

TVAC19100A



User guide

You can find important information and FAQs about this and other products on the website <u>www.abus.com/plug-and-play</u>

Version 10/2014

CE

English translation of the original German user guide. 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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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



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 device has been manufactured in compliance with international safety standards. Please read these safety advices carefully.

Safety advice

1. Mains supply

100–240 V AC, 50–60 Hz (via power adapter plug to 5 V DC) Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.

2. Overloading

Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

3. Liquids

Protect the device from any kind of liquids entering.

4. Cleaning

Disconnect the product from the wall outlet before cleaning. Use a light damp cloth (no solvents) to dust the product.

5. Accessories

Do not use any unsupported accessories as these may be hazardous or cause damage the product.

- 6. Location
 - This device can be used in inside as well as outside.
 - The product will be damaged even it falls from a low height.
 - 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.
 - Do not place the device near a radiator or heat register.
 - Setup the device only in areas with the advised operating temperatures of -10 °C ~ 50 °C.

7. Wireless transmission

The range of wireless transmission depends on various environmental factors. The local conditions at the installation location can have a negative impact on the range. For this reason, if there is a clear line of sight between the receiver and the transmitter, the range can be as much as 200 m, but in buildings it is significantly less.

The following environmental factors impair both the range and the frame rate:

Mobile phone masts, high-tension electricity pylons, power lines, ceiling and walls, devices with the same or similar radio frequency.

Warnings

Follow all safety and operating advises before starting-up the device!

- 1. Follow these directions in order to avoid damage of the power cord or plug:
 - Do not modify or process the power cord or plug arbitrarily.
 - Make sure to disconnect the power cord holding the plug.
 - Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
 - The outdoor camera's power supply unit must be protected against humidity and damp.
- 2. Follow these directions. Failure to follow any of them may cause electrical shock:
 - Do not open the main body or the power supply.
 - Do not insert metal or inflammable objects inside the product.
 - In order to avoid any damage during lighting use a surge protection.
- 3. Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.



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 must not be directed into the sun as this can destroy the sensor.
- the camera may not be installed on unstable surfaces

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 day/night PnP IP camera enables high quality surveillance. This camera is designed for indoor and outdoor installation. The integrated infrared LEDs enable day and night surveillance for objects up to a maximum distance of 5 metres.

Thanks to its protection class IP66 it can used both inside and outside.

The easy configuration and operation via app enable access to the camera from all over the world.

For a detailed description of functions, refer to Section 3, "Features and functions".

2. Scope of delivery



Wi-Fi outdoor camera & app





Power supply unit including EU, Australian and UK adapters 5 V DC/1.5 A



LAN adapter cable



Camera mount including mounting material

3. Features and functions

- Compact IP66 outdoor camera with infrared night vision function
- 720p resolution, 3.6 mm fixed lens
- Recording on micro SD card

4. Device description

4.1 Overview

Item number	TVAC19100A
Resolution	720p
IR LEDs	\checkmark
IR swivel filter (ICR)	\checkmark
Operating voltage	5 V DC

4.2 Camera description

Front:



(1)	Antenna
2	Status LED
3	Fixed lens
4	IR LED
5	Camera mount
6	PIR sensor
\bigcirc	Power LED

Rear:



5. Installation

5.1 Camera mounting

Use the camera mount to help you find a suitable place for installation. Mark the drill holes on the surface and drill the holes. Insert the wall plugs supplied before you attach the bracket with the screws.



You can also swivel the mount by 90° into a particular position. First loosen the screw on the side and set the required angle. Then tighten the screw to secure the required position.



Finally, screw the camera onto the mount and connect the power supply unit with the camera.



Mounting options



6. Operating and configuring via app

The TVAC19100 Wi-Fi outdoor camera & app gives you the option of switching to live on the cameras and to configure the recorder. The app for this device can be found in the App Store under the name of "App2Cam".

To configure access to the camera, proceed as follows:

1	"TVAC19000" app		
	ARUS	Download the "App2Cam" app and install it on your smartphone. Make sure that your smartphone or tablet has internet access.	
		You have two options to connect the camera to the network: <u>Option 1:</u> Connect the LAN adapter cable provided to the camera. Connect the cable to your router in the next step. Then connect the power supply unit provided. While the camera is starting up, the two LEDs on the camera flash. Begin setting up the camera once the two LEDs are lit up permanently. This can take about 60 seconds. Following this you can proceed with the setup at point ②.	







Firmware information / PIN code / Notify setting

Here you can see the current firmware version of the system and save a PIN code. You can find out how to enter a PIN code at 2.

(5) Saving the PIN code



If you want to save a PIN code for this app, proceed as follows:

1. Open the "Setup PIN Lock" at U



- 2. Enter a 4-digit PIN code and repeat it.
- 3. Put a tick at "Enable lock when starting".

When you have saved a PIN code, it will be requested when you want to open the app.





Select the required camera from the selection list. Now you see the live view of the camera. The picture is shown in the 4:3 mode. To view a 16:9 format, turn your mobile end device 90°.



Snapshot

Here you have the option of making a screenshot of your live image. The image is then saved in your photos on your mobile device.

The pictures saved are stamped with the date and time and saved in the photo gallery.



Audio

You have the option of activating or deactivating the audio here.



Starting the recording

Here you can start a manual recording; the recording time is one minute. The recording is saved locally on the SD card and the following

icon • appears in the live view. The recording runs for 1 minute automatically and cannot be interrupted.



Back

You can return to the camera overview here. The last screenshot is always shown.





You can configure the camera at settings.

Admin password

The Admin password must be entered to add the camera and to go to the settings. The standard password is "123456".

Change this at the initial installation to protect your camera from unauthorised access.



If you have forgotten your password you can reset the camera to the factory settings by pressing the reset button for 5 seconds. The red LED starts to flash. The camera must then be reinstalled.

Time zone

The world time zones are shown in the selection list. Select the time zone in which the camera is installed. Activate daylight saving if summertime applies to the world time zone.

Daylight saving

Activate/deactivate daylight saving time.

Device security code

The standard security code is: 12345678 For reasons of security, change this code and enter a new one (max. 8 digits). Enter the code again to confirm. Then confirm with "OK".

You will need the security code later if you want to access the cameras via the app.



If you have forgotten your security code, you can reset the camera to the factory settings by pressing the reset button for 5 seconds. The camera must then be reinstalled.

9 Video setting



The video settings allow you to adjust the video quality and ambient conditions for the camera.

Video quality

The video quality setting allows you to select the quality for video streaming.

Better streaming:

The video display is smoother.

Better picture:

The video picture is displayed with a higher resolution.

HD video:

The video picture is transmitted in HD resolution. The picture can still be shown delayed due to the large data volume.



Only use the setting for improved picture with sufficient bandwidth (1 Mbps) and adequate system requirements.



Please note that, due to the different forms of transmission technology that audio and video use, different network load levels may be present and transmission may take place asynchronously as a result.

Environment mode

You can make the settings for the network frequency and the ambient conditions here. Standard value for Germany: 50 Hz

You can choose between indoors (50 Hz), indoors (60 Hz) and outdoors.

Indoor:

Settings for the light conditions indoors

Outdoors:

Settings for the light conditions outdoors

Low light enhancement

Adjusting the video picture for poor light conditions in night mode. You can choose between 5 levels, whereby level 5 brightens the picture the most.

Image orientation

Here you have the option to rotate the image or display it in mirror reverse.

Flip:

The image is rotated 180 degrees.

Reverse:

The image is displayed in mirror reverse.

	Flip & reverse: The image is rotated 180 degrees and displayed in mirror reverse.
Advanced Settings WiFi Setting SSID: PMV3 Manage WiFi network Refresh WiFi network	WiFi Setting In the Wi-Fi settings you can select the network to be used for the internet access by the camera. When selecting the menu item, all the networks located in the
WFI setting will take effect after leaving adv. setting. Sensitivity Setting Detect Mode: CFF Email Setting	area are shown. Select your network and enter your own Wi- Fi password.
Set email SDCard Setting Format SDCard Format SDCard Format SDCard Overwrite SDCard	network by encryption with WPA/WPA2/WPA2-PSK. Once the settings are saved, the camera starts up again. Do not forget to disconnect the Ethernet adapter cable (if used during the initial setup)
	If the connection was not successful or incorrect Wi-Fi information was entered, press the reset button for 5 seconds to restore the camera to the factory settings.

(1) Motion detection



The settings for motion detection are required for e-mail notification or push notification as well as for motion-controlled recording.

Detect mode

Here you can select which mode should be used for the notifications.

You can choose between Off, PIR or Software.

Off:

No notifications are sent or recordings made if motion is detected.

PIR:

The motion detection occurs via the PIR sensor.

Software:

The motion detection occurs via the camera software.

Motion detection

You can make the settings for the motion sensitivity here. You can choose between "Low" and "High".

Off:

No notifications are sent or recordings made if motion is detected.

Low:

Motion detection with low sensitivity.

High: Motion detection with high sensitivity.



The setting for sensitivity is only used in the Software mode.



Advanced Settings	
Detect Mode: OFF	\checkmark
Email Setting	
Set	email
SDCard Setting	
Format	t SDCard RASE all data of SDCard.
✓ Overwrite SDCard	
Profile Setting:	
Save	Load
Device Information	
Version:	0.9.4.20
Total size:	940 MB
Free size:	88 MB
	<

E-mail setting

The e-mail settings are required for sending a notification.

Use SSL:

Tick the box to transfer the e-mail as encrypted. You receive the required settings from your e-mail provider.

SMTP server:

Enter the SMTP server address here. e.g. smtp.test.com

SMTP port:

Enter the SMTP port here. e.g. 465

Username:

Enter the sender's e-mail address here. e.g. <u>xxx@test.com</u>

Password: Enter the password for the sender's e-mail address here.

Receiver: Enter the recipient's e-mail address here. e.g. <u>xxxx123@test.com</u>



We recommend using "googlemail" for sending e-mails.

Format SDCard

Format the SD card. For the permanent use of an SD card, please use a Class 10 SD card.



All the data is deleted when the SD card is formatted. Please make sure you save the data before formatting.

Overwrite SDCard

This function offers an overwrite function when the SD card is full. As soon as the SD card is full, the system begins to overwrite the oldest data.

This ensures that all the current data is recorded.



Format the SD card from time to time to avoid the card from damage.

Profile setting

This function enables you to transfer settings you have already made to other cameras. You can choose between "Load" and "Save".

For a new IP camera, you only need to load the profile settings here.

The following settings are saved: time zone, video settings, motion detection settings, e-mail settings, cyclical storage settings

	Advanced Spettings: Email Setting SDCard Setting SDCard Setting Format SDCard Profile Setting: Save Load Device Information Version: 0.9.4.20 Total size: .940 MB Free size: .88 MB	Device information Here you can find information about your camera. Version: Camera firmware. Total size: Displays the overall size of the SD card Free space: Displays the available storage space.
1	Removing the system Image: System in the image: Sys	Removing the system After pressing the icon, a new window appears to ask you whether you really want to delete the system. If you want to remove the system, press "Yes" to confirm or "No" to cancel.

12	Access to the recordings		
	2014/07/21 13.54.16.	Access to the recordings	
	2014-07-21 13:49:54	Here you can view the recordings for the required camera on your smartphone. Select the recording you want and it starts immediately.	
		Press $\textcircled{0}$ to pause the recording and press the \leq button to go back to the event list.	
		You can activate or deactivate the audio with 🔽.	
		To save a file on your smartphone, press on the recording until a window appears to confirm.	
	ABUS P/T(COCX 00041-E28PH) 2014/0721 08/00-2014/0721 14/02	While it is downloading, the live view and recording function are not possible. Other users will be refused access if they try to access the camera.	
		Deleting recordings	
		Select "Delete All" to delete the complete event list. A new window appears to ask you whether you really want to delete all the events. If you want to delete the events, press "Yes" to confirm or "No" to cancel.	
		To delete an individual file, select "Delete One" and then click on the particular file. Confirm the process.	
		Filtering the event list	
		You have the option of filtering the recordings according to	
		certain preferences. To do this, press the Symbol or "Search".	
	Select event filter Shrt Time: 2014-07-21 19-44 Step Time: 2014-07-21 20-44 Cancel CK	A window appears with various search options. You can search using the start and end dates and times. Click "Search" to see the required events.	
	ABUS Gudeov(CHCC0007514WBMM)		

7. Maintenance and cleaning

7.1 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.

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 maintenance free for you. Inside the product are no parts that can be checked or repaired, so do not ever open it.

7.2 Cleaning

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



Make sure that no liquids can enter the equipment as the device can be destroyed. Never use chemical detergents as they could attack the surface of the device

8. Disposal



9. Tips for troubleshooting

No.	Questions	Answers
1	The camera has not been found.	 Check the following points: Make sure that your network supports DHCP. Are the mobile device and the camera in the same network? Make sure that both devices are in the same network at the initial configuration. The router has no power supply. The camera has no power supply. Try to add the camera by entering the data manually.
2	Your Wi-Fi is not shown in the selection list in the camera app.	 If your personal Wi-Fi is not shown in the selection list, check the following: 1. Make sure that the SSID of your router is visible. 2. Change the encryption type of your router to WPA/WPA2/WPA2-PSK.
3	No picture is displayed.	 Check the following points: 1. Is the camera plugged in and switched on? Make sure that the power supply unit is not defective and that the power supply is connected. 2. Is the camera installed in the surrounding area of the the network? 3. Make sure that the camera is correctly configured. 4. Make sure that your mobile end device is in the network or in the 3G network.
4	Low network signal or poor picture quality	 Possible reasons are: 1. Wi-Fi network devices can impair the signal transmission. Make sure there is enough distance between the camera and other Wi-Fi devices. 2. Remove any dirt from the camera. This can badly affect the picture quality.
5	What could be the reasons why the device does not record when there is movement?	 Possible reasons are: 1. Is the SD card inserted properly? 2. Is the motion detection activated? 3. Format the SD card before using for the first time. 4. Make sure that you use a Class 10 SD card.
6	The camera picture is obscured (white patches on the image).	The camera is equipped with IR LEDs for the night mode. The IR light is reflected on surfaces, such as glass. Do not position the camera in front of glass surfaces and ensure that it is installed in protected outdoor areas.
7	What could be the reasons for an SD card fault?	 Please check the following: 1. Make sure that the SD card was inserted and formatted correctly. Save important data before the formatting, as afterwards it will be no longer available. 2. Make sure that you only use one Class 10 SD card.
8	The display for the time and date is not correct.	 Possible reasons are: 1. Are the date and time settings on your mobile end device correct? 2. Is the correct time zone selected? 3. The system takes the time from the internet as soon as it is connected. Make sure that the camera is connected to the internet.

10. Technical data

Model number	TVAC19100A	
Wireless standard	IEEE 802.11 b/g/n	
Network connection	Ethernet (10/100 Base-T/Base-TX); Wi-Fi	
Network protocols	TVP/IP, UDP, SMTP, NTP, DHCP, ARP	
Simultaneous users	3 simultaneous accesses	
Security	WPA/WPA2/WPA2-PSK (TKIP, 128 bit AES)	
Image sensor	MP CMOS	
Focal length	2,8 mm	
Angle of view	H: 50°±3° / V: 30°±3°	
Antenna	3 dBi Dipol	
Housing material	Waterproof metal	
Protection class	IP66	
Lighting conditions adjustment	Indoor (50 Hz), indoor (60 Hz), outdoor	
Minimum Illumination	1–8 Lux	
Number of IR LEDs	6 IR Power LEDs	
Range of night vision function	approx. 5 m	
Image compression	H.264	
Resolution	HD 1280 x 720 incl. audio	
	VGA @ 20 fps / VGA @ 25 fps /	
Frame rate	720p @ 5 fps / 720p @ 10 fps	
Recording	720p @ 5/ 10/ 20 fps (max.) incl. audio	
Power supply	5 V DC / 1.5 A	
Operating temperature	-10 °C – 50 °C	
Dimensions (H x W x L)	134 mm x 67 mm x 48 mm (without mount)	
Weight	300 g	

Storage capacity

Storage capacity	HD / Improved picture	Improved streaming
4 GB	150 events	180 events
8 GB	300 events	360 events
16 GB	600 events	720 events
32 GB	1,200 events	1,440 events