or can be downloaded from our website [www.abus.com](http://www.abus.com).

Install the IP Installer on your Windows PC. Make sure you have installed the latest version. The highlighted icon on the screenshot below shows you whether a new version is available.

When the IP Installer is started, your network will automatically be scanned for ABUS IP cameras. Double-click the camera you wish to set up in order to open the camera's web interface. Alternatively, you can use the "Enable" button to carry out the activation via the IP Installer.




### 6.2. Password assignment - Activation

Once you have opened the camera's web interface for the first time or when you use the IP Installer for activation, a dialogue box will appear prompting you to enter a password.

No administrator password is set prior to delivery. The administrator user name "installer" has been set at the factory and can be changed in the settings later.

First enter a password that meets the specified requirements and confirm it. Then click on "Save".



**Password assignment**

User: installer

Password:

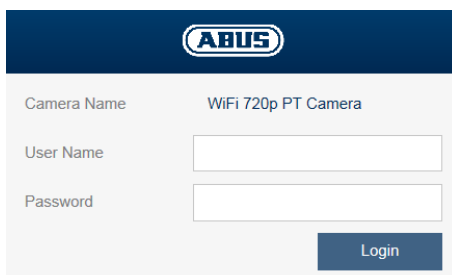
Strong

The password must consist of 8 to 16 digits. The password should include a combination of numeric, small and capital letters and special characters. At least two types of combinations should be used.

Confirm:

### 6.3. Login

When you open the web interface again, you will now be prompted to enter your user name and your password for the login.




ABUS	
Camera Name	WiFi 720p PT Camera
User Name	<input type="text"/>
Password	<input type="password"/>
<input type="button" value="Login"/>	


### 6.4. Video plug-in

An ActiveX plug-in is used for displaying video. This plug-in must be installed in the browser. You will be asked to confirm the installation directly after entering your username and password.


#### Internet Explorer

	<p><b>Note</b></p> <p>If the ActiveX plug-in installation is blocked by Internet Explorer, you will need to reduce your security settings to install/initialise ActiveX.</p>
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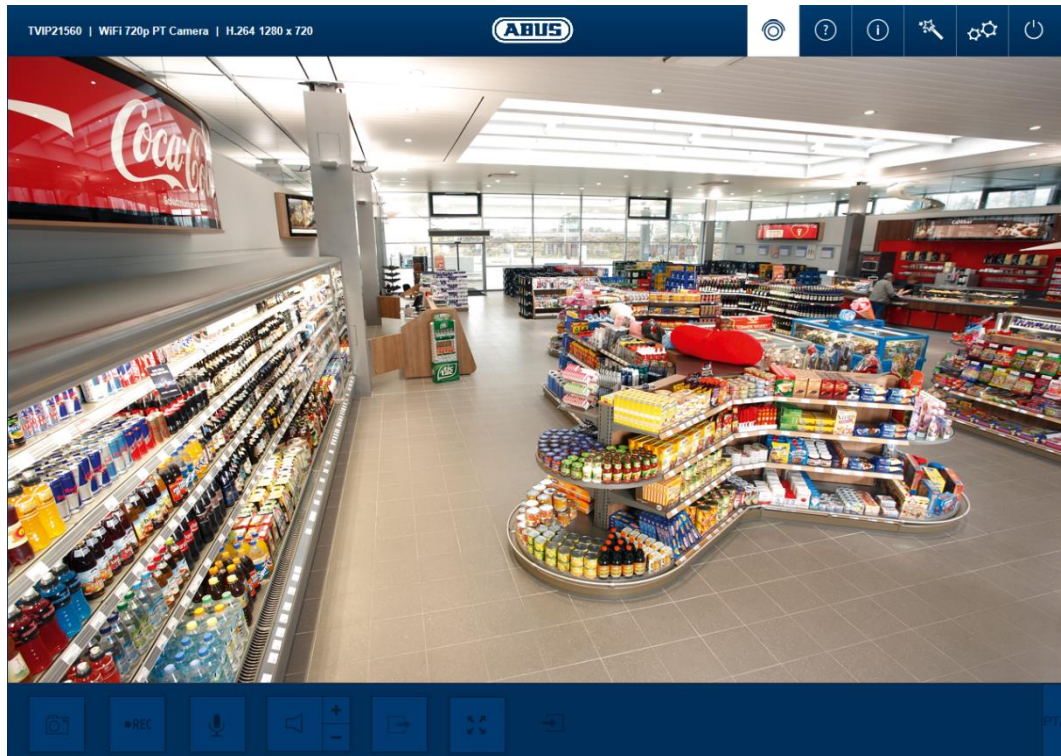
#### Mozilla Firefox

	<p><b>Important:</b></p> <p>For Mozilla Firefox (older versions up to Version 51): The video plug-in is only supported by the Windows version of Mozilla Firefox.</p> <p><b>The most recent version of Mozilla Firefox no longer supports video plug-ins. This means that it is not possible to display video.</b></p>
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#### Google Chrome













	<p><b>Important:</b></p> <p>For Google Chrome (older versions up to Version 42): The video plug-in is only supported by the Windows version of the Google Chrome browser.</p> <p><b>The most recent version of Google Chrome no longer supports video plug-ins. This means that it is not possible to display video.</b></p>
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## 7. Live view



### 7.1. Menu bar










You can use the menu bar to access the various menus for the camera. The selected menu will be highlighted in white.

     	
	<b>Live view</b>
	<b>Help page</b>
	<b>Info page</b>
	<b>Setup wizard</b>
	<b>Advanced camera settings</b>
	<b>Log out</b> The live view will be closed and you will be taken to the login.

## 7.2. Live view – buttons

You can use the buttons on the bar at the bottom to perform various live operations. If you click on a button, it will light up.




Depending on the camera type, some buttons may not be visible or cannot be used.

	
	<p><b>Instant image function</b></p> <p>This function saves an instant image from the current video stream in JPEG format (see Local Configuration for save location).</p>
	<p><b>Video function</b></p> <p>This function saves a video from the current video stream in AVI format (see Local Configuration for save location).</p>
	<p><b>Enable two-way audio</b></p> <p>Enables the camera's loudspeaker/audio output and microphone.</p>
	<p><b>Enable audio</b></p> <p>Enables the camera's microphone. The camera's stream type must be set to "Video &amp; Audio".</p>
	<p><b>Trigger Alarm Output</b></p> <p>Enables the camera's alarm output.</p>
	<p><b>Full screen mode</b></p> <p>Switching the live view on the monitor to full screen mode (you can also do this by double clicking within the video frame). You can exit full screen mode by double clicking within the video frame again or pressing the ESC button.</p>
	<p><b>Alarm input display</b></p> <p>Indicates whether the camera's alarm input is active or inactive. (The display does not update automatically. If the status has changed, this will only be visible when the page is updated)</p>
	<p><b>PTZ control</b></p> <p>Use this button to open the camera's PTZ control</p>

### 7.3. Live view – PTZ control


You can use PTZ control to control your camera or access preset positions and patrols.







Depending on the camera type, the control and accessing of preset positions and patrols may be limited.






	
	<p><b>PTZ control</b></p> <p>Enable PTZ control by pressing the PT button. You can then use the arrows to control your camera.</p>
	<p><b>Access preset positions, patrols</b></p> <p>Use the digits to select the number of the desired preset position and press the corresponding button.</p>


### 8. Help page

The functions of the buttons on the live page are explained on this page.

TVIP21560 | WiFi 720p PT Camera


-  **Snapshot**  
Save snapshot on PC
-  **Start local recording**  
Start/stop local recording on PC
-  **Microphone**  
Activate/deactivate microphone
-  **Loudspeaker**  
Activate/deactivate loudspeaker
-  **Full-screen view**  
Change to full-screen view

 On questions regarding functions of the camera please refer to the user manual in PDF format unter [www.abus.com](http://www.abus.com).

## 9. Info page

The info page displays general information about the camera, e.g. installed firmware version or MAC address of the camera.

WiFi 720p PT Camera

**Status:**  
The system is working correctly!

Device Name	WiFi 720p PT Camera
Device No.	88
Model	TVIP21560
Firmware Version	V5.4.4 build 170427
Encoding Version	V1.0 build 170222
Number of Channels	1
Number of HDDs	1
Number of Alarm Input	1
Number of Alarm Output	1

RAM use: 3%

Current data rate: 4605 kbit/s

CPU load: 42%

### 9.1. System status

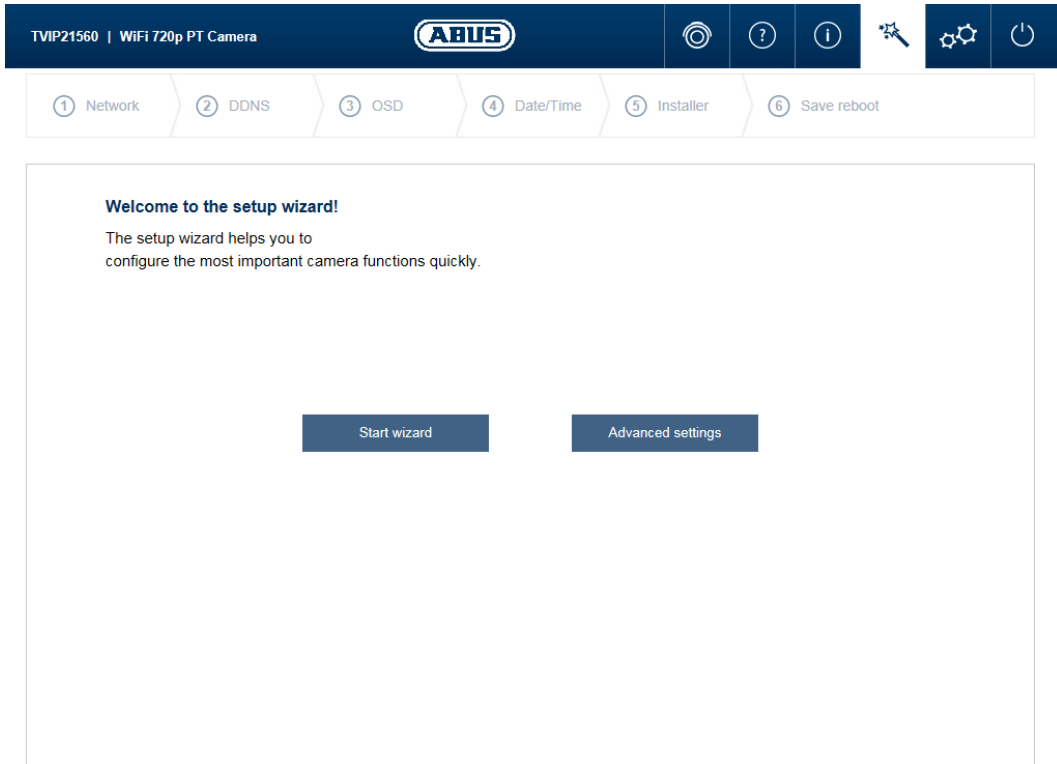
The info bar also shows you the system status.

	<p><b>System is running correctly</b></p> <p>All parameters such as system temperature and processor usage are fine. All functions in use are working correctly.</p>
	<p><b>System is faulty</b></p> <p>Errors have occurred in the system. But these are not critical to the basic functionality of the camera. However, they could cause limitations or malfunctions within certain functions. The system may need to be tested by the installer.</p>
	<p><b>System condition is critical</b></p> <p>Certain parameters such as system temperature or processor usage are critical for the system. The system must be tested by the installer immediately.</p>

## 10. Setup wizard

The setup wizard navigates you through the most important menu options for the initial setup of a camera. The following menu options are dealt with:

Network → DDNS → Text → Date/Clock → Installer → Save/Restart



For more information on each settings option see the section "Advanced camera settings".



## 11. Advanced camera settings

In the advanced camera settings, you have access to all the options for configuring the camera. In the individual menu options, you will find an info box that displays help and information directly.

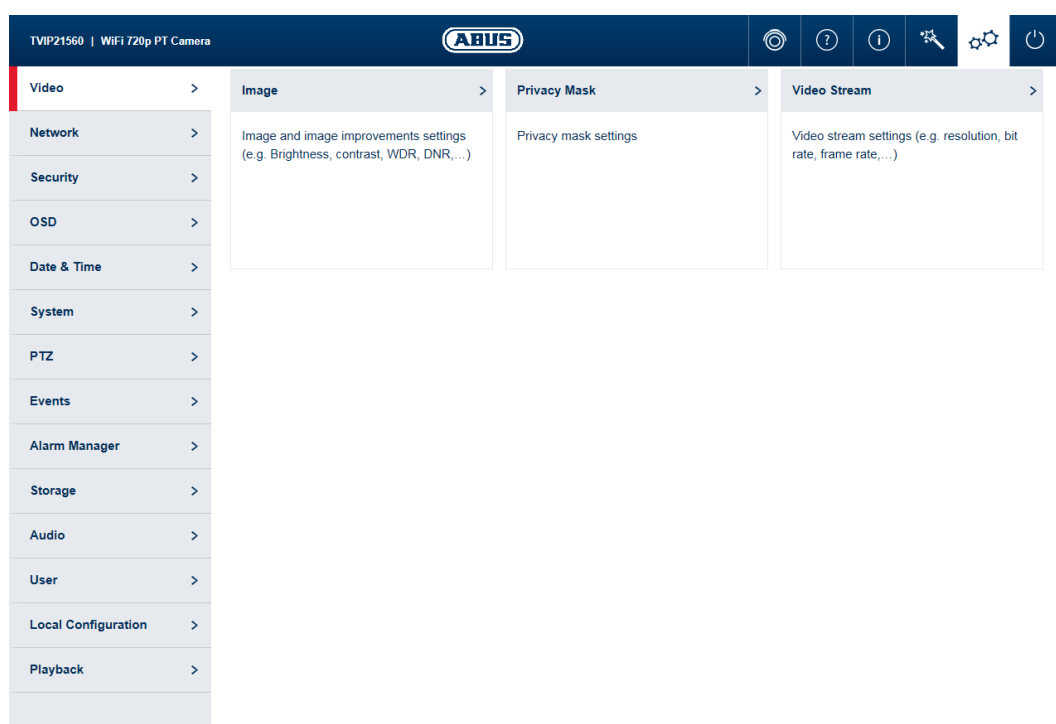


### Note

If you make changes to the individual menu options, make sure to save your changes with the “Save Settings” button.

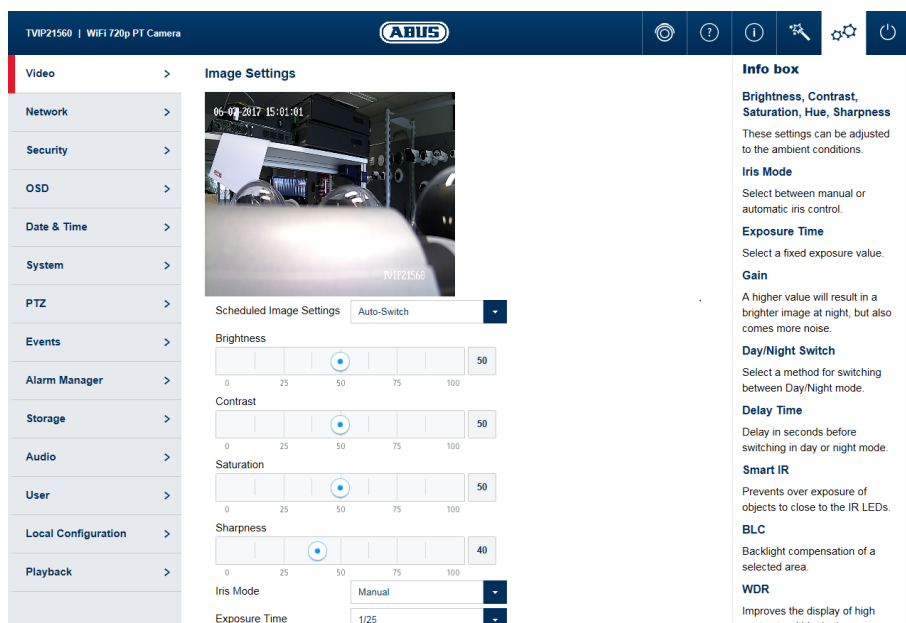
Not every camera type has the same functions. For this reason, individual menu options may not be available for your camera type. You will find a list under the screenshot of the menu option tab with the corresponding support for the individual cameras.

### 11.1. Video




Menu	Camera type supported
Image	TVIP11561, TVIP21560, TVIP41560, TVIP61560
Privacy mask	TVIP11561, TVIP21560, TVIP41560, TVIP61560
Video stream settings	TVIP11561, TVIP21560, TVIP41560, TVIP61560

### 11.1.1. Image

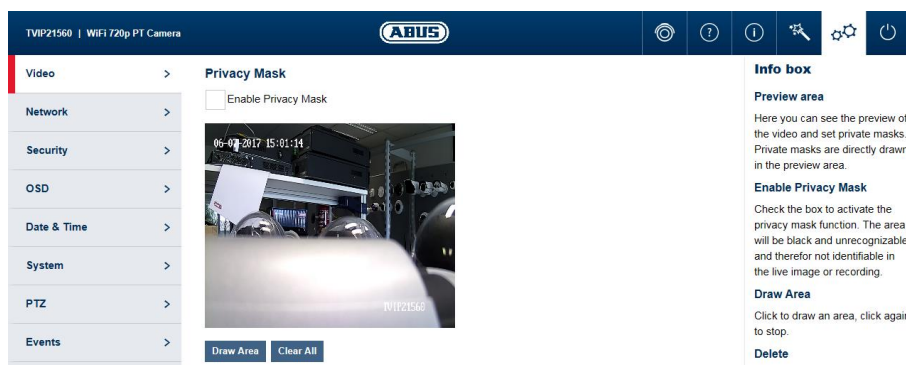


Scheduled Image Settings:	Configure whether you wish to set a common profile for day and night mode, use an automatic separate day and night profile or a time-controlled separate day and night profile.
Brightness, contrast:	Adjust these values to suit the ambient conditions.
Saturation, hue:	Adjust these values to suit the ambient conditions.
Sharpness:	set the electronic oversharpener for the image (edge overdraw)
Iris mode:	choose between manual and automatic iris control, depending on your model. If only one mode is available, then it is the only mode offered.
Exposure time:	select a value for the fixed exposure time.
Day/night switching:	Select a method for switching between day and night mode. Day: The camera stays in day mode. Night: the camera stays in night mode. Auto: Automatic switching according to light conditions Schedule: switching at fixed times. You must enter the day start time and day end time. Triggered by event: switching is performed by triggering the switching input. The output status can be achieved via the status option if the input is not triggered.
Delay time:	delay in seconds until switching to day or night mode.
Smart IR:	Prevents glare effects from objects that are too close when IR lighting is enabled.
BLC:	backlight compensation with reference to a selected area
WDR:	wide dynamic function for improved display of high contrasts. The WDR level should be reduced if the image displayed is too bright.
Wide dynamic level:	select the WDR level. A higher level may increase image noise.
White balance:	Select between different variants of white balance.
Digital Noise reduction:	Function for reducing noise in the image. The higher the value, the more noise is removed and the more static the image appears.
Noise reduction level:	select the DNR level
Mirroring:	this setting can be used to mirror the image horizontally or horizontally and vertically.
Video standard:	Here you can set the mains frequency of the power supply network.

IR light: Enable or disable the camera's IR LEDs in night mode

	<p><b>Note</b></p> <p>The effective IR range will depend on the installation location. If there are surfaces that absorb light or no objects that reflect IR light in the field of view, the IR range will be reduced and/or the video image will be too dark. Reflective objects in the immediate vicinity of the camera (e.g. roof gutter or wall) may also result in the reflection of IR light, which can disturb the image.</p>
---	--

### 11.1.2. Privacy mask



The screenshot shows the 'Privacy Mask' configuration page in the ABUS camera web interface. On the left is a sidebar menu with categories: Video, Network, Security, OSD, Date & Time, System, PTZ, and Events. The main content area is titled 'Privacy Mask' and features an 'Enable Privacy Mask' checkbox. Below this is a video preview window showing a live feed with a blacked-out area representing a privacy mask. The video has a timestamp '06-07-2017 15:01:14' and the camera ID 'TVIP21560'. Below the preview are 'Draw Area' and 'Clear All' buttons. On the right side, there is an 'Info box' with the following text:

**Info box**

**Preview area**  
Here you can see the preview of the video and set private masks. Private masks are directly drawn in the preview area.

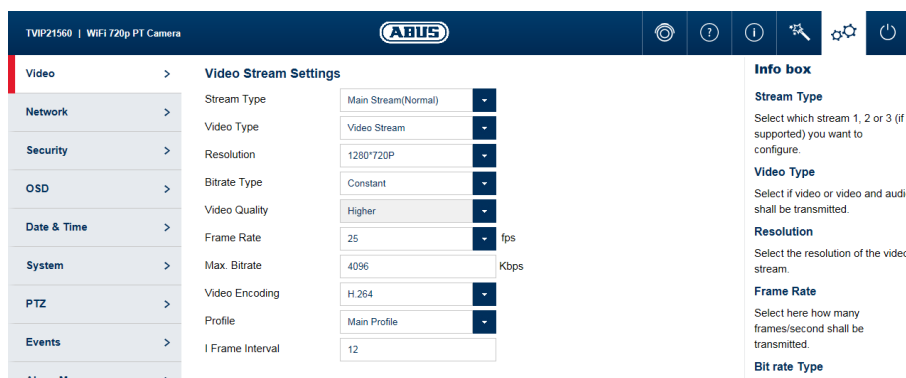
**Enable Privacy Mask**  
Check the box to activate the privacy mask function. The area will be blacked out and unrecognizable and therefore not identifiable in the live image or recording.

**Draw Area**  
Click to draw an area, click again to stop.

**Delete**

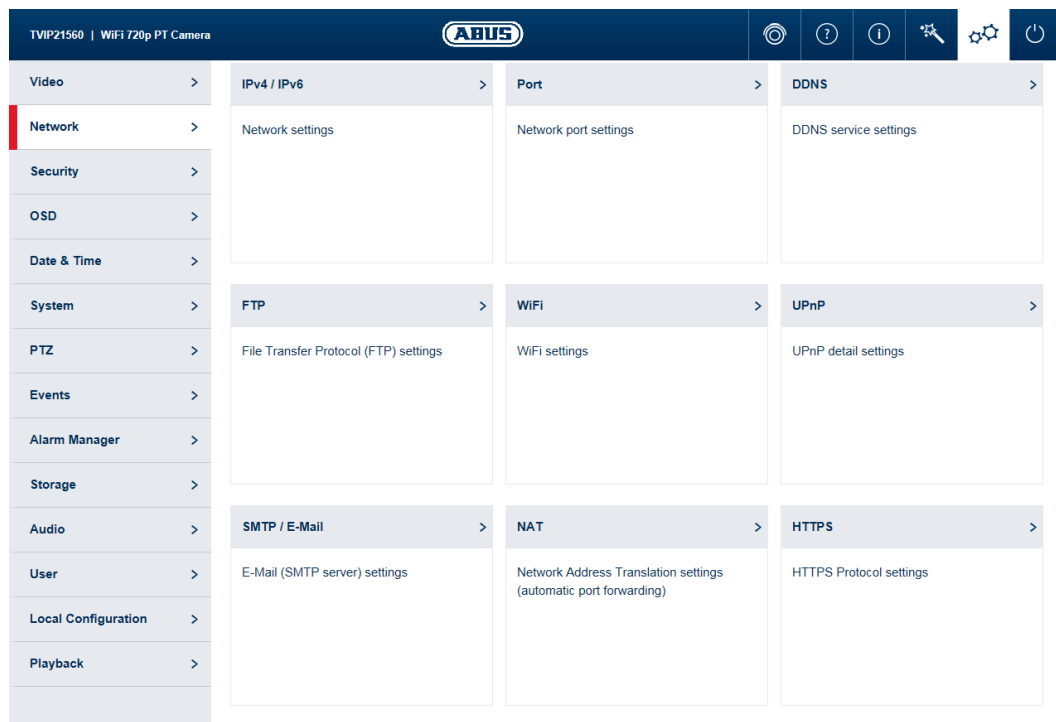
- Preview area: The preview of the video and privacy masks that have been set up are displayed here. Privacy masks are drawn directly in the preview area.
- Enable privacy masks: Enable/disable privacy masks.
- Drawing: Draw polygonal areas. The drawing mode is closed by pressing this button again. The area drawn is blacked out and so cannot be seen in the live image or in the recording.
- Delete: Deletes all private zones.

### 11.1.3. Video stream settings



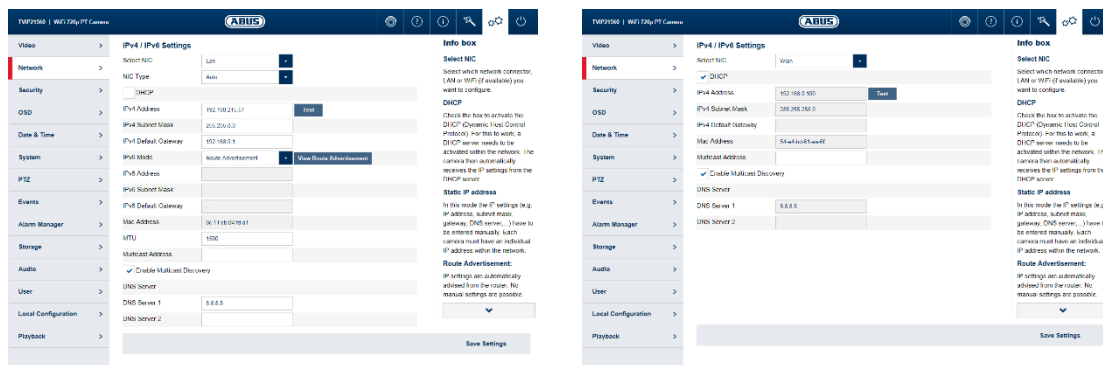
- Stream:** Select the first, second or – if it is available for your camera model – the third video stream for configuration.
- Type:** Select whether video or video & audio should be transmitted.
- Resolution:** Choose the resolution for the video stream.
- Bit rate:** Select the streaming method:  
 Constant bitrate: keeps the bitrate constant at the set value, regardless of the quality.  
 Variable bitrate: keeps the video quality constant at the set value, regardless of the max. bitrate.
- Video quality:** select the desired quality (for variable bitrate only). The value set here describes the compression level.
- Frame rate:** Select the number of images/second for transmission.
- Max. bitrate:** Select the bandwidth that should constantly be used for data transmission (for constant bitrate only).
- Video codec:** Select the codec that should be used for compressing the data.
- Profile:** Here you can select the profile type for the video codec. A profile is standardised and determines the parameters that should be used for encoding.
- I frame interval:** Select how often an I frame should be sent (H.264 only). The more often an I frame (full image) is sent, the better the video quality is, but the more bandwidth is required.

## 11.2. Network



Menu	Camera type supported
IPv4/IPv6	TVIP11561, TVIP21560, TVIP41560, TVIP61560
Port	TVIP11561, TVIP21560, TVIP41560, TVIP61560
DDNS	TVIP11561, TVIP21560, TVIP41560, TVIP61560
FTP	TVIP11561, TVIP21560, TVIP41560, TVIP61560
Wi-Fi	TVIP11561, TVIP21560, TVIP41560, TVIP61560
UPnP	TVIP11561, TVIP21560, TVIP41560, TVIP61560
SMTP / e-mail	TVIP11561, TVIP21560, TVIP41560, TVIP61560
NAT	TVIP11561, TVIP21560, TVIP41560, TVIP61560
HTTPs	TVIP11561, TVIP21560, TVIP41560, TVIP61560

## 11.2.1. IPv4/IPv6



- Select NIC:** choose whether the Ethernet or Wi-fi interface (if available) should be configured.
- NIC type:** selection of the speed for the LAN adapter.
- DHCP:** the IP address, subnet mask, gateway (default router) and address for the DNS server are obtained automatically from a DHCP server. An activated DHCP server must be present in the network in this case. The fields on this page are deactivated in this mode and serve as informational fields for the data obtained. If DHCP is not enabled, then a static IP address is used (see below).
- IPv4 address:** manual setting of the camera's IP address  
Test: check whether your selected IP address already exists in the network.
- IPv4 subnet mask:** manual setting of the camera's subnet mask
- IPv4 default gateway:** manual setting of the camera's gateway IP address (also known as default router)
- IPv6 mode:** Manual: manual allocation of the IPv6 address  
DHCP: automatic allocation of the address by the DHCP
- Route advertisement:** IPv6 network address
- IPv6 address:** IPv6 Subnet Mask
- IPv6 Subnet Mask:** IPv6 Standard Gateway
- IPv6 Default Gateway:**
- MAC Address:** display of the MAC address
- MTU:** maximum packet length
- Multicast address:** multicast network address
- Enable Multicast Discovery:** enable the multicast function
- DNS server 1:** manual setting of the DNS server's IP address
- DNS server 2:** alternative IP address of a DNS server

### 11.2.2. Port

Category	Setting	Value
Network	HTTP Port	80
Network	RTSP Port	554
Security	HTTPS Port	443
OSD	Server Port	8000


**Info box**  
**HTTP port**  
 Enter the HTTP port of the camera. A client (e.g. browser) can use this port for communication with the camera. Default value is 80.  
**RTSP port**

**HTTP port:** the default port for HTTP transmission is 80. If several IP cameras are located on one subnet, each camera should have its own unique HTTP port.

**RTSP port:** the default port for RTSP transmission is 554. If several IP cameras are located on one subnet, each camera should have its own unique RTSP port.

**HTTPS port:** The default port for HTTPS transmission is 443. If several IP cameras are located on one subnet, each camera should have its own unique HTTPS port.

**Server port:** The default port is 8000. If several IP cameras are located on one subnet, each camera should have its own unique server port.

	<p><b>Note</b></p> <p>If the camera is to be accessed via routers (e.g. from the internet to the local network), port forwarding must be set up for the HTTP, RTSP and server port in the router. If HTTPS is also being used, port forwarding must be set up for the HTTPS port too.</p>
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### 11.2.3. DDNS

**DDNS Service Settings**

Enable DDNS

DDNS Type: ABUS Server

**Info box**  
**Activate DDNS**  
 Check the box to activate the DDNS (Dynamic Domain Name Service). This function enables

**Activate DDNS:** ticking the checkbox activates the DDNS function.

**Select service:** select a service provider for the DDNS service.


**Server Address:** IP address of the service provider

**Domain:** registered host name with the DDNS service provider

**Port:** port for the service

**User name:** user account identification with the DDNS service provider

**Password:** account password with the DDNS service provider

	<p><b>Note</b></p> <p>Further information on the "ABUS SERVER" can be found on the help page at the following address:  <a href="https://www.abus-server.com/faq.html">https://www.abus-server.com/faq.html</a></p>
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## 11.2.4. FTP

The screenshot shows the 'FTP settings' page in the camera's web interface. The left sidebar contains a navigation menu with items: Video, Network, Security, OSD, Date & Time, System, PTZ, Events, and Alarm Manager. The main content area is titled 'FTP settings' and includes the following fields and options:

- Server Address:** 192.168.10.100
- Port:** 21
- User Name:** kamera
- Anonymous:**
- Password:** [masked with dots]
- Confirm:** [masked with dots]
- Directory Structure:** Save in the parent directory (dropdown)
- Parent Directory:** Custom (dropdown) with a text input field containing 'FTP-Storage'
- Picture Filing Interval:** OFF (dropdown) with a text input field containing 'Day(s)'
- Picture Name:** Default (dropdown)
- Upload Picture:**
- Test:** [button]

An **Info box** on the right side provides instructions for each field:

- Server Address:** Enter the IP address of the FTP server in LAN or WAN here (the IP address of a domain name must first be identified).
- Port:** Enter the FTP port of the server here. The standard for the FTP port is 23.
- User Name:** Enter the user name of the FTP server account here.
- Password/Confirm:** Enter and confirm the FTP server account password here.
- Directory Structure:** Enter the destination folder for

Server Address:	IP address of the FTP server
Port:	FTP server port
User name:	user name for the FTP server account
Anonymous:	anonymous access to the FTP server (server must support this)
Password:	password for the FTP server account
Confirm:	Password confirmation
Directory Structure:	Select the save location for the uploaded data here. You can choose between "Save in the root directory", "Save in the parent directory" or "Save in the child directory".
Parent directory:	This menu item is available only if "Save in the parent directory" or "Save in the child directory" has been selected under Directory Structure. You can select "Custom" and enter your directory name.
Picture Filing Interval:	Select the interval to determine for how many days the camera should save images on the FTP server. If you select "OFF", the camera will save images until the memory is full.
Picture Name:	Specify whether the image files should have a specific prefix.
Upload Picture:	Enable "Upload Picture" to upload pictures to the FTP server.
Test:	Test whether access to the FTP server is working.



## 11.2.5. Wi-Fi

The screenshot displays the 'Wi-Fi settings' page for an ABUS TVIP21560 camera. The interface is divided into several sections:

- Wi-Fi settings:** A toggle switch to 'Enable' Wi-Fi.
- Wi-Fi List:** A table listing available Wi-Fi networks.
 

No.	SSID	Working	Security M.	Channel	Signal St.	Speed(M.)	Connect...
1	PMV_Testlabor	Manage	WPA2-per...	12	95	150	Disconne...
2	NVR092024675	Manage	WPA2-per...	1	93	150	Disconne...
3	PM_Video - Retail	Manage	WPA2-per...	12	93	150	Disconne...
4	secureconnectwifi	Manage	WPA2-per...	6	78	150	Disconne...
5	PMA-A1-2.4	Manage	WPA2-per...	6	75	150	Disconne...
6	PMA-A2-2.4	Manage	WPA2-per...	11	70	150	Disconne...
7	Atrium IP Advanced	Manage	WPA2-per...	1	69	150	Disconne...
8	Atrium IP Basic	Manage	WPA2-per...	1	85	150	Disconne...
9	WLAN_Draytek	Manage	WPA2-per...	6	64	150	Disconne...
10	PMA-A1-2.4	Manage	WPA2-per...	6	64	150	Disconne...
11	ABUS Big Cube	Manage	WPA2-per...	11	62	150	Disconne...
12	WLAN-ASC	Manage	WPA2-ent...	13	62	150	Disconne...
13	Ullivestwand	Manage	WPA2-per...	1	60	150	Disconne...
- Wi-Fi configuration:**
  - SSID: Text input field.
  - Network Mode: Radio buttons for 'Manage' (selected) and 'Ad-Hoc'.
  - Security Mode: Dropdown menu currently set to 'not-encrypted'.
  - WPS: A checked checkbox 'Enable WPS' and a 'PIN Code' field with the value '12345678' and a 'Generate' button.
- Info box:**
  - Wi-Fi List:** Explains that available networks are listed here and can be clicked to connect.
  - SSID:** Instructs to enter the name of the wireless network.
  - Network Mode:**
    - Infrastructure:** Describes a network using a central point (wireless access point/router) for coordination and data transmission.
    - Ad-Hoc:** Describes a network without a central point, where all components are connected directly.
  - Security Mode:** Instructs to select the type of encryption for the wireless connection (WPA2 personal is recommended).
  - Encryption Type:** Instructs to select the encryption algorithm.
  - Password:** A section for entering the network password.

Enable:

Enable or disable Wi-Fi.

Wi-Fi list:

Available Wi-Fi networks are displayed here. Click in a row to select a network.

SSID:

(Service Set Identifier) Enter the name of the wireless network here.

Network mode:

Infrastructure

Describes a network in which a central instance (wireless access point/router) carries out the coordination and data transmission for all network components.

Ad-hoc:

Describes a network in which all network components are connected to one another directly, without using a central instance (wireless access point/router). All network components must use the same SSID and security mode.

Security mode:

Select encryption for the Wi-Fi connection (WPA2 personal is recommended).

Encryption Type:

Select an encryption algorithm. (recommended: AES)

Password:

Enter a password for the Wi-Fi network.

Enable WPS:

(Wi-Fi protected setup) enables the WPS function. There are 2 different methods for using the WPS function (PIN code, PBC).

PIN code:

generates a new PIN code for using the PIN code method.

PBC connection:

(Push Button Configuration) the WPS connection is produced after a button is pressed on the camera.

PIN code connection:

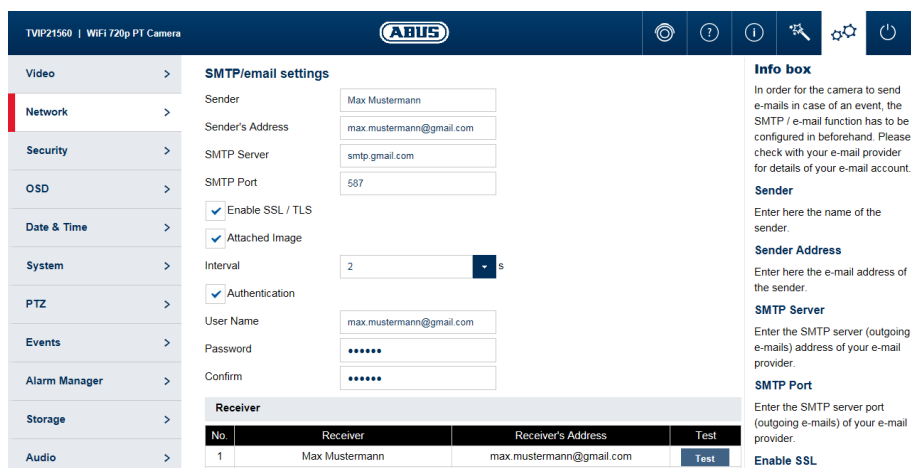
a PIN code is generated in the router and entered in the camera.

## 11.2.6. UPnP



**Enable UPnP:** enables or disables the UPnP function.  
**Name:** assigning a UPnP name, which the camera uses to appear on the network via UPnP.

## 11.2.7. SMTP / e-mail



The SMTP/email function must be configured beforehand, so that the camera is able to send emails if certain events occur. You can obtain information about the various details from your email provider.

**Sender name:** Enter the name of the sender here.  
**Sender email address:** Enter the email address of the sender here.  
**SMTP Server:** Enter the SMTP outgoing mail server for your email provider here.  
**SMTP Port:** Enter the SMTP server port here (e.g. 587 if you are using TLS).

**Enable SSL / TLS:** enable if the email server uses SSL or TLS. The SMTP port may have to be changed.  
**Attached Image:** Enable whether an image is to be sent with an e-mail message.  
**Interval:** If you have enabled Attached Image, 3 images will always be sent. Select the interval between the images here.  
**Authentication:** Enable authentication to enter the login details for your e-mail account.  
**User name:** Enter the user name of your email account here.  
**Password:** Enter the password for your e-mail account here and confirm it.  
**Receiver:** Enter the recipients with name and email addresses (max. 3 recipients) here.

## 11.2.8. NAT

Port Type	External Port	External IP Address	Internal Port	Status
HTTP	80	0.0.0.0	80	Not Valid
RTSP	554	0.0.0.0	554	Not Valid
Server Port	8000	0.0.0.0	8000	Not Valid

Port Mapping Mode:                    Manual: manual assignment of all ports  
    Auto: automatic assignment of all ports

## 11.2.9. HTTPS

```

Certificate Details
Installed Certificate: C=DE, H/IP=192.168.0.44
Property: Subject: C=DE, H/IP=192.168.0.44
          Issuer: C=DE, H/IP=192.168.0.44
          Validity: 2017-04-07 12:08:09
                  - 2018-04-07 12:08:09
  
```

Activate HTTPS:                    enables the HTTPS function. This enables a secure connection with connection certificate. Please note that further steps are necessary for configuring the HTTPS function.

The camera generates a self-signed certificate during the first boot process. You can use this certificate immediately.

**Note**

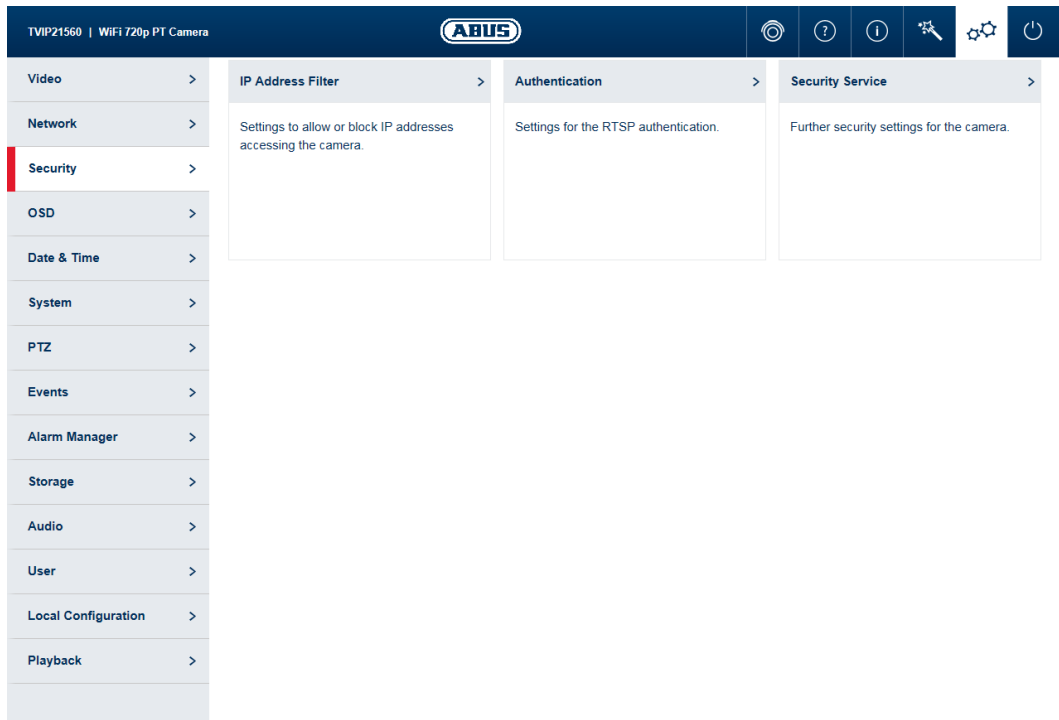
In order to access the camera via HTTPS, you must always enter <https://> on your browser's address line in front of your camera's IP address.

Because it is a self-signed certificate, the browser will usually tell you that the certificate you are using is not trustworthy. Continue here and trust the certificate in order to use the HTTPS connection with the camera.

You can also delete the existing certificate and insert a certificate you have created, insert an official certificate or create your own certificate directly on the camera.

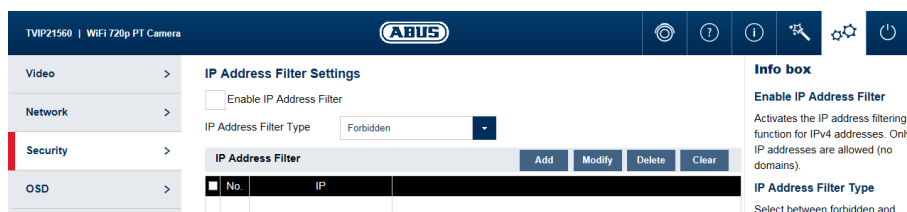
You can also download the certificate and install it on your PC to prevent the browser from issuing a warning on first access.

## 11.3. Security



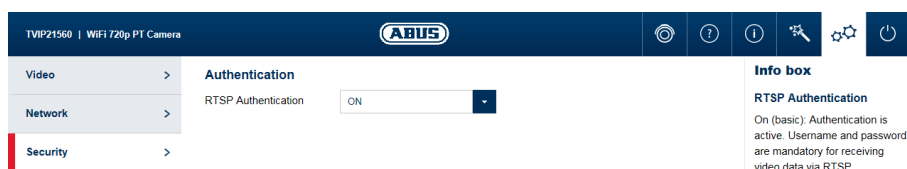
Menu	Camera type supported
IP Address Filter	TVIP11561, TVIP21560, TVIP41560, TVIP61560
Authentication	TVIP11561, TVIP21560, TVIP41560, TVIP61560
Security Service	TVIP11561, TVIP21560, TVIP41560, TVIP61560

### 11.3.1. IP Address Filter



- Enable IP address filter: enables the IP address filter function for IPv4 addresses. Only IP addresses are allowed when inputting the addresses (no domain names).
- IP address filter type: choice between forbidden and allowed addresses. You can only set either forbidden or allowed addresses.
- Add: Add IP addresses.
- Modify: Change existing IP addresses.
- Delete: Delete existing IP addresses.

### 11.3.2. Authentication



- RTSP Authentication: ON: enables authentication. User name and password are required for transmitting video data via RTSP.  
OFF: disables authentication.

### 11.3.3. Security Service



- Enable illegal login lock: after enabling, access to the camera is locked for 5 minutes if the user name or password is input incorrectly 5 times.

## 11.4. Text

The screenshot shows the web interface for an ABUS TVIP21560 camera. The left sidebar contains a navigation menu with options: Video, Network, Security, OSD (selected), Date & Time, System, PTZ, Events, Alarm Manager, Storage, Audio, User, Local Configuration, and Playback. The main area is titled 'OSD' and features a video feed with overlaid text: '16-07-2017 15:05:00' and 'TVIP21560'. Below the video feed are two checked checkboxes: 'Display Date' and 'Display Name'. The settings section includes:
 

- Camera Name: TVIP21560
- Time Format: 24-hour
- Date Format: DD-MM-YYYY
- Display Mode: Not transparent & Not fla...
- OSD Size: Auto
- Font Color: Custom (with a color palette)

 The right sidebar, titled 'Info box', provides instructions for each setting:
 

- Camera Name:** Enter the camera name (max. 32 characters).
- Time Format:** Select the time format (24 hours or 12 hours).
- Date Format:** Select the date format.
- Display Mode:** Select the display mode (blinking or non-blinking).
- OSD Size:** Select the size for one character. Options are: 16x16, 32x32, 48x48, 64x64 pixel, auto. The option auto adapts the sizes corresponding to the image size.
- Font Color:** The font color. When using user defined, you will the color palette next to the selection box.

 A 'Save Settings' button is located at the bottom right of the settings panel.

Menu	Camera type supported
Text	TVIP11561, TVIP21560, TVIP41560, TVIP61560

Date:	Enable the displaying of the date.
Text:	Enable the displaying of the camera name.
Camera name:	enter the camera name here (max. 32 characters).
Time format:	select a display format (24-hour or 12-hour) for the time.
Date format:	select a display format for the date.
Display mode:	select between flashing or non-flashing display for all overlays.
OSD size:	select the size for a character. Options: 16x16, 32x32, 48x48, 64x64 pixels, auto). The auto option automatically adapts the character size to the image size.
Font colour:	select the colour for displaying characters. The colour palette for a custom selection can be found on the right next to the selection box.

## 11.5. Date & time

The screenshot shows the 'Date & Time' configuration page for an ABUS camera. The interface includes a sidebar menu on the left with 'Date & Time' selected. The main content area has the following settings:

- Time Zone:** (GMT+01:00) Amsterdam, Berlin, Rome, Paris
- NTP:**
- Manual:**
- Device Time:** 2017-07-06T15:05:11
- Set Time:** 2017-07-06T15:05:10
- PC time synchronization:**
- Enable DST:**
- Auto:**
- Manual:**

The 'Info box' on the right provides the following instructions:

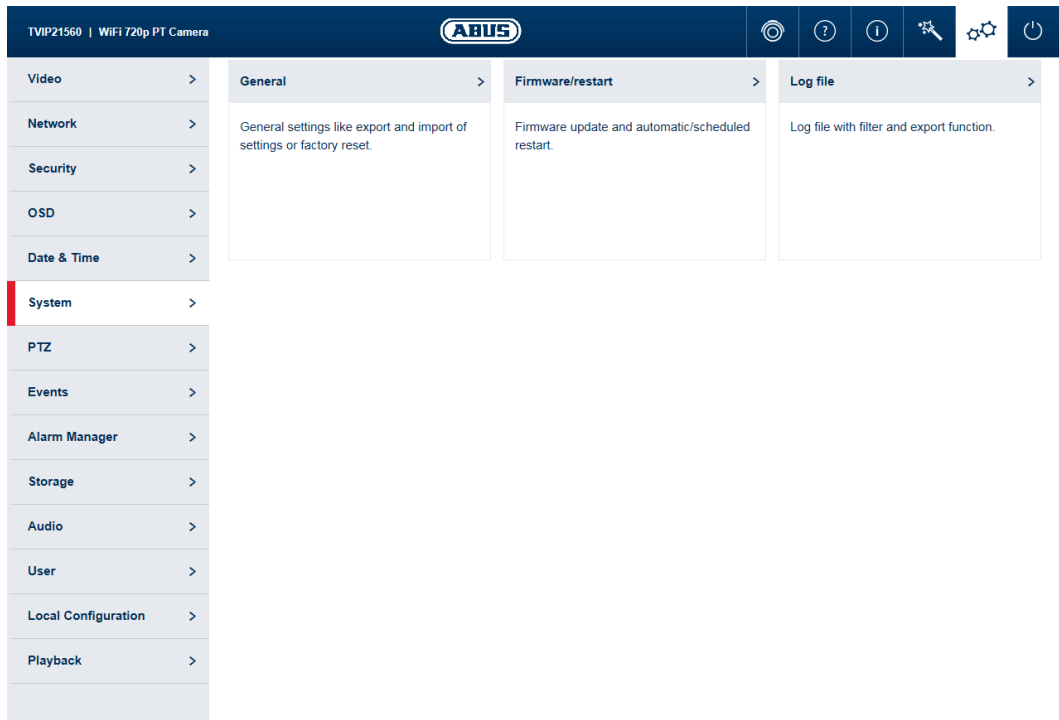
- Time zone:** Select the time zone in which the camera is located.
- NTP:** Check the box to synchronize the date and time of the camera with an NTP time server.
- NTP server address:** Enter the server address or the IP address of the NTP server here. A standard server is already set up which can be adjusted if required.
- NTP Port:** Enter here the NTP port. Default is 123.
- Interval:** Enter a synchronization interval.
- Manual:** Enter the date and the time here manually.
- PC time synchronization:** (Dropdown menu)

A 'Save Settings' button is located at the bottom right of the configuration area.

Menu	Camera type supported
Date & time	TVIP11561, TVIP21560, TVIP41560, TVIP61560

Time zone:	here, select the time zone in which the camera is located.
NTP:	enable NTP to synchronise the date and time of the camera with an NTP time server.
Server Address:	enter the server address or the IP address for the NTP server here. A standard server is already set up and can be adjusted if required.
NTP port:	enter the NTP port here. The standard port for NTP is 123.
Interval:	select an update interval.
Manual:	manual setting of date and time. Click in the date/time field to open a configuration menu.
PC time synchronisation:	use the current PC time currently being used for access (after saving the settings).
Enable DST:	enable DST if there is generally a summer time/winter time changeover at the camera location.

## 11.6. System



Menu	Camera type supported
General	TVIP11561, TVIP21560, TVIP41560, TVIP61560
Firmware/restart	TVIP11561, TVIP21560, TVIP41560, TVIP61560
Log file	TVIP11561, TVIP21560, TVIP41560, TVIP61560



### 11.6.1. General

- Camera name: enter a name here (max. 32 characters). Forbidden characters are: / \ : \* ? ' " < > | %
- Export configuration: exports the entire camera configuration into a file.
- Import configuration: imports a previously exported configuration of the same camera type.
- Reset settings: resets the camera to factory settings (except network settings and user data). Selecting "Include network" also resets these settings.

### 11.6.2. Firmware/restart

- Firmware/remote upgrade: This function can be used to update the camera's firmware. First, download the current firmware from the ABUS website. The "Search" button can be used to select this file for updating. Press the "Upload" button to start the update.
- Reboot: Press the "Reboot" button to complete the restart manually.
- Reboot schedule: enables scheduled reboot. The reboot can be carried out every x days at a certain time.

### 11.6.3. Log file

The screenshot displays the ABUS camera web interface. The top navigation bar includes the camera model 'TVIP21560 | WiFi 720p PT Camera' and the ABUS logo. A sidebar on the left contains menu items: Video, Network, Security, OSD, Date & Time, System (highlighted), PTZ, Events, Alarm Manager, and Storage. The main content area features filter options for Major Type and Minor Type, both set to 'All Types'. It also includes Start Time (2017-07-06 00:00:00) and End Time (2017-07-06 23:59:59) filters, along with a Search button. Below these filters is a 'Log List' section with an 'Export' button. The log list table has the following columns: No., Time, Major Type, Minor Type, Channel, Local/Remote, and Remote Hos. The table is currently empty, and the status at the bottom indicates 'Total 0 Items'.

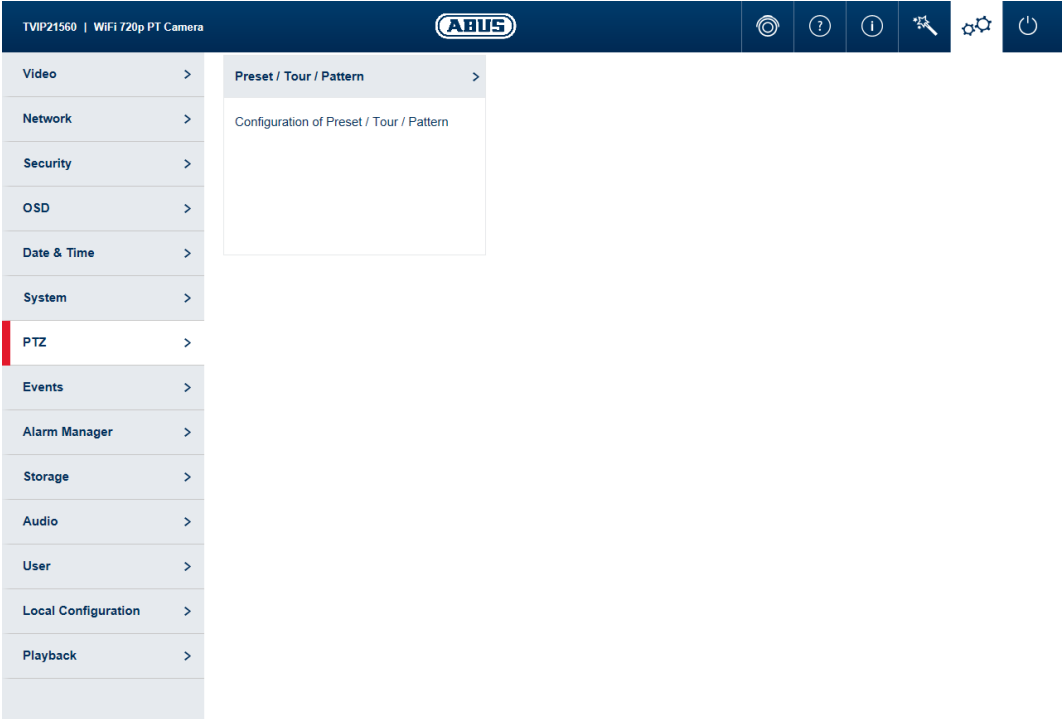
Log file:

data relevant to the system is recorded in the log file. This can help with troubleshooting, for example.

Export:

exporting the log file into another file

11.7. PTZ



Menu	Camera type supported
Preset / Tour / Pattern	TVIP21560

### 11.7.1. Preset / Tour / Pattern

The screenshot displays the ABUS TVIP21560 camera's web interface. On the left is a navigation menu with options like Video, Network, Security, OSD, Date & Time, System, PTZ (highlighted), Events, Alarm Manager, Storage, Audio, User, and Local Configuration. The main area shows a live video feed of a car interior with a PTZ control overlay. This overlay includes a list of 13 presets (Preset 1 to Preset 13) and various control buttons for pan, tilt, zoom, and focus. On the right, an 'Info box' provides instructions for using the control keys and presets.



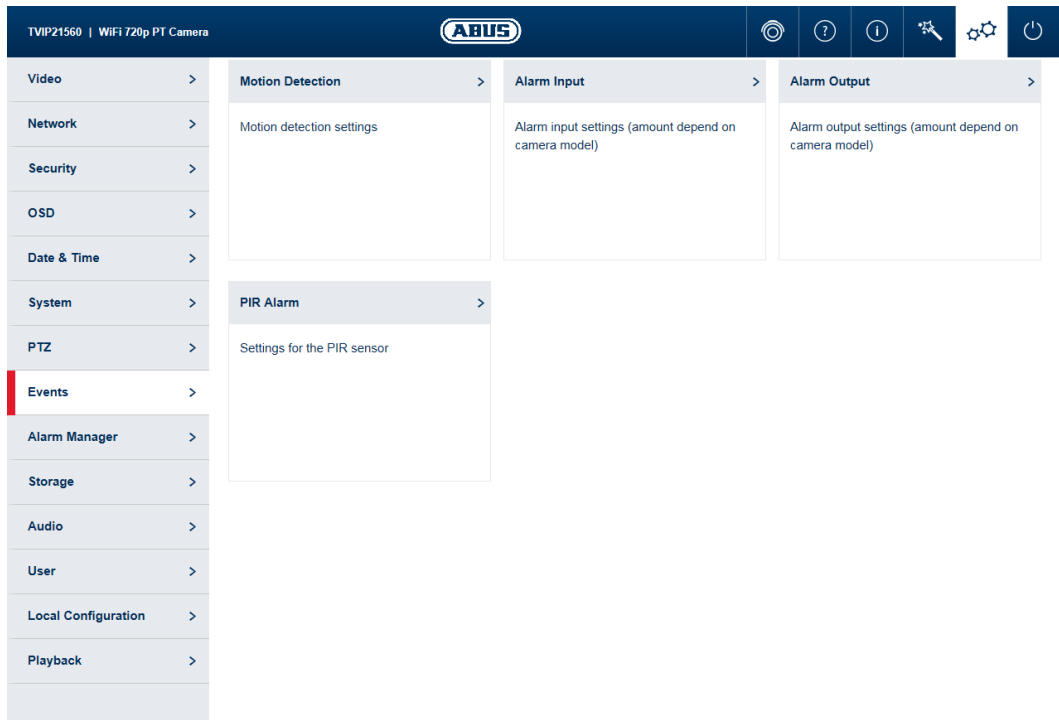
#### Note

Depending on the camera model, only selected functions will be available.  
On the TVIP21560, the control keys are limited to left, up, right and down.

Control keys:	Control keys for orientation of the PTZ camera head (left, right etc.)
Zoom + / Zoom -:	not used
Focus + / Focus -:	not used
Aperture + / Aperture -:	not used
Speed controller:	This controller can be used to adjust the pan/tilt speed.

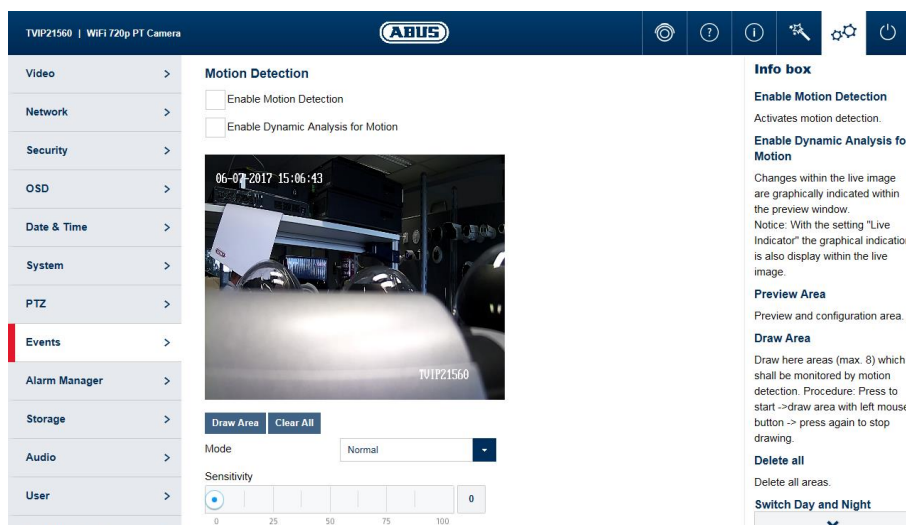
TAB: Presets:	To configure a preset, first guide the camera to the desired point, then select a preset row. Now press the "Configure" button. To call up a preset, select a preset row. A further "Call" option will then appear. There will also be another option to delete the preset.
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## 11.8. Event



Menu	Camera type supported
Motion detection	TVIP11560, TVIP21560, TVIP41560, TVIP61560
Alarm input	TVIP11560, TVIP21560
Alarm output	TVIP11560, TVIP21560
PIR Alarm	TVIP11560, TVIP21560

### 11.8.1. Motion detection



Enable motion detection: enables motion detection.  
 Enable dynamic analysis for motion:

if enabled, changes to the video image content are displayed graphically in the preview.

	<p><b>Note</b></p> <p>The Live Indicator function in the local settings decides whether this should also be displayed in the live image.</p>
--	--

Preview area: preview and configuration area.

**Mode: Normal**

Drawing: Draw the motion screen here.

Delete: The motion screen will be completely deleted.

Sensitivity: determines the required intensity of the pixel change. The higher the value, the fewer pixel changes are required to trigger motion.

**Mode: Expert**

Drawing: Draw the relevant area (max 8).

Delete: The selected area will be deleted.

Day/night profiles: defines how motion detection is applied during the day or night mode.

Off: settings for day and night are identical.

Automatic switching: settings are automatically coupled to automatic day/night switching.

Schedule: settings for day and night are applied according to a schedule.

Area: select the desired area here.

Sensitivity: determines the required intensity of the pixel change for the area. The higher the value, the fewer pixel changes are required to trigger motion.

Proportion of object on area: object size required for triggering motion in the area (0-100%).

## 11.8.2. Alarm input

The screenshot shows the 'Alarm Input' configuration page for an ABUS camera. The interface includes a sidebar with navigation options and a main configuration area. The 'Alarm Input' section is active, showing the following settings:

- Enable Alarm Input Handling:** Checked
- Alarm Input No.:** A<-1
- Alarm Type:** NO
- Alarm Name:** (cannot copy)

The 'Info box' on the right provides the following instructions:

- Alarm Input:** Select the alarm input to be configured here (number depends on camera model).
- Alarm Type:** The alarm type determines the idle and triggered statuses. NO: Normally open, NC: Normally closed.
- Alarm Name:** Enter the name here.
- Activate the Alarm Input Procedure:** Activate the alarm input here.

### Alarm input processing

enable:

Enable or disable the alarm input.

Alarm Input No.:

Select the alarm input to be configured here (number depends on camera model).

Alarm Type:

the alarm type determines the idle and triggered statuses.

NO: normally open (normal status open)

NC: normally closed (normal status closed)

Alarm name:

enter the name here.

## 11.8.3. Alarm output

The screenshot shows the 'Alarm Output' configuration page for an ABUS camera. The interface includes a sidebar with navigation options and a main configuration area. The 'Alarm Output' section is active, showing the following settings:

- Alarm Output:** A>1
- Alarm Name:** (cannot copy)
- Delay:** 5s
- Alarm Status:** OFF (cannot copy)

The 'Info box' on the right provides the following instructions:

- Alarm Output:** Select the alarm output you want to configure (Amount depends on camera model).
- Alarm Name:** Enter a name as description.
- Delay:** Select the duration of switching the alarm output in case of an event. Manual: the output is only switched for the time of the event.

Alarm output:

Select the alarm output to be configured here (number depends on camera model).

Alarm name:

enter the name here.

Delay:

select the duration of switching output activity in the event of an alarm.

Manual: The output is only activated for as long as the event lasts.

Alarm Status:

Displays the current status of the alarm output.

## 11.8.4. PIR Alarm

The screenshot shows the web interface for an ABUS TVIP21560 camera. The top navigation bar includes the model name, the ABUS logo, and several utility icons. A left sidebar contains a menu with options: Video, Network, Security, OSD, Date & Time, System, PTZ, and Events. The main content area is titled 'PIR Alarm' and features an 'Enable' checkbox and an 'Alarm Name' text input field. On the right side, there is an 'Info box' with two sections: 'Activate' (with a description) and 'Alarm Name' (with a description).

Menu Item	Content
Video	>
Network	>
Security	>
OSD	>
Date & Time	>
System	>
PTZ	>
Events	>

**PIR Alarm**

Enable

Alarm Name

**Info box**

**Activate**  
Activate/deactivate the PIR sensor.

**Alarm Name**  
Determine the alarm name for the PIR sensor.

Enable:

Alarm name:

Enable or disable the PIR alarm  
enter the name here.



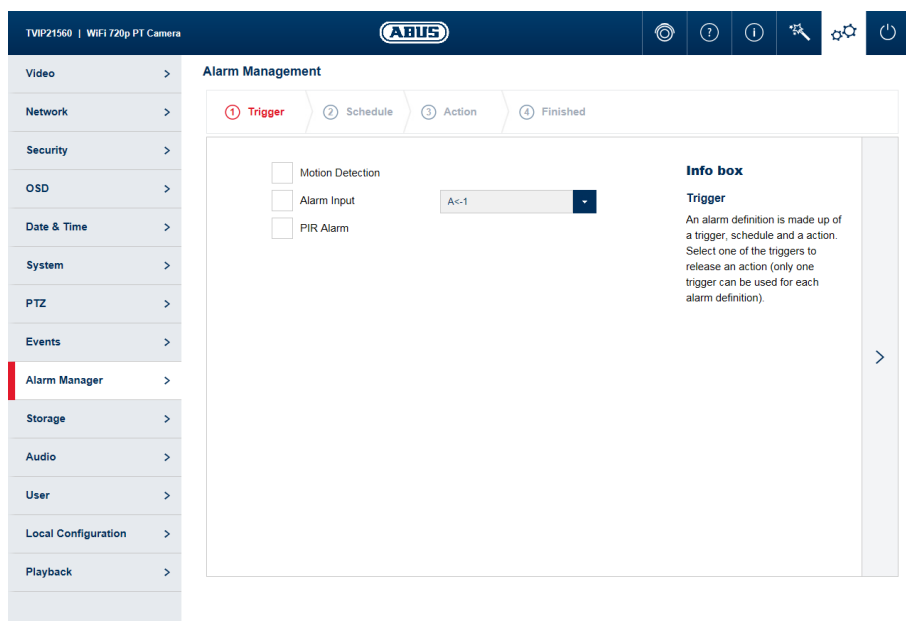
## 11.9. Alarm manager

Rules	Trigger Type	Schedule	Action
1	Motion Detection	MON 00:00-24:00 TUE 00:00-24:00 WED 00:00-24:00 THU 00:00-24:00 FRI 00:00-24:00 SAT 00:00-24:00 SUN 00:00-24:00	Send Email

Menu	Camera type supported
Alarm manager	TVIP11560, TVIP21560, TVIP41560, TVIP61560

Add: Add a new alarm rule.  
 Edit: Change a selected alarm rule.  
 Delete: Delete a selected alarm rule.

### 11.9.1. Add / edit alarm rule



an alarm rule consists of a trigger, a schedule for applying the rule and an action.

**Trigger:** Select a trigger for the alarm rule from the list. Only one trigger can be configured for each rule.

**Schedule:** an alarm rule can be enabled in 30 minute intervals. This is highlighted directly in the matrix on the left (red = enabled).

Delete all: deletes the entire schedule.

Mark all: selects the entire schedule.

**Action:** one or more actions can be defined for the rule on this page.



#### Note

With the FTP/SD/NAS upload action, single frames are stored. For this purpose, the event-triggered snapshot must be configured in the Storage -> Snapshot menu.

**Finished:** On this page, you can see an overview of all the data.

Save settings: Save the configured alarm rule.

## 11.10. Storage

The screenshot shows the web interface for an ABUS TVIP21560 camera. The top navigation bar includes the camera model, the ABUS logo, and several utility icons (home, help, info, search, settings, power). A left sidebar contains a list of menu items: Video, Network, Security, OSD, Date & Time, System, PTZ, Events, Alarm Manager, Storage (highlighted with a red bar), Audio, User, Local Configuration, and Playback. The main content area is divided into four panels: Record Schedule, Storage Management, NAS, and Snapshot. The Record Schedule panel contains the text: "Recordings settings and schedule for recording video data to the SD-Card." The Storage Management panel contains: "Information and format options for the internal SD-Card." The NAS panel contains: "General configuration for recoding to NAS drives." The Snapshot panel contains: "Snapshot quality, interval and schedule settings. These settings are always necessary if event or time-controlled JPEG images should be stored or transmitted."

Menu	Camera type supported
Record Schedule	TVIP11560, TVIP21560, TVIP41560, TVIP61560
Storage Management	TVIP11560, TVIP21560, TVIP41560, TVIP61560
NAS	TVIP11560, TVIP21560, TVIP41560, TVIP61560
Snapshot	TVIP11560, TVIP21560, TVIP41560, TVIP61560

## 11.10.1. Record Schedule


Enable record schedule: after enabling and configuration, video data are either saved constantly or at certain times and if necessary when an event occurs. The schedule can be configured using the Edit button.

Drop-down mode: Select the desired recording mode. You can use drag and drop to select the desired time period in the day.

### Edit time period

If you have set a time period, you can click on it and then manually change the recording mode and the time period.

### Copy time period

If you have set a time period, when you click on it a copy icon  will appear on the right-hand side. Click this icon to copy the selected time period to other days.

### Advanced Configuration

Overwrite: Enable Overwrite to activate the cycle recording function.

Post-record: determine how long a video should be saved for after an event.

Recording Stream: Select the video stream for recording.

## 11.10.2. Storage Management

The screenshot shows the 'Storage Management' interface for an ABUS camera. It features a sidebar menu on the left and a main content area. The main content area is divided into three sections: 'HDD Management' (a table with columns for HDD No., Capacity, Free space, Status, Type, Property, and Progress), 'Quota' (a section with input fields for Max. Picture Capacity, Free Size for Picture, Max. Record Capacity, Free Size for Record, Percentage of Picture, and Percentage of Record), and an 'Info box' on the right. The 'Info box' contains three sub-sections: 'Device List' (indicating available storage media), 'Format' (describing the format process), and 'Information' (showing more storage medium information).

Device list:

indicates the available storage media in the camera (SD card).

Format:

formats the selected storage medium (Attention: all data are deleted).

Quota:

shows more storage medium information.

Percentage of Picture:

Set the percentage of memory that is to be reserved for recorded images.

Percentage of Record:

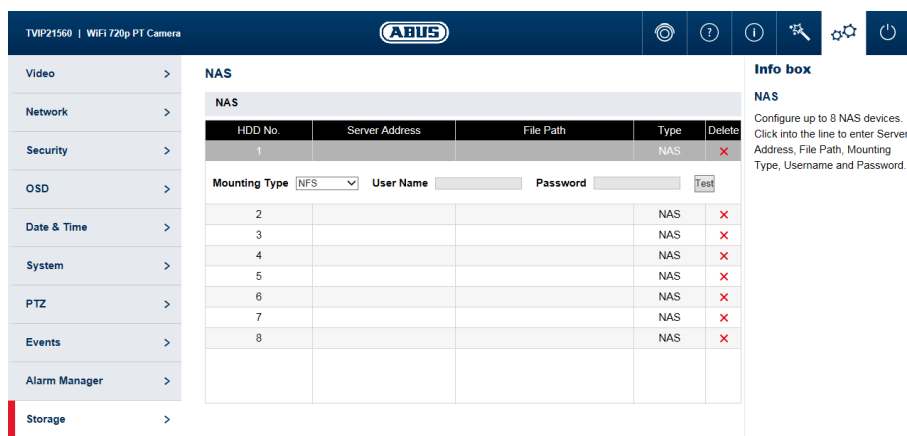
Set the percentage of memory that is to be reserved for recordings.



### Note

If the percentages are changed, the data storage device must be reformatted!

## 11.10.3. NAS



TVIP21560 | WiFi 720p PT Camera

ABUS

Video > NAS

Network >

Security >

OSD >

Date & Time >

System >

PTZ >

Events >

Alarm Manager >

Storage >

**NAS**

HDD No.	Server Address	File Path	Type	Delete
1			NAS	✗
2			NAS	✗
3			NAS	✗
4			NAS	✗
5			NAS	✗
6			NAS	✗
7			NAS	✗
8			NAS	✗


Mounting Type: NFS (dropdown) | User Name:  | Password:  | Test

**Info box**

**NAS**

Configure up to 8 NAS devices.  
Click into the line to enter Server Address, File Path, Mounting Type, Username and Password.

- NAS:** configure up to 8 NAS devices. Click in a row to specify server address, file path, server type, user name and password.
- HDD No.:** Number of the connected NAS (max. 8).
- Server address:** IP address of your NAS.
- File Path:** The file path of the sharing folder of your NAS.
- Mounting Type:** SMB/CIFS: With SMB/CIFS, the camera logs on to your NAS with a user name and password. The corresponding release of the sharing folder must be assigned to this user in the NAS.  
NFS: With NFS, the camera logs on to your NAS with the IP address. The corresponding release of the sharing folder must be assigned to this IP address in the NAS.
- User:** If you are using SMB/CIFS, enter the user name here.
- Password:** If you are using SMB/CIFS, enter the user name here.

	<p><b>Note</b></p> <p>To connect your network drive, always check the manual for your NAS.</p> <p>For specific NAS systems we have created a separate manual, which we will be happy to supply to you via our Support department.</p>
---	---

## 11.10.4. Snapshot

After enabling and configuration, single frames can be saved on the SD card. The single frames can be saved in a time-controlled and/or event-controlled manner.

### Timing Snapshot

- Enable:** enables time-controlled storage.
- Format:** Set the format of the single frames.
- Resolution:** Set the resolution of the single frames.
- Quality:** Set the quality of the single frames here. This has an effect on the file size of the single frames!
- Interval:** Set the storage interval here.  
(minimum 1 second, maximum 7 days)
- Edit schedule:** You can determine the schedule for storage here.

### Event-triggered snapshot

- Enable:** After activation, single frames will be saved on the available storage media when the event occurs, if the "FTP/SD/NAS upload" action has been selected in the alarm manager.
- Format:** Set the format of the single frames.
- Resolution:** Set the resolution of the single frames.
- Quality:** Set the quality of the single frames here. This has an effect on the file size of the single frames!
- Interval:** Set the storage interval here.  
(minimum 1 second, maximum 7 days)
- Capture Number:** here you can define the number of images saved after an event (1-120).

## 11.11. Audio

The screenshot displays the 'Audio' configuration page for an ABUS TVIP21560 camera. The interface includes a sidebar menu on the left with 'Audio' highlighted. The main content area contains the following settings:

- Audio Encoding:** G.711ulaw
- Audio Input:** MicIn
- Input Volume:** 50 (with a slider from 0 to 100)
- Environmental Noise Filter:** OFF

An **Info box** on the right provides detailed information:

- Audio Encoding:** Select here the audio codec from audio transmission (G.722.1, G.711ulaw, G.711alaw, MP2L2, G.726).
- Audio Input:** Activates the audio input (only for cameras with built-in microphone or audio input).
- Input Volume:** Adapt the input amplifying of the microphone.
- Environmental Noise Filter:** Activate the digital noise reduction.

A **Save Settings** button is located at the bottom right of the page.

Menu	Camera type supported
Record Schedule	TVIP11560, TVIP21560

- Audio encoding: select the audio encoding for audio transmission here (G.722.1, G.711ulaw, G.711alaw, MP2L2, G.726).
- Audio input: enables the audio input (only for cameras with built-in microphone and microphone input).
- Input Volume: adjustment of the input amplification for the microphone.
- Environmental noise filter: enable the digital noise reduction function for audio transmission here.



## 11.12. User

TVIP21560 | WiFi 720p PT Camera **ABUS**

**User Management**

No.	User Name	Level	Language
1	installer	Administrator	English

**Info box**

**Add/Edit/Delete**  
Users with the type "User/Master" can be added. The "Installer" user can only be modified. It cannot be added.

**User Name**  
Enter the user name here (max. 32 characters, not allowed: \ : ").  
User Type:  
Select the user type for a new user here.

**Language**  
Select the user's display language here.

**Use Secure Password**  
In order to become active, the password must meet the following requirements: 8 -16 characters, 2x numbers, 2x lower-case letters, 2x upper-case letters, 2x special characters

**Password/Confirm**  
Enter and confirm the password here.

Add > Edit > Delete >

Menu	Camera type supported
User	TVIP11560, TVIP21560, TVIP41560, TVIP61560

**Note**

The user "installer" can only be edited and cannot be added or deleted.

Add:	Add a new user.
Edit:	Change a selected user.
Delete:	Delete a selected user.
User name:	Enter the user names here (max. 32 characters, not allowed: \ : ").
Level:	Set the Master or User type here.
Language:	Select the language to be displayed for the user here.
Password:	Enter a password that meets the specified requirements.
Confirm:	Confirm the password.

**Note on user rights**

Installer: full access

Master: access to live view, live view operations, playback and local configuration.

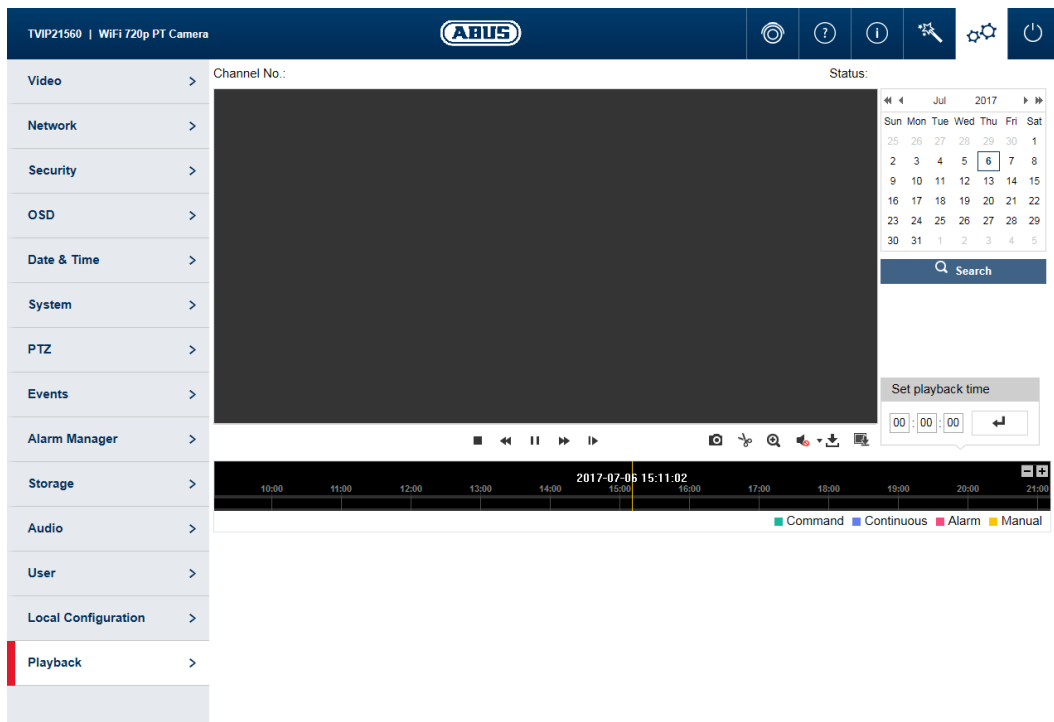
User: access to live view and local configuration, limited access to live view operations

## 11.13. Local Configuration

Menu	Camera type supported
Local Configuration	TVIP11560, TVIP21560, TVIP41560, TVIP61560





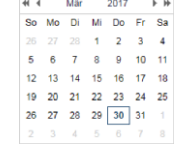
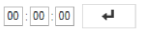
Protocol:	Setting the transmission protocol (default: TCP)
Live View Performance:	Select the priority for display in the browser here (priority on image stream or image quality).
Live indicator:	Display of all event animations in the live image (e.g. frame for motion detection). These animations are also recorded to the recording device.
Image format:	Select the encoding format for saving single frames using the browser live interface.
Record file size:	Select the size of video sequences for saving videos using the browser live interface.
Save record files to:	Select the path for video recording.
Save downloaded files to:	Select the path for video files downloaded from the SD card.
Save live snapshots to:	Select the encoding format for saving images using the browser live interface.
Snapshots during playback:	Select the path for saving images during playback.
Save clips to:	Select the path for saving video clips during playback.

## 11.14. Playback















Menu	Camera type supported
Playback	TVIP11560, TVIP21560, TVIP41560, TVIP61560

### 11.14.1. Playback time management

	
	Playback bar with time and date display (display depends on temporal zoom factor). The recorded data are displayed colour-coded by record type in the playback bar.
	The playback bar can be moved using drag and drop.
	Setting the temporal zoom factor
	Depending on the recording type, the recordings will be highlighted in colour.
	Selection of the date when searching for a recording. If data are found on the SD card or on the NAS, they are displayed in the playback bar by record type.  First select a date and then press "Search" or double-click the day.
	Enter the time you wish to jump to and click the Enter icon.

## 11.14.2. Playback operations

	
	Stop playback
	Slow playback (forwards)
	Pause, run playback
	Fast playback (forwards)
	Playback volume (if recording contains audio data) Frame forwards
	Save single frame (save location, see local configuration)
	Start/stop the video cutting function. The cut video is saved after you press stop (save location, see local configuration).
	Enable digital zoom. Then hold down the left mouse button to draw a rectangle in the video area. The digital zoom is applied to this area. Pressing this button a second time closes the digital zoom mode.
	Enable audio and adjust playback volume (if audio files are present)
	Opens a dialogue for downloading recorded video files from the SD card.
	Opens a dialogue for downloading recorded image files from the SD card.