

VGA Network Compact Camera



User manual

Version 03/2013





Introduction

Dear Customer,

Thank you for purchasing this product.

This product meets the requirements of the applicable European and national guidelines. The corresponding declarations and documents can be obtained from the manufacturer.

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



3S,

|

Important safety instructions



The warranty will expire for damage due to non-compliance with these operating instructions. We shall not be liable for any consequential loss!



We do 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.

Dear customer,

The following safety instructions are intended not only for the protection of your health, but also for the protection of the device. Please read through the following points carefully:

- There are no parts on the inside of the product which need to be serviced. Apart from this, the license (CE) and the guarantee/warranty will lapse if you open/take the product apart.
- The product will be damaged even it falls from a low height.
- This device can be used in inside only.
- During the installation of the camera please take care that direct sunlight cannot fall onto the image sensor of the device. Please follow the installation instructions in the corresponding chapter of this user manual.

Avoid using the device under the following unfavorable ambient conditions:

- wetness or excessive air humidity
- extreme cold or heat
- direct sunlight
- dust or combustible gases, vapors or solvents
- strong vibration
- strong magnetic fields, such as those found in the vicinity of machinery or loudspeakers
- the camera should not positioned with opened iris towards the sun - this can lead to the destruction of the sensor.
- the camera may not be installed on unstable surfaces

General safety instructions:

- Do not leave packaging material lying around carelessly. Plastic/ foil/bags and polystyrene parts etc. could become dangerous toys for children.
- For safety reasons don't give the camera into child hands due to them being able to swallow small parts.
- Please do not insert objects through the openings into the device.
- Use only accessories which are specified by the manufacturer. Please do not connect incompatible parts to the device.
- Please pay attention to the safety instructions and user manuals of the other connected devices.
- Check the device for damages before installation. If this should be the case please do not use it.
- Please adhere to the operational voltage limitations listed in the technical data. High voltage could destroy the device and pose a health hazard (electric shock).



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 or make-do electrical connection to the mains does 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.

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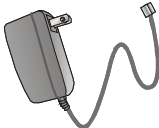
1. Usage in accordance with regulations



Use of this product for other than the described purpose may lead to damage to the product and other dangers. All other uses are not in accordance with regulations, and result in the invalidation of the product guarantee and warranty. No liability can be accepted as a result. This also applies to any alterations or modifications made to the product.

Read the entire operating manual carefully before putting the product into operation. The operating manual contains important information on installation and operation.

2. Scope of delivery

ABUS network camera TVIP10005B / TVIP10055B	
Power supply unit	
Network cable (1 metre)	
Software CD (including operating manual)	
Wall mount bracket	
Quick guide	

3. Installation

Make sure that all accessories and parts listed above are present in the scope of delivery. An Ethernet cable is required for camera operation. This Ethernet cable must meet UTP Category 5 (CAT 5) specifications and must not be longer than 100 metres.

3.1 Power supply

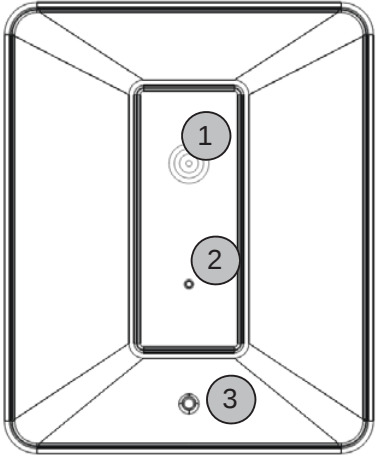
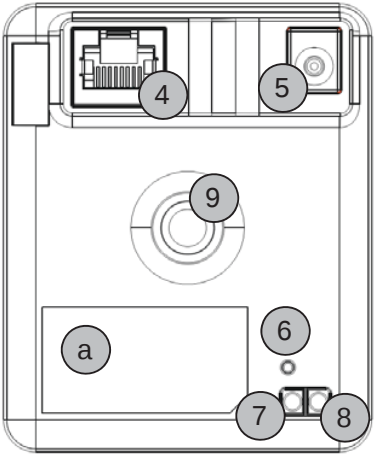
Before starting installation, ensure that the mains voltage and the rated voltage on the power supply unit are identical. The camera's supply voltage is 5 VDC. Please use the supplied power supply

3.2 Installing the camera

With the camera a mounting bracket is supplied. At the backside of the camera a socket is located. Using this socket the camera mounting bracket can be fixed at the camera. The mounting bracket can be fixed at the wall using the supplied pegs and screws.

4. Camera description

4.1 Description of connectors

Front side	Back side
	
1 Lens 2 Microphone 3 Status LED	7 WPS button (only TVIP10055B) 8 Reset button 9 Socket for camera bracket (1/4 inch thread) - a Product sticker (with model number and MAC address)
4 Network connector 5 Power supply connector 5 VDC 6 WPS Status LED (only TVIP10055B)	

4.2 Status LEDs

LED	Farbe	Bedeutung
Status LED	Red continuously on	Start up procedure (boot procedure) In case a network cable is attached to the camera, the camera will try to assign a valid IP address (using DHCP or using the configured fixed IP address). In case wireless network is configured, the camera tries to connect to access point using the configured wireless SSID/encryption.
	Red flashing 1 / second	Network connection is not available. LAN: network cable not connected or defect Wireless: configured wireless data is not accepted by the access point, or the access point is out of range.
	Blue continuously on	IP address was assigned successfully. (Note: it could be possible that the IP address will not match the target network. This can happen on manual setting of IP address.
WPS LED	Flashing 1 / second	WPS search started (pressing the WPS button for more than 10 seconds). The camera will try to exchange the wireless encryption settings with the WPS activated access point/Router.

4.3 Restoring the factory settings

Camera restart	Press the reset button for a short time. The camera will reboot.
Restoring the factory settings	Press the reset button for more than 10 seconds. The settings of the camera will be reset to factory default. This is especially required after a firmware upgrade.

4.4 Putting into operation

The network camera automatically detects whether a direct connection between the PC and camera should be made. A cross-over network cable is not required for this. You can use the supplied patch cable for direct connection when putting into operation for the first time.

Direct connection of the network camera to a PC / laptop

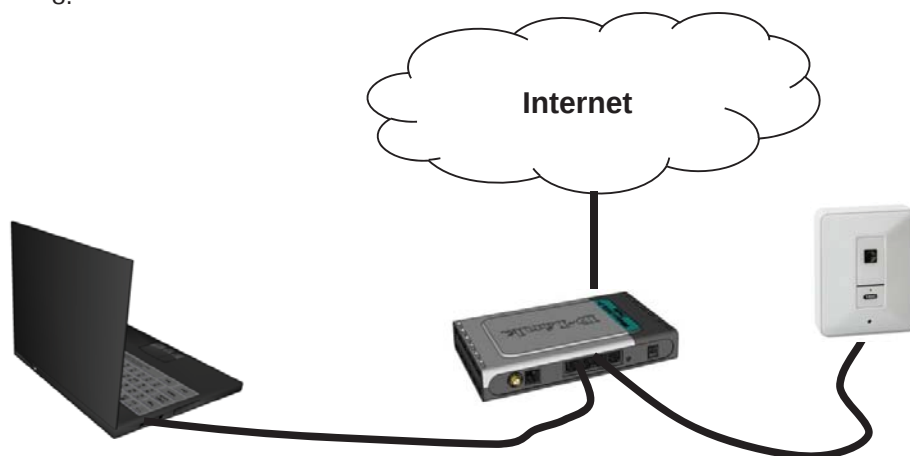
1. Ensure that a CAT 5 network cable is used.
2. Connect the cable to the Ethernet interface of the PC / laptop and the network camera.
3. Connect the power supply to the network camera.
4. Configure the network interface of your PC / laptop to the IP address 192.168.1.1 and the default gateway to 192.168.1.2.
5. Go to point 4.6 to finish the initial set-up and establish the connection to the network camera.



① CAT 5 Ethernet cable

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 192.168.1.1 and the default gateway to 192.168.1.2.
7. Go to point 4.6 to finish the initial set-up and establish the connection to the network camera.
- 8.



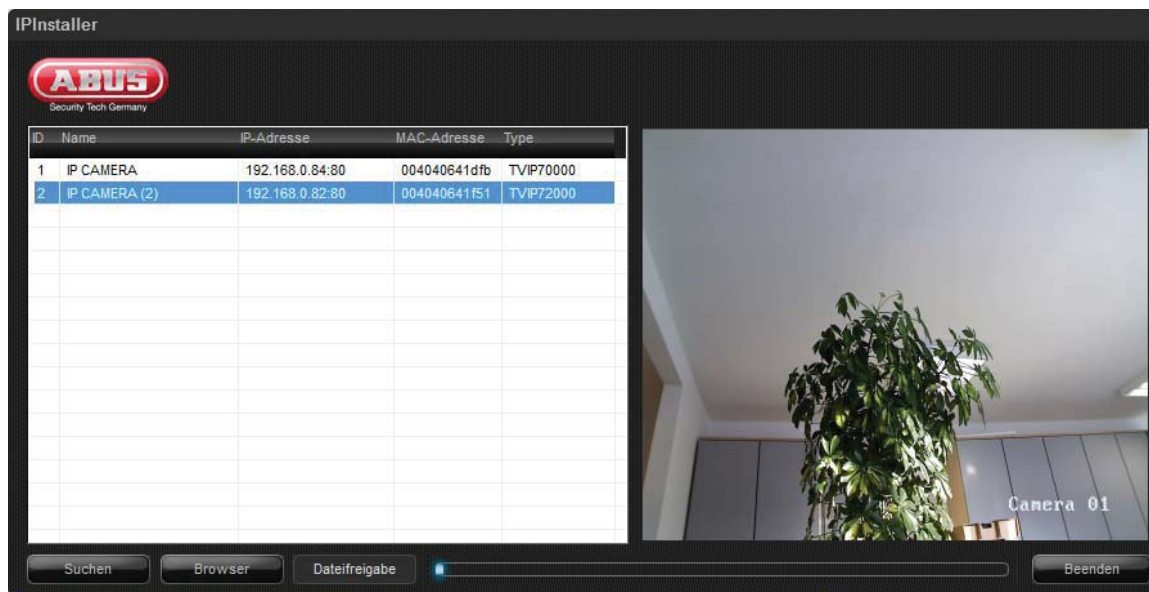
4.5 Accessing the network camera for the first time

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 IP network cameras and video servers in your network.

The program is found on the supplied 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 determines a free IP address from the 192.168.1.2–192.168.1.254 range independently. Your PC system must be located in the same IP segment in order to establish communications with the network camera.



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.

4.6 Accessing the network camera over a web browser

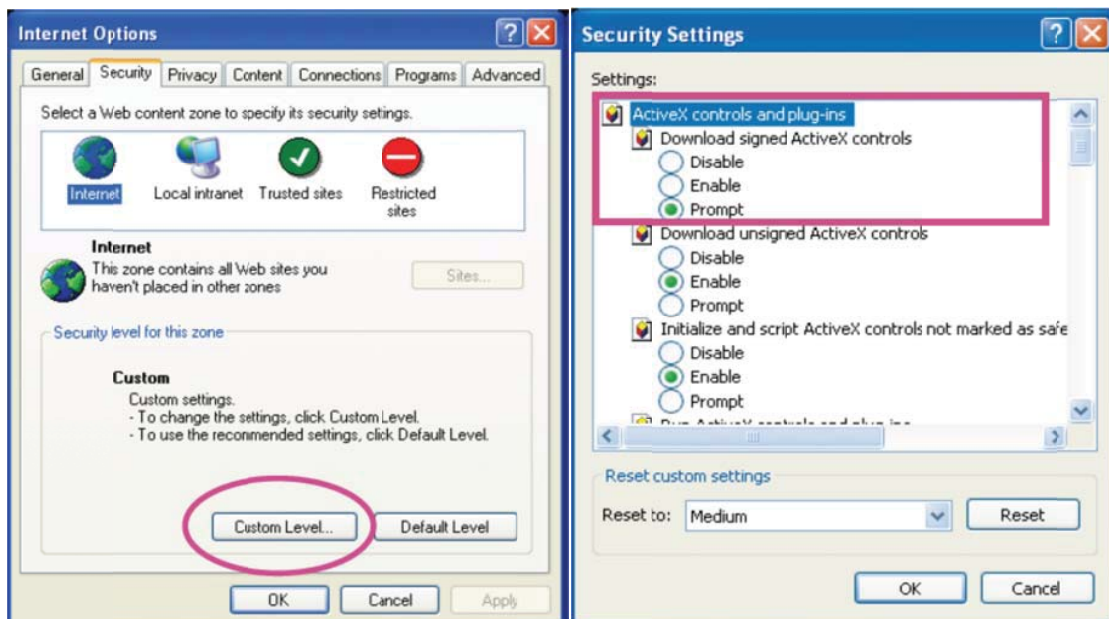
When you first access the network camera under Windows, the web browser queries the installation of an ActiveX plug-in for the network camera. This query depends on the Internet security settings of your PC. If the highest security level is set, the PC will refuse any installation and any attempt at running it. This plug-in is used for displaying the video in the browser. To continue, click "Install". If the web browser prevents the installation, open the Internet security settings and reduce the security level or consult your IT or network administrator.

4.7 Installing the ActiveX plug-in



If Mozilla Firefox is used as the browser when accessing the camera, an MJPEG stream is provided by the camera instead of the ActiveX plug-in.

4.8 Adjusting the security settings



Note: Your PC security settings may prevent a video stream. You can change the security settings to a lower level under "Tools / Internet Options / Security". Make sure you enable ActiveX controls and downloads.

4.9 Password prompt

An administrator password is defined in the network camera as standard. 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. If you can no longer access your personal settings in the administrator account, you can log in again with user name **“admin”** and password **“12345”** after resetting the network camera to the factory settings.

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

Open Internet Explorer and enter the IP address of the camera (e.g. “http://192.168.1.14”).

You are then prompted for authentication:

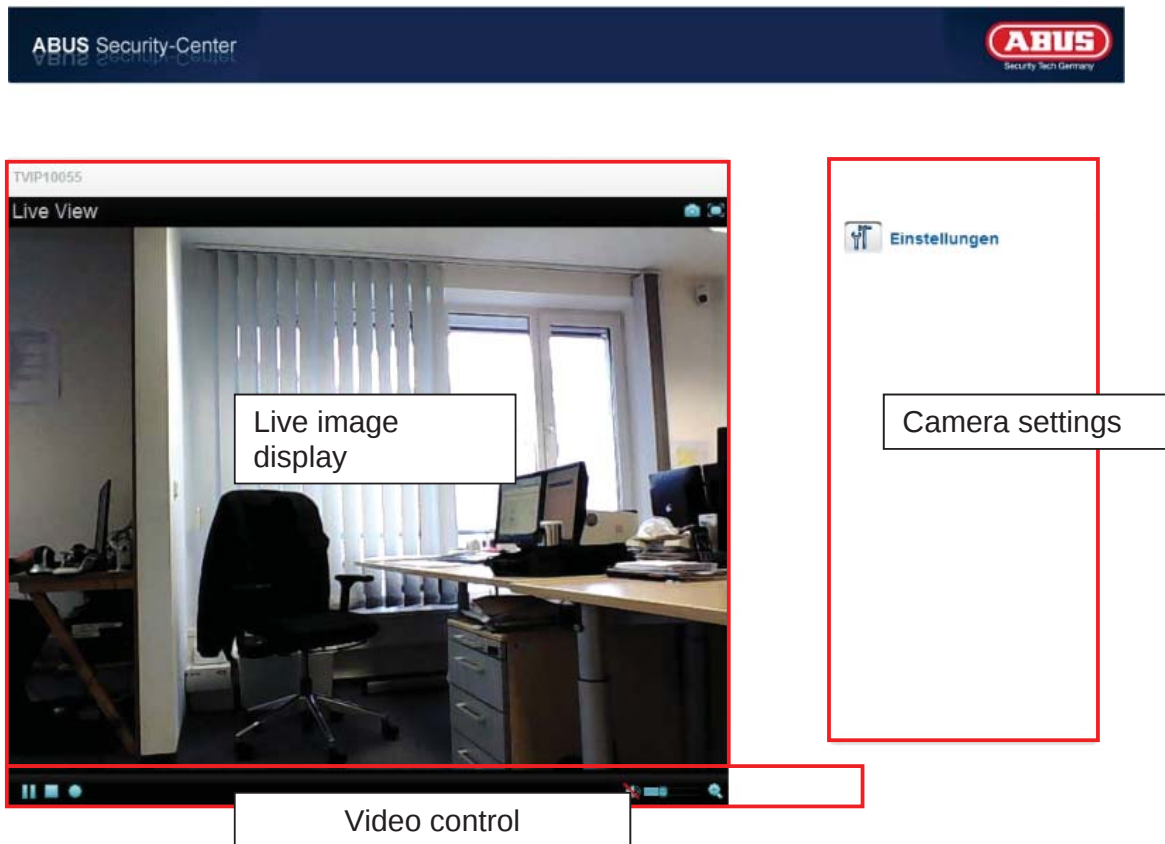


Standard user name:	admin
Standard password:	12345

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

5. User functions

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



Live image display

You can access the full-screen view by double-clicking here (with Internet Explorer only).

Camera settings



Settings (configuration)

Used to configure the camera (administrator settings)

5.1. Video control



These functions are only available when using Internet Explorer.



Snapshot

The web browser displays a new window containing the snapshot. To save the snapshot, either left-click it and then click the floppy disk icon or right-click it and select "Save" from the context menu.



Full-screen view

Activate the full-screen view. The live image on the network camera is shown on the entire screen.



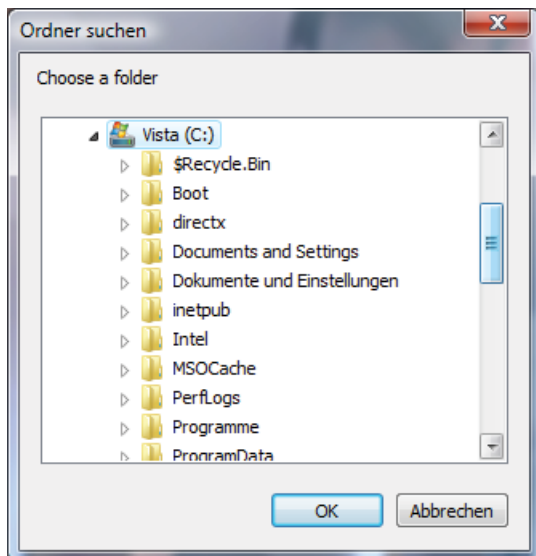
Start/stop live image display

The live stream can be stopped or ended. In both cases you can continue the live stream by pressing the play symbol.



Local recording

A recording on the local hard drive can be started or stopped. If you click the button, the Windows "Save as" dialog is called up.



Select a target directory on your hard drive. A directory and recording file are created automatically in the folder under the following name:

YYYYMMDD
YYYYMMDDHHmmss.avi
Y = Year
M = Month
D = Day
H = Hour
m = Minute
s = Second

Example:

C:\Recording\20091215\20091215143010.avi



The recorded data can be played back using an MP4-compatible video player (e.g. VLC Media Player). Alternatively, you can also watch the videos on Windows Media Player by installing a video codec in the IP Installer.



Digital zoom

Click the magnifying glass symbol to activate the digital zoom. The zoom factor can be changed on the scroll bar.



Setting the zoom factor

Change the zoom factor by moving the bar from left (low zoom) to right (high zoom).

6. Camera settings (configuration)

Only the administrator has access to the system configuration. The following sections explain each of the elements in the left-hand column. After you click a menu item on the left-hand side, a menu tree may be opened depending on the number of sub-items contained in the item. In this case, continue by clicking the sub-item.

Click “Home” to return to the main camera page.



6.1 System

▼ System

Information

Date Time

Initialize

Information

Product information:

Product name: The product name indicates the functions included (e.g. WLAN).
Current version: Shows the current version of the installed firmware.

Image settings:

Brightness: Shows current brightness value
Contrast: Shows current contrast value
Saturation: Shows current saturation value
Sharpness: Shows current sharpness value
White balance: Selected option for white balance

Network:

LAN status: Current used IP address and HTTP port
Wireless status: Information about current wireless settings (only TVIP10055B)

Information

LED: Activate or deactivate the status LED at the front side of camera.

Hostname

Camera name: This is the description of the camera inside the network. As default the item number is configured.

Date/time

Aktueller Tag/Uhrzeit: 2009-11-14 21:02:06

PC Uhr: 2009-11-14 21:02:05

Datum/Uhrzeit Format: yyyy-mm-dd hh:mm:ss

Anpassen:

- ☐ Aktuelle Einstellungen beibehalten
- ☐ Synchronisieren mit dem PC
- ☐ Manuelle Einstellung

2009 - 11 - 14

21 : 01 : 04

☒ Synchronisieren mit NTP Server

NTP Servername: de.pool.ntp.org ☐ Auto

Intervall: 1 Stunden

Zeitzone: (GMT+01:00)Amsterdam, Berlin, Bern, Rom, Stockholm, Wien

Zeitzone: ☒ An ☐ Aus

Startzeit: ☒ nach Datum ☐ nach Kalenderwoche

Marz Erster Mo 29 2 : 00

Endzeit: ☒ nach Datum ☐ nach Kalenderwoche

Oktober Erster Mo 25 3 : 00

OK Abbrechen

Current date/time:	Shows the setting for the date/time currently stored in the camera.
PC clock:	Shows the date/time on the PC from which you access the camera.
Date/time format:	Select a format (YYYY-year, MM-month, DD-day, hh-our, mm-minute, ss-second).
Adjust:	
Keep current settings:	No changes to the settings
Synchronize with the PC:	The date and time of the PC are taken over for the camera.
Manual setting:	Manually set the time and date here.
Synchronize with the NTP server:	Automatic updating of the date and time via a time server (Network Time Protocol)
NTP server name:	Enter the domain name of the time server (e.g. de.pool.ntp.org)
Auto:	When activated, the standard time server is used. Deactivate the "Auto" setting to enter the NTP server name manually.
Interval:	Updating interval with the time server in hours
Time zone:	Here you select the time zone in which the camera is located.
Daylight savings time:	Enter the dates here for the switch from daylight savings time to standard time.



Accept the settings by pressing "Save" or cancel them by pressing "Cancel".

Initializing

- Restart:** If you press the Reset button once, the camera will restart.
- Factory settings:** Pressing this button causes the factory settings of the camera to be loaded. The selection must be confirmed.
- Save settings:** Here you can save a backup file of all camera settings.
- Load settings:** Settings saved to a backup file can be loaded here.
- Update firmware:** A more current version of the camera firmware can be loaded here. Information on updated firmware files can be found in the Software section at "http://www.abus.com".

Language

- Upload language packet:** You can set a different language here by uploading a language file. The following language is standard as default:

TVIP10005B -> German
TVIP10055B -> German

The language files can be found on the supplied CD-ROM or inside the product area under www.abus.com.

6.2 Video

▼ Video

Stream Einstellungen

Bildoptimierung

Stream Settings (MJPEG)

- Resolution:** Please select between followings resolutions (Pixel):
640x480, 320x240, 160x120
- Frame rate:** Setting for frame rate in images per seconds.
- Power frequency:** Using this value the camera can be adjusted regarding different power line frequencies. In germany this value is 50 Hz as standard.



Accept the settings by pressing “SAVE” or cancel them by pressing “Cancel”.

6.3 Audio

▼ Audio

Mikrofon

- Microphon:** Activates or deactivates the internal microphone.



The audio feature can be used only in conjunction with Internet Explorer.

6.4 Network

▼ Netzwerk

Allgemeine
Einstellungen

DDNS

W-LAN

WPS

General settings

MAC address:	The hardware address of the camera is shown here.
Obtain IP address automatically:	The IP address, subnet mask, and address for the default gateway are obtained automatically from a DHCP server. An activated DHCP server must be present in the network in this case.
Use the following IP address:	Manual setting of the IP address, subnet mask, and standard router (gateway)
IP address:	Manual setting of the IP address for the IP camera
Subnet mask:	Manual setting of the subnet address for the IP camera
Standard router (gateway):	Manual setting of the standard router for the IP camera
Use the following DNS server address:	If the DNS server address is not automatically assigned by a DHCP server, it can be manually assigned here.
Primary DNS server:	First server address with which the camera attempts to convert DNS names into IP addresses.
Secondary DNS server:	Alternative server address with which the camera attempts to convert DNS names into IP addresses.
HTTP port number:	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 in the same subnetwork, then each camera should have its own unique HTTP port.

MAC Adresse

☐ IP-Adresse automatisch beziehen

☒ Folgende IP-Adresse verwenden

IP-Adresse . . .

Subnetzmaske . . .

Standard Router (Gateway) . . .

☒ Die folgende DNS-Serveradresse verwenden

Primärer DNS-Server . . .

Secundärer DNS-Server . . .

HTTP Port-Nummer ☒ 80 ☐ (1024 to 65535)

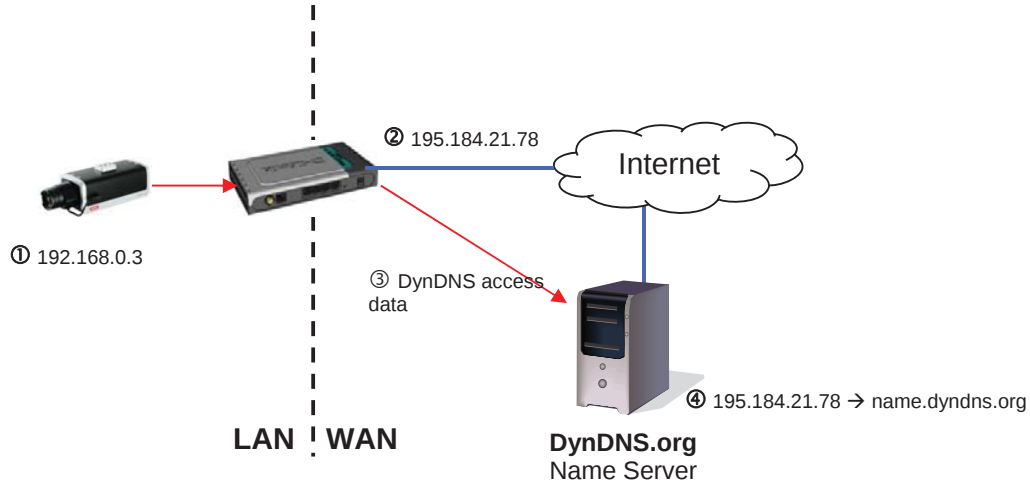


Accept the settings by pressing “SAVE” or cancel them by pressing “Cancel”. If the network configuration is changed, then the camera must be restarted (System \ Initialize \ Restart).

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.



DDNS:	Activates or deactivates the DDNS function.
Server name:	Select a DDNS service provider. You must have registered access to this DDNS service provider (e.g. www.dyndns.org).
User ID:	User ID of your DDNS account
Password:	Password of your DDNS account
Repeat password:	You need to confirm your password here.
Host name:	Enter your registered domain name (host service) here (e.g. myIPcamera.dyndns.org).

DDNS ☒ An ☐ Aus

Servername

Benutzerkennung

Passwort

Passwort wiederholen

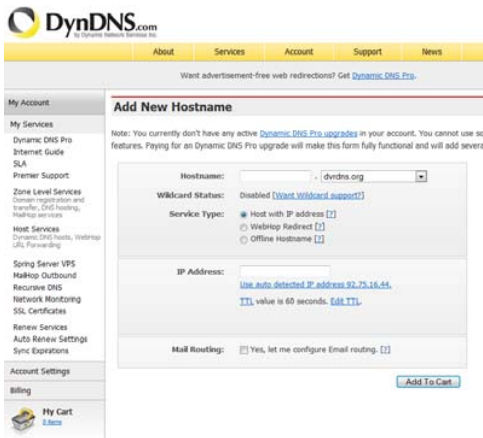
Host-Name

Setting up a DDNS account

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



Store your account information:

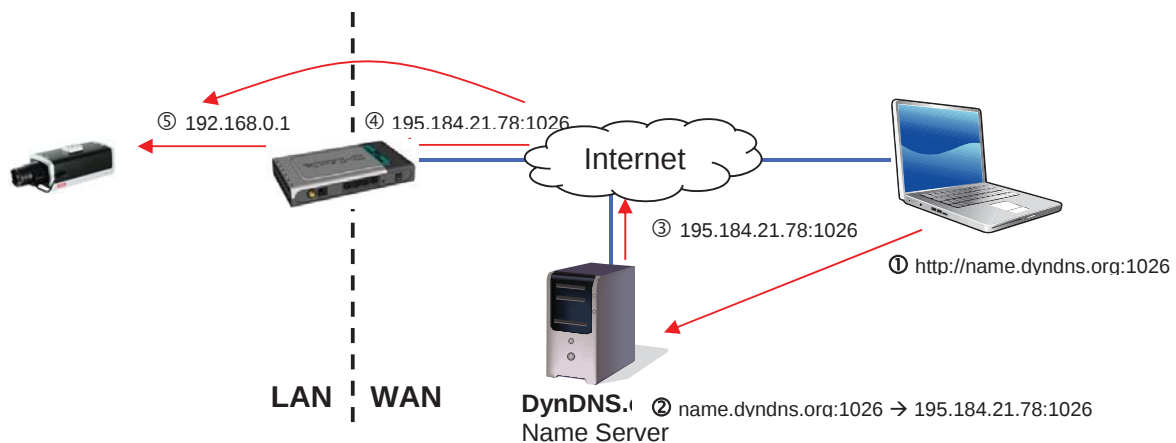


Note down your user data and enter this into the configuration of the network camera.

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.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.



Accept the settings by pressing “SAVE” or cancel them by pressing “Cancel”. If the network configuration is changed, then the camera must be restarted (System \ Initialize \ Restart).

Wireless (TVIP10055B only)

The camera features a WLAN network interface for wireless data transmission in an IP network. The network camera must be connected via a network cable for the initial configuration of all WLAN parameters.

WLAN:	Enable or disable the WLAN interface.
MAC address:	Shows the MAC address of the wireless interface.
IP address:	The set IP address is displayed here. The address can be assigned automatically (DHCP) or manually (see below).
WLAN status display:	The camera automatically searches the environment for WLAN access points (APs).
ESSID:	Shows the name of the wireless network. If a connection to an access point has been established, this is indicated by the character “v” before the ESSID name.
Signal strength:	Shows the signal quality in percent. To ensure a good connection, this value should not be below 60%.
Security:	Indicates the way in which the network is protected (encryption type).
Wireless mode:	Shows the WLAN standard that the access point (AP) supports.
Connect:	When this button is pressed, the software attempts to connect to the selected access point. Additional data important for the connection must be configured in another window (it may be necessary to disable the pop-up blocker). The IP address is automatically determined.
Disconnect:	The connection to the selected access point is disconnected.
Manual:	Manual configuration of all data required for a wireless connection.
Update:	When this button is pressed, the list of available access points is updated.
ESSID:	The ESSID is the name of the access point.
Manual setting:	Manual setting of the ESSID.
Mode:	Select the WLAN connection mode here.
Infrastructure	The network camera is connected to the network via an access point.
Ad-Hoc	In this mode, the network camera can communicate directly with another network adapter (network card). What is known as a peer-to-peer environment is set up.
Authentication:	Here you can set the encryption mode for the wireless transmission.
Open	No encryption selected.
Common key	(WEP, Wired Equivalent Privacy) A 64- or 128-bit key is used for encryption (HEX or ASCII). For communication with other equipment, these keys must be the same on both devices.
WPA-PSK/WPA2-PSK	(10/26 HEX characters or 5/13 ASCII characters according to bit length) (Wi-Fi Protected Access – Pre-Shared Keys) With this method, dynamic keys are used. TKIP (Temporal Key Integrity Protocol) or AES (Advanced Encryption Standard) can be selected as the encryption protocols. What is known as a passphrase (pre-shared key) must be assigned as the key. (64 HEX characters or 8 to 63 ASCII characters)
Encryption:	Select the corresponding type of encryption here. Common key: WEP / disabled WPA-PSK / WPA2-PSK: TKIP or AES

Key length: With WEP only. Select the bit length for the key here.
Network key: With WEP only. Up to four keys can be assigned.

Obtain IP address automatically: The IP address, subnet mask, and address for the default gateway are obtained automatically from a DHCP server. An activated DHCP server must be present in the network in this case.

Use the following IP address: Manual setting of the IP address, subnet mask, and standard router (gateway)

Use the following DNS server address: If the DNS server address is not automatically assigned by a DHCP server, it can be manually assigned here.

Primary DNS server: First server address with which the camera attempts to convert DNS names into IP addresses.

Secondary DNS server: Alternative server address with which the camera attempts to convert DNS names into IP addresses.

WLAN

WLAN Enable ▼

MAC Address 8C:11:CB:02:4B:3B

IP Address 192.168.0.49

Status of wireless networks

ESSID	Signal Strength	Security	Radio Type
▼ PMV1	62	WPA (2) -PSK/TKIP, AES	11b/g
PMV2	44	WPA (2) -PSK/TKIP, AES	11b/g

Connect Disconnect Manual Refresh



Accept the settings by pressing "SAVE" or cancel them by pressing "Cancel".

WPS (TVIP10055B only)

WPS (Wi-Fi Protected Setup) is a simple method for establishing a secure wireless network connection (WPA, WPA2). Consult the manual for your access point (e.g. router with WPS function) regarding the necessary steps for setting up the WPS function.

WPS: Enable the WPS function here if required.

MAC address: Shows the MAC address of the wireless interface.

IP address: The set IP address is displayed here. The address can be assigned automatically (DHCP) or manually (see below).

Configure via: **PBC:** Push Button Configuration – You set up a secure wireless connection by pressing the button on the access point or network camera.

PIN:

A secure wireless connection is set up in the network camera and access point through the assignment of a PIN. Press the "Generate new PIN" button to assign a new random PIN. This PIN must then be made known in the access point (WPS settings). Press "Start". The network camera and access point are then automatically connected to each other via a secure connection.

Connect: A connection is established via WPS with the selected procedure (PBC or PIN).
Disconnect: The connection is disconnected.
Update: The list of available access points supporting WPS is updated.

6.5 Security

User

This menu item describes the user administration of the network camera. Up to 10 user accounts can be defined. The user accounts can each have one of three user types.

User list: Shows all configured users with the corresponding authorization levels.

Add: Add a user account.
Edit: Edit an existing user account. Before doing this, you need to select the required user account from the list.
Delete: Delete a user account.

User types	Permissions
Administrator	Full access, including live views, configuration
Operator	Live view
Viewer	Live view

The default access data for the main administrator is as follows:

User name: "admin"

Password: "12345"

User name: Here you assign the user name that needs to be entered for access to the camera.
Password: Here you assign the user name that needs to be entered for access to the camera.
Repeat entry: Here you assign the password that the corresponding user needs to enter for access to the camera.
User type: Select an individual user type for the user ID.
Anonymous setting: Activated Anonymous setting allows any user to see the main page including video stream. All settings pages are still password protected.



Accept the settings by pressing "SAVE" or cancel them by pressing "Cancel".

7. Maintenance and cleaning

7.1 Function test

Regularly check the technical safety of the product, e.g. check the housing for damage.

If safe operation is no longer possible, cease operating the product and safeguard it against accidental operation.

Safe operation is no longer possible under the following circumstances:

- The device shows visible damage.
- The device no longer works correctly.
- The device has been stored in adverse conditions for a long period of time.
- The device has been subjected to stress during transportation.



This product is maintenance-free for you. There are no components to service or anything inside the product to check. Never open it.

7.2 Cleaning

Clean the device with a clean, dry cloth. The cloth can be dampened with lukewarm water if it gets dirty.



Ensure that liquid does not penetrate the device, as this will cause damage. Do not use any chemical cleaning products, as they could damage the surface of the housing.

8. Disposal



Devices displaying this symbol may not be disposed of as 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.

9. Technical data

Item number	TVIP10005B	TVIP10055B
Image sensor	1/4" Progressive Scan CMOS Sensor	
Camera type	Farbkamera	Farbkamera
Resolution	640x480, 320x240, 160x120	
Picture elements (total)	640x480	
Picture elements (effective)	640x480	
Lens	f=1,7 mm	
Horizontal viewing angle	67°	
Digital zoom	10x	
Image Compression	MJPEG	
Frame rate	MJPEG: 25 Images/s @ 640x480, MJPEG: 25 Images/s @ 320x240, MJPEG: 25 Images/s @ 160x120,	
Electronic-Shutter-Control	Auto	
White balance	Yes	
Gain control	0-9 dB	
Backlight compensation	BLC	
Supported Browser	Mozilla Firefox, Apple Safari, Google Chrome or Internet Explorer 6.x and higher	
Supported Software	-	
Network connector	RJ-45 Ethernet 10/100 Base-T	
Network protocols	TCP/IP, DHCP, PPPoE, ARP, ICMP, DNS, NTP, UPnP, HTTP, TCP, UDP, ABUS Server	
Wireless	-	IEEE 802.11b/g/n
Access control	IP-address filter, username, password, 3 user levels	
Power supply	5 V DC	
Current consumption	260 mA	
Working temperature	0°C ~ 35°C	
IP protection grade	IP34	
Dimensions (WxHxD)	63 x 77 x 32 mm	
Certifications	CE, RoHS, WEEE, REACH	

10. GPL license information

Here we wish to inform you that the network surveillance cameras TVIP10005B and TVIP10055B 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.

License text

The license text for the GNU General Public License can be viewed on the enclosed software CD.

Source code

The source code in use can be obtained from ABUS Security-Center upon request if you send an e-mail to license@abus-sc.com up to three years after purchase.

Executability of the overall system

The software packets (source code) do not enable you to set up a functional overall system. You also need a variety of software applications and the hardware developed for the network camera system.