



FW983A



# USER MANUAL

## Please Read Before Use:

- Read this manual carefully before use and keep it for future reference.
- Install as instructed, avoiding positions that block the driver's view or affect airbags. Seek a qualified technician if needed.
- Follow local laws on in-vehicle recording and inform passengers when recording audio or video.
- Keep away from rain, moisture, strong light, and extreme temperatures to avoid damage.
- Do not open, repair, or modify the device yourself; contact the seller for accessory issues.
- Disconnect the car charger when not in use; stop using if the cable is damaged.
- Keep out of reach of children; this is not a toy.
- Use a soft dry cloth for cleaning; for stubborn stains, use diluted neutral detergent. Avoid alcohol, thinner, or benzene.
- Do not touch the lens to avoid damage.
- Only adjust or operate the device when the vehicle is safely parked.



**Failure to comply with safety warnings and regulations may result in serious injury.**

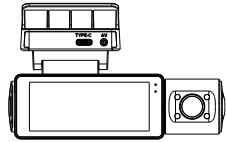
**Please read and understand all instructions before using this product. Any damage caused by failure to follow the instructions shall be deemed as an automatic waiver of warranty rights.**

**Some countries or certain states in the United States prohibit drivers from installing any items on the windshield, or ban installation in specific areas of the windshield. It is the responsibility of the vehicle owner/operator to ensure that the device is installed or used in compliance with local laws.**

**Our company shall not be liable for data loss or content loss during operation or under any circumstances.**

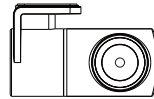
# FUNCTION BUTTONS AND COMPONENT OVERVIEW

-3-

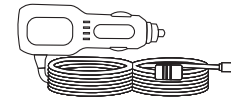


Main Unit ×1

(Includes a 128GB memory Card (pre-installed))



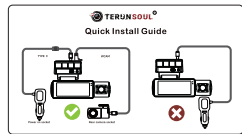
Rear Camera ×1



Car Charger ×1



Rear Camera Cable ×1



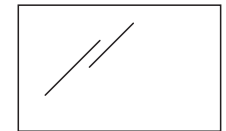
Quick installation Guide ×1



User Manual ×1



Alcohol Wipe ×2



Electrostatic Sticker ×2



Adhesive Tape ×1



Hexagonal Wrench ×1



Cable Clips ×5



Pry Tool ×1



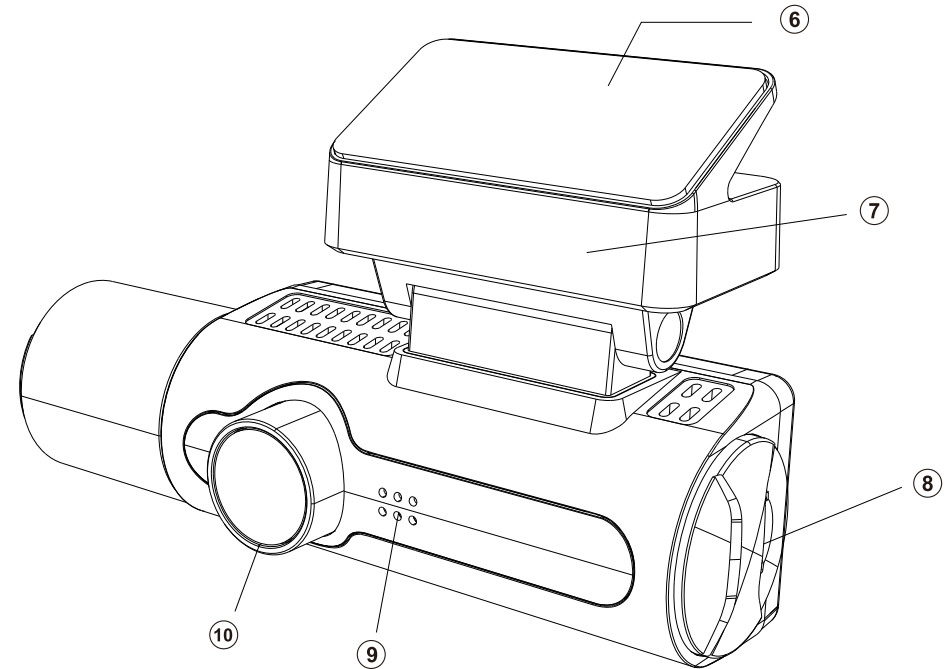
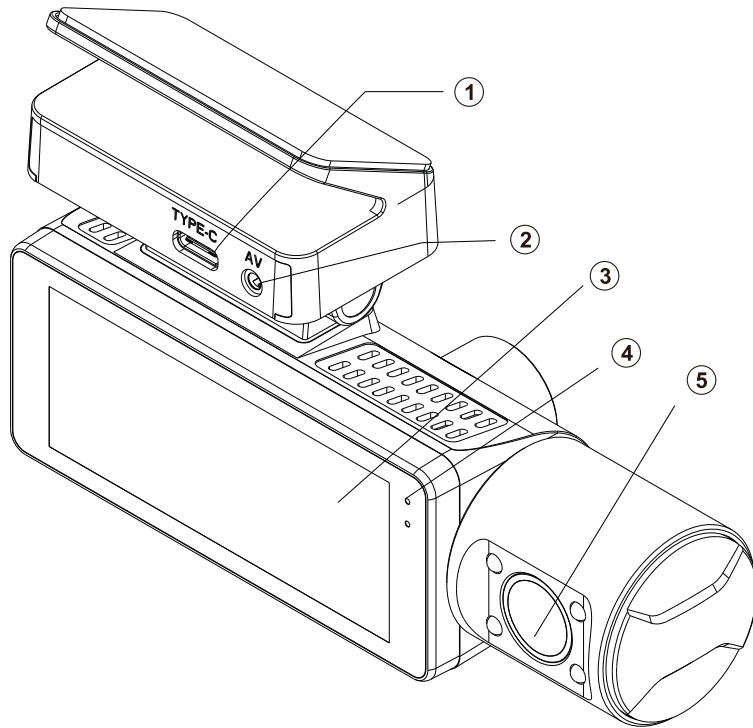
Quick Start Guide ×3



Warning Stickers ×2

## APPEARANCE

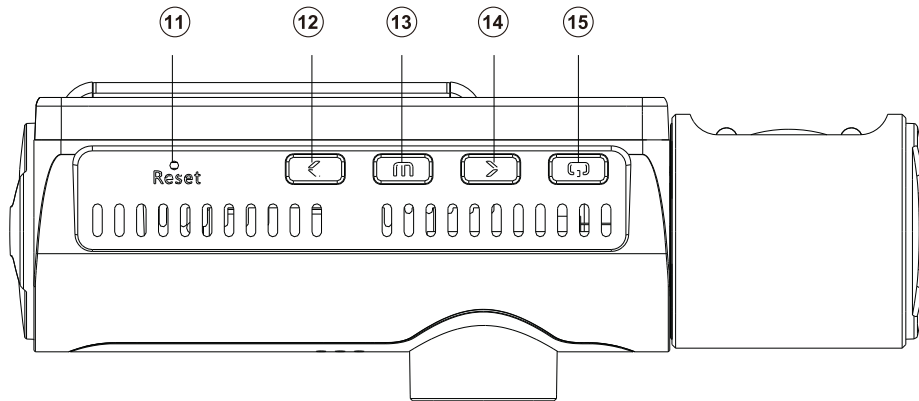
-4-



|                     |                    |                           |
|---------------------|--------------------|---------------------------|
| ① TYPE-C Power Port | ② Rear Camera Port | ③ Display Screen          |
| ④ Indicator Light   | ⑤ Built-in Camera  | ⑥ Bracket / Adhesive tape |
| ⑦ GPS Suction Mount | ⑧ Memory Card Slot | ⑨ Speaker Output Hole     |
| ⑩ Front Camera      |                    |                           |

# BUTTON FUNCTIONS

-5-

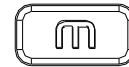


- ⑪ Reset Button
- ⑫ Back Button
- ⑬ Setting Button
- ⑭ Forward Button
- ⑮ Switch Button

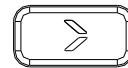
## Button Function



- Up Button**
- Press once – turn audio on/off (during recording).
  - Press once – view recording files (when recording is stopped).
  - Press once – move up to select function settings (in the file management interface).



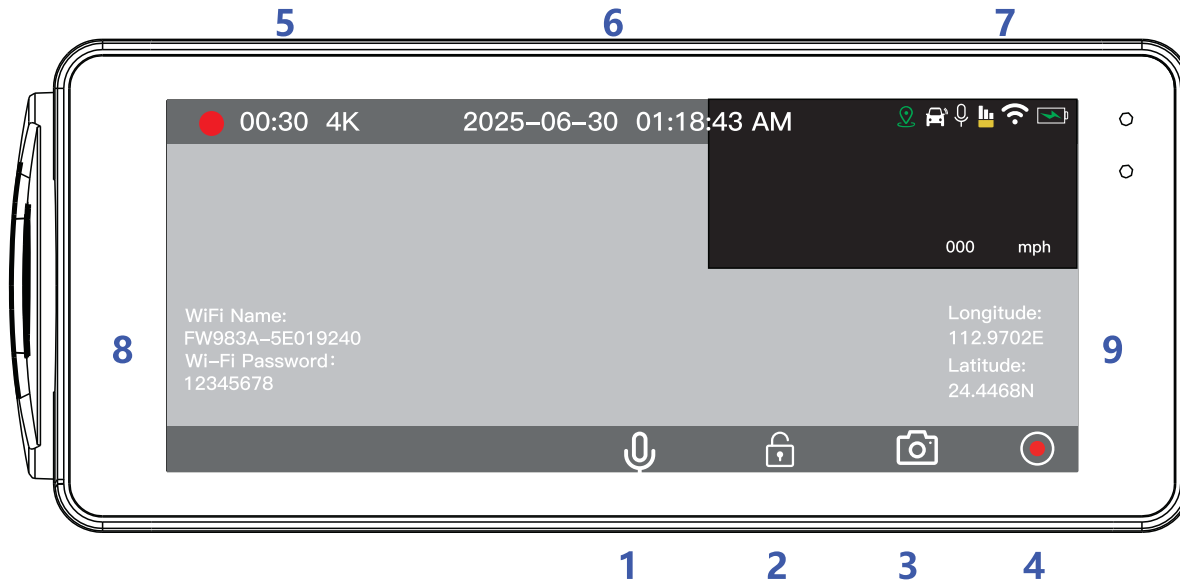
- Setting Button**
- Press once – lock the recording file (during recording).
  - Press once – enter file management (when recording is stopped).
  - Press once – return (in the file management interface).



- Down Button**
- Press once – take a snapshot (while recording).
  - Press once – switch camera display (when recording is paused).
  - Press once – move down to select function settings (in file management interface).



- Power Button**
- Press once – stop recording (during recording).
  - Press once – confirm (in the system interface).
  - Press and hold for 5 seconds – power on/off.



## Main Screen Displays the Recording Interface

During recording: If a memory card is inserted into the device, it will automatically enter the recording mode and start recording after being powered on. During recording, a ● icon flashes in the upper left corner of the screen; short-press the power button to stop or start recording.

### Adjustment methods:

- Up button: Short press to turn off or on the audio recording.
- Setting button: Short press to lock the recording file
- Down button: Short press to take a snapshot.
- Power button: Short press to stop or start the video recording.

## MAIN INTERFACE

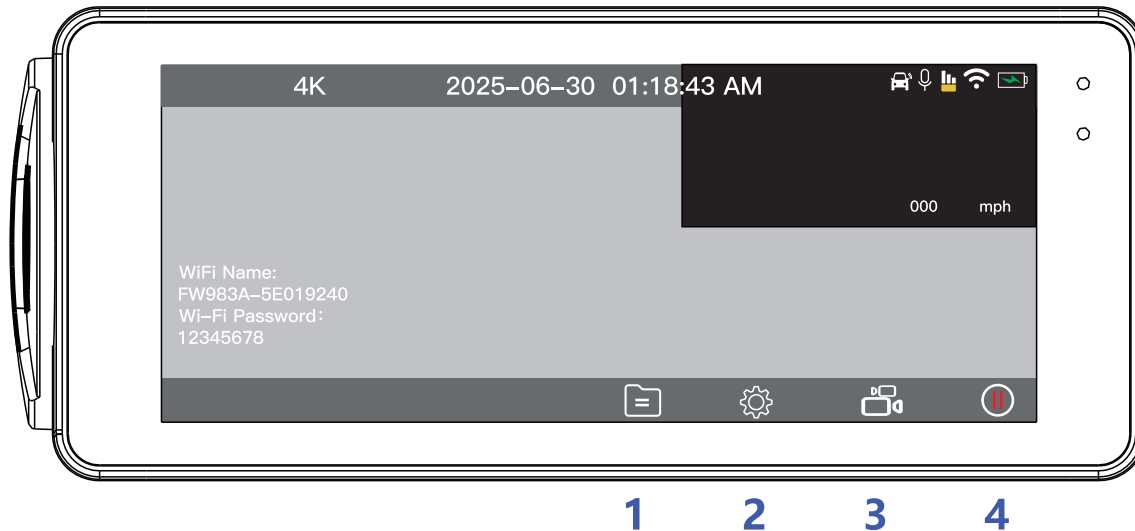
-7 -

| Serial Number | Name                        | Function Description  |
|---------------|-----------------------------|---|
| 1             | Audio Recording Switch      | Turn on or off audio recording  |
| 2             | Recording File Lock         | Lock or unlock the recording  |
| 3             | Snapshot Picture            | Take a snapshot picture   |
| 4             | Recording Stop              | Start/Stop Recording  |
| 5             | Recording Status            | Recording time and the resolution of the main camera  |
| 6             | System Time                 | Recording date and current time   |
| 7             | Basic Status Information    | GPS status, gravity sensing status, audio recording status, memory card status, WIFI status, power supply |
| 8             | WIFI Information            | WIFI name, WIFI password  |
| 9             | GPS Positioning Information | Real - time speed, positioning latitude and longitude   |



# MIAN NTERFACE OVERVIEW

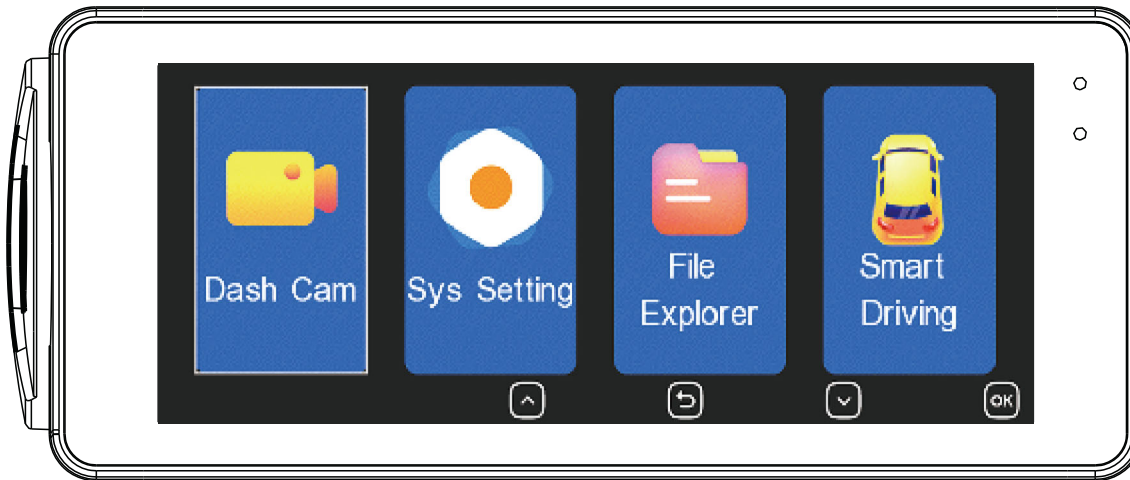
-8 -



## Adjustment methods:

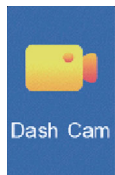
- Up button: Short press to view recording files; long press for 2 seconds to switch WiFi on or off.
- Setting button: Short press to enter the setting interface.
- Down button: Short press to switch the display screen among (front - camera, internal - camera, rear - camera).
- Power button: Short press to stop or start recording.

| Serial Number | Name                | Function Description  |
|---------------|---------------------|---|
| 1             | Recording Files     | Open the recording folder to view recording videos and pictures                                     |
| 2             | Settings Menu       | Enter the system interface, where you can set parameters of the recorder, intelligent driving, etc. |
| 3             | Switch Lens Display | Switch (front - camera, internal - camera, rear - camera) for display on the screen                 |
| 4             | Start Recording     | Stop and start recording (rear - camera) for display on the screen                                  |



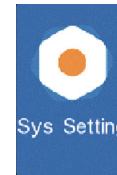
## Adjustment methods:

- Up arrow key, down arrow key: Short press to select left or right.
  - Settings key: Short press to return to the previous interface.
  - OK key: Short press to confirm the selection.
- Confirming the selection allows entry to the system interface and operation of corresponding functions.



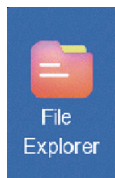
### Dashcam Interface:

- Opening it can return to the recording mode.



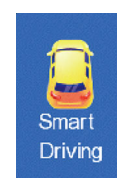
### Settings Menu:

- Enter the system interface to set various parameters of the recorder (e.g., resolution, gravity sensor, language, etc.).



### File Management Menu:

- View (front - view, interior - view, rear - view) video files, image files, and locked files.



### Intelligent Driving Menu:

- Set ADAS, BSD, and LCA parameters.



## System Settings

### Recording Resolution:

- Select the recording resolution of the main camera: 1080, 2.5K, 4K

### Light Frequency:

- Select different light frequencies according to AC frequencies in different regions: 50Hz, 60Hz

### Parking Monitoring:

- Select the sensitivity of the G-sensor (when parking, connected to the pressure line): Off, Low, Medium, High

### Time-lapse Recording Duration:

- 12 hours, 24 hours, 48 hours, 72 hours

### Video Watermark:

- Off, On

### Front Camera Preview Setting:

- Keep Original, Preview Mirror, Record Mirror, Mirror, Upside Down, Upside Down and Left-Right Mirror

### Keypress Sound:

- Off, On

### Loop Recording:

- Select the loop time for recording: 1 minute, 2 minutes, 3 minutes

### G-sensor Sensitivity:

- Select the sensitivity of the G-sensor: Off, Low, Medium, High

### Time-lapse Recording:

- Set the frame rate of time-lapse recording: Off, 1S, 2S, 5S

### Recording:

- Off, On

### HDR:

- Off, On

### Front Recording Switch:

- Off, On

## Rear Camera Preview Setting:

- Keep Original, Preview Mirror, Record Mirror, Mirror, Upside Down, Upside Down and Left-Right Mirror

## Daylight Saving Time:

- Off, On

## Infrared Fill Light:

- Infrared fill light switch for internal recording, generally set to Auto: Off, On, Auto

## Speed Unit:

- Off, km/h, mph

## Language Settings

- Supports 10 languages

## WIFI Frequency Band:

- 2.4GHz, 5.8GHz

## Time Settings

- RTC system time

## Version Information:

- Firmware information of the current device: System version number

## Screen Saver:

- Select the time for automatic screen off: Off, 1 minute, 3 minutes

## Time Zone Selection:

- UTC-12:00 ----- UTC+13:00(40 time zones)

## Satellite Information

- Can check the strength status and positioning status of GPS: GPS status information

## WIFI Information:

- WIFI Off/On, account and password, and APP QR code

## Disk Formatting:

- Memory card formatting

## Factory Reset:

- Confirm, Cancel



## File Explorer

After powering on, the device will automatically start recording.

After stopping the recording, short-press the Menu button to enter the system interface, then select File Management.

### In the File List interface:

- Short-press the OK key to play a file.
- Short-press the Menu button to return to the previous level.
- Short-press the Up button to select a file upward.
- Long-press the Up button to lock/unlock a file (no function in the picture folder).
- Short-press the Down button to select a file downward.
- Long-press the Down button to delete a file.

### When playing a file:

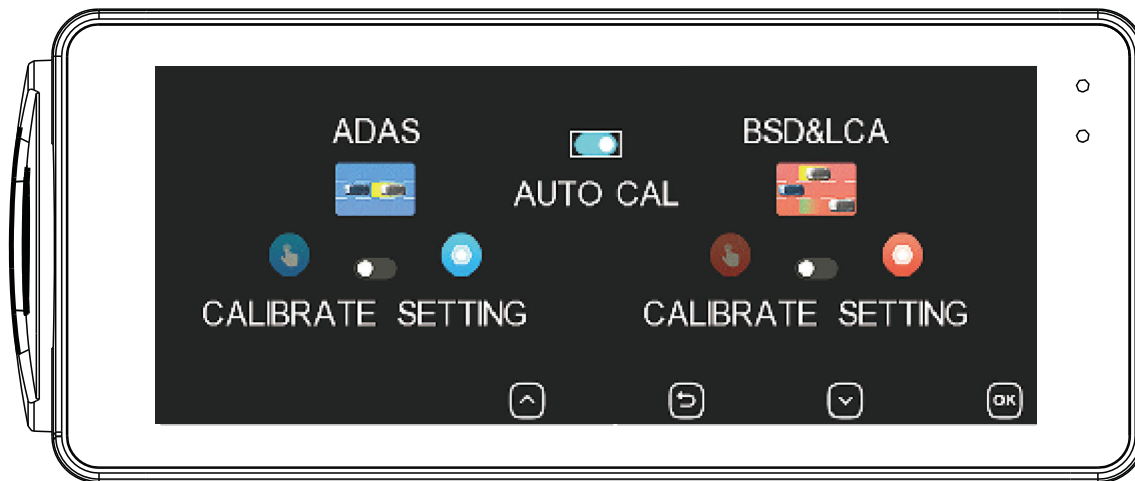
- Short-press the OK key to pause or start playback.
- Short-press the Setup key to exit playback and return to the file list interface.
- Short-press the Down button to play the next file.
- Short-press the Up button to play the previous file.

**Note: Currently, ordinary files account for 70% of the total card capacity, encrypted files account for 30% of the total card capacity, and there are 200 pictures before and after in the picture file respectively. When the file capacity is reached, it will be deleted cyclically.**



## Smart Driving

After powering on, it enters automatic recording. After stopping the recording, short - press the setup key to enter the system interface and then select Intelligent Driving.

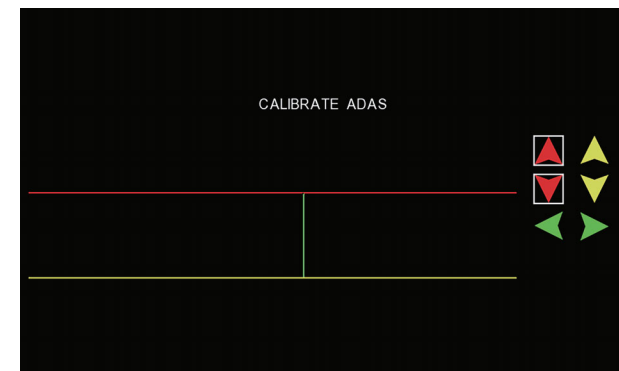
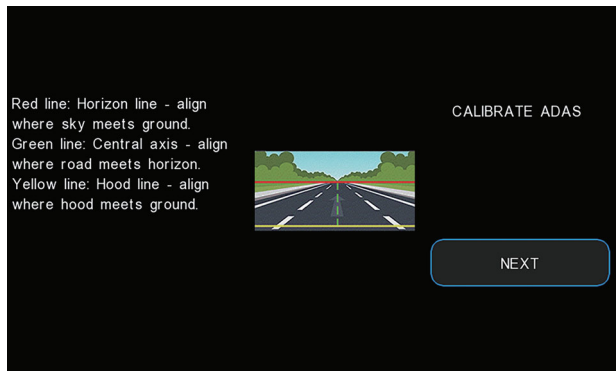


### Adjustment method

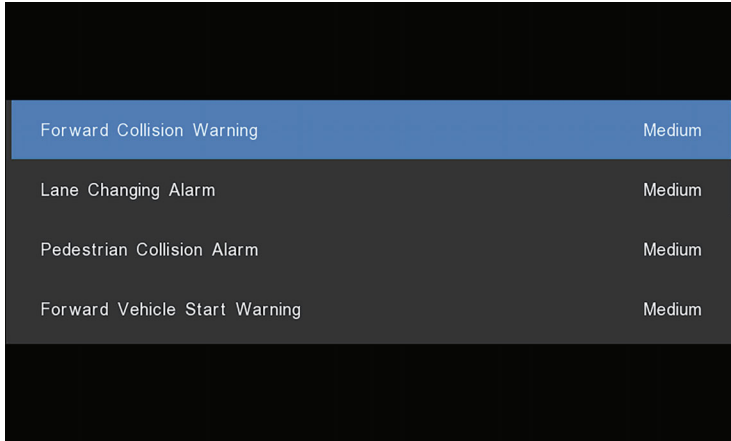
- Up key, Down key: Short-press to select up, down, left or right.
- Power Key: Short - press to confirm the selection.
- Setup Key: Short - press to return to the previous - level setup directory.

## ADAS Adjustment

- After powering on, it enters automatic recording. After stopping the recording, short-press the up button to enter the system interface. Short-press the up/down button to select Smart Driving, then short-press the OK button to enter the Intelligent Driving settings interface. After turning off automatic calibration, short-press the up/down button to select the Advanced Driver Assistance System (ADAS) calibration operation icon, and short-press the OK button to enter the ADAS calibration interface (as shown in the figure).



The lines in the image correspond to the arrows of the same color on the right. Short-press the OK key to switch lines (color arrows). Short-press the Page-Up key to adjust the lines upward (leftward). Short-press the Page-Down key to adjust the lines downward (rightward). Short-press the Setup key to save and exit.



|                               |        |
|-------------------------------|--------|
| Forward Collision Warning     | Medium |
| Lane Changing Alarm           | Medium |
| Pedestrian Collision Alarm    | Medium |
| Forward Vehicle Start Warning | Medium |

High beam reminder: Off, On

Low beam reminder: Off, On

Turn signal reminder: Off, On

Reverse reminder: Off, On

Seat belt reminder: Off, On

Overspeed reminder: Off, On

Overspeed value setting: 60km/h,  
80km/h, 100km/h, 120km/h,  
140km/h, 160km/h

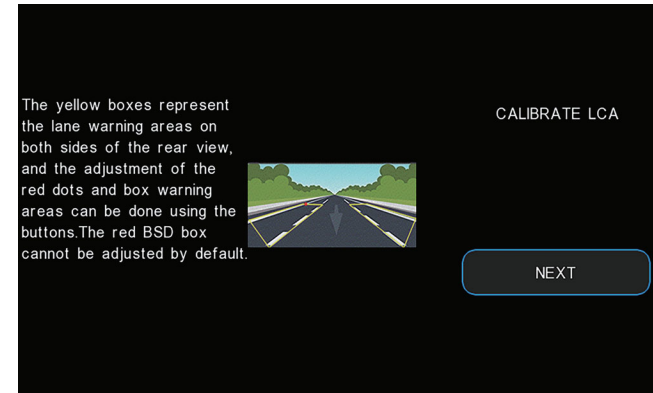
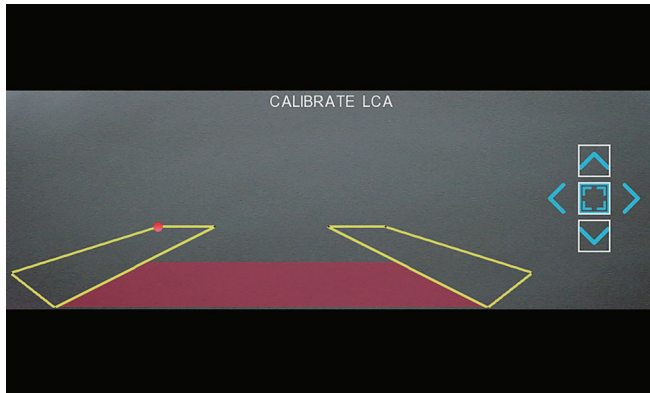
Fatigue driving reminder: Off, On

Fatigue driving time setting: 2 hours,  
3 hours, 4 hours, 5 hours

## BSD/LCA Adjustment

- After powering on, it enters automatic recording. After stopping the recording, short-press the setup key to enter the main interface. Short-press the up/down key to select Intelligent Driving, then short-press the OK key to enter the Intelligent Driving settings interface. After turning off automatic calibration, short-press the up/down key to select the Blind spot detection (BSD) calibration operation icon, and short-press the OK key to enter the BSD calibration interface (as shown in the figure).





- The square area in the image is the blind spot warning area. Short-press the Up key to move the red dot in the square upward or leftward. Short-press the Down key to move the red dot in the square downward or rightward. Short-press the OK key to switch the red dot in the square. Long-press the OK key (for 2 seconds until a beep sounds) to switch directions. After the settings are completed, short-press the Menu Button to save and exit.

|                               |        |
|-------------------------------|--------|
| Forward Collision Warning     | Medium |
| Lane Changing Alarm           | Medium |
| Pedestrian Collision Alarm    | Medium |
| Forward Vehicle Start Warning | Medium |

## LCA Settings Menu :

Alarm Sensitivity: Low, Medium, High

Speed Threshold: 0 km/h, 30 km/h, 50 km/h, 80 km/h, 100 km/h

Alarm Prompt Tone: Off, On

Display Alarm Area and Prompt Box: Off, On

### APP User Guide

Step 1: Download and Install

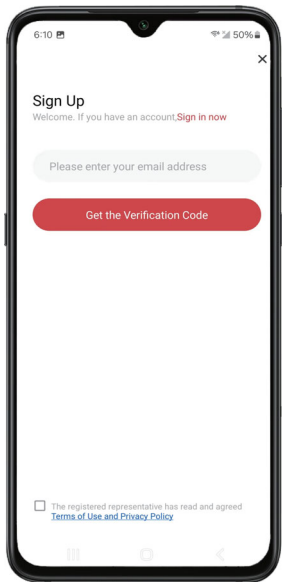
You can download the TERUNSOUL app in one of the following ways:

- QR code in WIFI settings.
- Search for "TERUNSOUL" in the Apple App Store or Google Play.
- Scan the QR code on the back of the product box.
- Scan the QR code below.

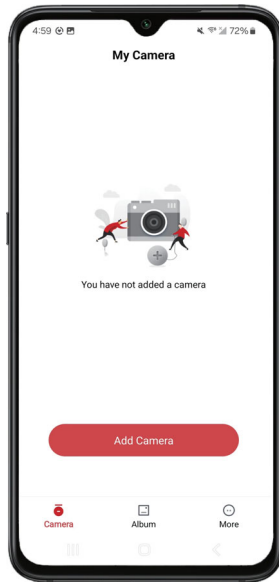


# APP And Wifi Function

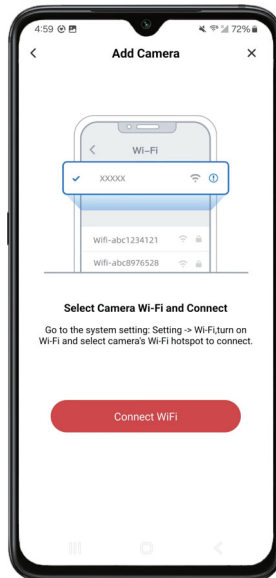
-18-



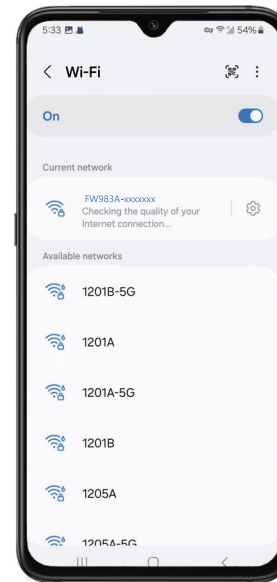
Step 1: Sign up for an account using your email.



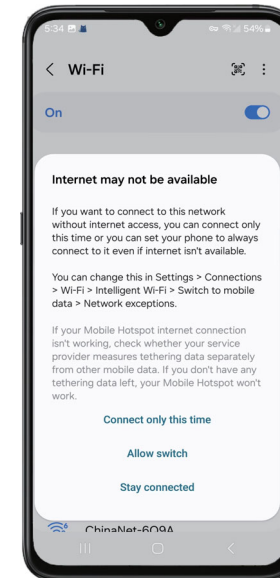
Step 2: Add camera.



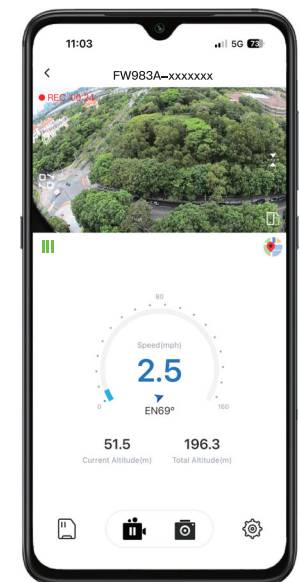
Step 3: Tap "Next"



Step 4: Select the Wi-Fi that starts with "FW983A-xxxxxxx" and enter the password: 12345678



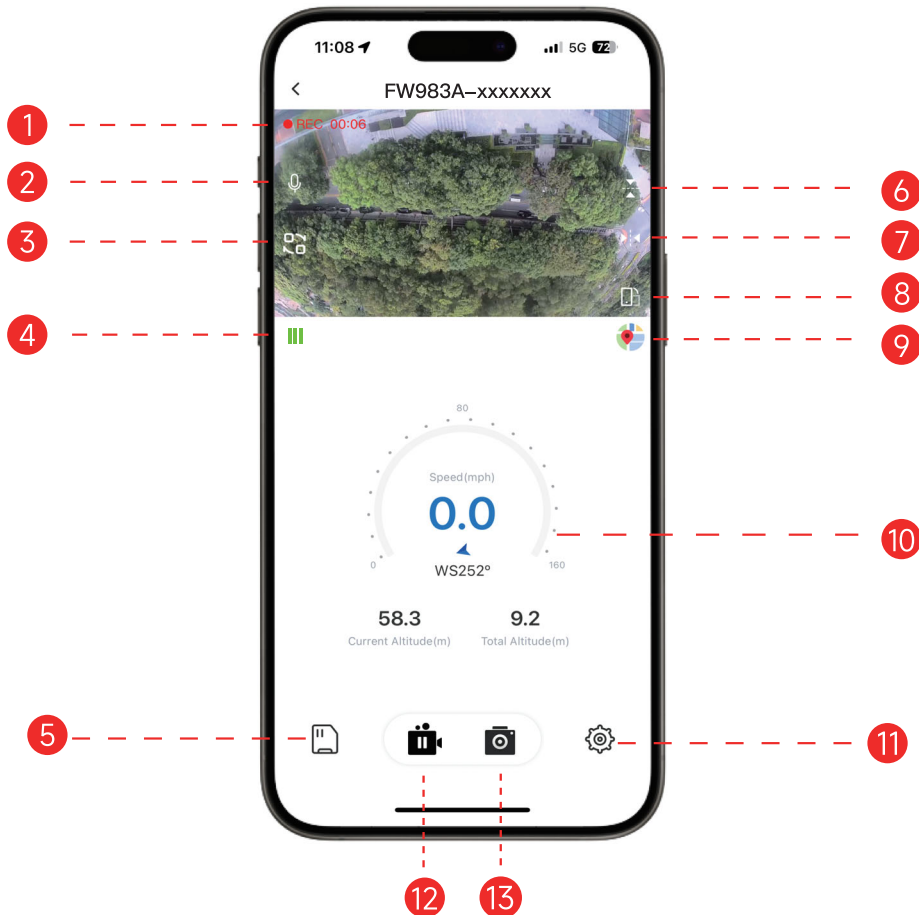
Step 5: Click on "Stay Connected".



Step 6: Enter the main interface of the APP

# System Settings

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- 1 Video icon and recorded duration
- 2 Recording on - off switch
- 3 Switch recording screen
- 4 Indication of GPS signal strength
- 5 Playback and manage video, photo, and other files  
(Click "Camera Files" on the home page to view all your videos and photos. You can also delete or download files here.)
- 6 Flip the video if it appears upside down
- 7 Rotate the video screen left or right (The display is only shown when switched to the rear camera.)
- 8 Full screen display
- 9 Map
- 10 GPS information: speed, longitude and latitude, etc.
- 11 Dash cam settings
- 12 Record start/pause button
- 13 Take pictures

### Recorder Firmware Update

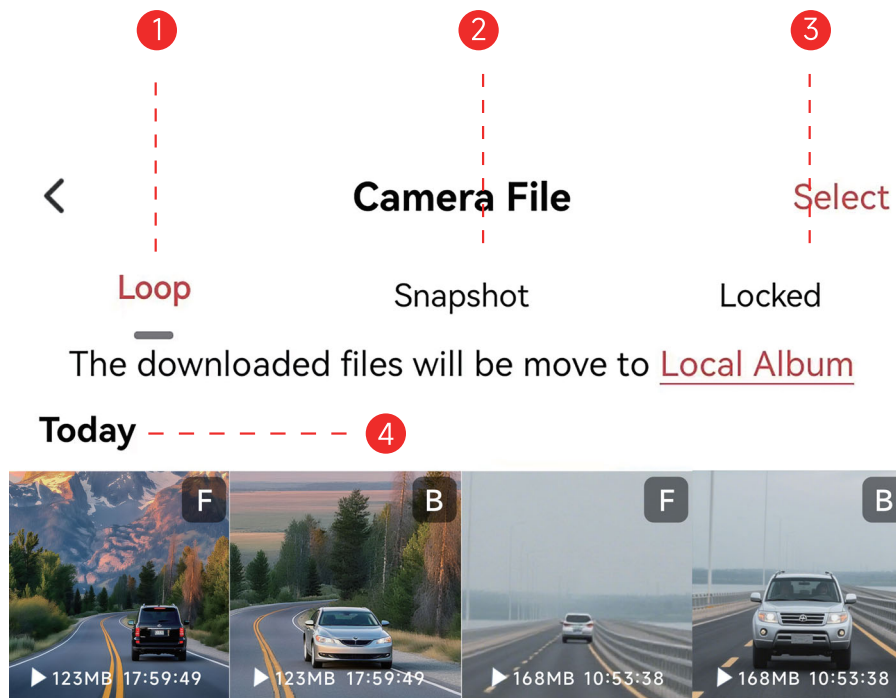
Note: Please update the "TERUNSOUL" application to the latest version to use this function.

- To perform an over-the-air firmware update, please disconnect your phone from the dash cam's WiFi network. Connect your phone to a local area network (not the dash cam's WiFi) for 5-10 seconds, then disconnect. Then reconnect to the dash cam's WiFi network.
- Once the WiFi connection is successful, please open the "TERUNSOUL" application to start using it. If new software is detected, the updated firmware will be displayed on the application page.

- To perform the update, click "Update Now". The "TERUNSOUL" application will prompt you to download the update package.

- Connect the dash cam to send the update package. Do not turn off the dash cam during the upgrade process. After
- the upgrade is completed, the application will display a successful upgrade message, and the dash cam will restart automatically.

## Playback Interface



- ① Loop Video: Normally recorded front - view, interior - view, and pull - back recorded videos
  - ② Snap Event: Snapped pictures
  - ③ Emergency Event: Emergency - locked front - view, interior - view, and pull - back recorded videos
  - ④ Date: Date of the video recording
- Click the preview image to enter playback mode. You can perform download, play, and delete operations.
  - Long - press the preview image to batch - select files for download or deletion.

Note: The playback resolution of undownloaded videos is relatively low. It is recommended to download them before playing.

## Recorder Interface



- 1 Local Album: View the videos and pictures of the recorder. Operations like downloading and playing can be performed.
- 2 More: View APP settings (switch languages, time formats, etc), submit problem feedback (a feedback form will appear when connected to the network), and access "About" information.
- 3 Device Info: View the current device information.
- 4 My Recorder: View the information of the connected recorder.
- 5 Add Recorder: Contact a new recorder and connect to it as instructed.

### GPS File

The FW983A driving recorder has a built - in GPS function. During the use of the recorder, it can automatically detect and search for GPS signals. However, GPS signal reception is strong in open outdoor environments, and weak indoors, in tunnels, or under obstructions., indoors, tunnels, etc.The FW983A can query and display the driving track.

Note: 1. For Android in China, Baidu Maps is used; overseas, Google Maps is used. For Apple, Apple Maps is used. The map needs a network to display the map layers.

2.As long as the device supports the track and implements the GPS protocol, the APP can display the map.

### How to play on a computer

We recommend using the "HIT\_GPS\_Player" as the correct video player for watching/playing videos. It also allows you to view Google Maps.

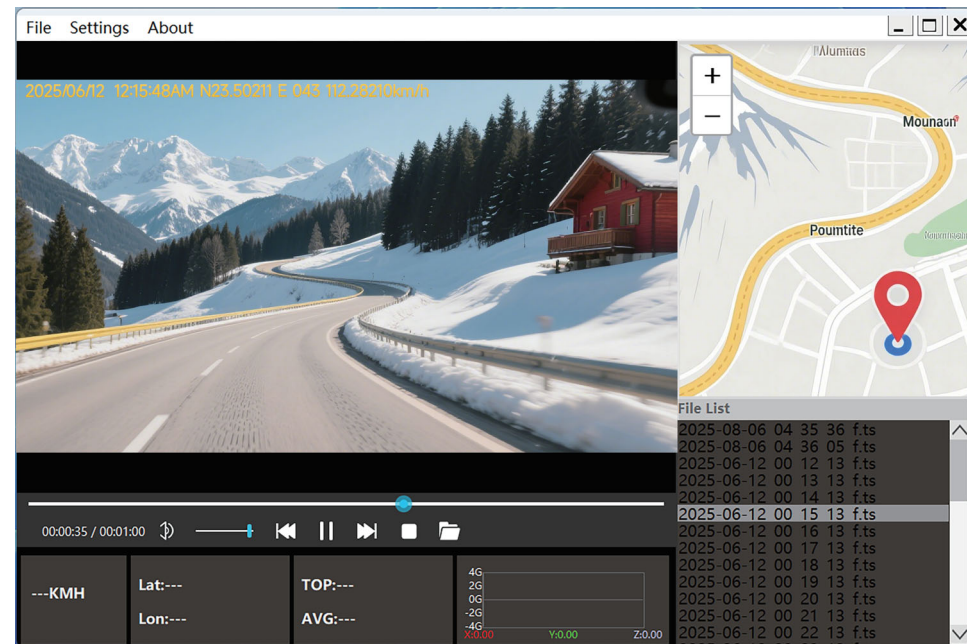
You can download the player for free on Mac or Windows from the following link: <https://pcgps.ce2ce.com/hit/hitplayer.html>

You can select different playback modes in Settings > Video Playback Mode. You can set the playback speed, language, map, and various other functions.



## How to play on a computer

1. Take out the memory card and copy the videos in the memory card to the computer.
2. Connect the FW983A to the computer via a USB-A to USB-C data cable, and select the USB Mass Storage (UMS) mode in the settings menu.



### Additional Instructions

WiFi connection failure: Check the SSID and password of the Wi - Fi. Make sure whether the recorder is powered on or if another mobile phone is connected (only one mobile phone can be connected at a time). Check the working distance of the WiFi, which is approximately 15 feet.

No GPS signal: Disconnect, and clean the cables and ports to remove any dust that may have accumulated around the dashboard camera. Check for any interference sources inside the vehicle, such as metal films on the windshield, radio antennas, or radar detectors. Move the vehicle to an open area. Observe whether the GPS icon on the screen turns green and is displayed.

Recorder fails to record: Ensure whether the memory card is full or damaged. You can format the memory card or replace it for troubleshooting.

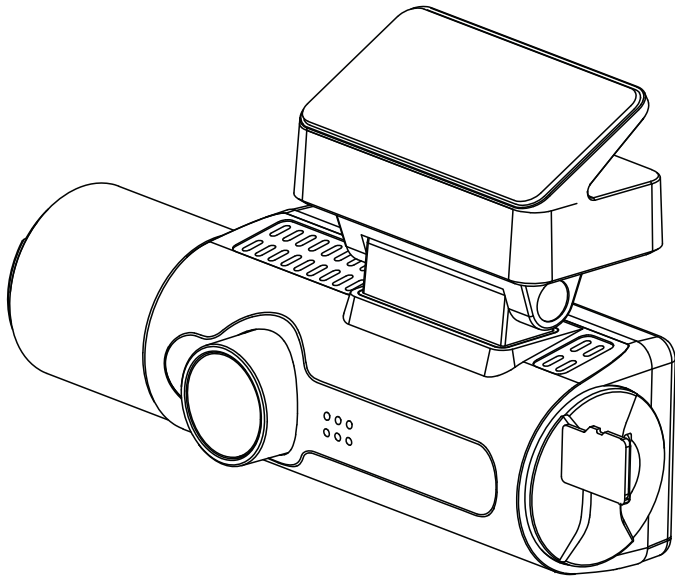
When the APP playback is not smooth: Try to keep fewer background apps running on your phone, move the phone closer to the recorder, or close and restart the APP (WiFi on the same channel competes for bandwidth, and adjacent channels interfere with each other).

Unclear image quality: Check if there is any dirt or obstruction on the recorder lens and the car windshield.

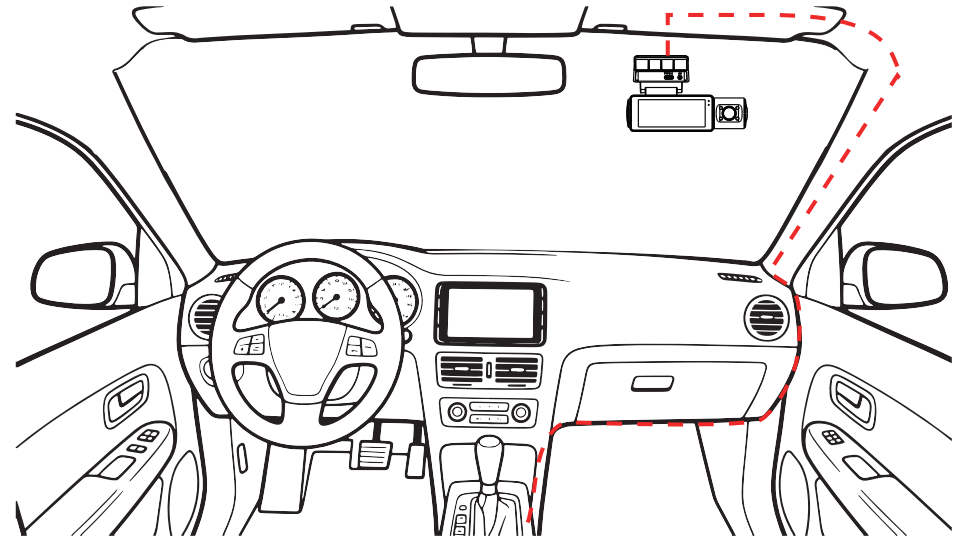
Supports memory cards up to 512GB. To keep the recorded videos smooth, it is recommended to use a high - speed card of Class 10 or above. Meanwhile, do not plug or unplug the memory card when the system is on, so as to avoid damaging the memory card. (memory cards are consumable items. Please maintain them regularly, such as formatting the memory card once every fixed 1-2 months. )

### Functional Operation

1. Insert the memory card and connect to the car charger's Type-C power supply.



2. Connect to the power supply



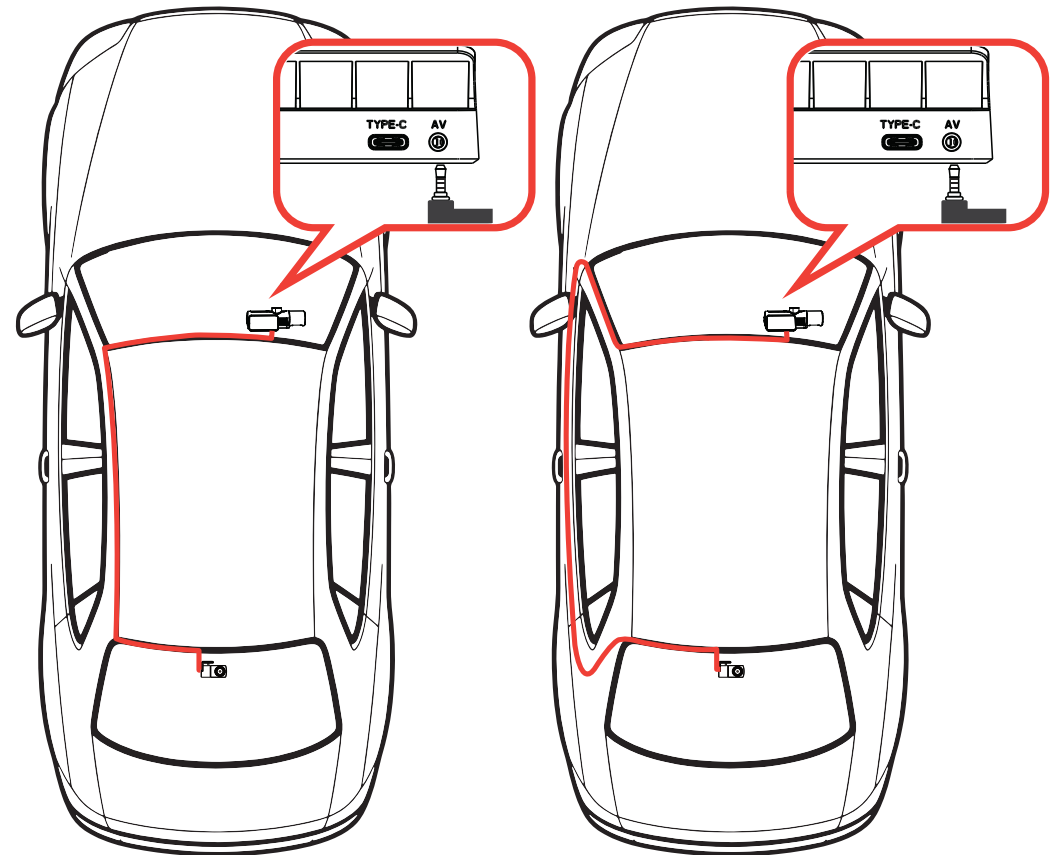
## Functional Operation

3.The rear camera is installed on the rear end of the vehicle or the rear windshield.

4.After powering on, it automatically enters the recording mode and starts recording. During recording, there is a ● icon flashing in the upper left corner of the screen. In case of a collision during recording, the recording icon in the upper left corner of the screen turns yellow, indicating that the video is locked.

5.Short - press the power button to pause the recording. At this time, the ● in the upper left corner of the screen disappears.

6. Short - press the settings button to enter the system settings.



### Notes:

1. Do not insert or remove the memory card while the device is working, to avoid damage.
2. Please pay attention to the insertion direction of the memory card. Inserting it backwards may damage both the device and the memory card.
3. After inserting the memory card into the device, the device will set this memory card as the default storage device, and the data in the original memory card may not be readable.
4. If the memory card is incompatible with the device, please reinsert it or try another memory card.
5. Supports memory cards up to 512GB.
6. Temperature range: -20-70°C.

### **If the recorder displays "card full" or "card error" and fails to record**

1. Check if the G-sensor sensitivity is set to high. If the sensitivity is set too high, bumps and shakes of the vehicle during driving will cause the device to lock files. Locked files cannot be overwritten, and excessive accumulation of locked files will result in the memory card being full and inability to record.
2. When using a new card in the device for the first time, it must be formatted on the device before use.
3. If a "card error" is prompted or "no card" is shown after inserting the card, it is recommended to reinsert the memory card and then try formatting it. If the problem persists, try formatting the card on a computer. If that fails, the card is damaged.

## System Error Message Definition

| Error Message            | Description   | Solution  |
|--------------------------|---|---|
| No Card Inserted         | No memory card detected, unable to record                                       | Please insert a card                            |
| No File                  | 1. No memory card inserted; 2. No files present                                 | Insert a card to record or take photos          |
| Card Error/Please Format | Incorrect card format   | Enter the menu to format the memory card        |
| SENSOR FAIL              | Sensor initialization error, unable to record                                   | If this persists, contact the dealer for repair |
| Memory Card Full         | Insufficient remaining space when taking photos, displayed during photo capture | Delete some files or unlock to free up space    |

### Other Instructions

- 1.WiFi connection failure: Check the SSID and password of the WiFi. Ensure that the recorder is turned on and that no other mobile phone is connected (only one mobile phone can be connected at a time). Also, check the WiFi working distance, which is approximately 15 feet.
- 2.No GPS signal: Disconnect the connection, clean the cables and ports, and remove any dust that may have accumulated around the dashboard camera. Check for any interference sources in the car, such as metal film on the windshield, radio antennas, or radar detectors. Move the car to an open area. Observe whether the GPS icon on the screen turns green and displays.
- 3.The recorder cannot record: Ensure whether the memory card is full or damaged. You can format the memory card or replace it for troubleshooting.
- 4.The APP screen is not smooth or real-time: Try to keep fewer background software running on the mobile phone, move the mobile phone close to the recorder, or close and restart the APP (WiFi competes for bandwidth on the same channel, and adjacent channels interfere with each other).



### Other Instructions

5. Unclear image quality: Check if the recorder lens and car windshield are dirty or blocked.

6. This system supports a maximum of 512GB memory card. To keep the video recording smooth, it is recommended to use a high-speed card of Class 10 or above. At the same time, do not insert or remove the memory card when the system is on, so as to avoid damaging the memory card. (memory cards are consumables, so please maintain them regularly, such as formatting the memory card once every 1-2 months.)



RoHS

**FCC ID:**

**Made in China**

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

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.