

# User Manual

## ROADCAM 1 CE

FULL HD wide angle car video recorder  
With G-sensor, GPS, parking mode and motion sensor.



**TechniSat**

## **Foreword**

This manual will assist the user in the intended and safe use of your video recorder, also referred to hereafter as the product, device, camera or equipment.

## **Target group of instructions**

The instruction manual is addressed to any person who sets up, operates, cleans or disposes of the device. The names of companies, institutions or brands mentioned are trademarks or registered trademarks of the respective owner.

## **Product purpose**

The device is designed to record video ob- once. The product is intended for private use only and may not be used for commercial purposes.

## **Tips for handling**

Read all safety in- structions carefully and keep them for future reference. Always follow all warnings and instructions that are found in this user manual

## **Legal instructions**

Local laws and regulations must be strictly observed.  
The product must not be used for illegal purposes.  
Otherwise, the user shall bear the responsibility.

## **Safety instructions**

- The device can only be connected using the supplied car power adapter.
- The device cannot be used if the power supply is defective.
- Remove the cable from the camera by holding the camera - do not pull on the cable!
- The device must not be exposed to humidity and rain.
- The device should not be used near a bathtub, swimming pool or splashing water.
- The product should not be used in a dusty area.
- If foreign matter or liquid enters the device, immediately unplug it from the outlet.

- Do not open the case
- Never try to repair a damaged device yourself. Always contact our official service department.
- Children may use the device only under adult supervision.
- Do not use a damaged device or damaged accessories.

### **Note**

- Insert the micro SD card with the right side to avoid damage.
- It is recommended to use microSD cards up to a capacity of 32 GB, Class 10 type.
- Due to the variety of microSD card models on the market, TechniSat does not guarantee correct operation with all microSD card models.
- It is recommended to periodically back up the stored video footage to avoid data deletion. The device is not a mass storage device.
- The capacity of the built-in battery will decrease over time.

- If the device will not be used for an extended period of time, its battery should be recharged every month to avoid excessive battery drainage.
- Avoid use in the area of strong magnetic fields
- The device is not impact resistant!
- The operating temperature range of the device is from  $-10^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  and the device's storage temperature range is  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ . Prolonged exposure of the device to sunlight, may cause the device to malfunction, image distortion, color changes, and may affect the deformation of the housing, especially in closed cars where the temperature in the cabin may exceed  $70^{\circ}\text{C}$ .

### **Notes on recycling**

The packaging of this device is made entirely of recyclable materials. Please sort them and throw them in-



price into the appropriate containers for re- cycling waste. When you have finished using this appliance, do not dispose of it with normal municipal waste. It must be disposed of at a special collection point for used electrical and electronic equipment. Your local municipality will provide you with information about the nearest waste disposal centers.

The device is equipped with a rechargeable battery. Batteries/accumulators may contain toxic substances harmful to health and the environment. Batteries are subject to European Directive 2006/66/EC. They must not be disposed of with normal household waste.

The new device has been protected by packaging. All materials used are friendly.

For the environment and are recyclable. Please dispose of the packaging in an environmentally friendly way. Check with your dealer or municipal waste disposal facility for current disposal methods

## **Contents of set**

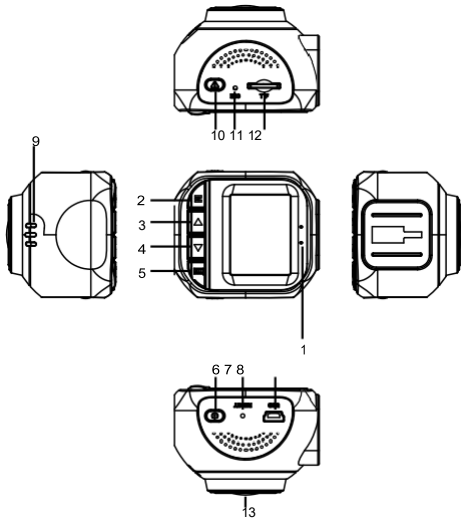
Make sure all the following accessories are available:

- ROADCAM 1 CE
- User Manual
- Car power adapter 12-24V(5V/1.5A output)
- Bracket for attaching the camera to the windshield

## **Features of the device**

- The device has a night mode
- The camera has a parking mode.
- The device uses an acceleration sensor (G-sensor)
- The device has an easy-to-read LCD screen
- The device can record in full HD (1920x1080) resolution.
- The camera can also record audio.
- The device has a GPS module.
- The device allows you to take photos and play back pre-recorded video footage.
- The camera has a wide-angle lens and 4x digital zoom.
- The device has a built-in motion detector.

## Construction of the device



- 1- Indicator lights
- 2- MODE button
- 3- Up button
- 4- Down button

- 5- MENU button
- 6- POWER button
- 7- RESET button
- 8- MiniUSB connector



9- Speaker

10- OK button

11- Microphone

12- microSD reader

## **Description of buttons and functions**

### **1) Indicating LEDs**

The blue indicator on the left side lights up when the device is on, blinks during recording. The red indicator on the right side lights up while charging. When the battery is fully charged, the indicator goes out.

### **2) MODE button**

Briefly press this button to switch between video recording/photo/playback functions.

### **3) "Up" button**

In the menu, allows you to move the cursor up. Change Digital Zoom (+) in normal mode (without recording on).

### **4) Down button**

In the menu, allows you to move the cursor down. Change digital zoom (-) in normal mode (without recording on).

While recording video, press this button,

to open or close the audio recording function.

5) MENU button

A short press of this button brings up the settings menu.

Briefly pressing this button in the mouth menu continuously switches between mouths;

Briefly pressing this button while recording locks the current video file.

6) POWER button

A short press turns the device on/off.

7) RESET button

Reset button, for example, if the device is suspended.

8) MiniUSB connector

It is used to connect to a PC to trans- mission data from the device's memory.

Using the mini-USB connector, it is possible to charge-

not a battery or to provide power not necessary for the operation of the device.

9) Speaker

To play video content with sound.

10) OK button

Confirmation button for taking videos and photos. In video mode, briefly press this button to start recording, briefly press again to stop recording. Briefly press this button to take pictures in photo mode.

In menu mode, this is the confirmation button.

11) Microphone

It is used to record sound

12) MicroSD card reader

Memory card slot.

## **Special features feat**

### **G-sensor**

When the acceleration of the device increases the device will automatically lock the video at the moment-

of the accident and will save it as a non-removable file.

G-sensor can be set in the menu. There are 4 sensitivity settings; Off/Low/Medium/High. Medium is the factory default setting.

### **Recording security function**


Briefly pressing the MENU button while recording, the device will save the current video as a non-erasable file, and the key icon will be illuminated on the screen.

### **Automatic on/off**


When the car is started, the video will automatically start. When the car is turned off, the delay time is 5 seconds, and the video is automatically saved and turned off by the device.

*The function will work if the camera is permanently plugged into the power supply and if the car's power is disconnected after the ignition is turned off.*

### **Night mode**

Night mode has three setting options: Disable - disable the night mode function. The screen displays the icon 

**Colour** - when the ambient brightness level is lower than the specified value for at least 5 seconds , the device will automatically turn on the IR LEDs and enter color night mode. When the brightness level of the ambient light is higher than the specified value and remains constantly above this value for 5 seconds , the device will automatically return to normal recording mode.

When color night mode is on, the  is displayed on the screen

**Black and white** - when the ambient brightness level is lower than the specified value for at least 5 seconds , the unit will automatically turn on the IR LEDs and switch to black and white night mode.


When the brightness level of the ambient light is higher than the specified value and remains constantly above this value for 5 seconds, the device will automatically return to normal recording mode.

When black and white night mode is on, the  is displayed on the screen

## **Parking mode**

Please go to the Settings Menu, then using the OK button, select the option Parking- mode.

To activate the parking mode function, please select "Enable".

When the parking monitoring function is on- is displayed 


After leaving the car, when the car is nara- married to a slight vibration, the device will automatically start up and turn off automatically after 20 se- conds of video recording (once parking moni- torizing starts, the device screen will not turn on, only the blue indicator light will work).

## **Basic operation of the device**

### **Switching on/off**

- A short press of the POWER button will turn on the device. The blue LED lights up.
- Pressing the POWER button again briefly will turn off the device. The blue LED will stop illuminating.

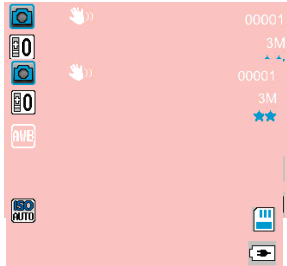
### **Video recording mode**

- Using the MODE button, please enter the video recording mode. Shortly press the OK button to start recording. Recording is indicated by the symbol  on the display and by flashing the blue

diodes.

Note: While the recording function is active, you cannot change modes with the MODE button. First, turn off recording by pressing the OK button.

Photo mode



- Please press the MODE button you enter photo mode.

### **Video/Photo playback mode**

- Briefly press the MODE button to enter playback mode; the playback icon is displayed in the upper left corner of the screen.
- Using the "up" or "down" arrow buttons, please select the desired video or photo material to be displayed.
- Then confirm with the OK button.

### **Settings menu**

- Press the MENU button briefly twice to call up the menu settings.
- Use the "up" or "down" arrow keys to navigate through the menu.
- Press the OK button to select an option.
- Press the MENU button again exit the settings menu.

### **Date and time setting**

- Press the MENU button briefly twice to call up the menu settings.
- Using the "up" or "down" arrow keys, navigate to the Date/Time option.
- Then press the OK button to confirm



Selection.

- Use the "up" or "down" arrow buttons to change the year/month/day and hour/minutes, respectively.
- Accept the entered values with the OK button.
- A short press of the MENU button exits the settings.

### **USB mode**

- Please connect the device to your computer with a USB cable
- "Mass storage" will be displayed on the screen; in this mode you can access video or photo files.

## **Battery instructions**

There are three ways to charge the battery; the red indicator will light up while charging; the time to fully charge is about 120 minutes; the indicator will turn off automatically when charging is complete.

1. Use a car power adapter for charging.
2. Use a USB->miniUSB cable to charge the camera when connected to a computer (not included in the ze- pond).
3. Use a 5V AC adapter with a mini USB output (not included).

*The capacity of the built-in battery will decrease over time.*

*Please remember not to leave the camera in the car on sunny days. The temperature inside the cabin can reach up to 70°C which can damage the battery.*

## **GPS**

The camera is equipped with a GPS receiver, in real time. When the camera is turned on

GPS positions itself automatically. GPS positioning is indicated by blinking of the icon.

When positioning is successful, the icon stops blinking and is permanently displayed.



#### IMPORTANCE:

- Positioning should be done outside the bus.
- High cloud cover affects positioning time.
- Positioning can take from 2 to as much as 10 minutes (depending on whether car is stationary or in motion).
- Use GPSPlayer to display the recorded route.  
([www.technisat.pl](http://www.technisat.pl))

The speed data is displayed live on the camera's screen and during playback of the video material, along with the date and time.

## Device specifications

G-sensor (sensor acceleration)	Built-in (during wy-case the video file is saved)
LCD	1,5"
OSD language	PL, EN, DE, RU, UA, CZ, HU, GR, IT, NL SK, RO
Video format	MOV
Compression	H.264 , Audio: AAC
SD card slot	8 to 32 GB (Class 10)
Resolution photos	12M
Photo format	JPEG
Microphone	YES
Night mode	Color or black and white
Parking mode	YES
USB function	YES, detected as a USB drive
GPS	YES
Power supply	5V / 1A
Battery	Built-in 200mAh

## Problem solving

No possibility video recording	Check that the SD card is not filled
Recording zos-STAYED	Change the microSD card to a compatible one min. with Class 10. The recorded video is characterized by a high throughput of
Displays file error	Please format the SD card
Unclear video	Clean the camera lens
Dark video When recording the sky or water scenes	Scenes with high contrast affect- They affect the camera's auto exposure function. You can adjust the EV exposure setting in the ka- mery menu.
Color is not ideal on a cloudy day and interior light	Set the white balance function in automatic mode.

Visible interference transverse	Incorrectly set frequency-wattage. Please set to 50Hz or 60Hz, according to the local power frequency. In te- ren of Poland, please set to 50 Hz.
The camera hangs up- force	Please perform a reset to Factory settings with the RESET button.

## Contact information

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310 41 48

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Customer Service

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Open Monday through Friday : 8:00-16:00

ROADCAM 1 CE (76-4960-00) carries the CE mark  
and meets the standards required by the EU.

TechniSat reserves the right to changes and printing  
errors.

Status 12/2018

