Security Tech Germany

TVIP52502

GB

User manual

Version 10/2013

English

These user manual contains important information for installation and operation.
This should be also noted when this product is passed on to a third party.
Therefore look after these operating instructions for future reference!

A list of contents with the corresponding page number can be found in the index on **page 63**.

ABUS Security Tech Germany

TVIP52502

User manual

Version 10/2013

CE

Original English user manual. Keep for future use.

Introduction

Dear Customer,

Thank you for purchasing this product.

This device complies with the requirements of the applicable EU directives.
The declaration of conformity can be ordered from:

ABUS Security-Center GmbH & Co. KG
Linker Kreuthweg 5
86444 Affing
GERMANY

To maintain this condition and to ensure risk-free operation, you as the user must observe these operation instructions!

Before initial start-up, read through the complete operating instructions observing operating and safety instructions.

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All rights reserved.

If you have any questions, please contact your installer or your local dealer!

Disclaimer

This user manual was prepared with greatest care. If you should notice omissions or inaccuracies, please inform us about these on the back of this manual given address.
The ABUS Security-Center GmbH assumes no liability for technical and typographical faults and reserves the right to make at any time modifications to the product or user manual without a previous announcement.
The company is not liable or responsible for direct and indirect subsequent damages which are caused in connection with the equipment, the performance and the use of this product.
No guarantee for the content of this document is taken.

Icon explanation

	A flash in the triangle is used if there is danger for the health, e.g. by an electric shock.
	An exclamation mark in the triangle points to an important note in this user manual which must be minded.
	This symbol can be found when you are to be given tips and information on operation.

Important safety advice

	The warranty will expire for damage due to non-compliance with these operating instructions. ABUS will not be liable for any consequential loss!
	ABUS will not accept liability for damage to property or personal injury caused by incorrect handling or non-compliance with the safety-instructions. In such cases the warranty will expire.

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:

- There are no components inside the product that require servicing. Dismantling the product invalidates the CE certification and the guarantee / warranty.
- The product may be damaged if it is dropped, even from a low height.
- Install the device so that the image sensor is not subjected to direct sunlight. Pay attention to the installation instructions in the corresponding section of this user guide.
- This device is designed solely for use indoors or in weatherproof housing.

Avoid the following adverse conditions during operation:

- Moisture or excess humidity
- Extreme heat or cold
- Direct sunlight
- Dust or flammable gases, vapours, or solvents
- Strong vibrations
- Strong magnetic fields (e.g. next to machines or loudspeakers)
- The camera must not be installed on unstable surfaces

General safety information:

- Do not leave packaging material lying around. Plastic bags, sheeting, polystyrene packaging, etc., can pose a danger to children if played with.
- The surveillance camera contains small parts which could be swallowed, and should be kept out of reach of children for safety reasons.
- Do not insert any objects into the device through the openings.
- Only use replacement devices and accessories that are approved by the manufacturer. Do not connect any non-compatible products.
- Please pay attention to the safety information and user guides for the other connected devices.
- Check the device for damage before commissioning. Do not put the device into operation if you detect any damage.
- Adhere to the operating voltage limits specified in the technical data. Higher voltages could destroy the device and pose a health risk (electric shock).

Safety information

1. Power supply: power supply unit 100-240 V AC, 50/60 Hz **/** 12 VDC, 1 A (included in the scope of delivery)
   Only operate this device on a power source which supplies the power specified on the type plate. If you are unsure which voltage is supplied at the installation location, contact your power supply company. Disconnect the device from the power supply before carrying out maintenance or installation work.

2. Overloading
   Avoid overloading electrical sockets, extension cables, and adapters, as this can result in fires or electric shocks.

3. Cleaning
   Only use a damp cloth to clean the device. Do not use corrosive cleaning materials.
   Disconnect the device from the power supply while doing so.

Warnings

Observe all safety and operating instructions before putting the device into operation for the first time.

1. Observe the following information to avoid damage to the power cable and plug:
   - Do not modify or manipulate the power cable or plug.
   - Do not bend or twist the power cable.
   - Do not pull the cable when disconnecting the device from the power – always take hold of the plug.
   - Ensure that the power cable is positioned as far away as possible from any heating equipment, as this could otherwise melt the plastic coating.

2. Follow these instructions. Non-compliance with these instructions could lead to an electric shock.

   - Never open the housing or power supply unit.
   - Do not insert any metallic or flammable objects into the device.
   - Use overvoltage protection to prevent damage caused by overvoltage (e.g. electrical storms).

3. Disconnect defective devices from the power immediately and contact your specialist dealer.

	During the installation into an existing video surveillance system make sure that all devices are disconnected from the low and supply voltage circuit.
	If in doubt allow a professional electrician to mount, install and wire-up your device. Improper electrical connection to the mains does not only represent at threat to you but also to other persons. Wire-up the entire system making sure that the mains and low voltage circuit remain separated and cannot come into contact with each other in normal use or due to any malfunctioning.

Unpacking

While you are unpacking the device please handle it with utmost care.

	If you notice any damage of the original packaging, please check at first the device. If the device shows damages, please contact your local dealer.

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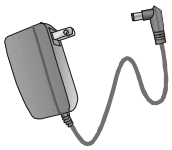
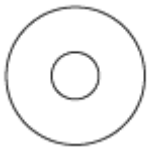
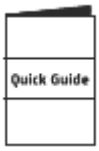
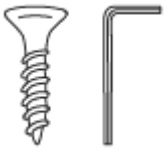
1. Intended use

The PTZ network dome camera provides discreet, powerful surveillance. High-resolution images, control options, a high-quality zoom lens, and alarm functions ensure efficient monitoring. The moving 24-hour watchman sets standards: Easily integrated into existing IP networks, it combines the optical precision of a Speed Dome camera with the flexibility and readiness for the future of a network camera.

2. Scope of delivery

<table>
<tr><td colspan="2"> </td><td>  </td><td> </td><td>  </td></tr>
<tr><td colspan="2">WDR Day/night HD 1080p network camera (without lens)</td><td>Power supply unit</td><td>1 m network cable</td><td>CD ROM</td></tr>
<tr><td>  </td><td>  </td><td></td><td colspan="2"></td></tr>
<tr><td>Quick guide</td><td>Installation material</td><td></td><td colspan="2"></td></tr>
</table>

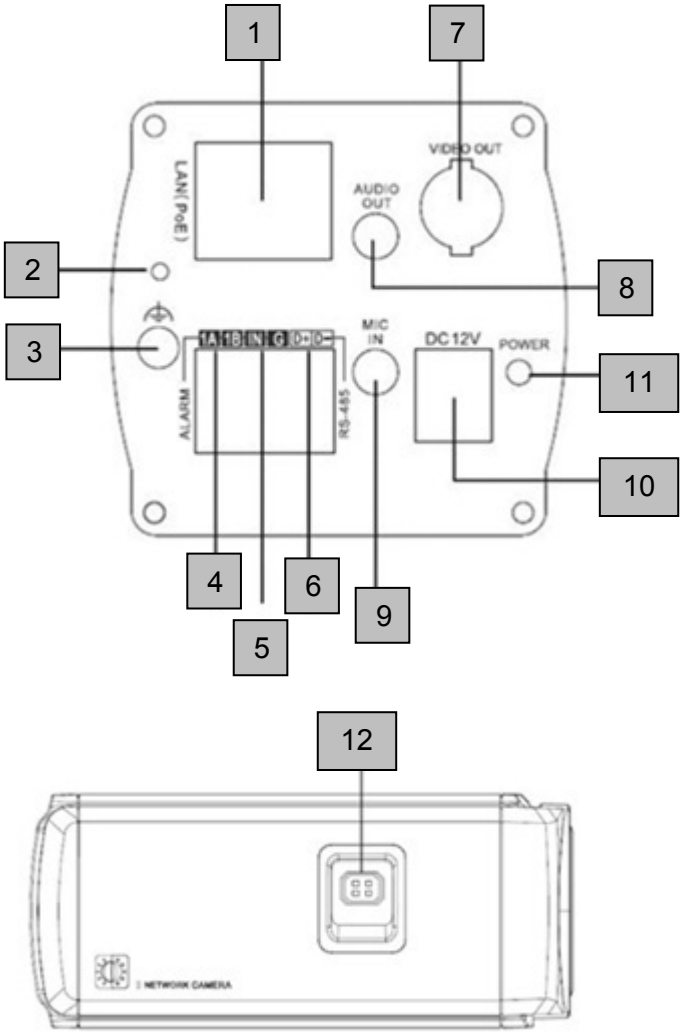
3. Features and functions

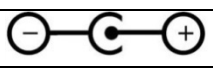
- HD 1080p resolution: 1920 x 1080 @ 25 fps
- Camera for use in extreme backlighting situation
- Day/night switching with electromechanical IR swivel filter (ICR)
- Analogue video output for service purposes
- Power over Ethernet (PoE)
- ONVIF compatible

4. Device description

Model number	TVIP52502
Resolution	1920 x 1080 (1080p)
WDR	√

5. Description of the connections



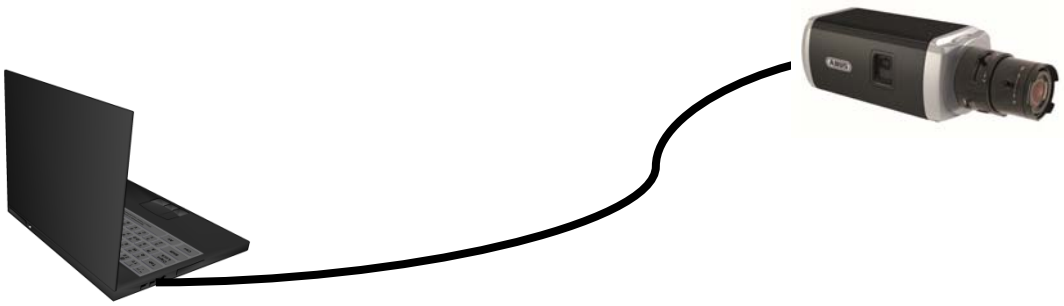
No.	Description
1	Network access (RJ45)
2	Reset button
3	Ground connection
4	Alarm output (max. 5 V DC/50 mA)
5	Alarm input (IN/G) (jumper between “IN” and “G” triggers the alarm)
6	RS-485 (not in use)
7	Analogue video output (for service purposes)
8	Audio output
9	Audio input (microphone/line)
10	12 V DC power supply connection (round plug 5.5 x 2.1 mm) 
11	Status display for power supply
12	Lens connection

6. Inital start-up

The network camera automatically detects whether a direct connection between the PC and camera should be made. A crossover network cable is not required for this.

Direct connection of the network camera to a PC/laptop

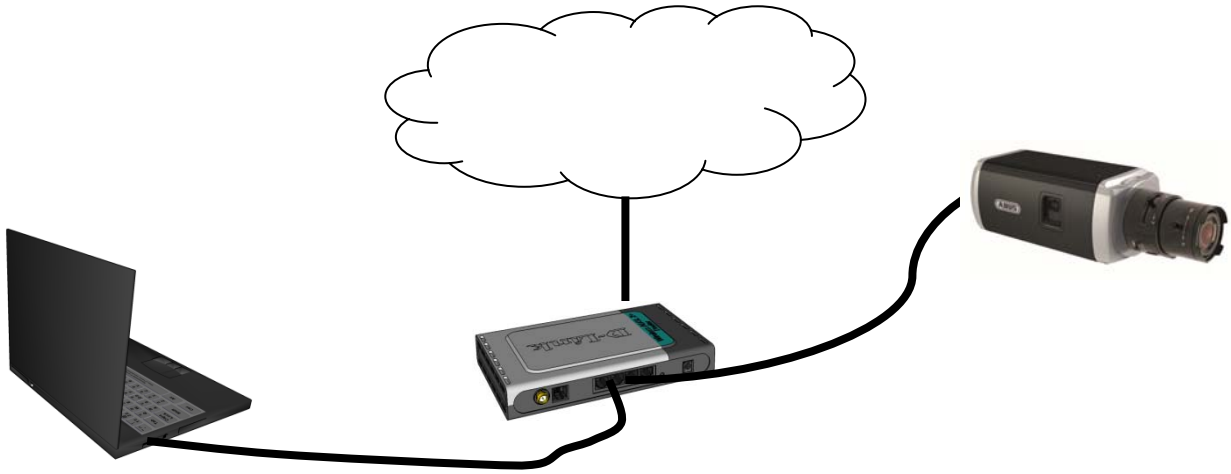
1. Ensure that a CAT 5 network cable is used.
2. Connect the cable to the Ethernet interface of the PC/laptop and the network camera.
3. Connect the power supply to the network camera.
4. Configure the network interface of your PC/laptop to the IP address 192.168.0.2 default gateway to 192.168.0.1
5. Go to 8, to finish the initial set-up and establish the connection to the network camera.



Connecting the network camera to a router/switch

1. Ensure that a CAT 5 network cable is used.
2. Connect the PC/laptop to the router/switch.
3. Connect the network camera to the router/switch.
4. Connect the power supply to the network camera.
5. If a DHCP server is available in 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
7. Go to point 8 to finish the initial set-up and establish the connection to the network camera.

7.



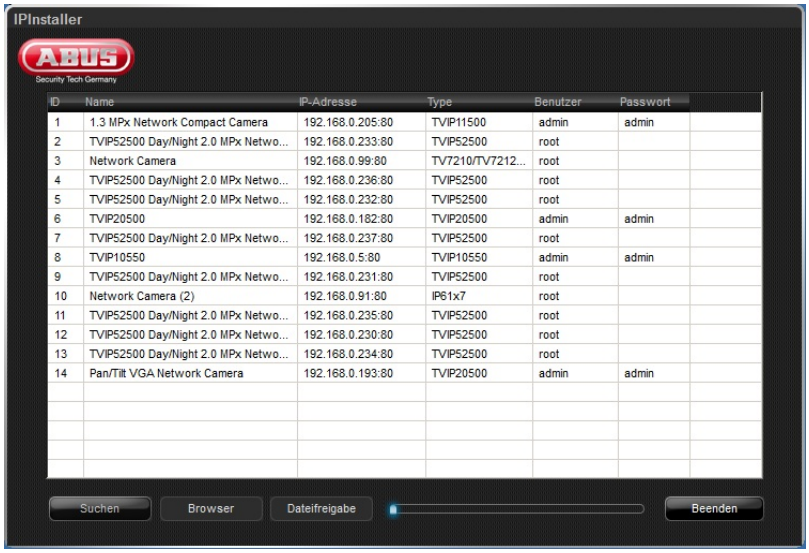
Accessing the network camera for the first time

The network camera is accessed for the first time using the IP Installer.
After the installation wizard is started, it searches for all connected ABUS network cameras and video servers in your network.

You can find the program on the included CD-ROM. Install the program on your PC and then run it.

If a DHCP server is available in your network, the IP address is assigned automatically for both the PC/laptop and the network camera.

If no DHCP server is available, the network camera automatically sets the following IP address: 192.168.0.100.
Your PC system must be located in the same IP subnetwork in order to establish communication with the network camera (PC IP address: e.g. 192.168.0.2).



⚠	The standard setting for the network camera is “DHCP”. If no DHCP server is in operation in your network, then we recommend setting the IP address manually to a fixed value following initial access to the network camera.

8. Password prompt

When delivered, an administrator password is already defined for the network camera. However, the administrator should define a new password immediately for security reasons. After the new administrator password is stored, the network camera asks for the user name and password every time it is accessed.

The administrator account is set up in the factory as follows: User name “**admin**” and password “**12345**”. Each time the network camera is accessed, the browser displays an authentication window and asks for the user name and password. Should your individual settings for the administrator account no longer be accessible, please contact our technical support team.

To enter a user name and password, proceed as follows:

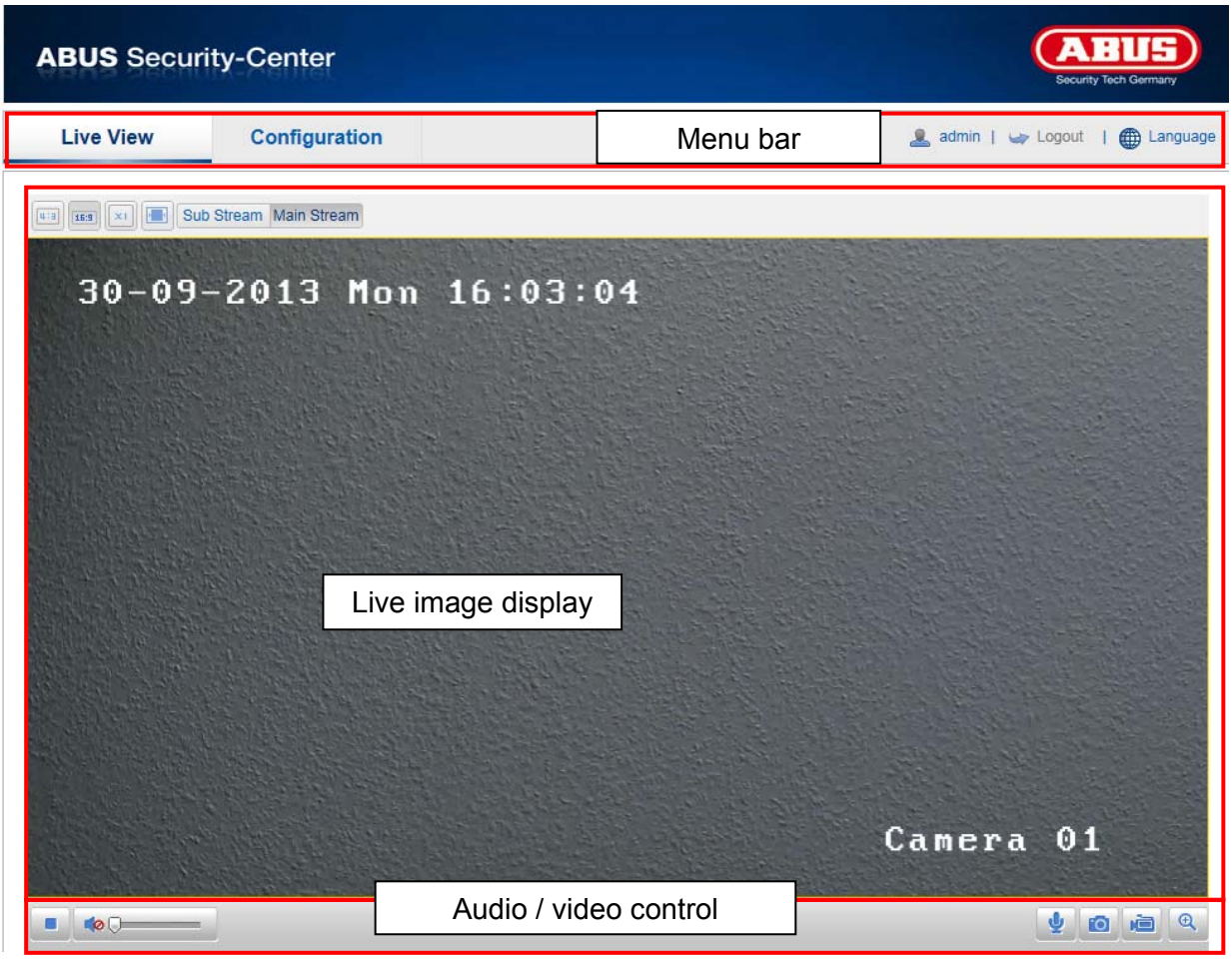
Open Internet Explorer and enter the IP address for the camera (e.g. “http://192.168.0.100”).

You are then prompted for authentication:

-> You are now connected with the network camera and can see a video stream.

9. User functions

Open the main menu on the network camera. The interface is divided into the following main areas:



9.1 Menu bar

Select the appropriate tab: “Live View”, “Configuration” or “Log”.

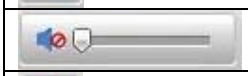
Button	Description
admin	Display of the user logged on
Abmelden	User logout
Sprache	Selection of the desired language

9.2 Live image display

You can access the full-screen view by double-clicking here.

Button	Description
	Activate 4:3 view
	Activate 16:9 view
	Display original size
	Adjust view to browser automatically
	Selection of the streaming type for the live cast
	Displaying/hiding the camera control

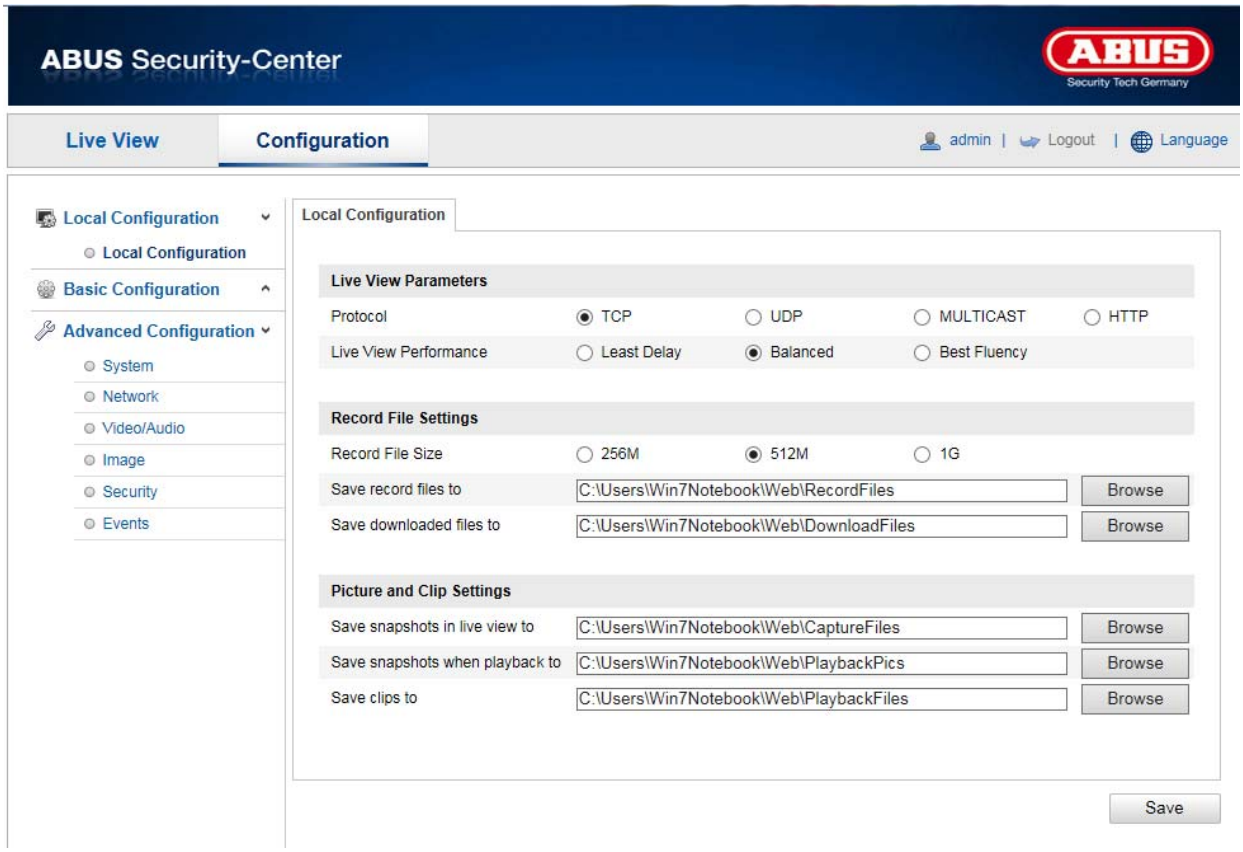
9.3 Audio / video control

Button	Description
	Deactivate live cast
	Activate live cast
	Deactivate / activate audio, adjust volume
	Microphone on / off
	Instant image (snapshot)
	Start / stop manual recording
	Start / stop 3D zoom

10. Configuration

10.1 Local configuration

Under the “Local Configuration” menu item, you can make settings for the live view, file paths of the recordings and snapshots.



Live View Parameters

Here you can set the protocol type and the live view performance of the camera.

Protocol

TCP: Complete provision of streaming data and high video quality, however this affects real-time transmission
UDP: Real-time audio and video transmission
HTTP: Provides the same quality as TCP, however special ports are not configured under the network settings.

Live View Performance

You can set the performance level for the live view here.

Record File Settings

You can define the file size for recordings, the recording path and the path for downloaded files here. To apply the changes, click “Save”.

Record File Size

You can select between 256 MB, 512 MB and 1 GB as the file size for recordings and downloaded videos.

Save record files to

You can determine the file path that is to be used to manual recordings here.
The default path is C:\\<User>\<Computer_Name>\Web\RecordFiles.

Save downloaded files to

You can store the file path for downloaded videos here.
The following path is set by default: C:\\<User>\<Computer_Name>\Web\DownloadFiles

Picture and Clip Settings

Here you can store the path for snapshots taken during playback as well as for video clips.

Save snapshots in live view to

Select the file path for snapshots from the live view.
The following path is set by default: C:\\<User>\<Computer_Name>\Web\CaptureFiles

Save snapshots when playback to

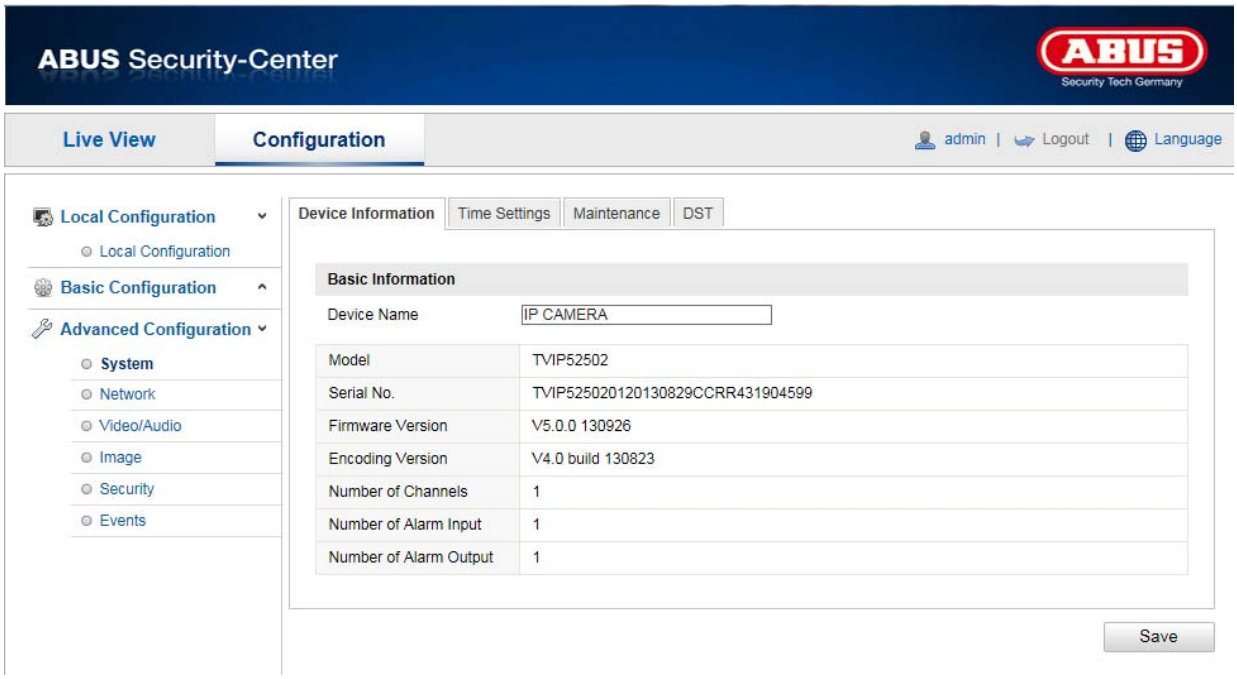
You can store the path here for saving snapshots taken during playback.
The following path is set by default: C:\\<User>\<Computer_Name>\Web\PlaybackPics

Save clips to

You can specify the memory path for storing video clips here.
The following path is set by default: C:\\<User>\<Computer_Name>\Web\PlaybackFiles

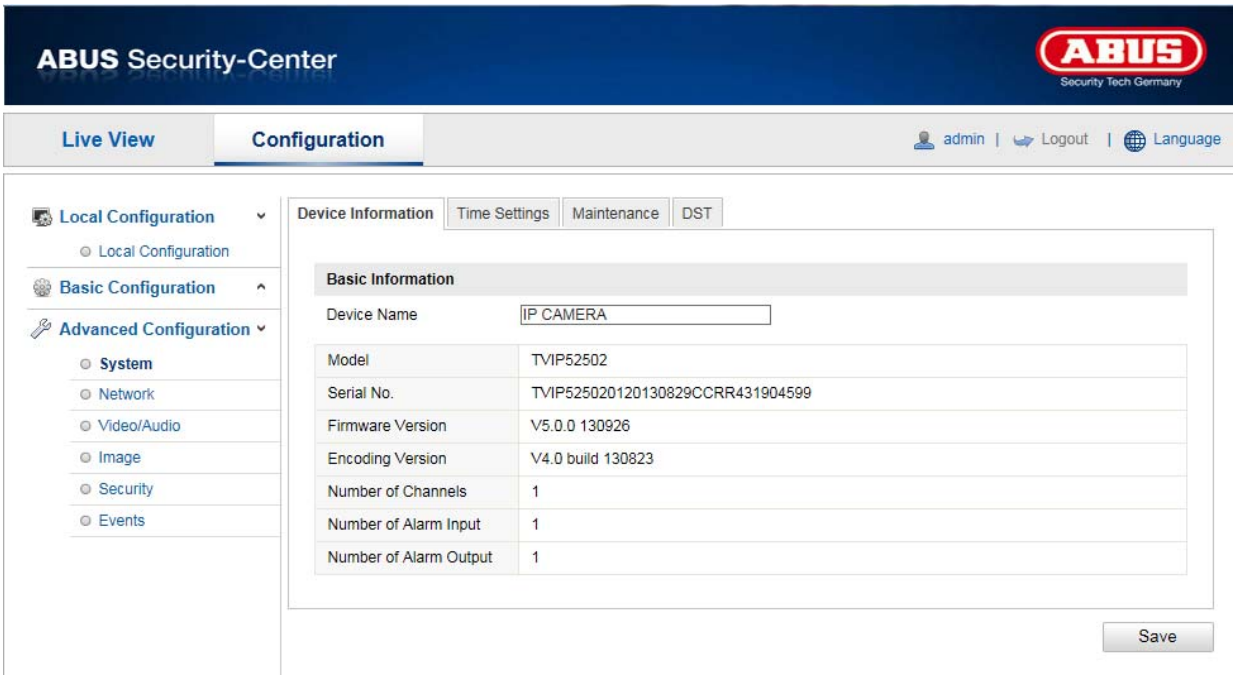
10.2 Basic configuration

All settings that can be made under “Basic Configuration” can also be found under the menu item “Advanced Configuration”. Please take note of the “Available in mode” column in the descriptions of the “Advanced Configuration”.



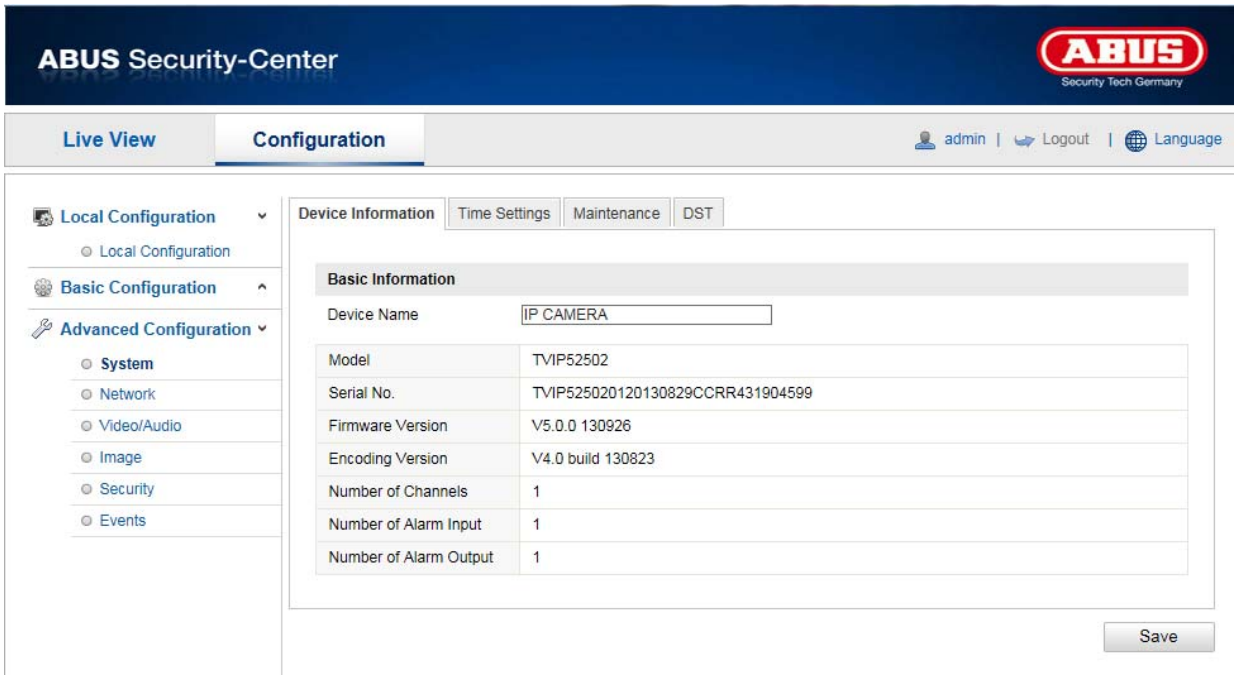
10.3 Advanced Configuration

10.3.1 System



Menu item	Description	Available in mode
Device Information	Display of device information	Basic Configuration, Advanced Configuration
Time Settings	Configuration of the time specification	Basic Configuration, Advanced Configuration
Maintenance	System maintenance settings	Basic Configuration, Advanced Configuration
DST (Daylight Saving Time)	Configuration of the automatic daylight savings time switch	Advanced Configuration

10.3.1.1 Device Information



Basic Information

Device Name
You can specify a device name for the Speed Dome here. Click on “Save” to apply the change.

Model
Model number display

Serial No.
Serial number display

Firmware Version
Firmware version display

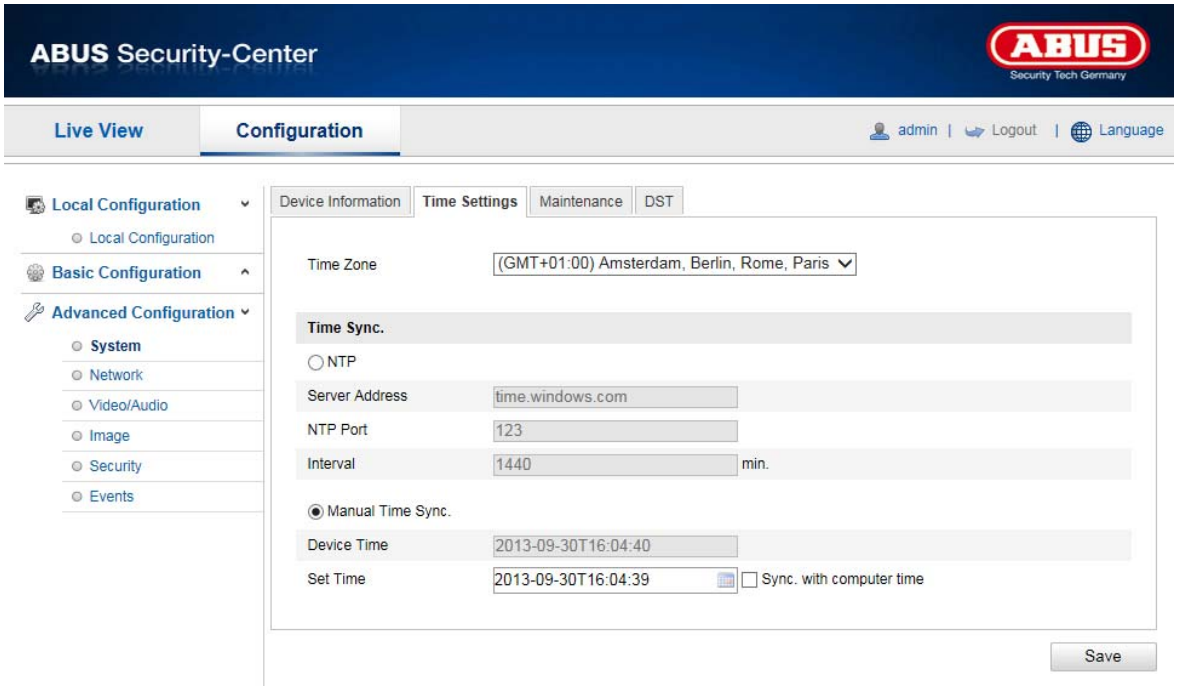
Encoding Version
Encoding version display

Number of Channels
Display of the number of channels

Number of Alarm Input
Display of the number of alarm inputs

Number of Alarm Output
Display of the number of alarm outputs

10.3.1.2 Time Settings



Time Zone
Time zone selection (GMT)

Time Sync.

NTP
Using the Network Time Protocol (NTP) it is possible to synchronise the time of the Speed Dome with a time server.
Activate NTP to use this function.

Server Address
IP server address of the NTP server.

NTP Port
Network port number of the NTP service (default: port 123)

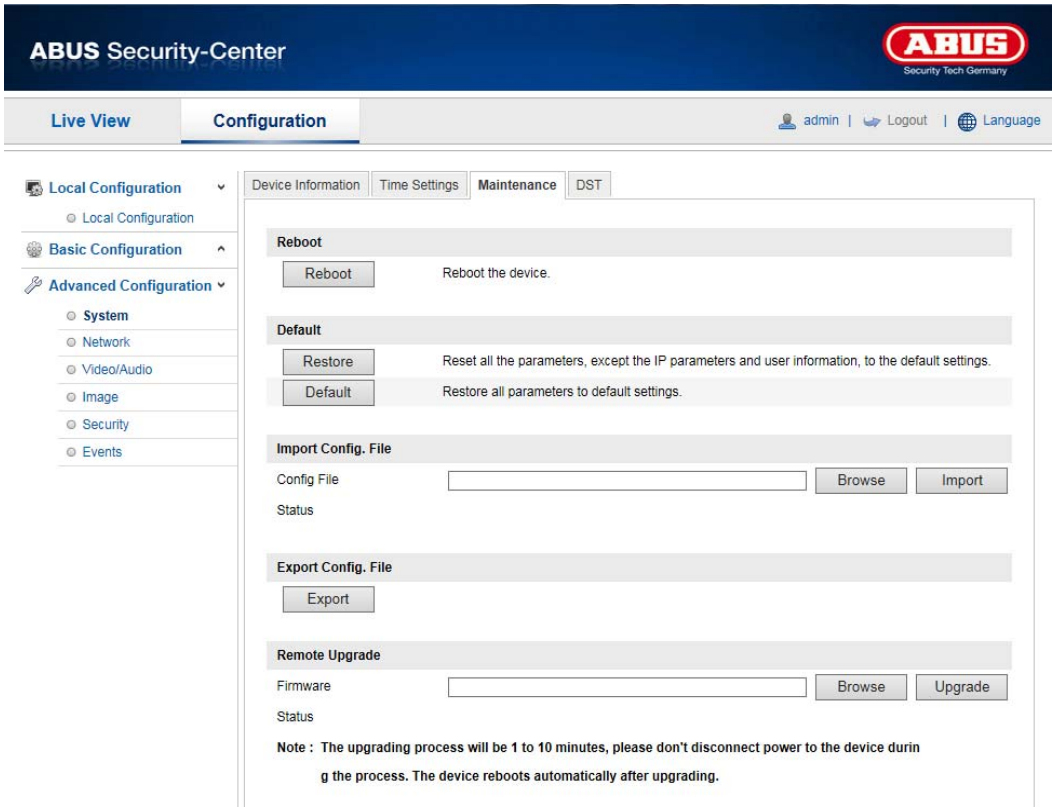
Manual Time Sync.

Device Time
Computer device time display

Set Time
Display of the current time using the time zone setting.
Click on “Sync. with computer time” to adopt the device time of the computer.

	Apply the settings made with “Save”.

10.3.1.3 Maintenance



Reboot

Click “Reboot” to restart the device.

Default

Restore
Click “Restore” to reset all the parameters to the default settings, with the exception of the IP parameters.

Default
Select this item to reset all parameters to the default values.

Import Config. File

Config. File
Select a file path to import a configuration file here.

Status
Display of the import status

Export Config. File
Click “Export” to export a configuration file.

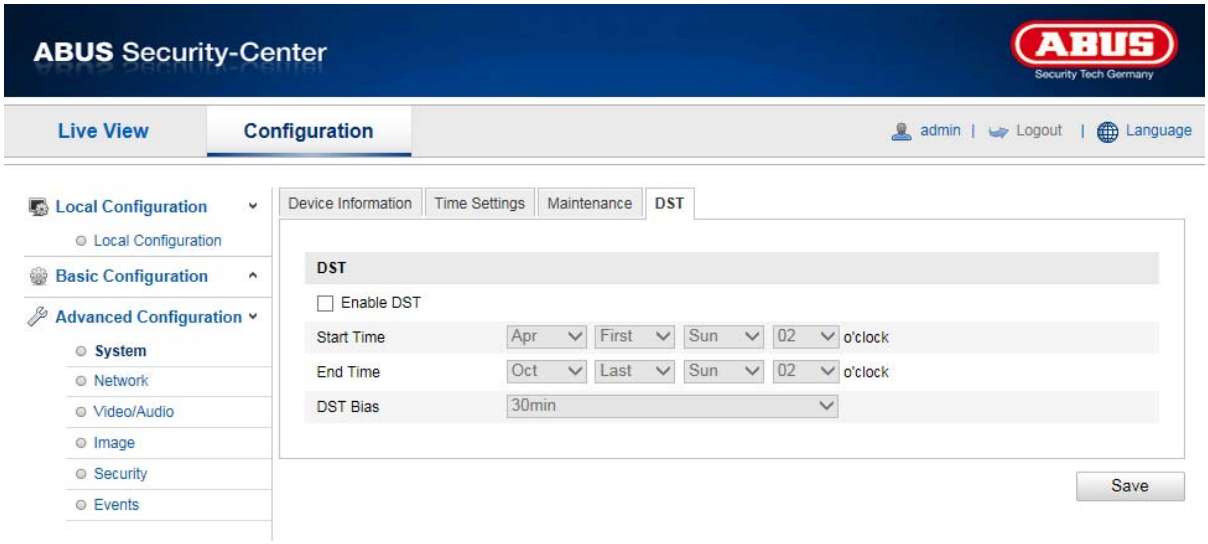
Remote Upgrade

Firmware
Select the path to update the Speed Dome with new firmware.

Status
Display of the update status

	Apply the settings made with “Save”.

10.3.1.4 DST



DST

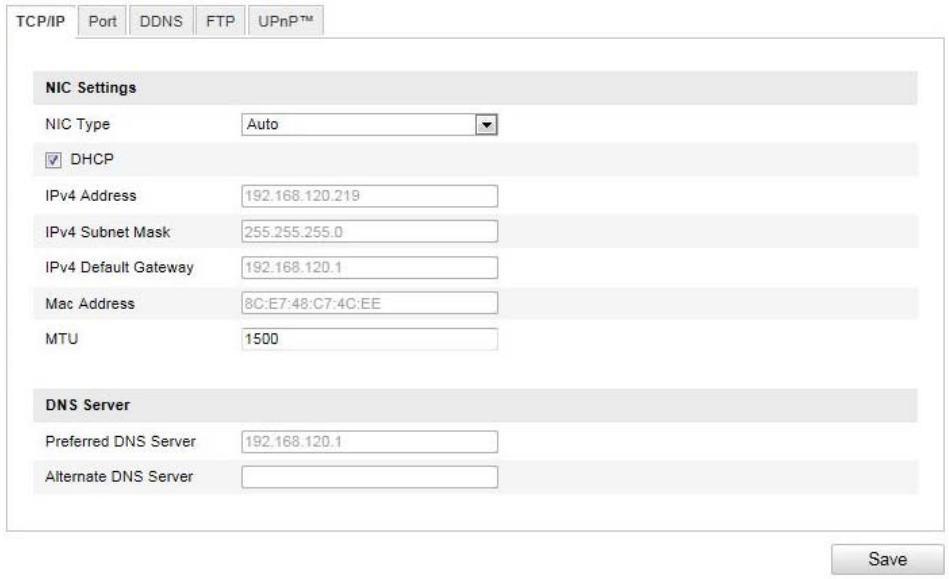
Enable DST
Activate the “Enable DST” checkbox to adjust the system time automatically to summer time.

Start Time
Specify the time for switching to summer time.

End Time
Specify the time for switching to winter time.

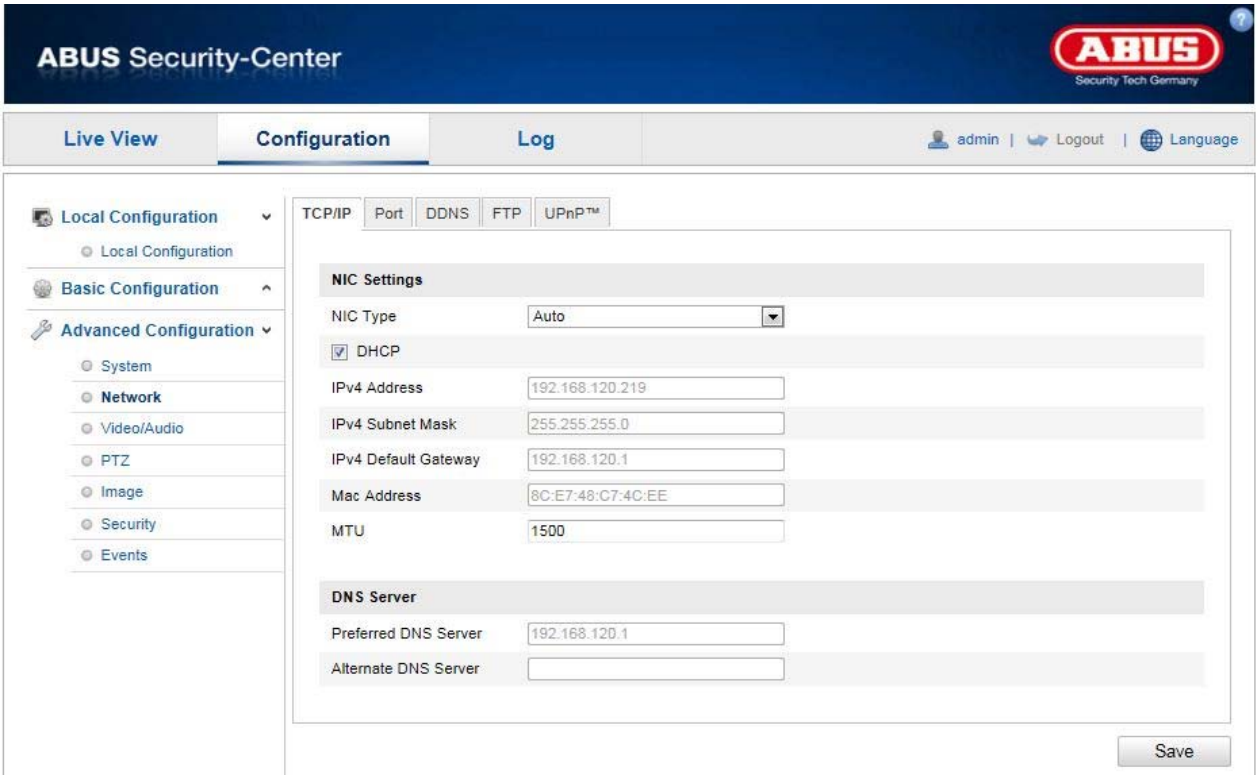
	Apply the settings made with “Save”.

10.3.2 Network



Menu item	Description	Available in mode
TCP/IP	Settings of the TCP/IP data	Basic Configuration, Advanced Configuration
Port	Settings for the used ports	Basic Configuration, Advanced Configuration
DDNS	Settings for the DDNS data	Advanced Configuration
FTP	Settings for the FTP data	Advanced Configuration
UPnP™	Settings for the UPnP data	Advanced Configuration

10.3.2.1 TCP/IP



To be able to operate the Speed Dome via a network, the TCP/IP settings must be configured correctly.

NIC Settings

NIC Type
Select the setting for your network adapter.
You can choose from the following values: 10M Half-dup; 10M Full-dup; 100M Half-dup; 100M Full-dup; 10M/100M/1000M Auto

DHCP
If a DHCP server is available, click DHCP to apply an IP address and other network settings automatically. The data is transferred automatically from the server and cannot be changed manually.

If no DHCP server is available, please enter the following data manually.

IPv4 Address
Setting for the IP address of the Speed Dome

IPv4 Subnet Mask
Manual setting of the subnet address for the Speed Dome

IPv4 Default Gateway
Setting for the default router for the Speed Dome

IPv6 mode
Manual: Manual configuration of IPv6 data
DHCP: The IPv6 connection data is provided by the DHCP server (router).
Route advertisement: The IPv6 connection data is provided by the DHCP server (router) in connection with the ISP (Internet Service Provider).

IPv6 address
Display of the IPv6 address. The address can be configured in the IPv6 “Manual” mode.

IPv6 Subnet Mask
Display of the IPv6 Subnet Mask

IPv6Standard Gateway
Display of the IPv6 Standard Gateway (standard router)

MAC Address
The IPv4 hardware address of the camera is displayed here. You cannot change it.

MTU
Setting for the transmission unit. Select a value between 500 – 9676. 1500 is set by default.

DNS Server

Preferred DNS Server
DNS server settings are required for some applications (for example, sending e-mails). Enter the address of the preferred DNS server here.

Alternate DNS Server
If the preferred DNS server cannot be reached, this alternative DNS server is used. Please store the address of the alternate DNS server here.

	Apply the settings made with “Save”.

10.3.2.2 Port

If you wish to enable external access to the Speed Dome, the following ports must be configured.

HTTP Port
The standard port for HTTP transmission is 80. As an alternative, this port can be assigned a value in the range of 1024 ~ 65535. If several Speed Domes are connected in the same subnetwork, then each camera should be given a unique HTTP port of its own.

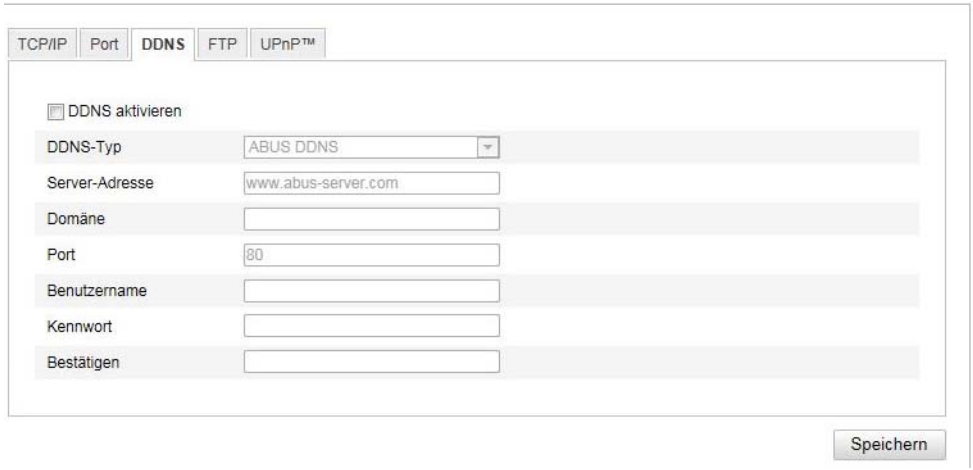
RTSP Port
The standard port for RTSP transmission is 554. As an alternative, this port can be assigned a value in the range of 1024 ~ 65535. If several Speed Domes are connected in the same subnetwork, then each camera should be given a unique RTSP port of its own.

HTTPS port
The standard port for HTTPS transmission is 443.

SDK port (control port)
The standard port for SDK transmission is 8000. Communication port for internal data. As an alternative, this port can be assigned a value in the range of 1025 ~ 65535. If several IP cameras are located in the same subnetwork, then each camera should have its own unique SDK port.

	Apply the settings made with “Save”.

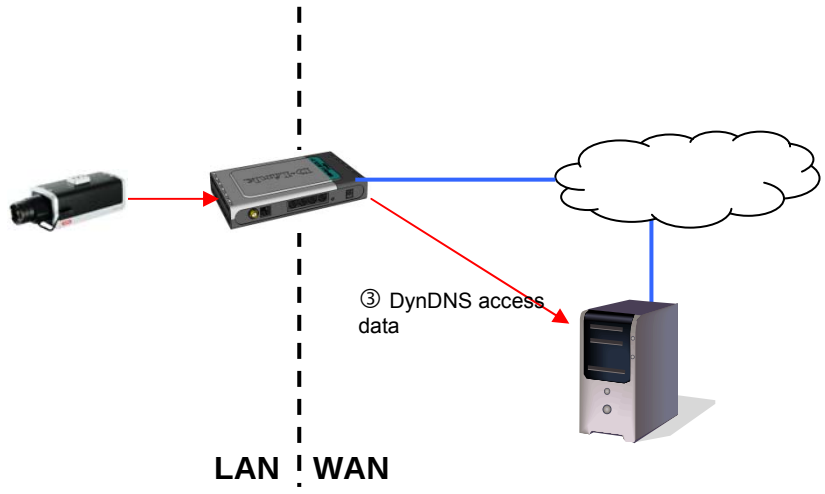
10.3.2.3 DDNS



DDNS

DynDNS or DDNS (dynamic domain name system entry) is a system that can update domain name entries in real time. The network camera is equipped with an integrated DynDNS client that updates the IP address independently via a DynDNS provider. If the network camera is located behind a router, we recommend using the DynDNS function of the router.

The following diagram offers an overview of accessing and updating the IP address using DynDNS.



Enable DDNS
Activates or deactivates the DDNS function.

DDNS Type
Select the DDNS type. You can choose between “DynDNS” and “ABUS DDNS”.

Server Address
Select a DDNS service provider. You must have registered access to this DDNS service provider (e.g. www.dyndns.org).
If you select “ABUS DDNS” as the DDNS type the server address is stored automatically.

Domains
Enter your registered domain name (host service) here (e.g. myIPcamera.dyndns.org).

Port
Store the port for port forwarding here.

User Name
User ID of your DDNS account

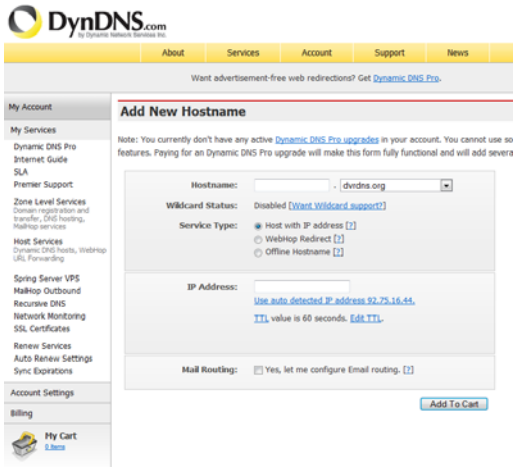
Password
Password of your DDNS account

Confirm
You need to confirm your password here.

Setting up a DDNS account

Set up a new account as follows under DynDNS.org:

Store your account information:

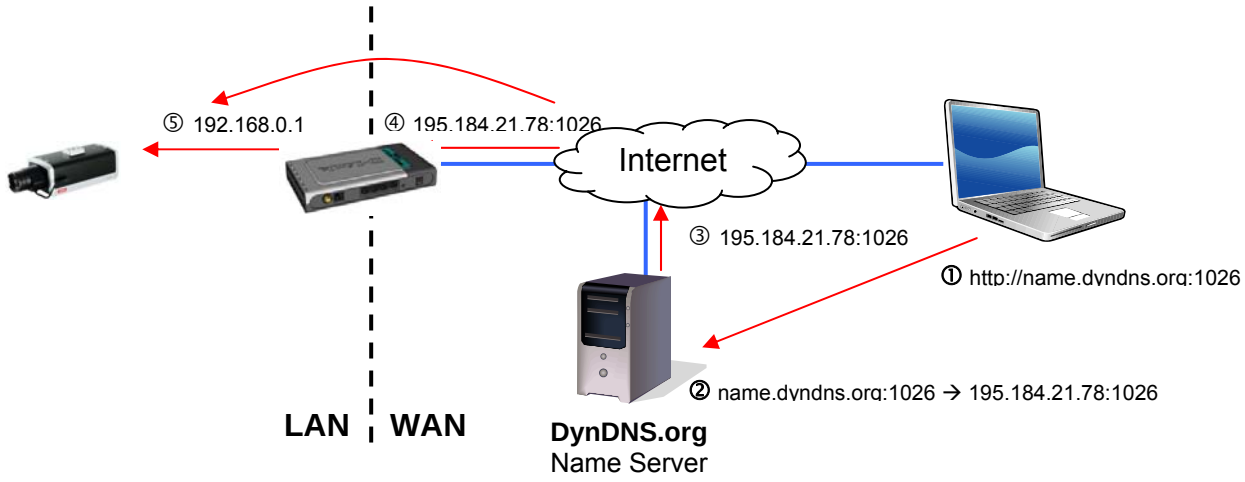


Note down your user data and enter this into the configuration of the network camera.

Accessing the network camera over DDNS

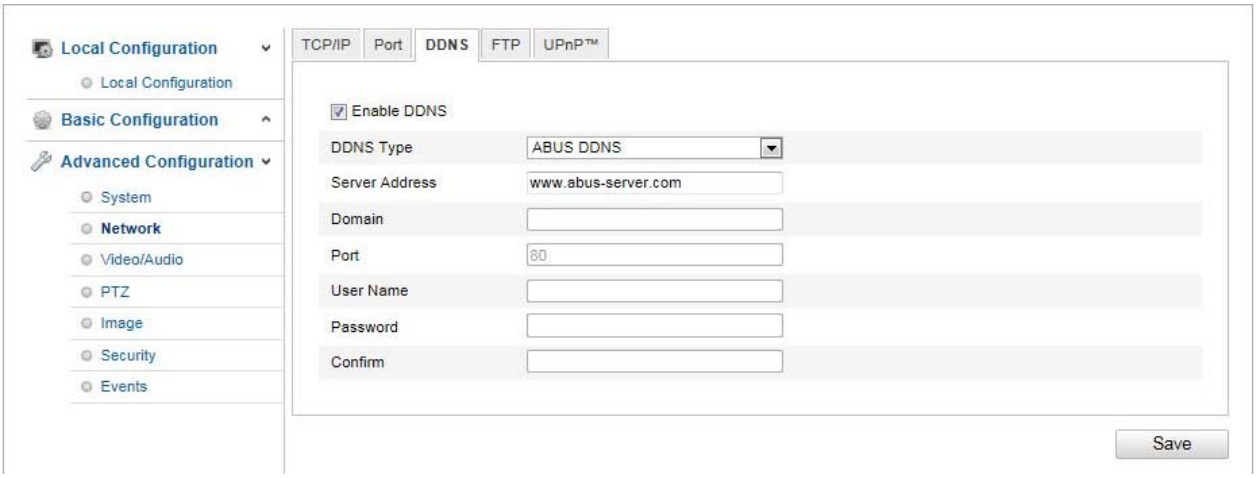
If the network camera is located behind a router, then access via DynDNS must be configured in the router. On the ABUS Security-Center homepage www.abus-sc.com, you can find a description of DynDNS router configuration for common router models.

The following diagram offers an overview of accessing a network camera behind a router via DynDNS.org.



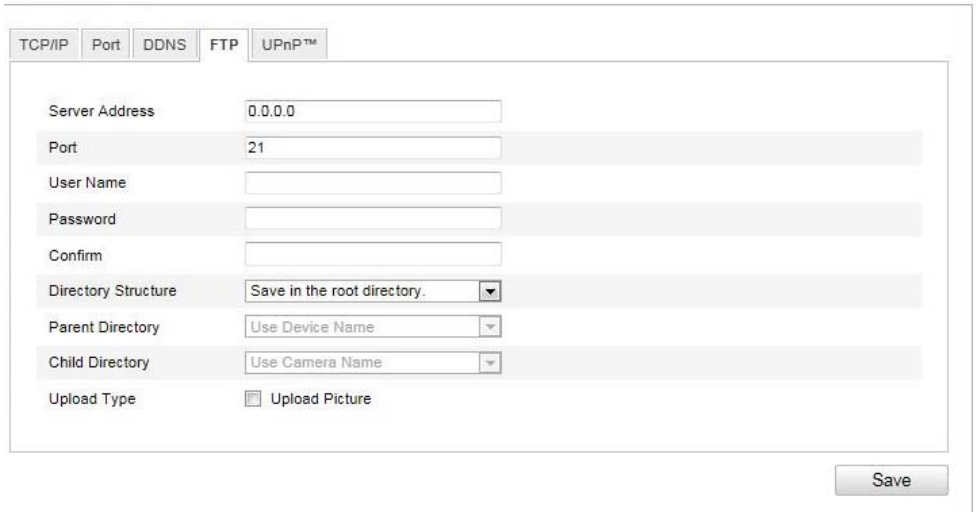
Port forwarding of all relevant ports (at least RTSP + HTTP) must be set up in the router in order to use DynDNS access via the router.

ABUS DDNS



1. To be able to use the ABUS DDNS function, you first need to set up an account at www.abus-server.com. Please read the FAQs on this topic on the website.
2. Select the “Enable DDNS” checkbox and select “ABUS DDNS” as the DDNS type.
3. Apply the data with **“Save”**. The IP address of your Internet connection is now updated every minute on the server.

10.3.2.4 FTP



To upload recorded videos or images onto an FTP server, the following settings must be made.

Server Address
Enter the IP address of the FTP server.

Port
Enter the port number of the FTP server. The standard port for FTP servers is 21.

User Name
User name of the account that was configured in the FTP server.

Password
Password of the account that was configured in the FTP server.

Confirm
Reenter the password here.

Directory Structure
Select the storage location for the uploaded data here. You can select between:
“Save in the root directory”; “Save in the parent directory”; “Save in the child directory”.

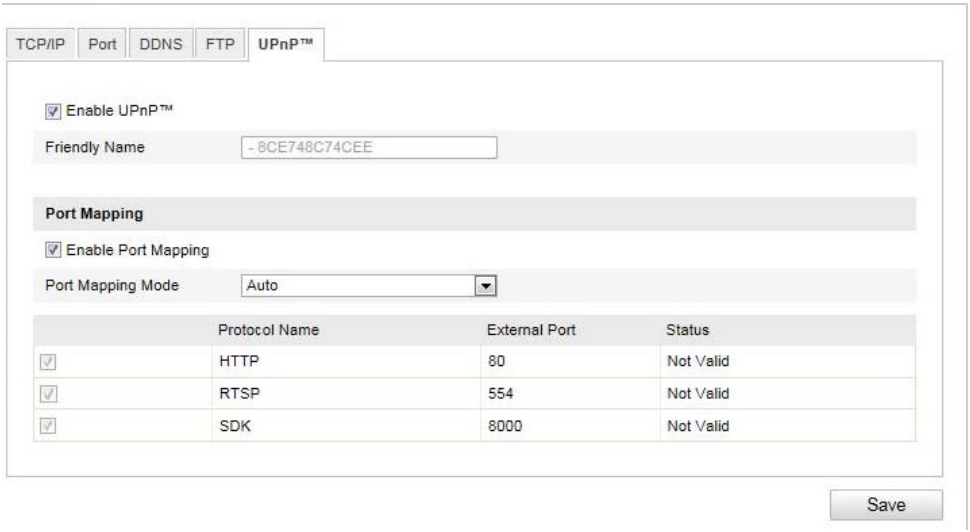
Parent Directory
This menu item is only available if “Save in the parent directory” or “Save in the child directory” was selected under “Directory Structure”. You can select the name for the parent directory here. The files are saved in a folder on the FTP server.
Choose between “Use Device Name”, “Use Device Number” and “Use Device IP address”.

Child Directory
Select the name for the child directory here. The folder is created in the parent directory. You can choose between “Use Camera Name” of “User Camera Number”.

Upload Type
Select “Upload Picture” to upload pictures to the FTP server.

	Apply the settings made with “Save”.

10.3.2.5 UPnP™



The UPnP (Universal Plug and Play) function makes it easy to control network devices in an IP network. This allows the network camera to be seen in the Windows network environment (e.g. as a network device).

Enable UPnP
For enabling or disabling the UPnP function.

Friendly Name
Display of the MAC address of the camera

Port Mapping

Enable Port Mapping
This enables Universal Plug and Play port forwarding for network services. If your router supports UPnP, then port forwarding for video streams is activated automatically on the router for the network camera using this option.

Port Mapping Mode
Select here whether you wish to conduct port mapping automatically or manually.
You can choose between “Auto” and “Manual”.

Protocol Name

HTTP
The standard port for HTTP transmission is 80. As an alternative, this port can be assigned a value in the range of 1025 ~ 65535. If several IP cameras are located on the same subnetwork, then each camera should have its own unique HTTP port.

RTSP
The standard port for RTSP transmission is 554. As an alternative, this port can be assigned a value in the range of 1025 ~ 65535. If several IP cameras are located in the same subnetwork, then each camera should have its own unique RTSP port.

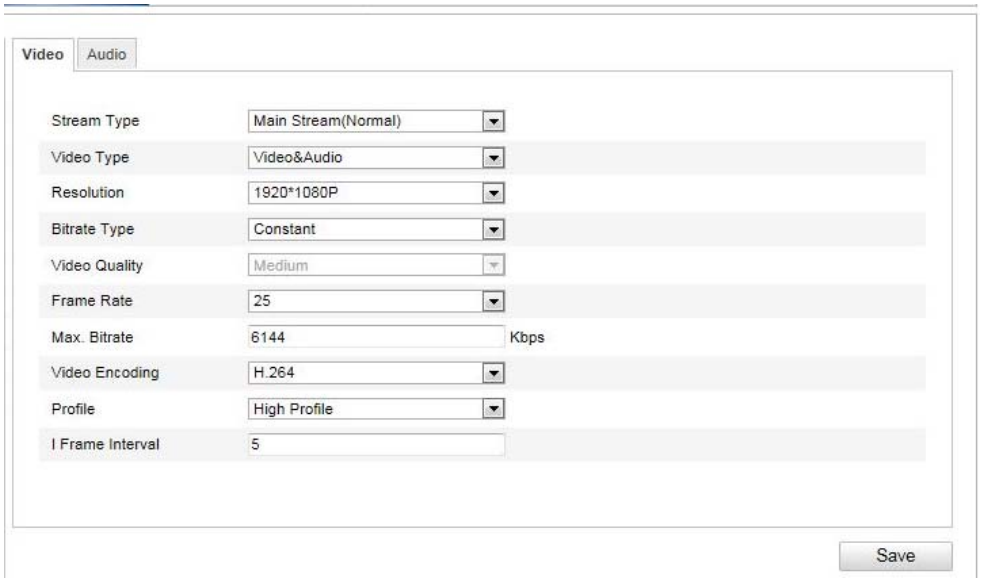
SDK (control port)
The standard port for SDK transmission is 8000. Communication port for internal data. As an alternative, this port can be assigned a value in the range of 1025 ~ 65535. If several IP cameras are located in the same subnetwork, then each camera should have its own unique SDK port.

External Port
You can only change ports manually here of the “Port Mapping Mode” was set to manual.

Status
Displays whether the external port entered is valid or invalid.

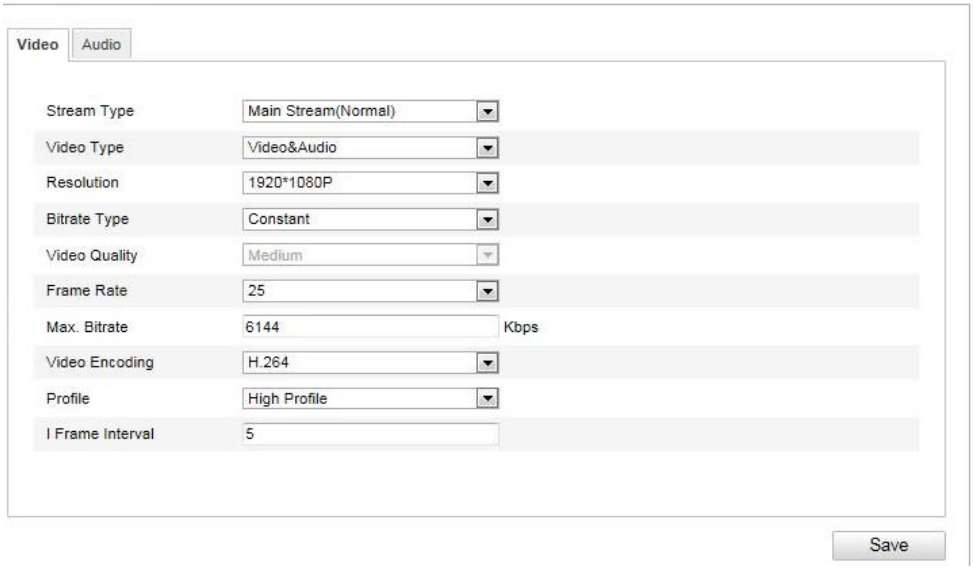
	Apply the settings made with “Save”.

10.3.3 Video / Audio



Menu item	Description	Available in mode
Video	Settings for video output	Basic Configuration, Advanced Configuration
Audio	Settings for audio output	Basic Configuration, Advanced Configuration

10.3.3.1 Video



Stream Type
Select the stream type for the Speed Dome camera. Select “Main Stream (Normal)” for recording and live view with a good bandwidth. Select “Sub Stream” for live view with restricted bandwidth.

Video Type
Select either “Video” or “Video&Audio” for the stream type.

	The audio signal is only recorded if you select “Video&Audio” as the stream type.

Resolution
Set the resolution of the video data here. Depending on the camera model you can choose from between 1280*720P; 1280*960; 1920*1080P.

Bitrate Type
Specifies the bit rate of the video stream. The video quality can be higher or lower depending on the intensity of the motions.You can select between a constant and variable bit rate.

Video Quality
This menu item is only available if you have selected a variable bit rate. Set the video quality for video data here.The video quality can differ depending on the intensity of movement. You can select from six different video qualities: “Lowest” “Lower”, “Low”, “Medium”, “Higher” or “Highest”.

Frame Rate
Specifies the frame rate in frames per second.

Max. Bitrate
The bit rate of the video stream is set to a certain value. Set a maximum bit rate of between 32 and 16384 Kbps. A higher value means better video quality, however, this requires more bandwidth.

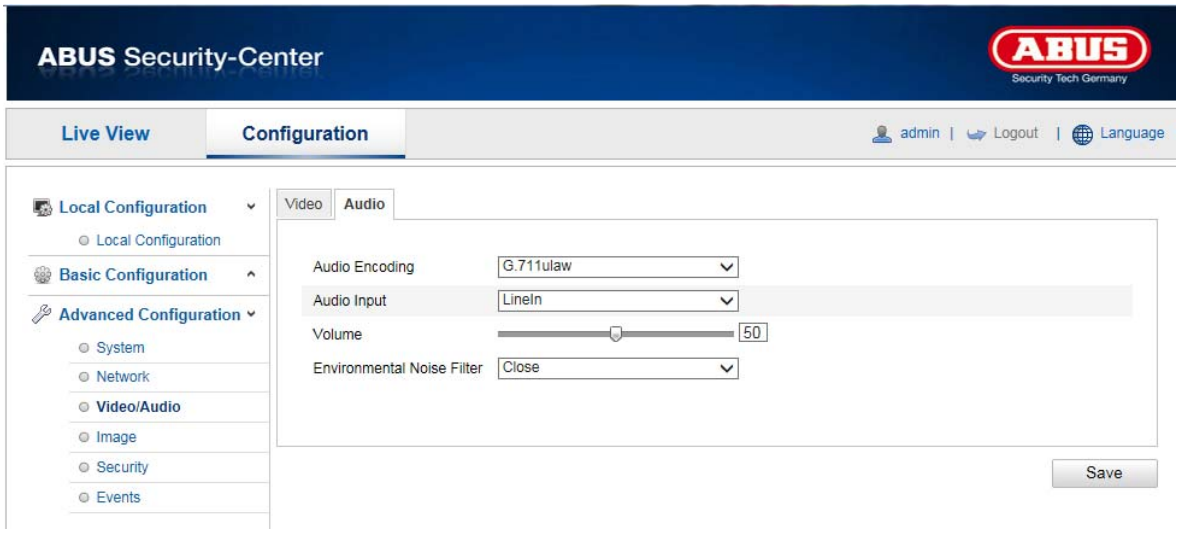
Video Encoding
Select a standard for video encoding. You can choose between H.264, MPEG4 and MJPEG

Profile
Select a profile here. You can choose between “Basic Profile”, “Main Profile” and “High Profile”.

I Frame Interval
Set the I frame interval here. The value must lie between 1 – 400.

	Apply the settings made with “Save”.

10.3.3.2 Audio



Audio coding
Select the encoding for audio transmission here.
You can choose between “G.711ulaw”, “G.711alaw” and “G.726”.

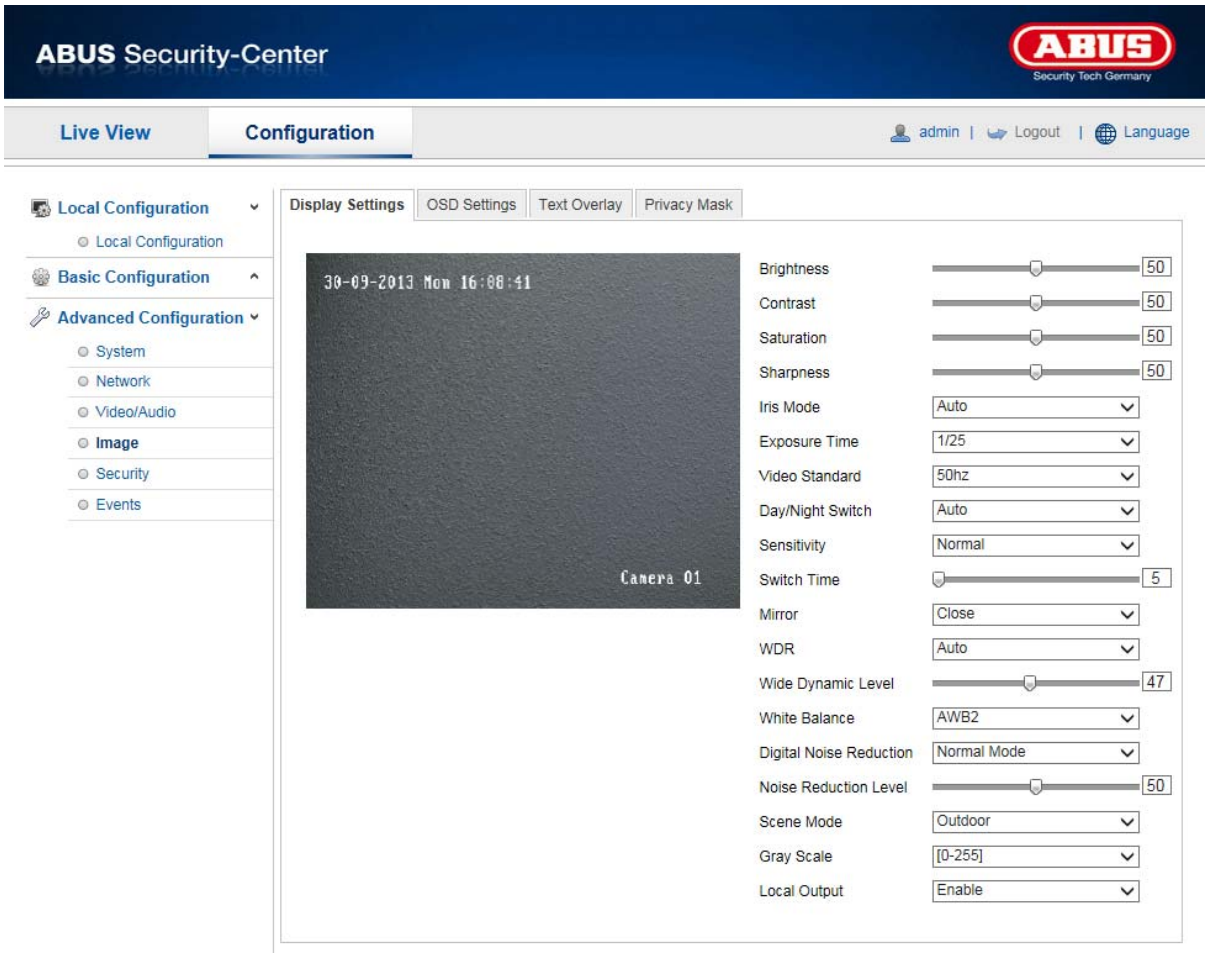
Audio input
MicIn: The settings for the audio input on the back of the camera are customised to a microphone (unamplified source).
LineIn: The settings for the audio input on the back of the camera are customised to a line signal (active amplified source).

Volume
Adjusting the input signal.

Noise filter
Activating or deactivating the noise filter for background noise

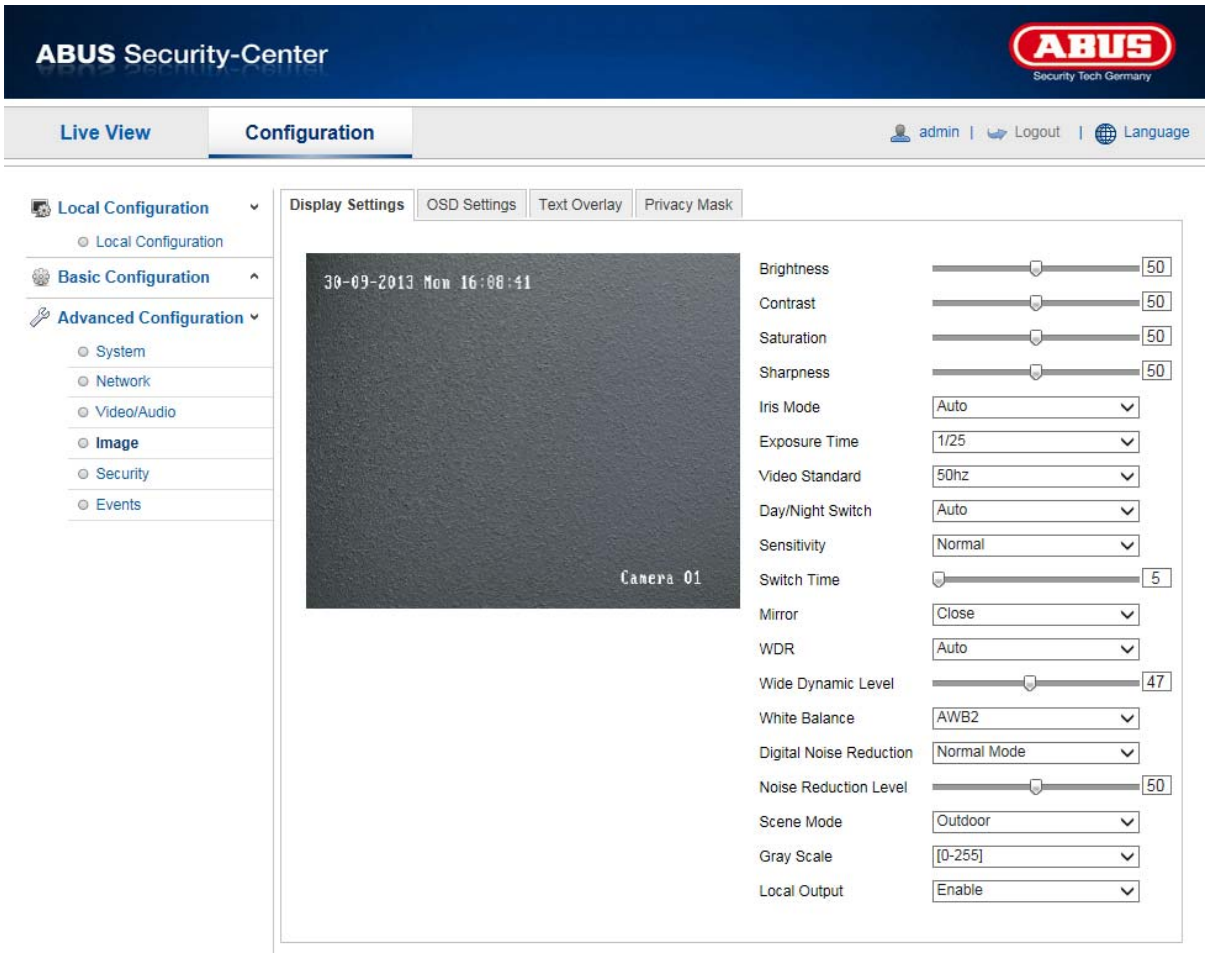
	Apply the settings made with “Save”.

11.3.4 Image



Menu item	Description	Available in mode
Display Settings	Displaying parameter settings	Basic Configuration, Advanced Configuration
OSD Settings	Settings for the date and time formats	Advanced Configuration
Text Overlay	Adding text fields	Advanced Configuration
Privacy masking	Adding privacy masking	Advanced Configuration

10.3.4.1 Display Settings



You can use this menu item to set the picture quality of the Speed Dome, including brightness, sharpness, contrast and so on. Click on “Default” to restore the default values.

	Please note: The display setting parameters can vary depending on the model.

Brightness
Image brightness settings. A value between 0 and 100 can be set.

Contrast
Image contrast settings. A value between 0 and 100 can be set.

Saturation
Image saturation settings. A value between 0 and 100 can be set.

Limit Gain
Setting for the maximum limit gain. A value between 0 and 100 can be set.

Sharpness
Image sharpness settings. A higher sharpness value can increase image noise.
A value between 0 and 100 can be set.

Exposure mode
Automatic or manual adjusting of exposure parameters.

Auto
The Speed Dome camera focuses automatically depending on the objects in the scene.

Manual

The camera has to be focussed manually using the zoom buttons .

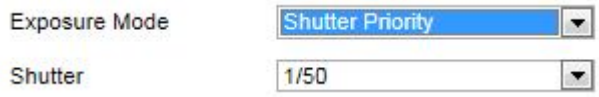
Duration of exposure
Setting the maximum exposure time. This setting is dependent on iris mode.

Video Standard
Setting for the exposure frequency
50Hz: fixed setting to 50 Hz network frequency

60Hz: fixed setting to 60 Hz network frequency

Day/Night Switch
Day/Night Switch Provides options for “Day”, “Night” and “Auto”.

Auto
Depending on the light conditions, the camera switches between day and night mode automatically. The sensitivity can be set between “Low”, “Normal” and “High”.



Day
In this mode, the camera only outputs colour pictures.

	Please note: Only use this mode if the light conditions remain constant.

Night
In this mode, the camera only outputs black/white and pictures.

	Please note: Only use this mode if the light conditions are poor.

Sensitivity
Setting for the switching threshold for automatic day/night switching (Low, Normal, High).
A lower value means that there is a lower lighting level for switching to night mode.

Switch Time
Setting a delay time between recognising that a switching is required and carrying out the process.

Mirror
If the mirror function is active, the image is mirrored horizontally.

WDR
With the aid of the WDR function, the camera can return clear pictures even in disadvantageous backlight conditions. If there are both very bright and very dark areas in the picture area, the brightness level of the overall picture is balanced to provide a clear, detailed image.
Click on the checkbox to activate or deactivate the WDR function.
Set the Wide Dynamic Level higher to enhance the WDR function.

White balance

Here you select the lighting conditions in which the camera is installed.
You can choose from the following options: “MWB”, “AWB1”, “AWB2”, “WB Locked”, “Florescent Lamp”, “Standard Lighting”, “Warm Lighting”, “Natural Lighting”.

MWB
You can adjust the white balance with the following values manually.

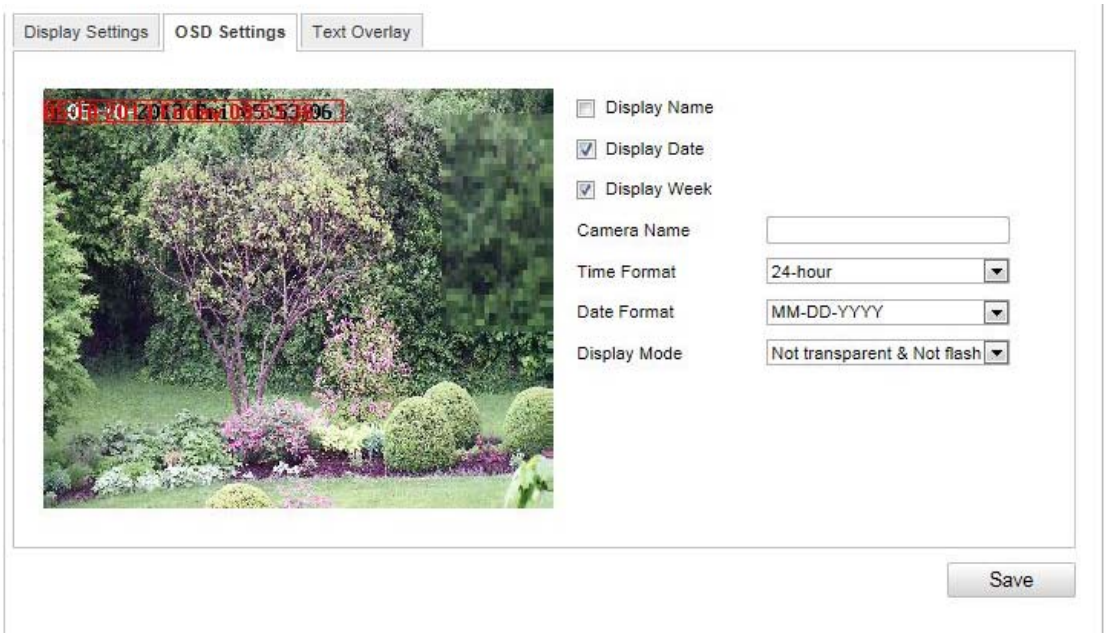
WB locked
The white balance is performed once and saved.

Others
Use additional white balance options to adjust the function to the light levels.

Digital Noise Reduction
You can activate (normal mode) or deactivate the noise reduction here.

Noise Reduction Level
Set the level for noise reduction here.

10.3.4.2 OSD Settings



You can use this menu item to select which date and time format are displayed in the live picture.

Display Name
Activate this checkbox if you wish to display the camera name.

Display Date
Activate this checkbox if you wish to display the date in the camera image.

Display Week
Activate this checkbox if you wish to display the day of the week.

Camera Name
Enter the camera name that is to be displayed in the image here.

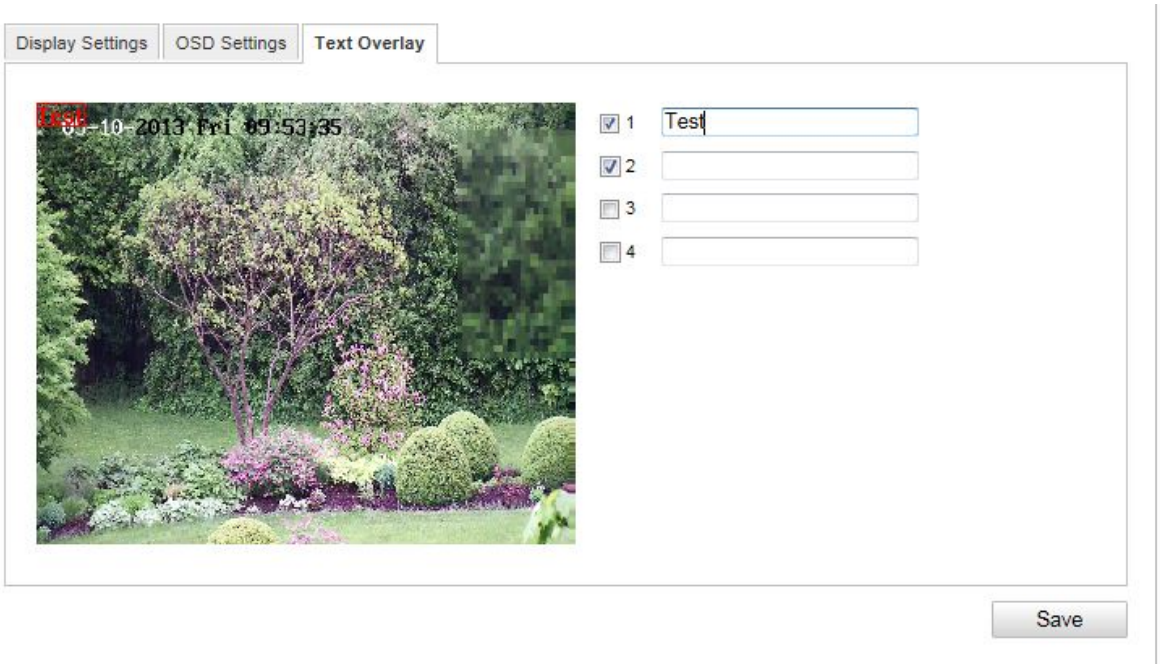
Time Format
Choose here whether you would like to display the time in 24-hour or 12-hour format.

Date Format
Select the format for the date display here.
(M = month; D = day; Y = year)

Display Mode
Here you can select the display mode for the elements displayed.
You have the following options: “Transparent & Flashing”, “Transparent & Not flashing”, “Not transparent & Flashing”, “Not transparent & Not flashing”.

	Apply the settings made with “Save”.

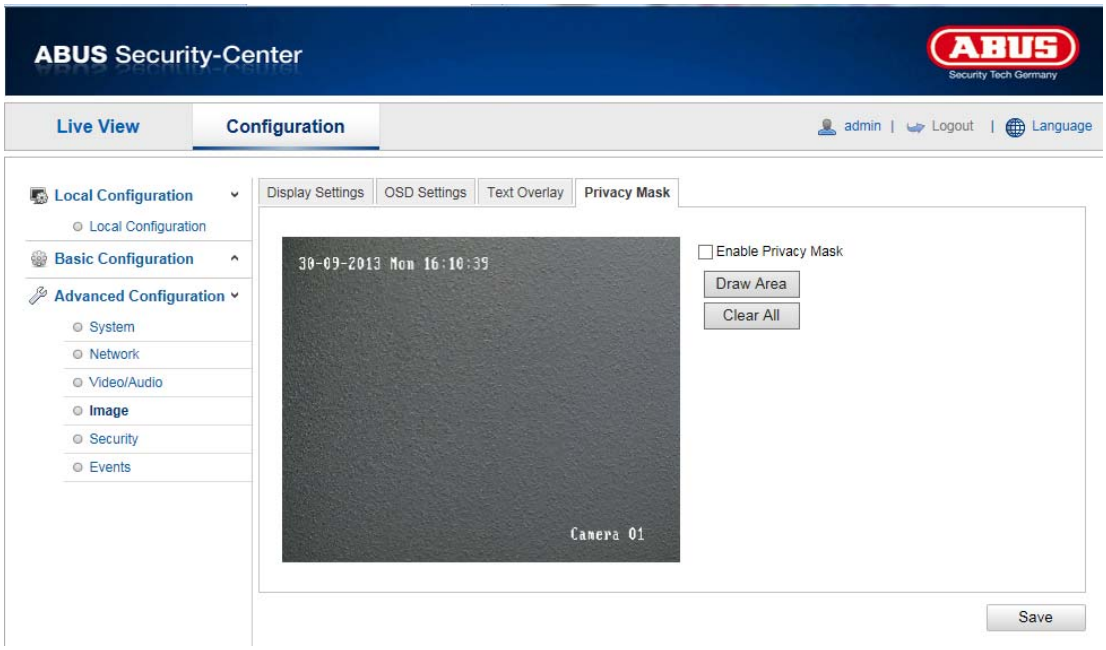
10.3.4.3 Text Overlay



You can display up to four texts in the camera image. The maximum length for the texts is 45 characters.
To display the text, activate the checkbox.
You can move the text window with the mouse.

	Apply the settings made with “Save”.

10.3.4.4 Privacy Mask



You can use privacy masks to hide certain areas in the live view to prevent that recording or viewing these areas in the live view is possible. A maximum of 4 rectangular privacy masks can be set up on the video image.

To set up a privacy mask, proceed as follows: Select “Enable Privacy Mask” checkbox. To add a privacy mask, click “Draw Area”. You can now mark an area on the camera image using your mouse. You can then mark 3 additional areas. By clicking on “Delete All”, you can delete all configured privacy masks.

	Apply the settings made with “Save”.

10.3.6 Security

Menu item	Description	Available in mode
User	User administration	Basic Configuration, Advanced Configuration
RTSP Authentication	Settings for the date and time formats	Advanced Configuration
Anonymous Visit	Access without user name and password	Advanced Configuration
IP address filter	Filtering IP addresses for access to controlling the camera	Advanced Configuration

10.3.6.1 Security

With this menu item, you can add, edit or delete users.

To add a user or to edit one, click “Add” or “Modify”.

A new window with the data and authorisations appears.

User Name
Here you assign the user name that needs to be entered for access to the camera.

Level
Select an individual user type for the user ID.
You can choose between two predefined levels: “Operator” or “User”.

As an operator, the following remote functions are available to you: live view, PTZ control, manual recording, playback, two-way audio, search / query operating status.

As a user, the following remote functions are available to you: playback, search / query operating status.

To add further functions, click the corresponding checkbox.

Password
Here you assign the password that the corresponding user needs to enter for access to the camera.

Confirm
Confirm the password by entering it once more.

	Apply the settings made with “Save”. Click on “Cancel” to discard the data.

10.3.6.2 RTSP Authentication

You can secure the video stream of the live view.
Select “disable” to deactivate the function. To activate the function, select “basic”.

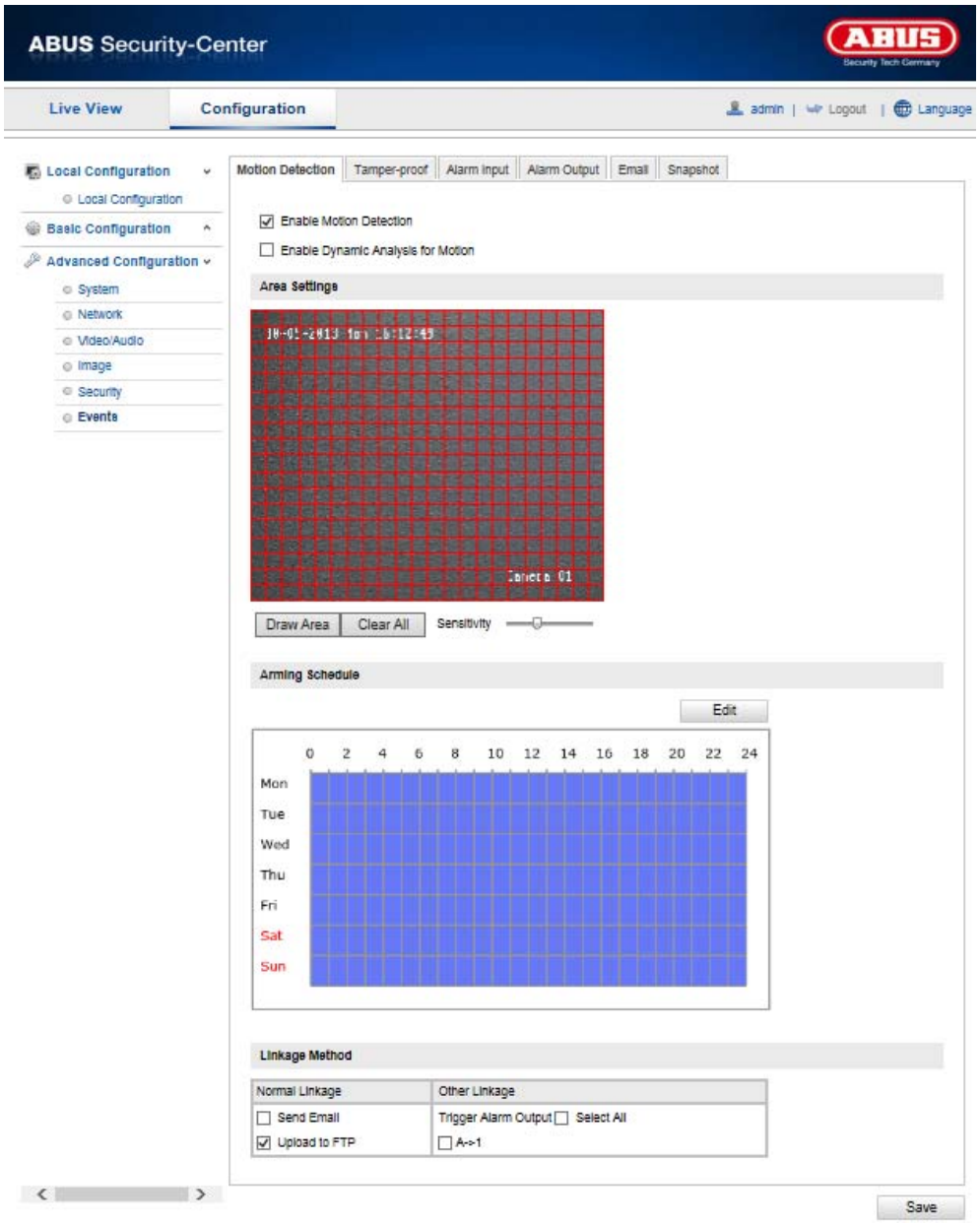
	Apply the settings made with “Save”.

10.3.6.4 IP address filter

Activating the IP address filter
Ticking the selection box activates the filter function.

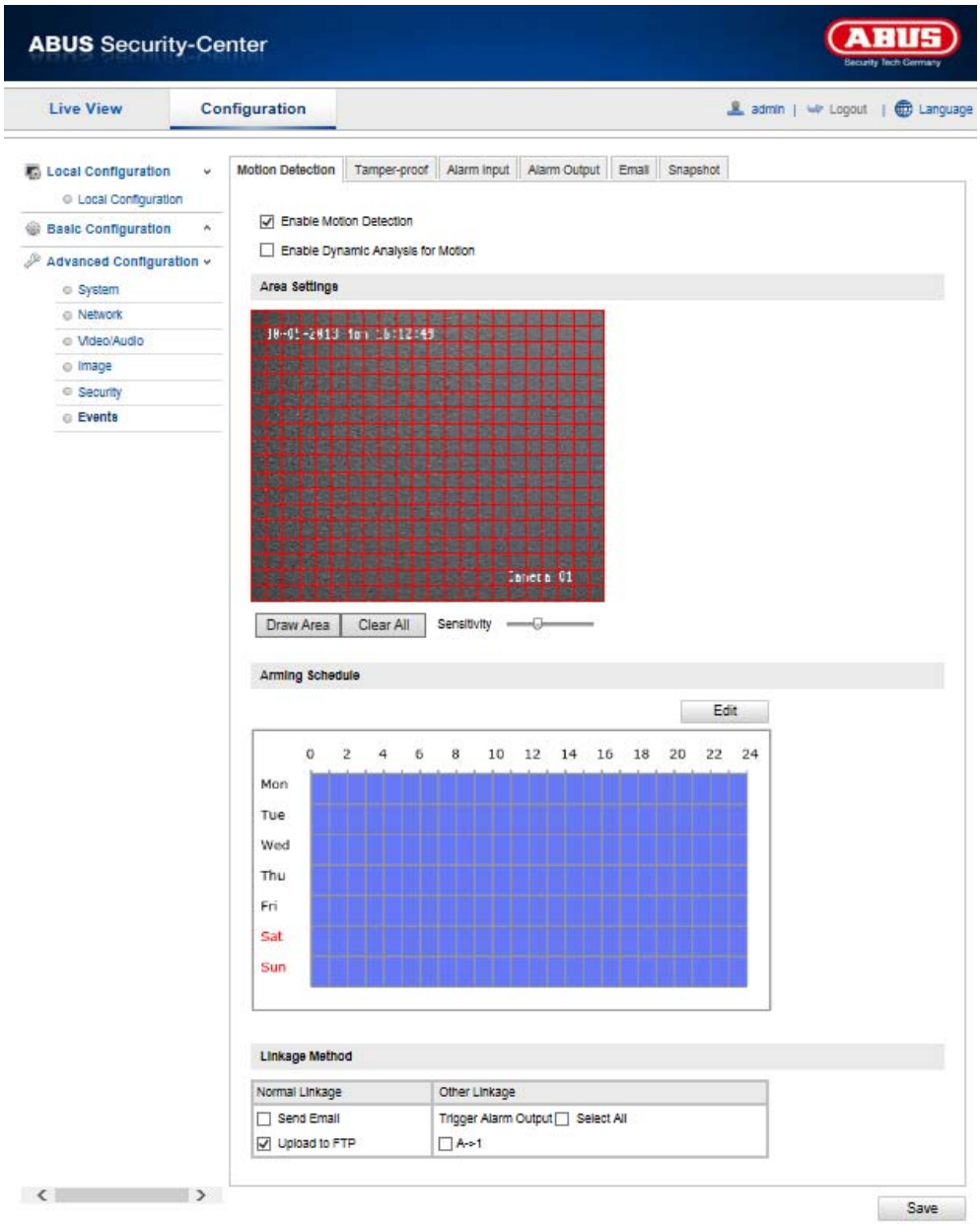
IP address filter type
Allowed: The IP addresses detailed further below can access the camera.
Forbidden: The IP addresses detailed further below are blocked. An IP can be entered following the xxx.xxx.xxx.xxx format.

10.3.7 Events



Menu item	Description	Available in mode
Motion Detection	Settings for motion detection	Advanced Configuration
Tamper-proof	Setting for the sabotage alarm	Advanced Configuration
Alarm Input	Setting for the alarm input	Advanced Configuration
Alarm Output	Setting for the alarm output	Advanced Configuration
Email	Setting for e-mail dispatch	Advanced Configuration
Snapshot	Setting for the snapshot function	Advanced Configuration

10.3.7.1 Motion Detection



Area Settings

Activate motion detection by clicking the “Enable Motion Detection” checkbox.

By clicking on “Enable Dynamic Motion Analysis”, movements are recorded in the preview image and the live view (dynamic recording according to motion).

To select an area, click on the “Draw Area” button. The entire area is selected by default. To discard this selection, click on “Clear All”.

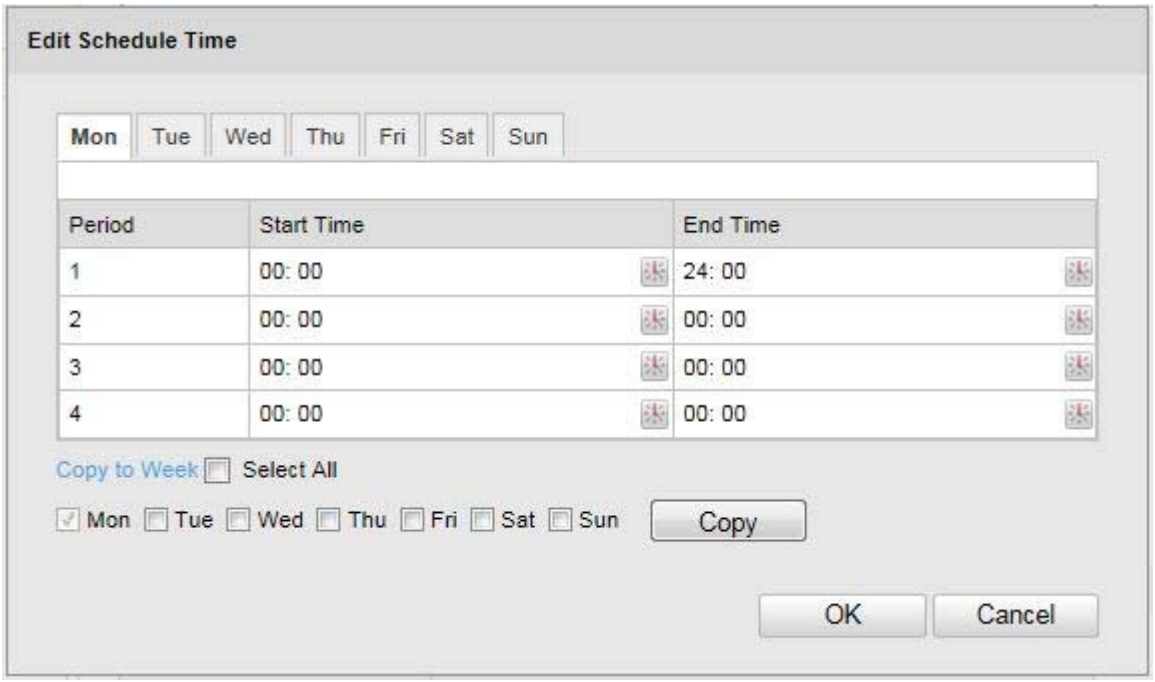
Drag the mouse pointer over the desired area. Set the sensitivity using the regulation control bar. To apply the setting for the area, click on “Stop Drawing”.

Right: high sensitivity level
Left: low sensitivity level

Arming Schedule

To save a schedule for motion-controlled recording, click on “Edit”.

A new window appears. Specify here on which days of the week and at which times motion-controlled recording should take place.



Now select a week day for motion controlled recording. To store particular time periods, enter a start and end time. To set up all-day motion-detection, select 00:00 as the start time and 24:00 as the end time.

To apply motion detection for all week days, click the “Select All” checkbox. To copy motion detection to other week days, select the week day and click on “Copy”.

To apply the changes, click “OK” and to discard them click on “Cancel”.
Apply the settings made with “Save”.

Linkage Method

Make the setting here for which action motion detection should be performed.

Normal Linkage

Send Email: You receive an e-mail as notification, activate the checkbox for this to be performed.

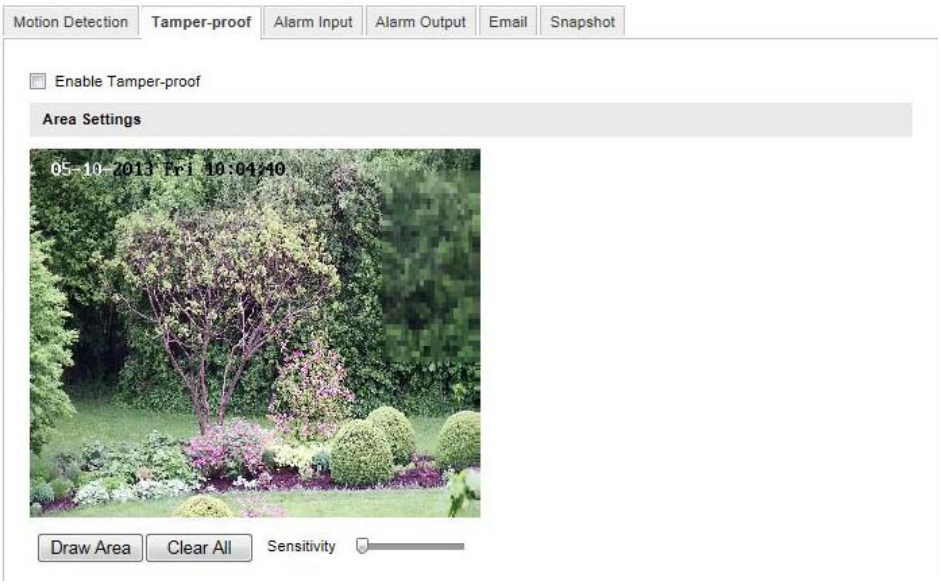
Upload to FTP: Activate the checkbox to upload the motion-controlled recording to an FTP server.

Other Linkage

You can switch on the alarm output for when motion is detected.
To switch on alarm output 1, select “A->1”.

	Apply the settings made with “Save”.

10.3.7.2 Tamper-proof



With this menu item you can configure the Speed Dome so that a sabotage alarm is triggered as soon as the lens is covered.

Area Settings

Activate the sabotage alarm by clicking the “Enable Tamper-proof” checkbox.

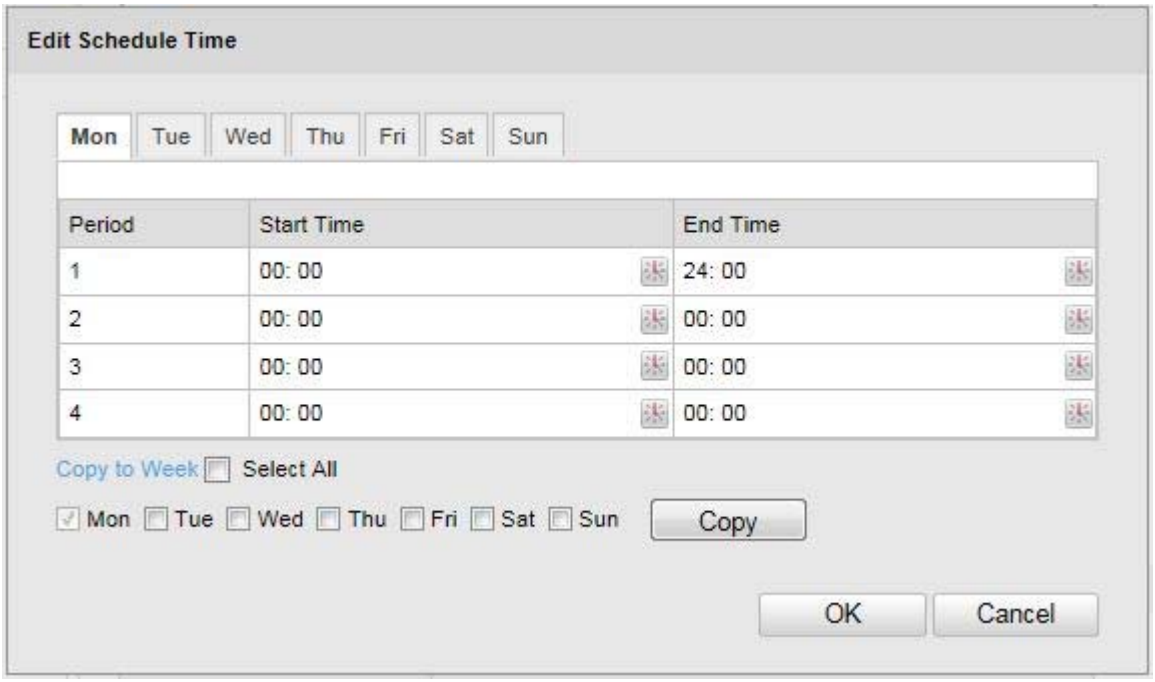
To select an area, click on the “Draw Area” button. The entire area is selected by default. To discard this selection, click on “Clear All”.

Drag the mouse pointer over the desired area. Set the sensitivity using the regulation control bar. To apply the setting for the area, click on “Stop Drawing”.

Right: high sensitivity level
Left: low sensitivity level

Arming Schedule

To save a schedule for the sabotage alarm, click on “Edit”.
A new window appears. Specify here on which days of the week and at which times the sabotage alarm should be active.



Now select a week day for the sabotage alarm. To store particular time periods, enter a start and end time. To set up an all-day sabotage alarm, select 00:00 as the start time and 24:00 as the end time.

To activate the sabotage alarm for all week days, click the “Select All” checkbox. To copy the sabotage alarm to other week days, select the week day and click on “Copy”.

To apply the changes, click “OK” and to discard them click on “Cancel”.

Linkage Method

Make the setting here for which action the sabotage alarm should be performed.

Normal Linkage

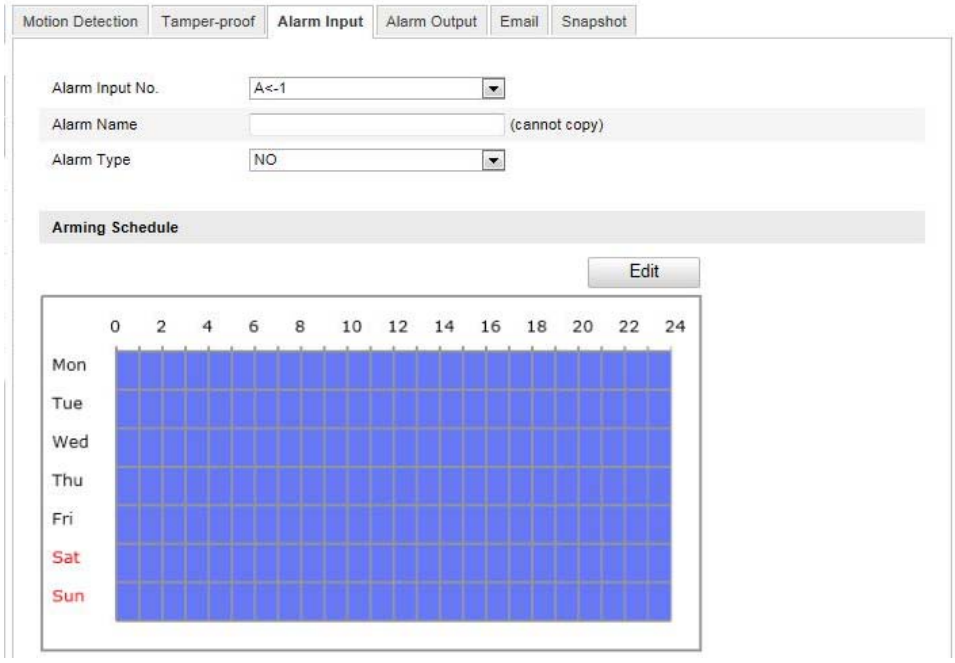
Send Email: You receive an e-mail as notification, activate the checkbox for this to be performed.

Other Linkage

You can switch on the alarm output for when tampering is detected.
To switch on alarm output 1, select “A->1”.

	Apply the settings made with “Save”.

10.3.7.3 Alarm Input



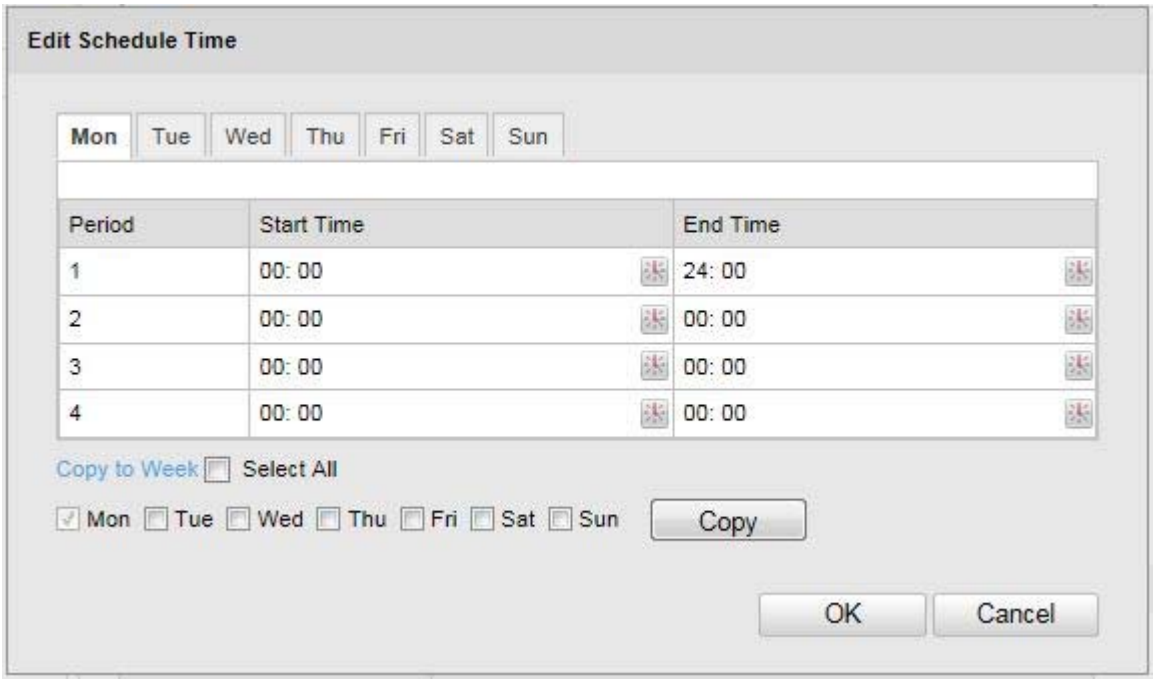
You can configure the alarm inputs of the Speed Dome with this menu item.

Alarm Input No.
Select the alarm input here that you wish to configure.

Alarm Name
You can specify a device name for the alarm input here. Please do not use the alarm input number or any special characters.

Alarm Type
Select the alarm type here. You can choose between “NO” (normally open) or “NC” (normally closed).
Arming Schedule

To save a schedule for the alarm input, click on “Edit”.
A new window appears. Specify here on which days of the week and at which times the alarm input should be active.



Now select a week day for the alarm input. To store particular time periods, enter a start and end time. To activate the alarm input all day, select 00:00 as the start time and 24:00 as the end time.

To apply the settings for all week days, click the “Select All” checkbox. To copy the settings to certain other week days, select the week day and click on “Copy”.

To apply the changes, click “OK” and to discard them click on “Cancel”.

Linkage Method

Make the setting here for which action motion detection should be performed.

Normal Linkage

Send Email: You receive an e-mail as notification, activate the checkbox for this to be performed.

Upload to FTP: Activate the checkbox to upload the alarm input to an FTP server.

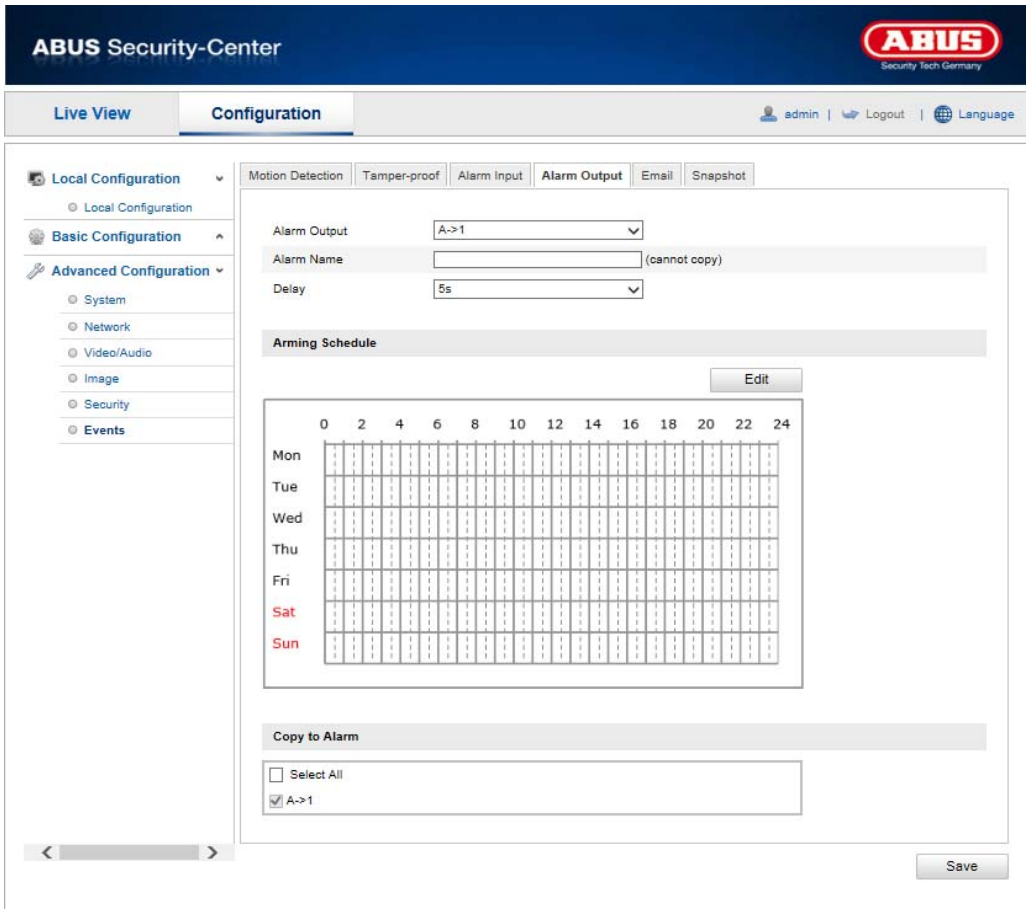
Other Linkage

You can switch on the alarm output for when an alarm is detected.
To switch on alarm output 1, select “A->1”.

Copy to Alarm
This function allows you to copy the settings of one alarm input to other alarm inputs.
To apply the settings for all alarm inputs, click the “Select All” checkbox. To copy the settings to single alarm inputs, select the alarm input and click on “Copy”.

	Apply the settings made with “Save”.

10.3.7.4 Alarm Output



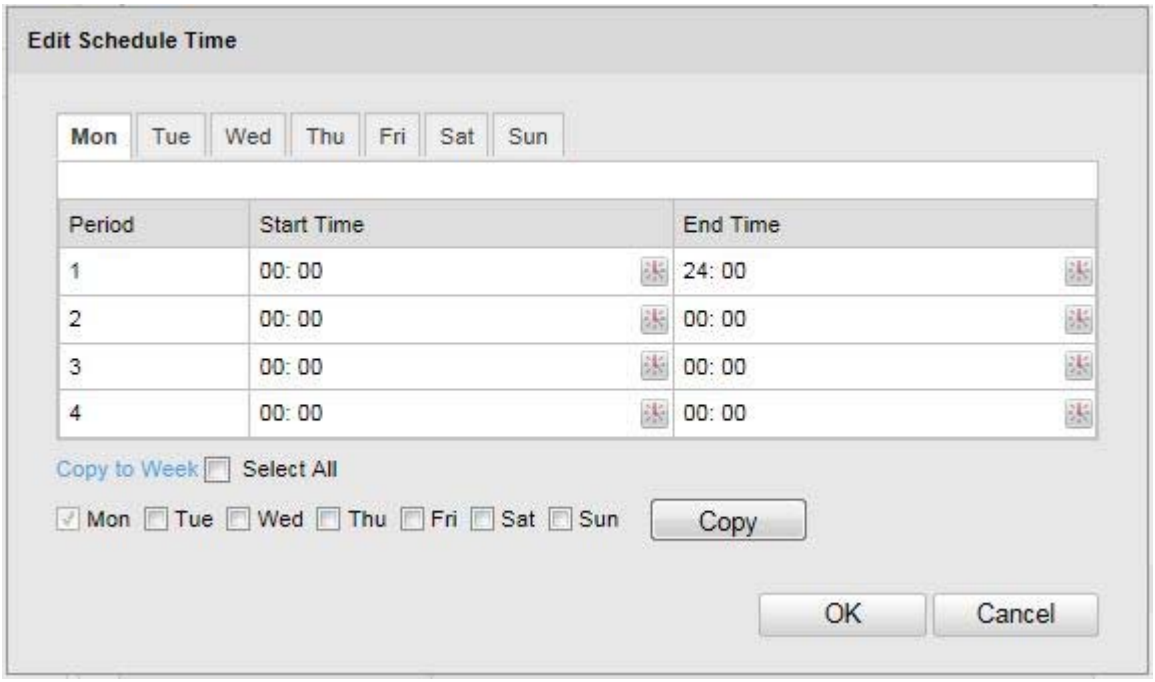
You can configure the two alarm outputs here.

Alarm Output No.
Select the alarm output here that you wish to configure.

Alarm Name
You can specify a device name for the alarm output here. Please do not use the alarm output number or any special characters.

Arming Schedule

To save a schedule for the alarm output, click on “Edit”.
A new window appears. Specify here on which days of the week and at which times the alarm output should be active.



Now select a week day for the alarm output. To store particular time periods, enter a start and end time. To activate the alarm input all day, select 00:00 as the start time and 24:00 as the end time.

To apply the settings for all week days, click the “Select All” checkbox. To copy the settings to certain other week days, select the week day and click on “Copy”.

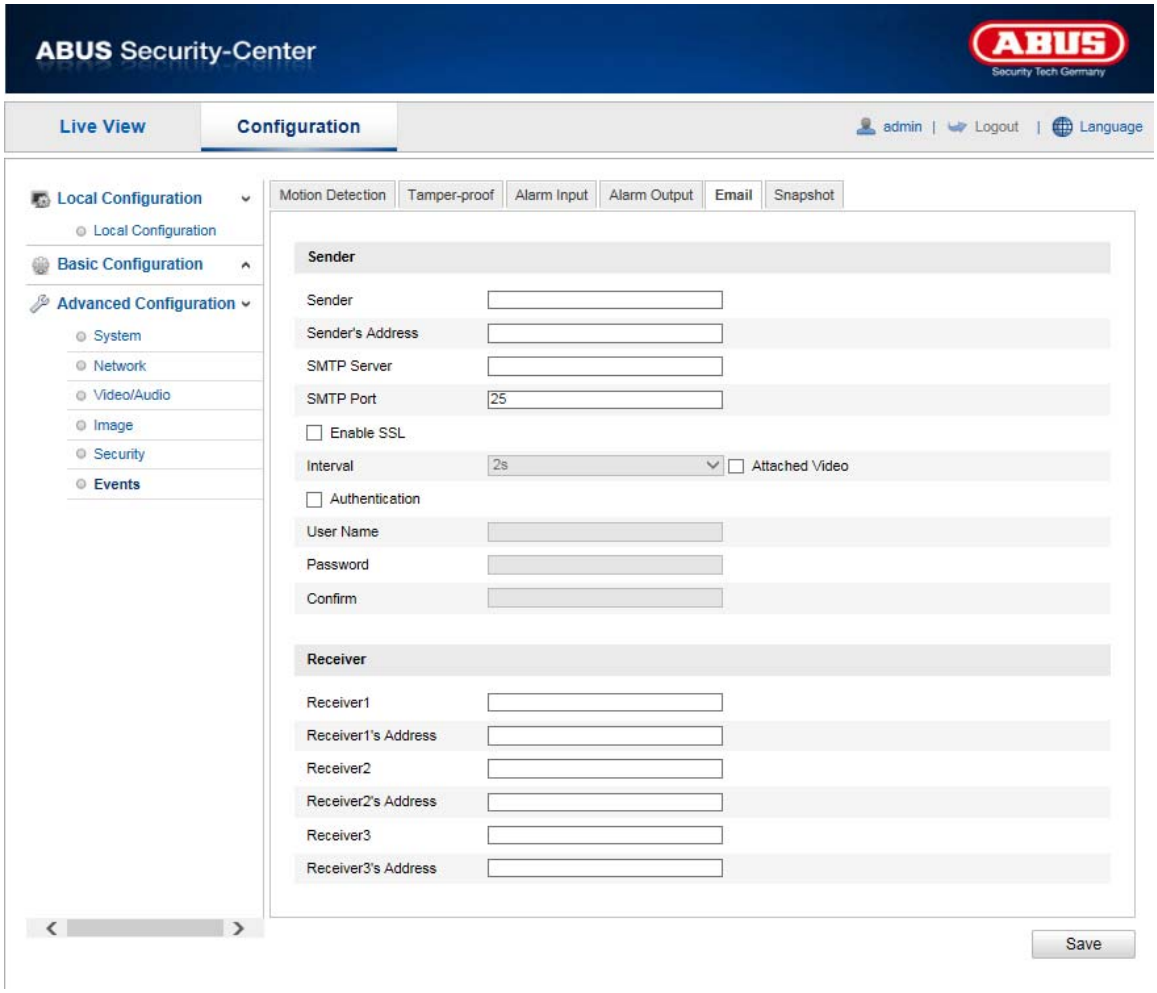
To apply the changes, click “OK” and to discard them click on “Cancel”.

Copy to Alarm

This function allows you to copy the settings of one alarm output to other alarm outputs.
To apply the settings for all alarm outputs, click the “Select All” checkbox.

	Apply the settings made with “Save”.

10.3.7.5 Email



You can make the settings for sending e-mails here.

Sender

Sender
Enter a name here that should be displayed as the sender.

Sender's Address
Enter the e-mail address of the sender here.

SMTP Server
Enter the IP address or host name of the SMTP server here. (For example: smtp.googlemail.com)

SMTP Port
Enter the SMTP port here. This is configured as 25 by default.

Enable SSL
Select the SSL function if the SMTP server requires this.

Interval
Set the interval between sending e-mails with picture attachments here.

Attached Image
Enable this function if images are to be attached to the e-mail in the event of an alarm.

Authentication
If the e-mail server in use requires authentication, enable this function to be able to log onto the server with authentication.
User names and passwords can only be entered once this function has been activated.

User Name
Enter the user name of the e-mail account here. This is the part before the @ character.

Password
Enter the password of the e-mail account here.

Confirm
Confirm the password by entering it again.

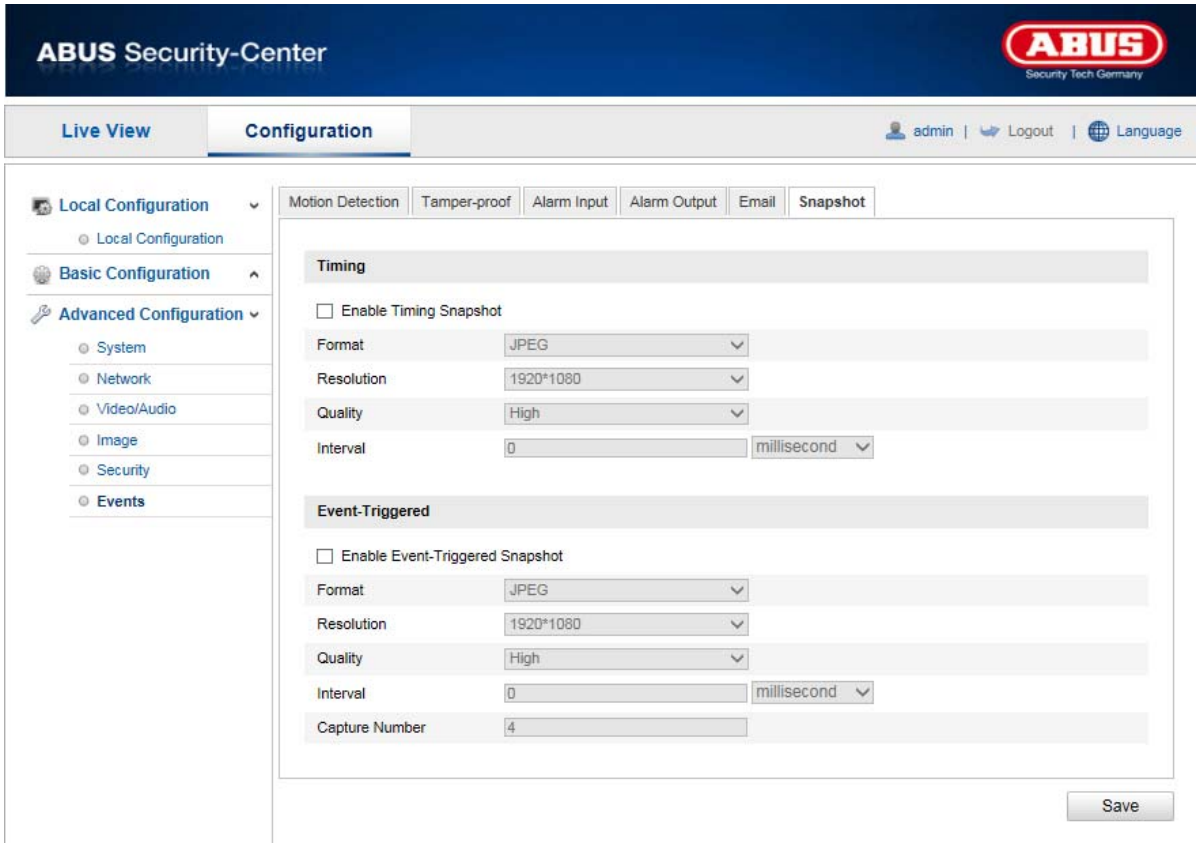
Receiver

Receiver1 /Receiver2
Enter the user name of the receiver here.

Receiver1's Address / Receiver2's Address
Enter the e-mail address of the person to be informed here.

	Apply the settings made with “Save”.

10.3.7.6 Snapshot



You can make the configuration for time and event-controlled snapshots here to be able to upload them to an FTP server.

Timing

Enable Timing Snapshot
Enable this function to save pictures at certain intervals.

Format
The format for the pictures is preconfigured as JPEG.

Resolution
Set the resolution of the picture here.

Quality
Select the quality for the saved pictures here.

Interval
Set the interval between saving two pictures here.

Event-Triggered

Enable Event-Triggered Snapshot
Enable this function to enable event-triggered pictures.

Format
The format for the pictures is preconfigured as JPEG.

Resolution
Set the resolution of the picture here.

Quality
Select the quality for the saved pictures here.

Interval
Set the interval between saving two pictures here.

11. Maintenance and cleaning

11.1 Maintenance

Regularly check the product's physical state, e.g. check for damage of the housing.

If you suspect that safe operation cannot be guaranteed anymore, disconnect the product and ensure that it cannot be used by mistake. Remove the batteries.

You can assume that safe operation is not possible anymore when

- the device shows visible damage,
- the device does not function anymore

	Please note: The product is absolutely maintenance-free for you. There are no components on the inside of the product to be checked or services by you, never open it.

11.2 Cleaning

Wipe the product with a clean, dry cloth. If the device is very dirty, you can moisten the cloth with lukewarm water.

	Ensure that no liquids can get into the device. Do not use any chemical cleaners, since they could damage the housing surface or the screen (discolorations).

12. Disposal

	Important: The EU Directive 2002/96/EC regulates the proper return, treatment and recycling of used electronic devices. This symbol means that in the interest of environmental protection the device must be disposed of separately from household or industrial waste at the end of its service life in accordance with applicable local legal guidelines. Disposing of used devices can be done at official recycling centers in your country. Obey local regulations when disposing of material. Further details on returns (also for non-European countries) can be obtained at your local authority. Separate collection and recycling saves natural resources and ensures that all the provisions for protecting health and environment are observed when recycling the product.

13. Technical Data

Model number	**TVIP52502**
Image sensor	1/3" progressive scan CMOS sensor
Camera type	Day/night
Resolution	1920 x 1080, 1280 x 960, 1280 x 720, 704 x 576, 352 x 288, 176 x 144
Pixels (total)	1920 x 1080
Pixels (effective)	1920 x 1080
Day/night switching	Electromechanical IR-cut filter
Minimum illumination (colour)	0.05 lux
Image compression	H.264, MPEG-4, MJPEG
Frame Rate	H.264: 25 fps @ 1920 x 1080
	MPEG-4: 25 fps @ 1920 x 1080
	MJPEG: 15 fps @ 1920 x 1080
Number of parallel streams	2
Electronic shutter control	1 ~ 1/100,000 sec.
White balance	Yes
Backlight compensation	BLC, WDR
Noise reduction	3D DNR
Motion detection	Yes
Image overlay	Date, camera name, private zone
Alarm input (NO/NC)	1
Alarm output	1
Alarm notification	E-mail/FTP/alarm output
Supported browsers	Mozilla Firefox, Safari or Internet Explorer 6.x and higher
Supported software	ABUS VMS
Network access	RJ-45 Ethernet 10/100 Base-T
Network protocols	IPv4/IPv6, HTTP, FTP, SMTP, UPnP, DNS, DDNS, NTP, RTSP ,RTP ,TCP ,UDP, DHCP, PPPoE
Power over Ethernet	IEEE803.af
Power supply	12 V DC
Current consumption	Max. 500 mA
Operating temperature	-10 °C – 50 °C
Dimensions (W x H x D)	72 x 65 x 141 mm
Certifications	CE, RoHS, REACH

14. GPL license information

Here we wish to inform you that the network surveillance camera TVIP52502 contain Open Source Software, which is licensed exclusively under the GNU General Public License (GPL). To ensure that your use of the programs conforms with GPL, please refer to the GPL license conditions.

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