

EC2 DASH CAM

CAR DIGITAL VIDEO RECORDER

User's Manual

1. Operation Conditions

- Read the terms of the warranty service.
- Do not insert or remove a memory card while the DVR is turned on. It may cause damage to the device, memory card and recorded video files.
- Use only high-quality microSD cards of at least class 10 providing for the UHS-I protocol to avoid recording failures and playback delays.
- It is recommended to use 8 GB to 64 GB memory cards.
- The device should only be used with the accessories supplied. Where third-party accessories are used, WDT bears no responsibility for any damage to the product.
- Do not expose the product to fire, moisture or chemicals (gasoline, solvent, reagents, etc.).
- Do not disassemble or modify the product.
- WDT is not responsible for any data loss and/or direct or indirect damage caused to the user or a third party by misuse of the device or software, their incorrect installation, or the use of accessories not included in the package.
- **Attention!** In some cars, the power is supplied to the 12/24V socket even when the ignition is off. It is recommended to disconnect the device from the vehicle network to avoid battery discharging.
- Format the microSD card at least once every two months to avoid damage to its file system.
- Follow the storage and operation temperature conditions (see technical specifications). Do not expose the unit to sunlight for too long.
- The device is designed to be used in cars with a transparent windshield or light-tone heat shield for glass. Where the windshield is tinted or covered with dark heat shield film, the video quality decreases.
- Install the DVR in such a way as to get the maximum field of view. DO NOT place the DVR in a place where it can block the view and compromise your safe driving. WDT and its authorized partners ARE NOT responsible for any damage or data loss due to improper installation of the holder.
- The built-in battery helps you finishing your recording correctly.

Normal operation of the device requires an external power source.

- Do not manipulate the device while driving to be sure you are driving safe. Please, observe the local law.
- Set the correct date and time before using the device.
- Heating of the case during operation is normal.
- Handle the device with due care; avoid dropping/crushing the device.

The manufacturer reserves the right to change the equipment list, hardware and software of the device without prior notice.

It is assumed that you agree with the provisions above before you start using the system.

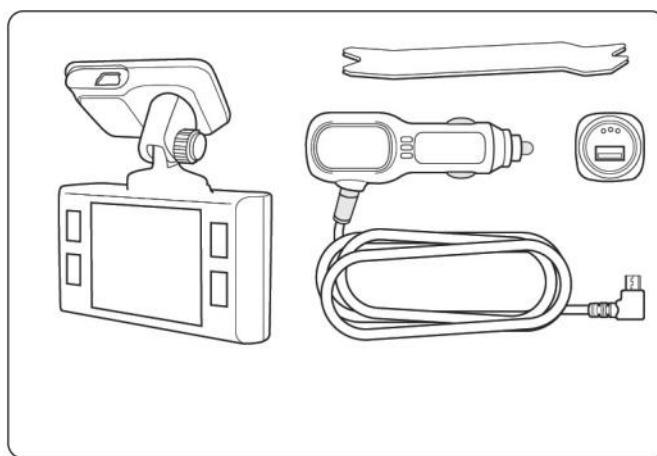
1. Specifications:

- Video resolution: FHD 1080P
- Screen size: 2 inches
- Built-in battery
- Video recording format: MP4
- Built-in microphone / speaker
- G-sensor
- Parking mode
- Loop recording: 1/3/5 min
- Continuous recording
- Auto Power On
- Date / time stamp
- 8GB to 128GB MicroSD (Class 10)
- Storage temperature: -20° to + 70°
- Operating temperature: -10° to + 60°
- Input voltage: 5VDC, 1.5A
- Charging input voltage: 12-24VDC

*Once there is no external power input, battery cannot support for a long time DVR working. Pls make sure external power input as long as recording!

2. Equipment:

- Car digital video recorder (DVR)
- Magnet holder
- Car charger
- User manual
- Trim removal tool



3. Description of the device and its buttons

Button description

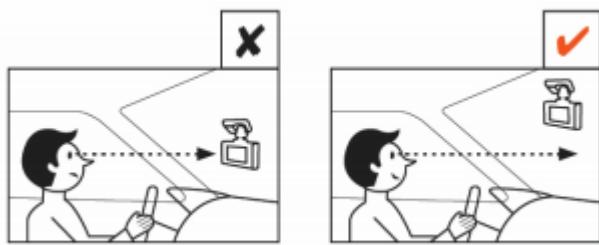
Button	Description
ON / OFF	Press to turn the device on. Press and hold to turn the device off. When the device is on, press to turn the backlight off.
Menu	In standby mode (no recording), press to enter/ exit the Menu. Press and hold to switch between VIDEO-PHOTO-PLAYBACK.

Rec	Press to start/stop recording. When in the menu, use to confirm the selected menu item.
UP	Press to move up the menu. In the VIDEO and PHOTO mode, press and hold to zoom in; in Playback mode, use to select a file.
DOWN	Press to move down the menu. In the VIDEO and PHOTO mode, press and hold to delete the image (if you used zoom + before); in the Playback mode, press to select a file.
RESET	Press to reboot, if no other button responds.

4. Installing the DVR

Installation on the windshield

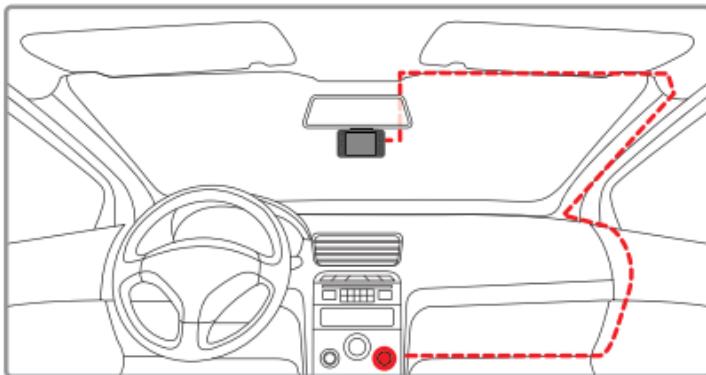
- Choose the installation location in advance, as the adhesive tape on the mount is of single use.
- Degrease the mounting location and warm it up to ensure strong adhesion.
- Install the magnet holder into the device and turn the DVR on. When evaluating the display image, make sure that the horizontal is kept and the lens captures the image symmetrically both on the left and right. Then remove the protective film from the surface of the adhesive tape and lean and press the mount against the windshield.



Power connection

To power the device and charge the battery, use only the power adapter included. Connect the power cable to the mount or DVR, then plug the charger plug into the car's cigarette lighter/socket.

When the car engine starts, the device turns on automatically.



5. Device operation

Device preparation

A. Insert the microSD card into the memory card slot.

Before installing a memory card, turn off the device; insert the memory card until it is locked.

ATTENTION: Attempting to insert a memory card wrong may damage the device and/or the memory card itself. Make sure the memory card is in the correct position.

Warning: Do not apply excessive force when inserting a memory card to avoid damage to the device. To insert a memory card, insert the microSD card into the slot until it locks (clicks); if necessary, use a needle to push the card further. To remove the memory card, push the card until it clicks and remove the card from the slot, if necessary, use a needle to push the card.

Turning the device on/off.

When the car engine starts, the device turns on automatically.

To turn the device on manually, press the power button.

To turn the device off and hold the power button for 3 seconds.

Loop recording

- 1) Insert the microSD card into the memory card slot; the Loop Recording mode turns on automatically.
- 2) It is recommended to set a 3-minute cycle (Settings).
- 3) When there is no more space left on the memory card, the device will automatically replaces the oldest video file with the newest one; exception is the files protected from deletion.
- 4) Video recordings taken in Loop Recording mode are stored in the Driving folder.

G-Sensor

G-Sensor is to protect the current video file from being overwritten and deleted. In order to protect the current video file.

Night mode (Only exist on EC2 and EC3 model)

When this feature is on, the device determines the light level and reduces the color of the image automatically to reduce noise for better resolution.

Parking mode

If you use the original accessory to connect the DVR to the fuse box, turn on the Parking Mode in the menu.

Playback/Delete Files

Playback

- In the standby mode, press and hold the M button to switch to the view mode.
- Select the file to view using the Up / Down and Confirm buttons.

- Using the Up / Down buttons, select the file you need to view and click the Confirm button to start playback.

Deletion

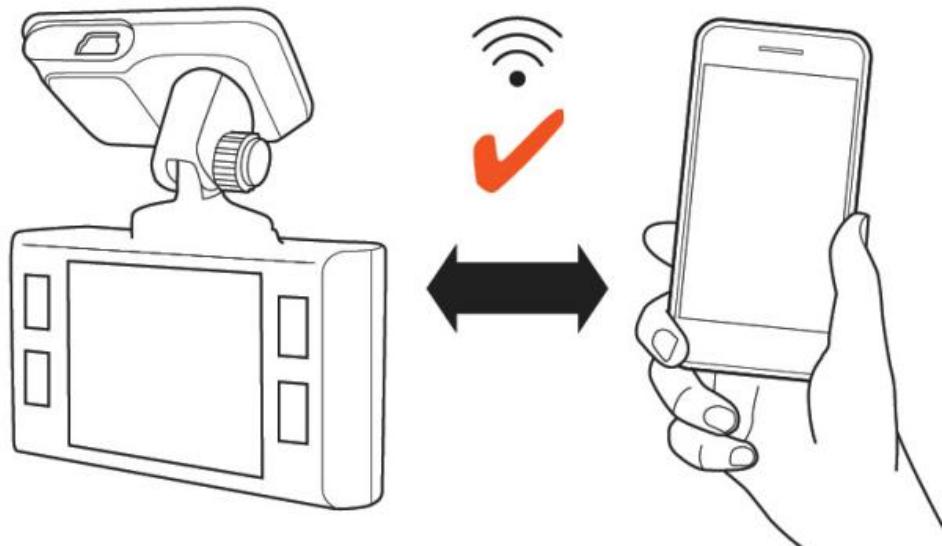
- Press the M button to enter the sub-menu.
- Use the UP / DOWN buttons to select Delete and press the OK button.

ATTENTION! Locked files can only be deleted when unlocked; to unlock them, use the Lock item of the submenu in the Playback mode. Another way to delete locked files is to format the memory card.

Note. Deleted files cannot be restored. Backup necessary files before proceed with deletion.

WiFi Function

Pls download APP in your Phone (Connect with supplier which you buy the product). Then long press UP button to turn on WiFi and follow instruction to connect WiFi



6. About Updating Firmware

- 1) Download the firmware file (Pls contact with the supplier which you buy the product) and extract the file from the archive.

- 2) Format the memory card and transfer the extracted file to the microSD memory card.
- 3) Insert the memory card with the downloaded file into the DVR slot.
- 4) Connect the device to a power source and turn it on.
- 5) The indicator light will flash while the firmware file is being downloaded to the device.
- 6) Upon completion of the process, the device will reboot automatically.
- 7) Check in the settings menu if the correct firmware version is displayed.
- 8) Format the memory card with the DVR menu. **ATTENTION!** If the memory card is not formatted after the update, the update process will be started again the next time it is turned on.

ATTENTION! Do not turn off the DVR power during the firmware update.

7. Possible problems and their causes

This section helps you to eliminate problems the device may have under normal operation.

- Failure to photograph/record video.

Check if there is enough free space on the microSD card and if it is not blocked.

- Spontaneous stop at recording.

Too many video files stored. Only use at least class 10 high-speed microSD cards by proven manufacturers.

- When you try to view a photo/play a video file, the "wrong file" message appears.

File writing failure due to microSD card file system error. Format the microSD card.

- Blurred image.

Check for dirt on the lens and the CPL filter. If there is any, wipe the lens with a soft cloth before use (it is recommended to use special care products for the optics in order not to damage the surface of the lens).

- Darkened image when photographing the sky or water.

Too much contrast in the scene may affect the exposure. Change the exposure in the settings menu.

- Hangup (no image, no button response).

Press the RESET button to reboot the device.

FCC Warning:

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.