



TVAC100013



User manual

Version 06/2018



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

Safety advice

1. Mains supply
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 equipment 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 $-10^{\circ} \sim +40^{\circ}\text{C}$.

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 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.

LCD Screen

- Heavy pressure can destroy the LCD screen.
- Using the system in a cold environment can cause display errors. This is not a malfunction and the LCD screen will work normal again when the environment temperature increases.
- Despite high standards of quality during manufacture, black or light spots could appear on the screen in places, possibly for a long time. Such spots are normal with LED screens and do not mean there is a malfunction. Furthermore, after switching off, a distorted picture may still be seen for several seconds afterwards.

	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 a 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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Table of contents

1. Intended use	6
2. Scope of delivery	6
3. Features and functions	6
4. Physical descriptions	7
5. Mounting	8
5.1 Power supply	8
5.2 Ventilation	8
5.3 Wall Mount	8
6. Button description	9
7. Selecting the input signal	10
8. On-screen menu	10
8.1 Picture / Color	11
8.2 Position	11
8.3 Audio	11
8.4 Function	12
9. Maintenance and cleaning	13
9.1 Maintenance	13
9.2 Cleaning	13
10. Disposal	13

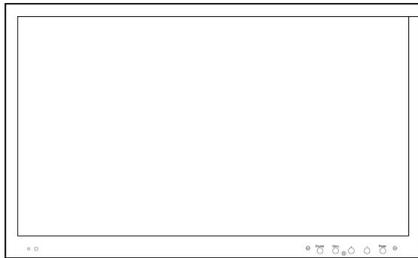
1. Intended use

The 19,5" LED monitor displays FHD (1920x1080p) pictures in 16:9 formats. Thanks to its different connections, it can be connected flexibly to ABUS DVR, NVR, computers and directly to surveillance camera at the same time. Integrated loudspeaker and audio inputs also allow soundtracks to be played.

To fix it to a wall or ceiling, VESA standard mounts can be used.

A detailed description of all functions can be found in chapter „3 Features and functions“.

2. Scope of delivery



Monitor



Power supply unit incl. EU
and UK cold device cable



HDMI cable



Remote control

3. Features and functions

- Higher contrast and improved color display thanks to LED backlighting
- Suitable for continuous operation
- Easy to install on the wall or ceiling with VESA standard mounts (VESA 100 x 100 mm)
- Versatile connection options
- Low energy consumption due to energy saving LED display

4. Physical descriptions

1	Power supply	DC 12V / 3 A, Only use the power supply unit provided for operating the monitor!
2	Audio in BNC	Audio input 3.5mm , linked with BNC inputs
3	Audio in PC	Audio input 3.5mm , linked with VGA input
4	BNC out (AHD/TVI/CVI)	BNC Video out, parallel out of AHD/TVI/CVI input signal
5	BNC in (AHD/TVI/CVI)	BNC Video input for AHD (max. 5MPx) / TVI (max.4MPx) and CVI (max.3MPx) signals
6	BNC out (CVBS)	BNC Video out, parallel out of CVBS signal
7	BNC in (CVBS)	BNC Video input for CVBS signals (PAL/NTSC)
8	VGA IN	VGA input
9	HDMI IN	HDMI input

5. Mounting

5.1 Power supply

Before starting installation, ensure that the power supply voltage and the rated voltage on the power supply unit are identical.

5.2 Ventilation

Please provide sufficient ventilation. The cooling openings may not be covered for sufficient ventilation.

5.3 Wall Mount

For mounting the monitor at a wall please use a VESA compatible wall mount. At the backside of the monitor there are squarely arranged assembly holes (Middle distance 100 mm). These are compatible with the ABUS TVAC10500 wall mount.

Please also pay attention to the installation manual of the wall mount.



During the mounting of the TFT monitor it must be separated from the mains voltage.

6. Button description

Button	Description
SOURCE	Select one of the different input signals: <ul style="list-style-type: none">• VGA• HDMI• AHD/TVI/CVI• CVBS Open/Choice in the OSD menu
MENU	<ul style="list-style-type: none">• Show the OSD (on-screen display)• Back/End a menu in the OSD
	<ul style="list-style-type: none">• Decrease the volume during operation• Decrease the value in the OSD• Confirmation of the input-signal
	<ul style="list-style-type: none">• Increase the volume during operation• Increase the volume during operation• Conformation of the input signal
	<ul style="list-style-type: none">• In the menu: switch between main menu items
	<ul style="list-style-type: none">• In the menu: switch between main menu items
	<ul style="list-style-type: none">• Switches monitor on or off

7. Selecting the input signal

To select the input signal, press the SOURCE button.
The selected input will be displayed on the upper right of the screen.
Press the SOURCE button repeatedly until you reach the required input and confirm with ► or ◀ button.

You have the choice of HDMI, VGA, ADH/CVI/TVI or CVBS

8. On-screen menu

To call up the on-screen display, please press the “Menu” button.
To adjust the settings, you have the following screen menus at your disposal.

	Picture / Color	Picture / Color settings
	Position	Settings for the position of the image
	Audio	Audio settings
	Function	General settings

	Please note that the menu structure depends from the input source!
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8.1 Picture / Color

To make settings for the picture display, press the MENU button and then press the SOURCE button to select the first menu item.

The selected menu item is shown by a frame. The sub-menu item is highlighted.

You can navigate between sub-menu items using the ◀▶ buttons. Also press the ◀▶ buttons to increase or decrease the values of a sub-menu.

Menu item	Description	Available in mode
Picture mode	Choose between different predefined image presets. (Dynamic, Mild, User) Note: Only in "User" mode you are allowed to adjust Contrast/Brightness/Color/Tint and Sharpness independent	HDMI,VGA,CVI,TVI,AHD,CVBS
Aspect ratio	Setting of picture aspect ratio 4:3 and 16:9	HDMI,VGA,CVI,TVI,AHD,CVBS
Noise reduction	Switch noise reduction on / off	HDMI,VGA,CVI,TVI,AHD,CVBS
Color Temperature	Choose between different predefined image presets. Note: Only in "User" mode you are allowed to adjust the color temperature independent	HDMI,VGA,CVI,TVI,AHD,CVBS

8.2 Position

Menu item	Description	Available in mode:
Auto Adjust	Auto adjust of the picture signal to the display	VGA
H-Position	Horizontal picture position	VGA
V-Position	Vertical picture position	VGA
Clock	Clock setting	VGA
Phase	Phase setting	VGA

8.3 Audio

In this menu you are able to adjust "Balance" "Bass" and "Treble" for the integrated speakers or choose one of the predefined audio presets.

8.4 Function

Menu item	Description
OSD Language	Setup Language of the OSD
Restore user default	Reset device to factory default settings
No signal screen	Adjust screen in case of "no signal" => blue or black
No signal standby	Adjust action in case of "no signal" => static on or automatic off
Burn-in	It is recommended to let this function enabled

9. Maintenance and cleaning

9.1 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

	<p>Please note:</p> <p>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.</p>
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9.2 Cleaning

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

	<p>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).</p>
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10. Disposal

	<p>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.</p>
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