

Dash camera

User Manual

Ver: 1.0

Pre-purchase instructions

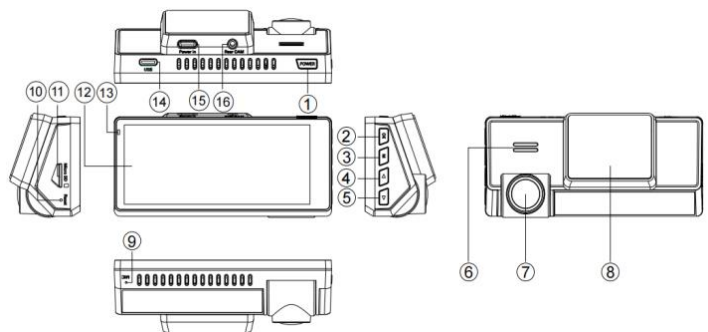
Thank you for purchasing our company's high-definition driving recorder. Please read this manual carefully before using it, so as to get the correct installation method and operation guide.

This product adopts high-performance chip, provides ultra-high definition video, seamless dynamic picture, and supports 2K real ultra-high definition camera shooting. Please read this manual carefully and keep it properly before use. We hope this product can meet your needs and serve you for a long time!

As the product version is updated quickly, the contents of the manual

may be inconsistent with the real thing. Please refer to the real thing, and the manual is for reference only.

一、 Introduction to keys and functions



- | | | | |
|----------------|-------------------|---------------------|--------------------|
| 1. power key | 2. Record/Confirm | 3. Menu/Mode/Lock | 4. Record/Up key |
| 5. Switch/Down | 6. Horn hole | 7. Lens | 8. Bracket |
| 9. Recording | 10. Reset key | 11. TF card slot | 12. display screen |
| 13. indicator | 14. power supply | 15. Power interface | 16. Rear lens |

Power key

★ Press this key briefly to turn on the machine when the machine is turned off, press the key briefly to turn off/turn on the screen when it is turned on, and press this key for 3 seconds to turn off the machine.

Record/Confirm key

★ In standby mode, press this key briefly to start recording, and then press it briefly to stop recording.

★ Under the menu setting directory, press this key briefly to confirm the menu options.

Menu/mode/lock key

★ Press this key for a long time to switch the recording/playback mode in the non-recording state.

★ In the recording/playback mode, press this key briefly to enter the menu settings:

◆ Video menu settings:

In the recording standby mode, press this key briefly to enter the recording setup menu, press it twice to enter the system setup menu, and then press it briefly to exit the menu setting to return to the recording standby mode.

◆ Playback menu settings:

★ In the playback mode, press this key briefly to enter the playback setting menu, press it twice to enter the system setting menu, and then

press it briefly to exit the menu setting to return to the playback mode.

★ In the recording mode, press this key briefly to lock the current video.

Record/Up key

★ Press this key briefly to turn on/off the recording in the standby/recording state.

★ In menu mode, press this key briefly to move the cursor up.

Toggle/down key

★ In menu mode, press this key briefly to move the cursor down.

★ Dual-lens mode: Press briefly to switch the front and rear lens images.

reset key

★ If the system is down or unresponsive, press this button to restart the system.

TF card slot

★ TF memory card with 8GB-128GB C10 or above is supported.

Rear lens interface

★ Input the rear lens video signal to the host through the rear lens connecting line.

Power /USB interface

★ Connect the vehicle charger to provide DC 5V power for the recorder.

★ Connect to computer, recorder can be used as memory or camera.

Installing support

- ★ Fix the machine at the windshield by 3M glue bracket.

Lens knob

- ★ Turn the lens up and down to adjust the angle of the lens.

II. Installation Guide

1. Insert the memory card

Insert the card: push the memory card straight into the card slot according to the direction indicated by TF card icon in the body.

Remove the card: Push the memory card forward, and the card can be removed after it pops up.

- ★ This machine supports 8~128GB TF memory card, and the card speed is Class10 or above.

- ★ If it is the first time to use it, please format TF memory card with this machine first.

2. Connect the power supply

- ★ **Turn off the car engine.**

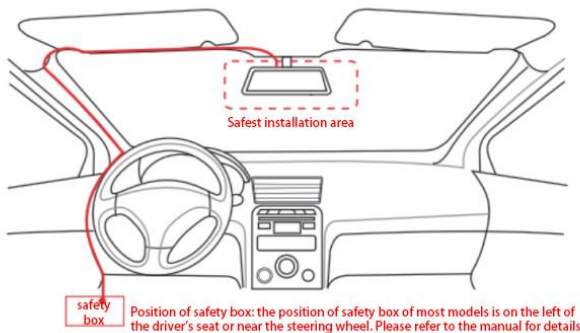
- ★ Fix the machine on the appropriate position of the front windshield with 3M glue and bracket provided with the machine. The installation position should not affect driving, and then wipe the glass at the installation position clean.

- ★ Adjust the lens angle to ensure that the front of the car is just visible

under the vertical angle of the lens; The horizontal direction of the lens is parallel to the ground.

★ Take out the power cord, open the fuse box to get electricity, connect the power cords B+ (yellow), ACC (red) and GND (black) to the fuse box, and connect the other end of the TYPE-C interface to the host.

★ After the power cord is connected to the car fuse box and this machine, put the power cord along the edge or fix it in the edge crack.



★ Start the engine and check whether the machine has been installed correctly and whether the video recording function is normal.

3. After the extension line of the rear lens is inserted into this machine, fix it in the appropriate position of the rear windshield in the car, and put the

extension line along the edge or fix it in the edge crack.

III. Basic operation instructions of camera shooting

1. start (the machine or engine)

This machine has the function of automatic recording. After the car is started, this product will automatically start and start recording. The upper left corner of the screen shows the recording time. In the recording state, there will be a red dot flashing in the upper left corner of the screen. At the same time, during the recording, it is impossible to operate the menu and switch working modes. At this time, press OK briefly to stop recording, and save the video segments on TF card.


★ Tips for use:

- (1) Make sure that the memory card has been placed in this machine and meets the requirements of the corresponding capacity and speed of this machine.
- (2) Make sure the machine has been connected to the power supply.

2. Circular video recording

When the memory card is full, the recorder will automatically cover the earliest recorded image and store it in the latest image. When the car is turned off, stop recording and automatically save the files in the memory card.

3. Switching mode

This machine mainly has two modes: video recording and playback. It automatically enters the video recording mode after being turned on. After short pressing the "video key" to stop recording, long pressing the "mode key" can switch the playback mode, and the playback icon  is displayed in the upper left corner of the screen.

- ★ Press the up key briefly to select the file up;
- ★ Press the key briefly to select the file down;
- ★ Press OK key briefly to play the selected video file;
- ★ Press the menu key briefly to enter the menu settings, where files can be deleted or protected.

Press and hold "mode key" again to return to recording mode.

4. G-sensor

When this function is turned on, when the collision sensitivity reaches the trigger value, the image at the time of collision can be locked to prevent it from being covered in the loop recording.

5. Parking monitoring: instant video recording (options: off, 12 hours, 24 hours, 48 hours)

- ★ Select "Off" to turn off the parking monitoring, that is, the recorder will automatically shut down after the car is turned off;
- ★ Select "12 hours", that is, after the car is turned off, it will enter the

parking monitoring and recording state. Without starting the car, the recorder will automatically shut down after 12 hours of continuous work (select 24 hours, that is, it will automatically shut down after 24 hours of flameout, and 48 hours, that is, it will automatically shut down after 48 hours of flameout);

★ Auto-switch to video recording when the car is turned off, in which 30 minutes are saved as 1 minute video (saving video memory), and auto-switch to normal video recording when the car is turned on;

★ The machine with time-lapse video recording is equipped with wire supporting under-voltage protection box as standard, that is, it detects that the voltage of automobile battery is below 11.6V, that is, under-voltage protection, and the protection box automatically cuts off the power supply.

IV. Operating Instructions for WIFI and APP Applications

The native WIFI Direct protocol is supported, which allows devices to wirelessly connect and transmit data via WIFI without going through a router. Through this protocol, you can use your mobile phone to control the recorder wirelessly for free, and preview and download the videos, pictures and other files in the recorder without consuming the cellular network traffic of your mobile phone.

★ Turn on the WiFi function in the recorder menu or long press the select key;

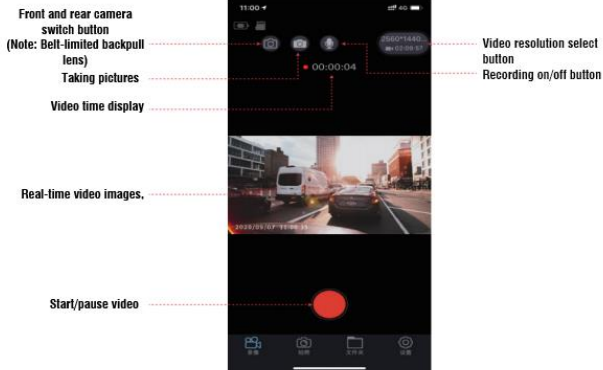
★ Mobile phone can download "LuckyCam" in the APPlication market or scan the QR code below to download the app and install it;



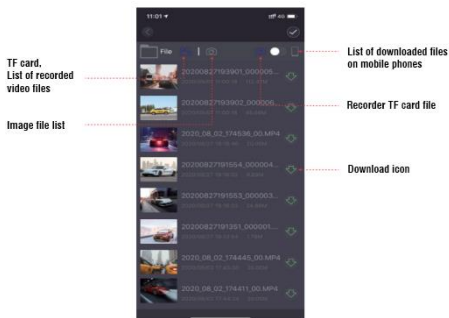
★ Search for this machine through mobile phone WIFI (the name of the machine WIFI usually starts with NVT_), enter the password to establish a connection (the default password is 12345678), and open the APP on the mobile phone to see the real-time video screen of this

machine:

Mobile APP operation instructions




Key Function diagram of mobile APP operation interface (I)



手机APP操作界面按键功能图(二)

Video preview: After the App connects to the recorder successfully, when the recorder is stopped, click the "File" menu to enter the camera folder, and click the corresponding video to play the current video (note: direct preview will have video progress buffer)

Download video: Click the  download icon in the video list to download the video to be downloaded. The progress bar of the file download reaches 100%, indicating that

the download is complete, and the downloaded video is saved in the mobile phone download list.

Preview: Click on the  icon to display pictures of photos or video screenshots.

Note: * The video played back by mobile phone is compressed. If you want to watch the original HD video, please download it from your mobile phone and play it or insert TF card into your computer to watch it.

*WIFI function requires high terminal performance due to the large amount of real-time interactive data, which may lead to unsuccessful connection or interruption due to mobile phone software and hardware compatibility, processing capability, wireless interference in the car, etc. Such problems are not native performance failures;

* Please confirm that you have purchased the version that supports WIFI function.

V. Post-recording video

★ Connect the post-recording camera, and the machine screen will display the post-recording image in real time.

★TF card also saves files with suffix "R" and records video.



Remarks: Post-recording video is an optional version, only suitable for recorders with post-recording, and the appearance pictures of post-recording cameras are for reference only.

VI. Basic Settings

1. resolution:

★ One-way: QHD P30/FHD P30 (i.e. 2560*1440 P30/1920*1080 P30), the default QHD;

★ Two channels: QHD P30+FHD P30/FHD P30+FHD P30 (i.e. 2560 * 1440 P30+1920 * 1080 P30/1920 * 1080 P30), default QHD P30+FHD P30, select the corresponding resolution and click OK to switch the resolution.

2. Loop video recording: 1 minute /3 minutes /5 minutes, the default is 1

minute, (for example, if 1 minute is selected, the video saved by TF card is a video in 1 minute).

3. WDR: Off/On, on by default, which can effectively adjust the over-strong or under-weak light source to make the shooting effect clearer.

4. Gravity sensing: off/low/medium/high, which is set to "medium" by default, that is, when the collision sensitivity reaches the trigger value, the image during the collision can be locked to prevent it from being covered in the loop recording.

5. Audio recording: Off/On, which is set to "On" by default. Turn on video recording, and select "Off" to turn off recording.

6. Date: Off/On, which is set to "On" by default, that is, the time and date of recording video will be displayed by watermark.

7. Parking monitoring: Off /12 hours /24 hours /48 hours. The default setting is "Off". If "12 hours" is selected, the car will enter the parking monitoring and recording state. Without starting the car, the recorder will automatically shut down after 12 hours of continuous work (select 24 hours, that is, automatically shut down after 24 hours of flameout, and 48 hours, that is, automatically shut down after 48 hours of flameout).

8. Two-way video recording: front/back/front big and back small/front small and back big. The default is "front big and back small", that is, the recording interface shows that the front picture is a big picture and the

back picture is a small picture.

9. WIFI: The default setting is "Off", select "On" or press and hold the up key to turn it on, and connect through the mobile APP.

10. Date/Time: select the pop-up date and time from the menu, and manually adjust the current date and time, or connect to the mobile APP setting menu and select time setting, and click "Auto Sync" to set the current date and time.

11. Key sound: off/on, the default is "on", that is, when the key is pressed, there is a key sound.

12. Language setting: The default language is "Simplified Chinese", and there are many languages to choose from in the setting menu.

13. Screen saver backlight: Off /1 minute /3 minutes /5 minutes is "1 minute" by default, that is, the machine system enters the screen saver black screen mode after 1 minute without any operation; Select "Off", that is, the display is always on.

14. Format: Format. Select "Confirm" to delete all data of TF card.

15. Default settings: select "Confirm" to restore the default settings.

16. Version: version information of native software.

VII. Parameter setting

Hardware parameters:	
Image sensor	High definition 4 million CMOS professional image sensor
monitor	3.99 inch IPS HD display
quick time	MP4 format
Loudspeaker external sound	support
operating voltage	DC 5V
storage	TF card, the maximum support is 128GB, and the card speed is above C10.

Operating temperature (°C)	(-10°C~65°C)
Functional features:	
language	Support for multiple languages
Circular video recording	support
WiFi	support
Parking monitoring	support
Gravity induction	support
Recording function	support
Storage mode	H.264/H.265 coding
emergency power supply	Super capacitor

VIII. FAQ:

Q1: What should I do if I forget the WIFI password of the recorder?

Answer: The initial password of the recorder from the factory is:

12345678. If the password is forgotten after the change,

Please contact the manufacturer to re-burn the software after sale to restore the factory settings.

Q2: Why do you want to format the memory card? How often is it formatted?

A: Regular formatting can effectively prevent data loss.

Under normal circumstances, it is recommended to format TF card regularly every month. Please back up all data before formatting.

Q3: How to format a memory card?

Answer: In the host settings menu, click Format, and confirm the formatting is complete;

When the mobile APP is connected to the recorder, enter the settings option-select the format option, and click the format button to confirm the format completion.

* In order to avoid the dispute of supporting driving images, please set the recorder to the correct date and time.

* Please keep the front glass of the vehicle and the lens of the driving recorder clean to ensure that the recorded image is clear.

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.

Any 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.

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 & your body.