Technaxx® * User Manual
Dashcam with assistance systems TX-167

The Declaration of Conformity for this device is under the Internet link: **www.technaxx.de/**(in bottom bar "Konformitätserklärung"). Before using the device the first time, please read the user manual carefully.

Service phone No. for technical support: 01805 012643 (14cent/minute from German fixed-line and 42 cent/minute from mobile networks).Free Email: **support@technaxx.de**

Please strictly abide by the relevant national laws of the country you use this product. It may not be used for legal purpose, you could have to take the consequence by yourself.

Keep this user manual for future reference or product sharing carefully. Do the same with the original accessories for this product. In case of warranty, please contact the dealer or the store where you bought this product.   **Warranty 2 years**

*Enjoy your product. *Share your experience and opinion on one of the well-known internet portals.*

1. Features

• Dashcam with driver assistant systems
• Recognises speed signs up to 160km/h
• Front collision warning
• Lane departure warning
• Loop video recording
• G-Sensor for file protection
• Big 4" LCD screen
• Media playback
• Sound captures with microphone
• Voice output in different languages
• Window bracket and extra-long power cord

2. Content

3. Introduction

The dashcam uses a high-definition lens to record the front street, the sound and warn the driver with the attached assistant systems during driving. When an unexpected traffic accident occurs, the G-sensor function will automatically protect the current video file from being overwritten during further records.

Important: Please strictly abide by the relevant national laws of the country you use this product. It may not be used for legal purpose, you could have to take the consequence by yourself.

4. Product overview
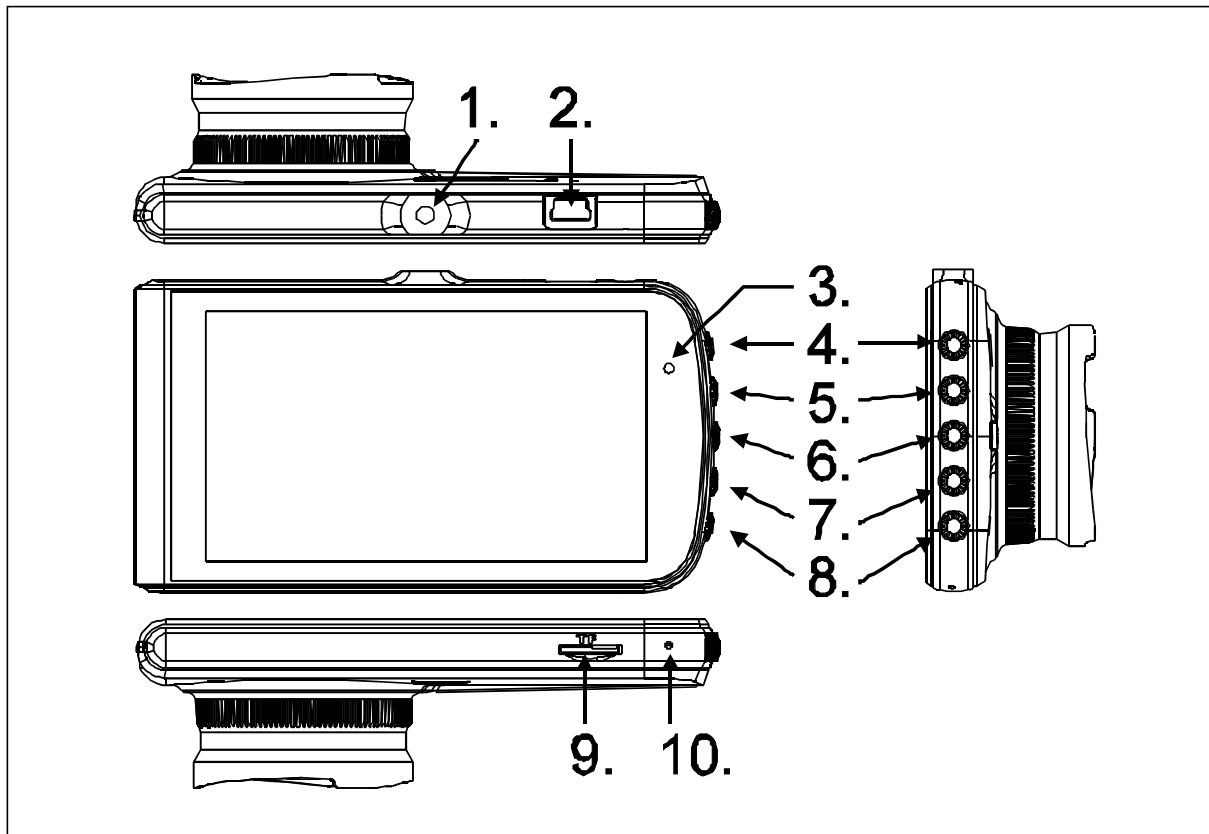
1	Bracket thread	2	Mini-USB charging port
3	Indicator LED	4	MODE button / ON/OFF
5	UP button	6	OK button
7	DOWN button	8	MENU button
9	MicroSD card slot	10	Microphone
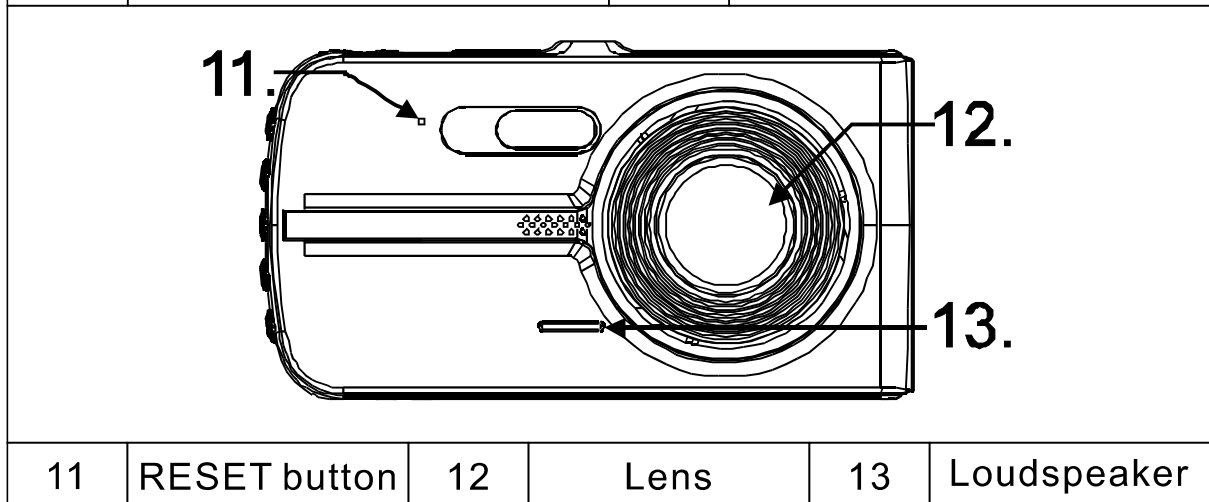
| 11	RESET button	12	Lens	13	Loudspeaker

5. Prepare for use
5.1 MicroSD card

Insert a MicroSD card into the dashcam MicroSD card slot (9) to save your video recordings.

NOTE: Maximum supported MicroSD card size is 128GB, the minimum is 8GB. The MicroSD card has to be formatted in FAT32 for cards until 32GB. MicroSD cards with 64GB or 128GB need to be formatted into exFAT.

For the further steps of formatting the MicroSD note that all files saved on the MicroSD card will be permanently deleted!

5.1.1 Windows

1. Insert the MicroSD card into your computer. You may need a card reader for this.

2. Open File Explorer and locate the drive for your MicroSD card. Right-click the drive and select Format.

3. Set the File System to FAT32. Select Start to begin.

4. Select OK to begin formatting the card.
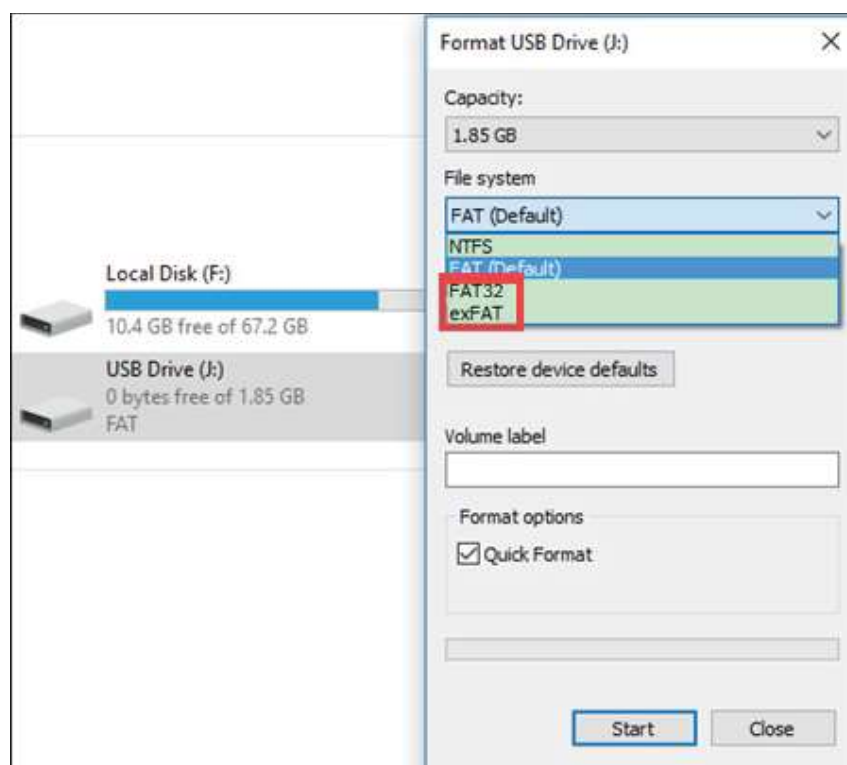
5.1.2 MAC:

1. Insert the MicroSD card into your computer. You may need a card reader for this.

2. Open Disk Utility. To do this, click on the magnifying glass in the top-right corner of your computer screen. Type "disk utility" in the search box, then click on the "Disk Utility" application that comes up.

3. Find the card in the left side of the window.

4. Click the ERASE tab in the middle of the window.
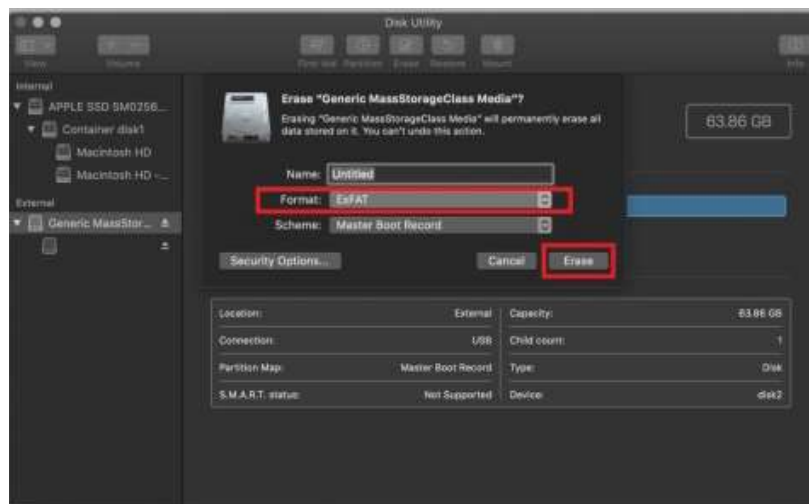
5.1.3 Format MicroSD card in the dashcam

If this MicroSD card is not used for the first time, you can simply format it on the dashcam for your convenience. Although formatting the MicroSD card on your computer is recommended for better results.

Follow the instructions below.

1. Insert the MicroSD card into the dashcam. Insert the card into the slot before turning on the Dashcam.

2. Turn on the dashcam and make sure it is not recording at the time.

3. Press the menu button (8) twice to enter the System Settings.

4. Press the DOWN button (7) to scroll down the menu until you see the Format setting.

5. Press the OK button (6), and press DOWN button (7) and the OK button (6) again to select OK.

5.2 Mounting instructions
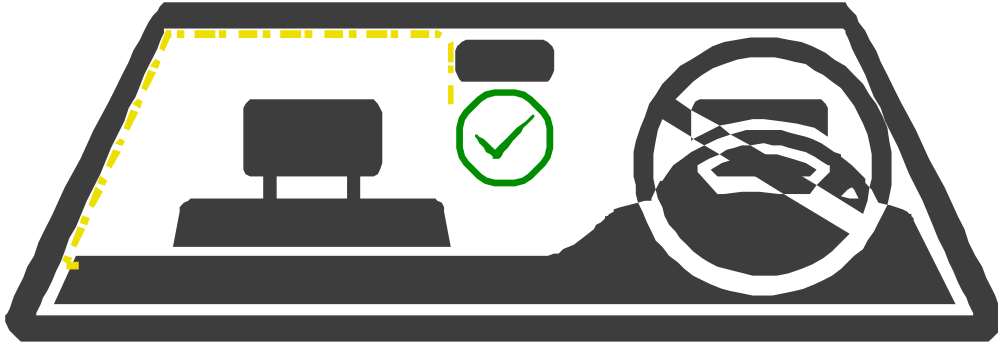
Attach the suction cup mount to the center of the windshield without obstructing your view of the road. After first start-up of the device, the correct view has to be calibrated.

Wiring the power supply cable under the cover of your car gently to avoid any damage.

Important: Lay the cable in such a way that under no circumstances can it irritate or disturb the driver during the journey if the cable dismantles itself.

Connect the 12V power adapter to your car 12V socket and plug the Mini-USB end to the dashcam port (2).

The dashcam starts automatically after the car is powered on. Follow the next chapter "First Set up of Device".

## 6. First Set up of Device
6.1 OSD Language

First step: Choose the language you want to operate with during the usage of the dashcam. All setting information's and audio outputs are in the chosen language.

The chosen language can be changed at any time in the settings directory.

6.2 Adjustment image

Second step: Adjust the dashcam in the correct way for the best assistance system accuracy. Use the adjustment image in the following way:

color	Shape
Yellow	Crosshai
Red	Lane
Green	Box
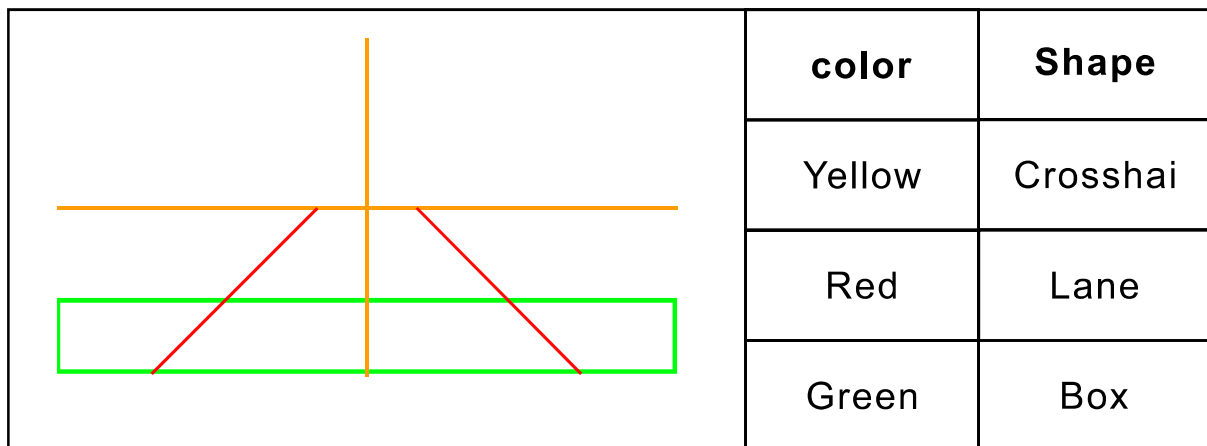
Crosshair: The **yellow** crosshair shows the center of the street and the horizontal line. Move the dashcam to have these lines aligned with the environment shown in the dashcam image.

Box: The front hood of your car has to match into the **green** box. This is important for the front collision warning - to let the dashcam know where your car ends.

Lane: The **red** lines have to match with the street lane marks. Otherwise, the lanes will not be recognized correctly.
After adjusting the dashcam correctly according to the adjustment image, press any button to finish the calibration step.

6.3 General

After the device is installed according to the installation instructions, the device will automatically turn on when the car is powered on. It enters the DVR mode by default and automatically turn on the recording function and store data until the car is turned off.

Short press the OK button (6) to stop the recording. Press the mode button (4) to switch between modes (DVR, photo and media player).

Manually turn on/off:

-long press the mode button (4) to turn on/off the device.

-short press the mode button (4) to turn on after shutting

down. The device is directly in recording state after turning on.

6.4 Set Date and time

After finish the first setup of the dashcam, stop the recording by pressing the OK button (6). Enter the system settings by pressing the menu button (8) twice and set the date and the time. To set date and time use the up and down buttons (5/7) and the OK button (6). Press menu (8) to exit.

7. Modes

By pressing the Mode button (4) you can switch through the modes:

- DVR mode

This mode is the main mode for: Video recording, LDW (Track deviation)

FCW (Vehicle ahead warning), TSR (Screen display).

- Photo mode

If you need to record photos, in the main video interface, press the OK button (6) to stop recording, and short press the MODE button (4) to enter the photo mode. Press the OK button (6) to take a photo. It will be saved automatically.

- Media player mode

In media player mode - playback, delete or protect files.

For **playback** select the file and press OK button (6) to play/pause.

Press the MENU button (8) once to choose between delete or protect the file. Confirm with OK button (6).

**Delete** is final and the file cannot be restored after confirmation.

You can **protect** files, so they cannot be overwritten by the loop function. Therefore, you need to choose protect and then select either:

- Lock Current: Enable the protection of the current file
- Unlock Current: Disable the protection of the current file
- Lock All: Enable the protection of the all files
- Unlock All: Disable the protection of the all files

Note: Protected files do not keep after the format of the MicroSD card! They are only protected not to be erased by the loop function.
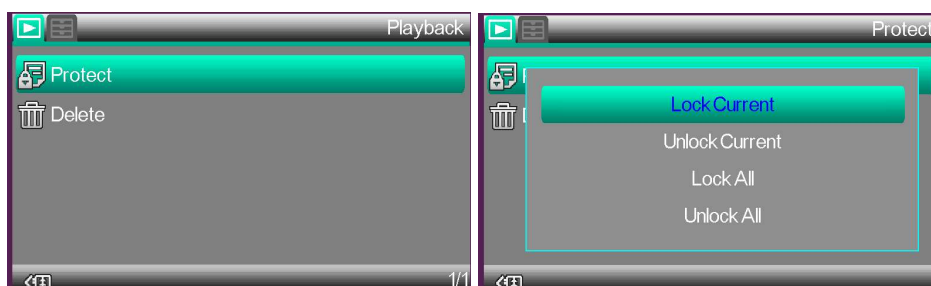
7.1 Display symbol overview in DVR mode
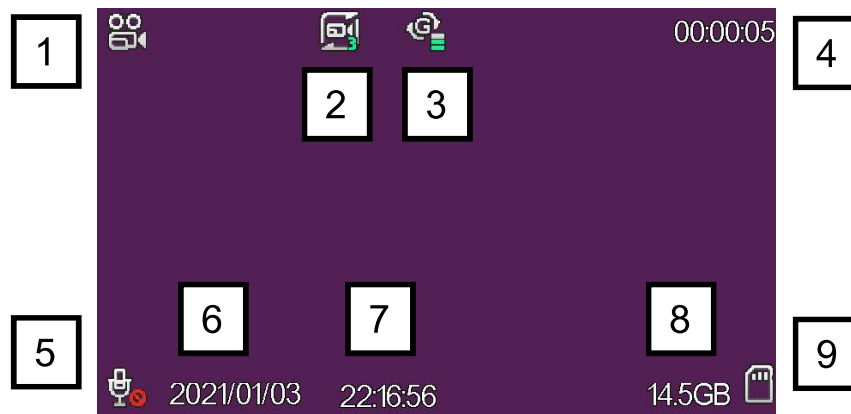
1	Mode Icon (DVR / Picture / Media)	2	Loop time
3	G-Sensor intensity	4	Recorded time (at record) Time for records left (at pause)
5	Microphone status	6	Date stamp
7	Time stamp	8	Free MicroSD storage
9	MicroSD status		

7.2 Display symbol overview in Picture mode

1	Mode Icon (DVR / Picture / Media)	2	White balance
3	Exposure value	4	Iso value
5	Picture quantity Photo resolution	6	MicroSD status

Note: The values white balance, exposure, ISO and photo resolution cannot be changed!

## 8. Video & system settings

8.1 Video settings

To open the video settings, stop recording and press menu button (8).

To navigate through the menu, use the up/down button (5/7) to select or adjust and the OK button (6) to enter or confirm the setting. To exit the menu, press the menu button (8).

8.1.1 Loop recording

Options: Off / 1 minute / 3 minutes / 5 minutes. The chosen time is the length of one video. The recordings repeat in the chosen time length. This setting can automatically overwrite the earliest video when the MicroSD storage is full, avoiding the inability to continue recording after the card is full.
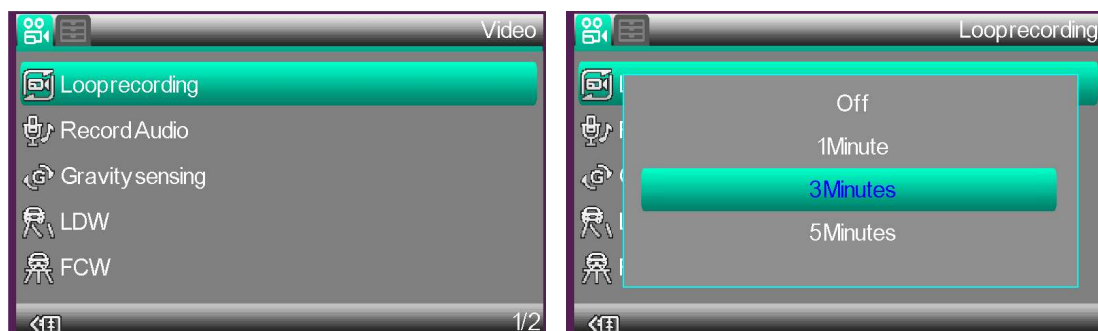

8.1.2 Recording audio

Options: Off/On; when "On" is selected, the video will be recorded with sound, and when "Off" is selected, only the video is recorded, and no audio is recorded.


11
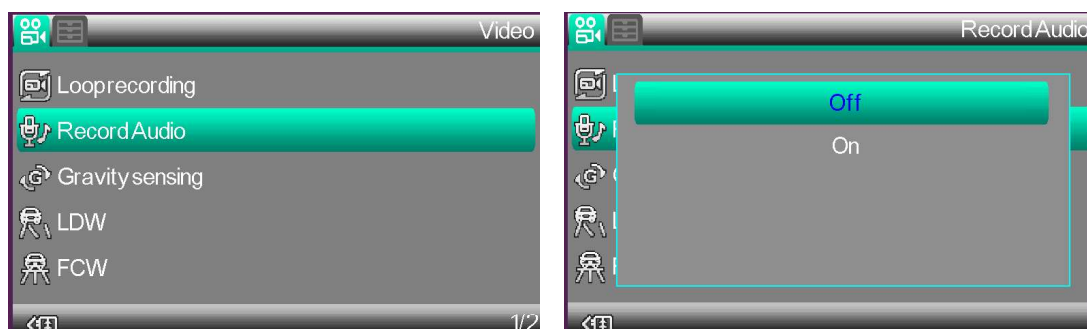
8.1.3 Gravity sensor

Options: Off/Low/Medium/High; you can set the sensitivity of the gravity sensor according to your needs. When the vehicle collides, the recorded video file will be saved and automatically protect against overwriting.
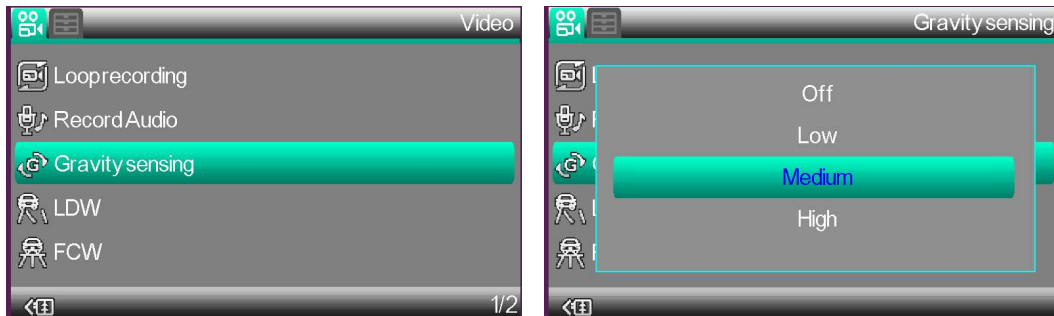
Note: Locking is protecting the recorded file. Unlock is unprotecting the recorded file.

8.1.4 LDW (Lane Departure Warning), Track deviation

Options: Off/On; when the device is in recording state, an alarm or voice will sound when the vehicle changes lanes during driving.
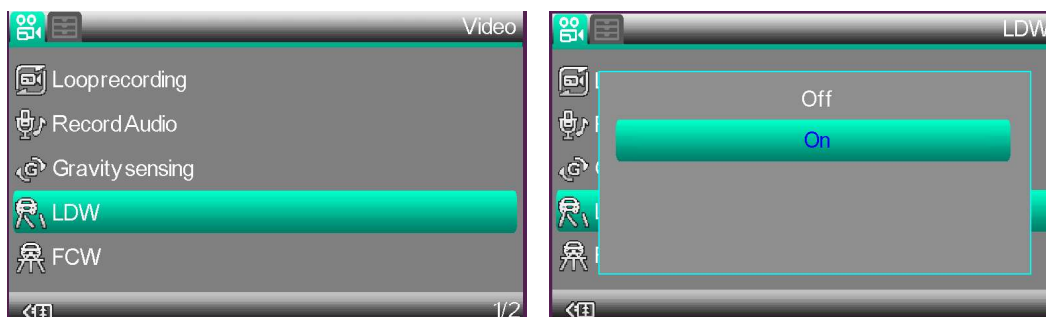
8.1.5 FCW (Front Collision Warning), Collision warning

Options: Off / On; when the device is in recording mode, the video will sound an alarm or voice when it detects that it is approaching the vehicle in front during driving.

8.1.6 TSR (Traffic Sign Recognition), Speed sign recognition

Options: Big sign / Voice; when the device is in recording state and a speed limit sign is detected in the video during driving, the currently detected speed limit icon will be displayed on the display as a notification.
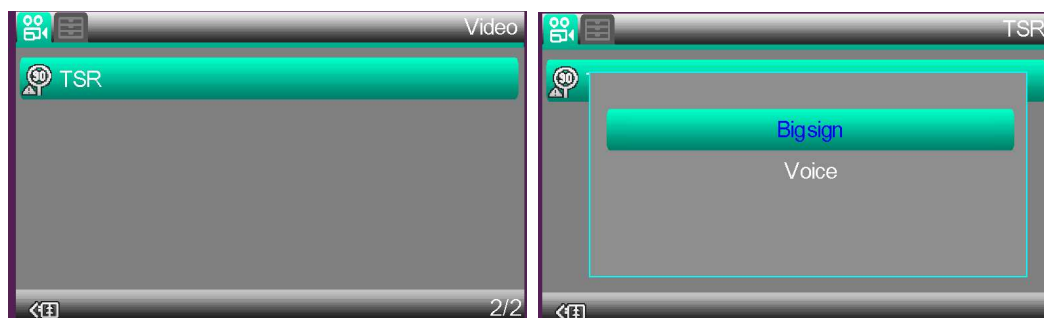

Screen Big - Options: Off/On; If you choose On you can choose the time how long the speed limit sign is shown on the screen. Options: On (constantly - newly recognized signs update the display) / 5seconds / 10seconds / 30seconds.

For the setting Voice you can choose the following options: Off / Sound / Voice. When the device is in recording state and detects a speed limit sign in the video during driving, the device will emit depending on the setting a beep or a human voice as a prompt as reminder.
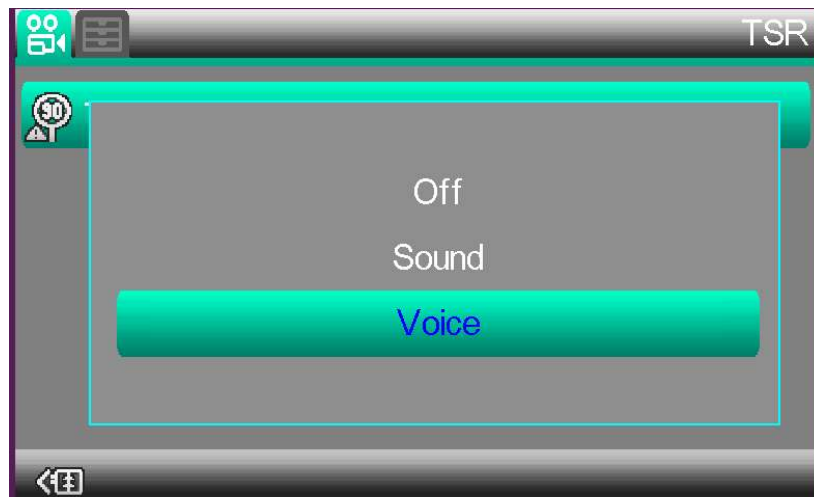
The last recognized speed limit sign can be displayed again by pressing menu button (8).

Note: If the same speed limit sign is detected within 30seconds again, it is not displayed and no beep or human voice as a prompt appears.
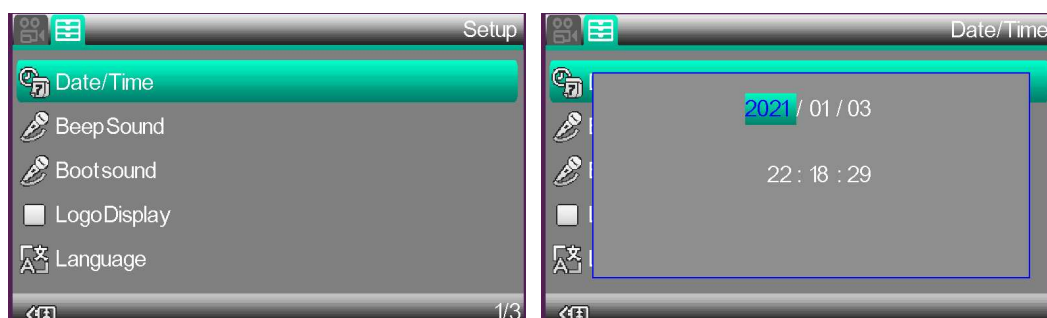
8.2 System settings

To open the system settings, pause recording and twice press menu button (8).

To navigate through the menu use the up/down button (5/7) to select or adjust and the OK button (6) to enter or confirm the setting. To exit the menu press the mode button (4) or menu button (8) to go one step back.
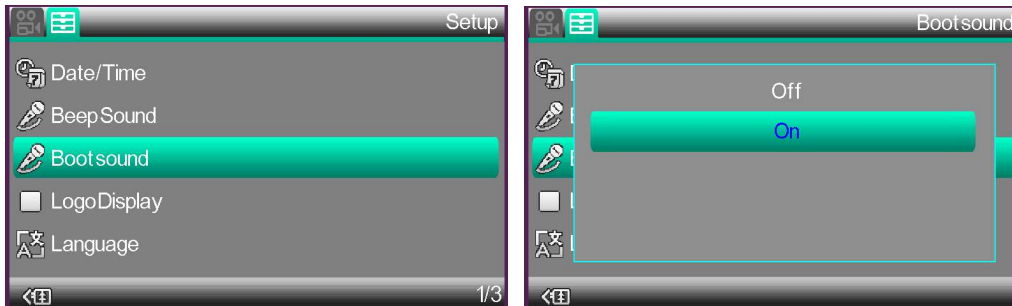
8.2.1 Set date and time

Options: year/month/day and hour/minute/second

8.2.2 Beep sound

Options: Off/On; Enable/disable the button sound

8.2.3 Boot sound

Options: Off/On; turn on/off the boot sound

8.2.4 Logo display

Options: Off/On; turn on/off the boot/goodbye logo

8.2.5 Language

Options: English / French / German / Spain / Czech / Dutch / Italian / Polish
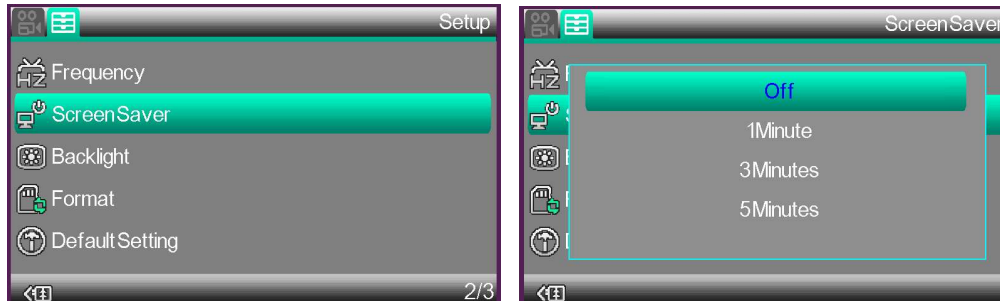
8.2.6 Frequency

Options: 50HZ / 60HZ; set the frequency of influencing light sources

8.2.7 Screensaver

Options: Off / 1 minute / 3 minutes / 5 minutes. If no operation is performed after turning on, the device will not turn off or shut down according to the selected time

Note: If the screensaver is enabled and speed limit sign is shown the device will end the screensaver mode and display the speed limit sign.
If the screensaver is enabled and the voice prompt or the beep sounds the screensaver stays enabled.
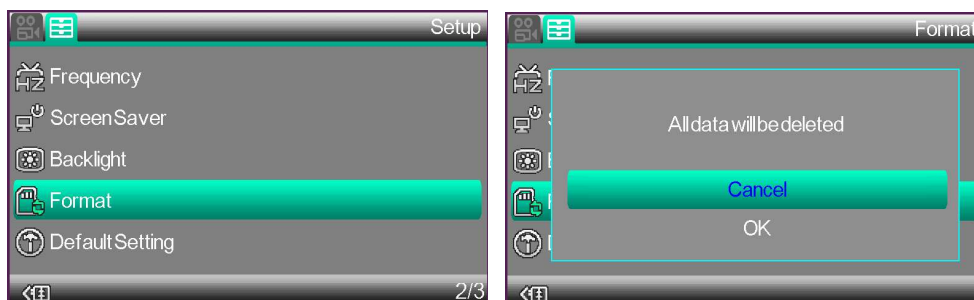
8.2.8 Backlight

Options: Auto / High / Medium / Low, the brightness of the display backlight can be adjusted. If set to auto the brightness will adjust to the ambient luminosity.
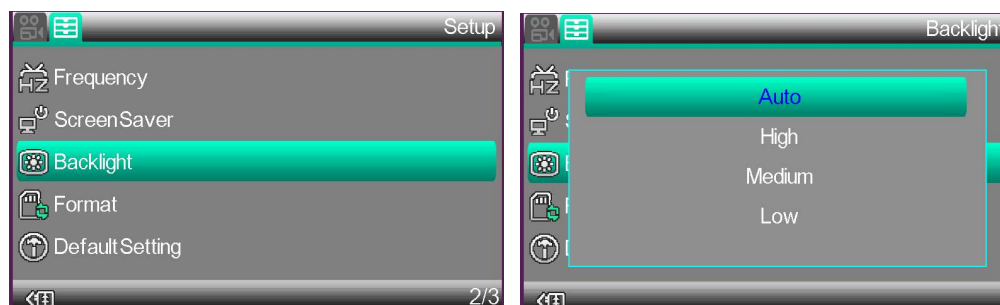
8.2.9 Format

Options: Cancel/OK; Format the inserted MicroSD card.

Note: This will delete all photos and video files saved on the MicroSD permanently! The locked/protected as well!

8.2.10 Default setting

Options: Cancel/OK; select "OK" and the device will return to the initial factory settings
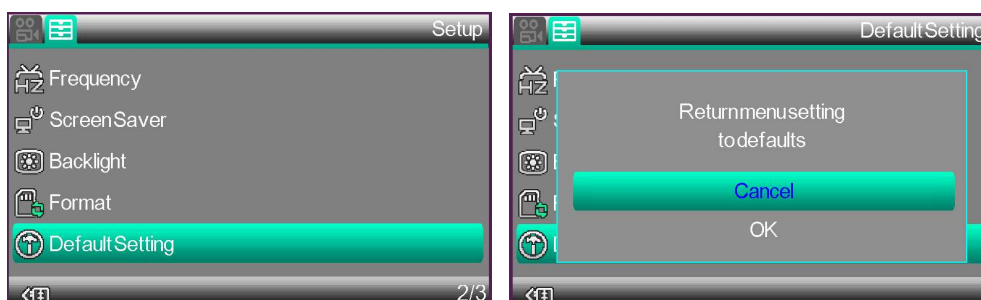
Note: Use the hard-reset button

To reset the device to the last saved settings, press the reset button (11) at the front of the device slightly with a needle or paperclip.

The device will reboot instantly and will reset the settings to the state of last turn off.

8.2.11 Version

9. Status indicator

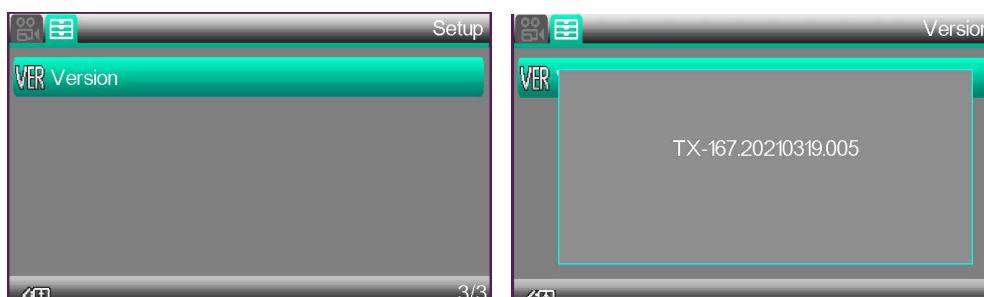| Status	Description	Indicator light	Warning
System initialization	System boot initialization (with boot LOGO)	Red light is always on, blue light is always on	Boot sound
Normal work	1: Mainly include recordingvideo, recording pause, video playback, playback pause, settings, etc. 2: The sound recording function is carried out according to the system setting state (silent recording or sound recording);	Red light is always on, blue light is slowly flashing	
Malfunction	The system is abnormal, or the system cannot find enough storage space. No MicroSD card inserted.	Red light is on, blue light flashing fast	Prompt card is full / No card inserted
Power connection	The device is powered off and attached to a power source	Red light on	No recording possible

10 FAQ

• To display the adjustment image again, press and hold the MENU button in video recording mode.

• To adjust the sound, press UP or DOWN button during video capture mode.

• To ensure the video quality, do not block the lens and clean the lens regularly.

• To avoid slow card speed and affect the video quality, format the MicroSD card regularly.

• To ensure that the device can work normally, use a MicroSD card equal or above class10/8GB. The device supports a maximum capacity of 128GB.

11 Problem solution quick Chart

Problem Description	Problem analysis	Solution
DVR cannot record	Because of vibration or bumps during driving, the recorded video files are protected and cannot be overwritten.	1. Replace the card with a larger capacity. 2. Format the MicroSD card by this device. 3. Unprotect files and delete manually
The memory card repo ts an error during recording	When the device is not shut down, the card was taken out by illegal operation, which caused the video file to be damaged and then inserted into the device, the MicroSD card was identified and an error was reported.	Format the MicroSD card by this device.
The camera crashes during recording	During recording, when writing data to the MicroSD card, it cannot be written into it, causing the data file to be stuck.	1. Format the MicroSD card 2. It is recommended to replace a higher-storage capacity or/and high-speed card (class10)
The picture displayed on the screen has uneven upper and lower black borders	The MicroSD card is pulled out under abnormal conditions, which damages the files in the card, resulting in abnormal data and abnormal display.	1. Format the MicroSD on the device. 2. Restore the device to default settings.
Video without audio	Audio setting is muted.	Activate the record audio. Set the setting to On.
The device will black out after a few minutes of operation	The screen saver function is turned on. Indicator light red permanently and blue flashing are on.	1. Press any button to show the current screen. After the set screensaver time device will black out again. 2. Turn off the screen saver mode in the settings.

Fuzzy or black screens will appear during the recording	During file writing, the file cannot be written due to a MicroSD card failure.	1. Format the MicroSD card. 2. Restore the device to the default setting
Default settings / Hard reset		Default setting option will delete all done settings to the factory status. Hard reset by reset button will restore the last changed settings until the last shut down.
It smokes, smells, and does not turn on when connected to the power supply	While installing the power cord was bend and pressed strongly, causing the cord or the device to be damaged.	Refer to the mounting instructions in the manual before connecting to the power supply and confirm whether there is any wrong connection before testing the device.

12. Technical specifications

Sensorl	IMX307
Chipset	NTK96675
Working modes	DVR / Picture / Playback
Display size	4 Inches
Display resolution	800 x 480px
Video resolution	1920 x 1080px(FHD)
Video frame rate	30fps
Video encoding format	H.264
Video saving format	.TS
Picture resolution	Max. 2992 x 1696px (5MP)
Picture saving format	.JPG
Loop recording	1min / 3min / 5min
Microphone / Speaker	Built-in
Power supply	12V (cigarette lighter socket)
Supported MicroSD-card	8-128GB; class10
Working voltage	5V
Lens angle	110° horizontal, 60° vertical, 130° wide angle
Rated current	<500mA
Working temperature	-10°C – 60°C
Working humidity	15-85%RH
Power cord length	3.5m
Product size / weight	11.6 (L) x 6.4 (W) x 3.4cm (H) / 150g
Language	EN, FR, DE, ES, IT, PL, CZ, NL
Package content	TX-167 Dashcam, window suction cup, 12V power cable, user manual