TVVR11000

User Manual

Original English user manual. Keep for future use.

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 (www.abus-sc.com).

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!

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

Safety advice

1. Mains supply
   90 - 250V AC 50/60Hz
   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
   Setup the device only in dry and dust-protected rooms. 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. Ventilation
   The slots on top of the product must be left uncovered to allow proper airflow into the unit. Do not stand the product on soft furnishings or carpets. Do not stack electronic equipments on top of the product.

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

7. Location
   Setup the device only in dry and dust-protected rooms. Protect the device from any kind of liquids entering. Do not place the device near a radiator or heat register. Setup the device only in areas with the advised operating temperatures of -10° ~ 60°C.

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.
    - Do not bend or twist the power cord.
    - 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.

2. Follow these directions. Failure to follow any of them may cause electrical shock:
    - Do not open the main body.
      Disconnect the product from the mains before you start.
    - 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.

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.

Table of contents

1. Intended use

Thanks to its 3 hour battery operation, the ABUS camcorder can be used for mobile surveillance as well as for recording sport and leisure activities. Moreover, the camcorder can also be used in water with the waterproof housing supplied. This compact housing contains a full HD camera with a wide-angle lens and a recorder for real-time recording in full resolution (1080p @ 30 fps). The recording runs permanently or begins when noise is detected. The picture data is stored on a normal micro SD card and can be played on any PC due to the standard AVI format.

A detailed function description can be found in chapter 3 on "Features and functions".

⚠️ Data storage is subject to national data protection guidelines. During installation, inform your customers of the existence of these guidelines.

2. Scope of delivery

1x	Camcorder		1x	USB cable
1x	Waterproof housing		1x	AV cable
1x	Remote control		1x	Strap
1x	Clip for camera		1x	Allen key for housing
1x	Clip for waterproof housing		1x	Velcro fastener
1x	Clip for remote control		1x	Belt
1x	Belt attachment for waterproof housing		1x	Manual

3. Features and functions

- Integrated high resolution 1080p camera
- Real-time recording with 1920x1080 pixels @ 30 fps
- Up to 3 hours permanent recording
- Recording in various resolutions with or without sound
- Easy playback on the PC or television due to HDMI and AVI output
- Supports micro SD cards (max. 32GB)
- Display with OSD menu
- Includes remote control for starting the recording or taking a photo up to 5 metres
- Waterproof up to 20 metres thanks to housing
- 170° wide-angle lens
- 3.0, 5.0 or 8.0 megapixel photo function

4. Charging the battery

To charge the built-in battery, connect the camcorder to a PC or notebook with the USB cable supplied. You can also use other standard 5 V DC USB charging devices. When the battery is completely discharged, the charging time will take approx. 4 hours.

USB
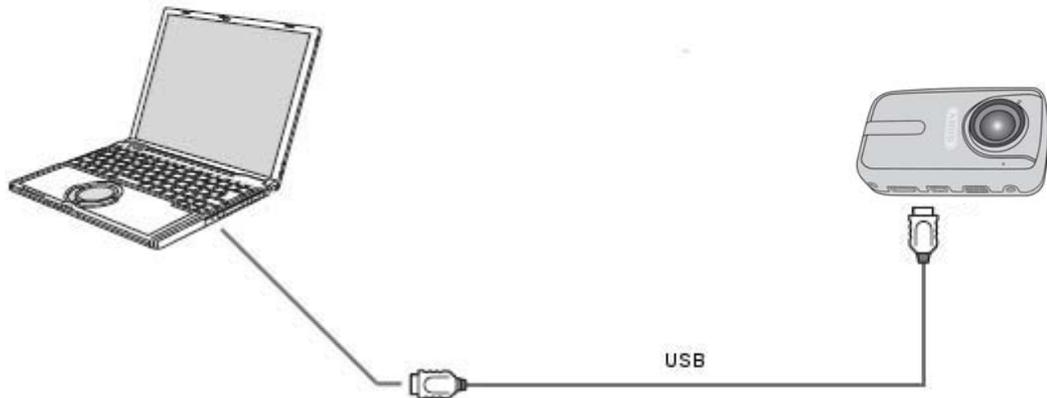
The camcorder can record for approx. 3 hours once it is fully charged.

5. Product overview
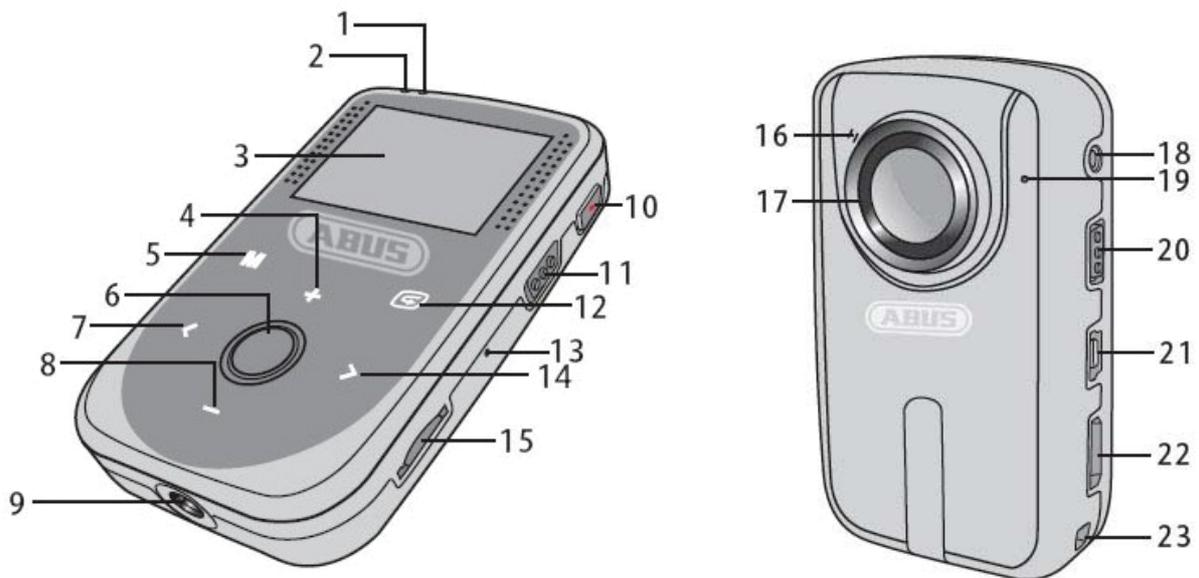
1	Video status indicator* (green)		12	To navigate back / archive
2	Power status indicator* (red)		13	Reset
3	Display		14	To navigate to the right
4	To navigate up / zoom in / to increase sound		15	Micro SD card slot
5	Menu button		16	Camera trigger status
6	OK/photo trigger / key lock		17	Camera lens
7	To navigate to the left		18	AV output
8	To navigate up / zoom out / to decrease sound		19	Microphone
			20	On / Off switch
9	Thread for stand		21	Mini USB connection
10	To start / stop video recording		22	HDMI output
11	VOX active / deactive		23	Eyelet for hand strap

Note:
- Throughout the manual, the buttons are given a number* (such as *4, *5, *14) which serve to assist you and refer to the key (5. Product overview).

5.1 LED evaluation

The different colours of the LED*1*2 have the following meanings:

LED colour	Status	Description
Red	Red -> off	Off or standby mode
	Permanently on	Camcorder is ready
	Flashes	Camcorder is charging
Green	Green -> off	Camcorder is not recording
	Flashes	Camcorder is recording

5.2 Manual video recording

Once the camcorder has been switched on, press the video recording button *10 to start recording. The green status LED now begins to flash. Press button *10 once again to stop recording.

Note:
- Never remove the micro SD card while recording. The current recording will be damaged and then cannot be played.
- Depending on the setting, once the micro SD card's recording capacity has been reached, the ring buffer begins or the recording stops. The camcorder also shows the "Memory Full" message and a SD card symbol appears at the bottom right of your display.

5.3 Recording with noise detection

After switching on the camcorder, activate the noise detection by pushing the VOX*11 switch from OFF to ON.
The camcorder records automatically for 2 minutes after detecting a single noise above 65dB. If the noise level of a minimum of 65dB is exceeded again while recording, the length of the recording is extended. If the recording is not triggered again within 2 minutes, the camcorder switches to standby mode and starts the next recording automatically as soon as the noise detection is triggered again.

5.4 Audio recording

To be able to start pure audio recording, you must change the recording mode ("Capture Mode") in the OSD menu and follow the steps as for the manual recording. To familiarize yourself with the OSD menu, read through chapter 8 on "OSD menu settings".

5.5 Key lock

To activate the key lock, press and hold down button *6 "Key Lock / OK" for 4 seconds. After a short signal (touch key lights up), the key lock for *4*5*7*8*12*14 is activated. To deactivate this again, repeat the procedure.

5.6 Resetting the hardware

If the product you have purchased has frozen and no longer responds to the commands, then press the reset button *13. To press this, use a thin, but not pointed object such as a paper clip, to get to the reset button *13. This is located at the side of the device and marked Reset. Press this for about 5 seconds.

6. Remote control

Start recording

Photo trigger

Stop recording
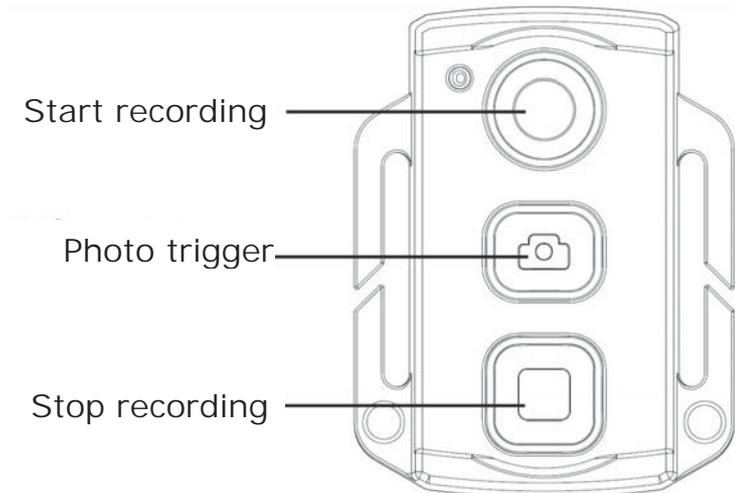
To train a remote control for a camcorder, follow the following steps:

1. Switch off the TVVR11000 camcorder and hold down the OK button *6. Switch on the device by holding down the button. Once the device has started, release the OK button.
2. On the remote control, press the Start recording and Stop recording buttons at the same time for 4 seconds to finish the training.

Note:
- The distance between the remote control and camcorder can be approx. 5 metres depending on the surroundings.

7. Using accessories

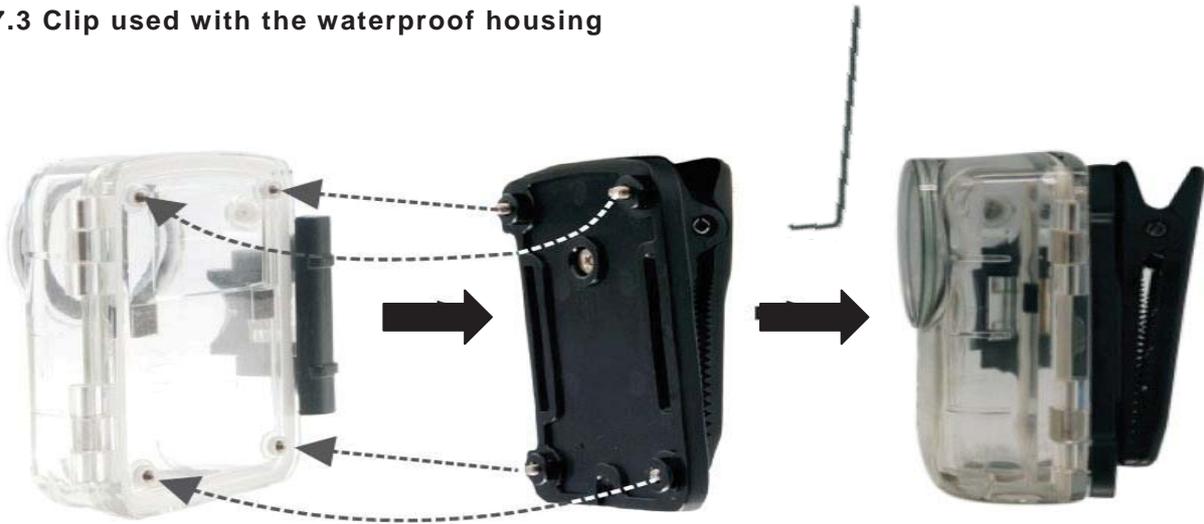The camcorder can be attached to a person or an object using various clips or holders.

7.1 Clip holder for camera

TVVR11000   Clip   Ready-to-go clip

7.2 Waterproof housing

TVVR11000   Waterproof housing   Ready-to-go

7.3 Clip used with the waterproof housing

Tipp:
- The clip can be rotated for mounting. You need to do this to get at the screws.

8. OSD menu settings

8.1 Inserting the micro SD card and switching on the camcorder

Insert your micro SD card in slot *15 intended for this purpose.

To switch on the camcorder, push POWER switch *20 from OFF to ON. After a short time you hear a signal tone and the red status LED lights up.

Note:
- You can navigate using the *4*7*8*14 buttons. Confirm with button *6 and exit by pressing button *5.

8.2 Basic settings

To make basic settings, use the Menu button *5. If you press this you will find all the settings for the camcorder. Press the navigation button Right *14 to get to the camera settings. Press the navigation button Right *14 once again to reach the setup settings. There is another sign to indicate that you are in the setup settings in the top right corner of the screen.

Example for setting the time and date:
- To set this correctly, press the navigation button Down *8 until you see the Date/Time marked in blue. Press button *6 to confirm. Use the navigation buttons *4*7*8*14 and button *6 to confirm for setting the time and date. Press menu button *5 twice to exit the menu.

Note:
- All OSD menu explanations refer to the factory settings of the device. The OSD menu default language is English.

You can change the following menu items here:

Menu item	Explanation
Beep	Button sound on or off.
Time Display	Select whether the time/date appears in the recordings.
Loop Record	Ring buffer on or off (i.e. when the SD card is full, the device overwrites the oldest data).
AutoStandby	Automatic standby function between 2.5 and 10 minutes or no automatic standby.
TV standard	TV standard the recording should be in. (PAL is used in Europe / NTSC in USA).
Format	To format your micro SD card.
Default	The device is restored to the factory settings or delivery status.
Language	The menu can be set in 7 different languages here.
Frequency	To decide between 50 and 60 Hz to prevent flickering in the preview.
Date / Time	To set the data and the time.

8.3 Photo camera settings 📷

Menu item	Explanation
Single Shot	If this option is activated, the device takes a single photo.
Tripple Shot	If this option is activated, the camera takes 3 photos when triggered once.
Continuous	Here the device takes a photo every x seconds. The number of seconds is also set here.
Self Shot	Only one photo is taken after the set seconds have elapsed.
Resolution	The resolution is set: 3M = 2048 x 1536, 5M = 2592 x 1944, 8M = 3200 x 2400.

8.4 Video camera settings 🎥

Menu item	Explanation
Resolution	Here you can decide between various recording resolutions.
Bitrate	Here you can decide between a 6 or 12 Mbit-rate. However, to achieve higher quality you should select the 12M option.
Capture Mode	You can select the recording type at this item. You have the option of audio recording only or video and audio recording.

9. Transferring data to media

To do this, connect the product to your notebook or computer using the USB cable supplied. Then switch on the device with switch *20.
After a few seconds, your computer/laptop detects the camcorder and declares it as its own drive.

SD card (2GB in example)   Internal camcorder-memory

Films and photos are located in this example at MEDIA (E:)/DCIM/100MEDIA.

10. Displaying films and photos on playback devices

You have several options to display your videos and photos.
- Mini HDMI cable
  The mini HDMI cable enables you to display videos and photos in full HD resolution on a television or a similar device which supports this resolution.

- AV cable
  The AV cable enables you to display both videos and photos and connect to various devices. The AV input is used commonly and very flexible, even in older televisions.

  Note:
  ▪ The mini HDMI cable is not supplied as part of this product.

11. Technical specifications

TVVR11000 camcorder	
Operating mode	Standalone
Recording resolution	1080p/960p/720p/WVGA @ 30/60fps
Storage medium	Micro SD card (max. 32 GB)
Recording modes	Photos, permanent, noise detection (from 65 dB)
Audio	integrated microphone / loudspeaker
Image sensor	CMOS
Camera type	Colour camera
Resolution	3/5/8 MPx
Pixels (total)	3200 x 1900
Pixels (effective)	2592 x 1944
Lens	F2.8
White balance	Automatic
Gain control	Automatic
Backlight compensation	Automatic
Battery operation	3 hours permanent recording
Power supply	3.7 V DC
Power consumption	350 mA
Operating temperature	-10°c to 60°c
Humidity	15% to 85%
Dimensions (W x H x D)	85 x 50 x 23 mm
Weight	81g

TVVR11000 remote control	
Wireless frequency	433 MHz
Protection class	IP 64
Operating temperature	-10°C to 60°C
Humidity	15% to 80%
Dimensions (W x H x D)	25 x 31 x 16 mm
Weight	26.5g

12. 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.