VANTRUE

3-Channel Voice Controlled
Smart Dash Cam

User Manual

Nexus 4 Pro (N4 Pro)

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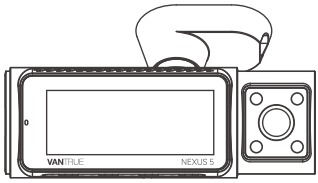
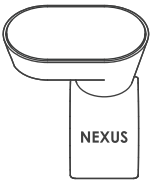
1. What's in the Box?

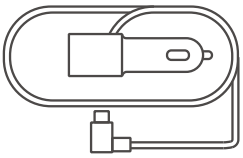


A. Vantrue N4 Pro Dash Cam

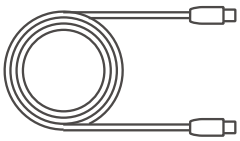
B. Rear Camera



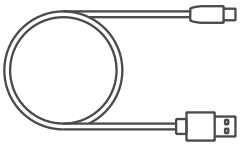
C. GPS Adhesive Mount



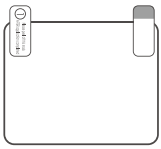
D. Car Charger with Built-in Type-C Cable (11.5ft)



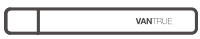
E. Rear Camera Cable (20ft)



F. Type-C USB Data Cable (3.3ft, for data transfer only)



G. Electrostatic Stickers*2

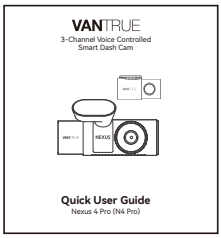


H. Crowbar

I. Dust-free Cloth

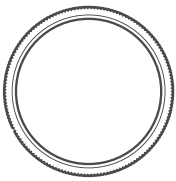
J. Warning Stickers *2

K. 3M Adhesive Stickers*2



L. User Guide

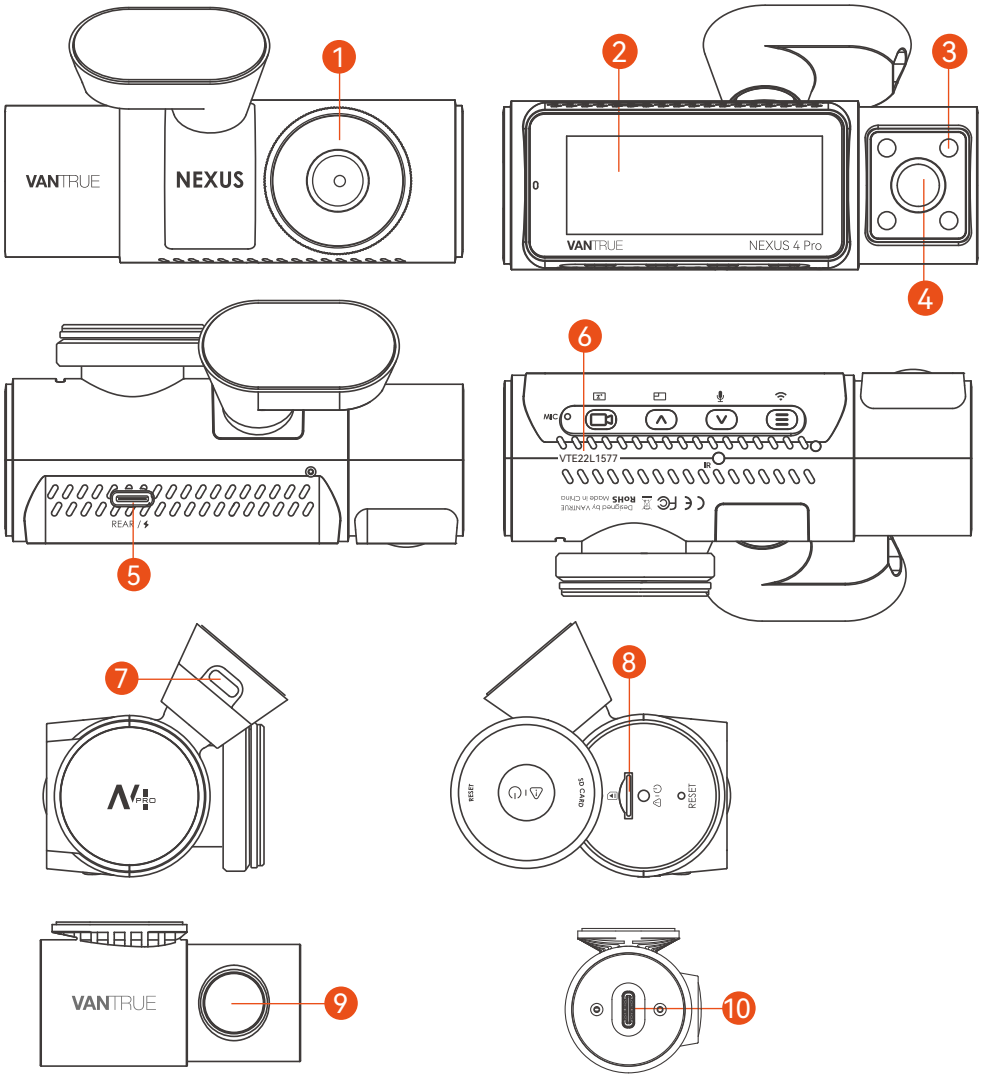
Optional Accessory



M. CPL Filter

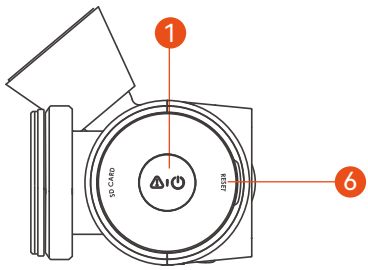
N. Wireless Remote Control

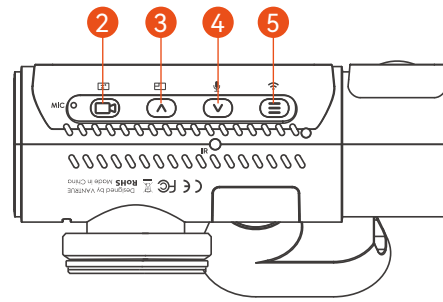
2. Camera Overview



1. Front Camera
2. 3.19" IPS screen
3. Infrared Lights for Cabin Camera
4. Cabin Camera
5. TYPE-C Port for Connecting Rear Camera Cable or Transferring Data
6. Serial Number
7. TYPE-C Port for Charging
8. Memory Card Slot
9. Rear Camera
10. TYPE-C Port on Rear Camera

KEYS AND FUNCTIONS



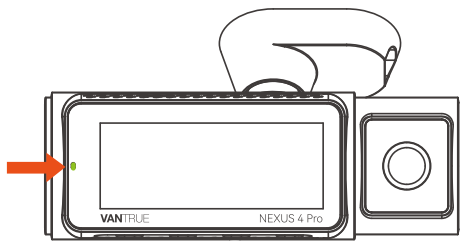


No.	Key	Instruction
1.		In the power-on state, long press to turn off the camera; in the power-off state, short press to turn on the camera. In the recording interface, short press to turn on emergency recording and snapshot. In file browsing, short press to pop up the menu for deleting files
2.		In the recording screen, short press to turn on or pause the recording. In the menu settings, short press to confirm the option. In the playback video, short press to play the video or pause the video.
3.		During video recording, short press to switch the video window; In the menu setting and file browsing screen, short press to select the previous option or file, and long press to scroll through the above options or files. When playing back the file, short press to play back the video at 2X and 4X times speed.
4.		During video recording, short press to turn on/off the microphone; Long press to enter parking mode (this operation can be done with parking mode on) In the menu settings and file browsing screen, short press to select the next

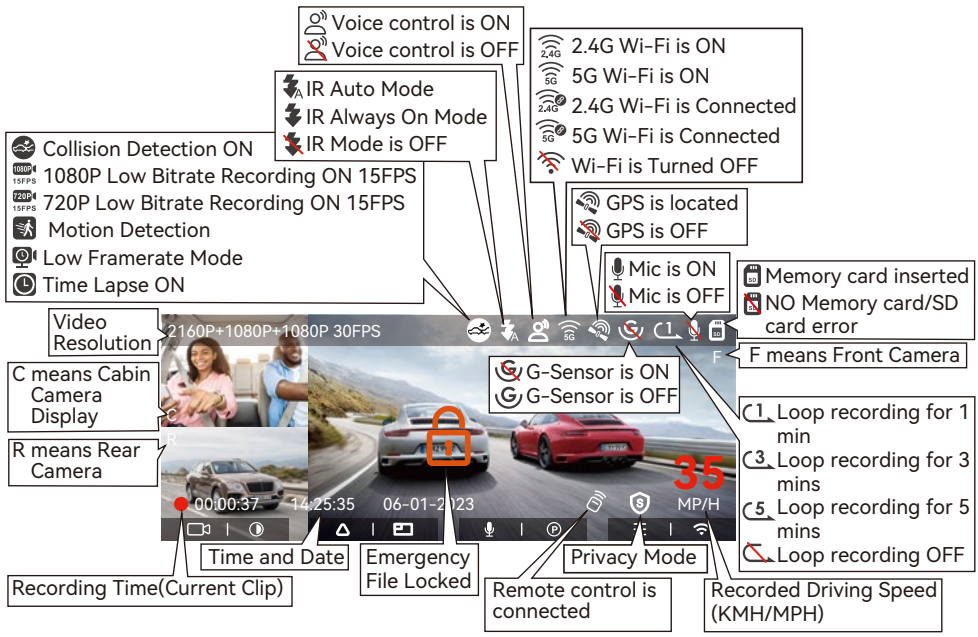
		option or file and long press to scroll through the options or files below. When playing a file, short press to pop up a menu for deleting files.
5.	☰	During video recording, long press to turn on/off Wi-Fi; In the menu setting and file browsing interface, short press to return to the previous interface.
6.	○ RESET	Short press to restart the camera

LED Indicator

LED	LED Status	Description
REC	Steady green light	In standby
	Blinking green light	Camera is recording



Screen Overview



File Format Definition

20300128_140933_0008_N_A.MP4
20300128_140833_0007_P_B.MP4
20300128_140733_0006_T_C.MP4
20300128_140633_0005_S_A.MP4

Year Date Time Sequence Number

A for the front camera
B for cabin camera
C for rear Camera

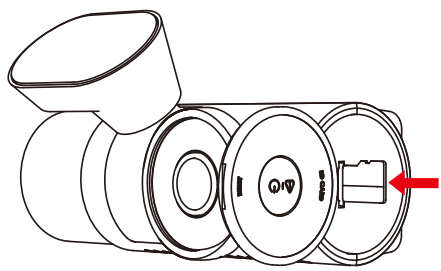
P for the video recorded in the parking mode

N for loop recording
T for time lapse video
S for privacy recording
E for event recording

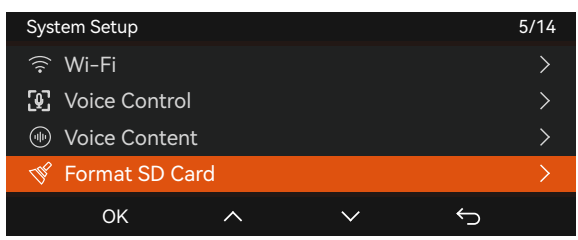
3. Installation

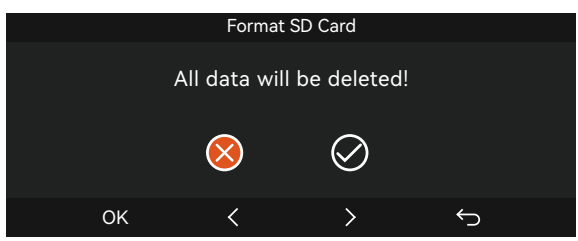
3.1 Inserting a Memory Card (Recommended: Vantrue high-speed microSD card).

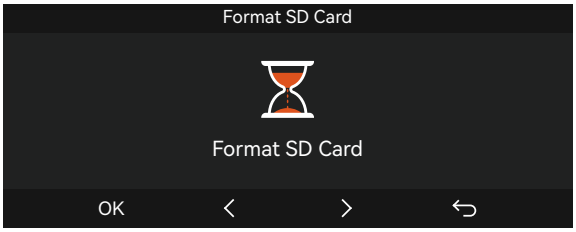
You need to push the memory card(Memory card capacity: 32GB -512GB, card speed requirements: U3/ Class10/A2) into the slot with your fingernail (in the direction shown) until you hear a "click" from the slot, which indicates that the card has been inserted correctly.

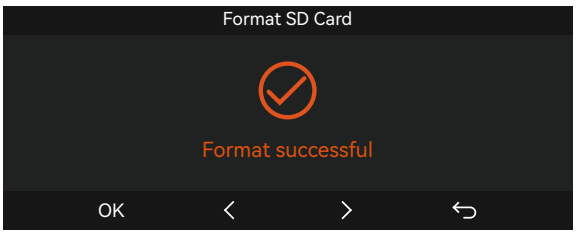


After inserting the memory card, if the screen prompts "SD Card Error" (please note that the dash cam does not record at this time), please go to the "System Set up" menu and select "Format", click OK to "Format memory card" until it prompts "Format successful".









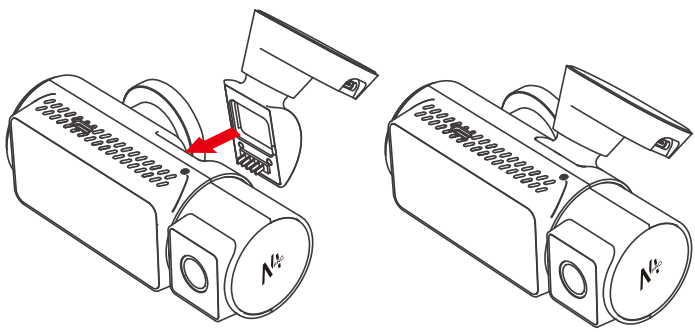
REMINDER:

- The dash cam has certain requirements for the card speed of the memory card. It requires a U3/Class10/A2 memory card. If the card speed is not fast, there may be problems such as missing files, frequent error reporting by the memory card, and abnormal video files.
- Memory cards are sold separately. We recommend choosing VANTURE's custom high-speed A2-class memory cards.
- We recommend formatting the card once a month to ensure the normal operation of the dash cam.
- Do not remove or insert the memory card during recording to avoid losing important videos.

3.2 Installation

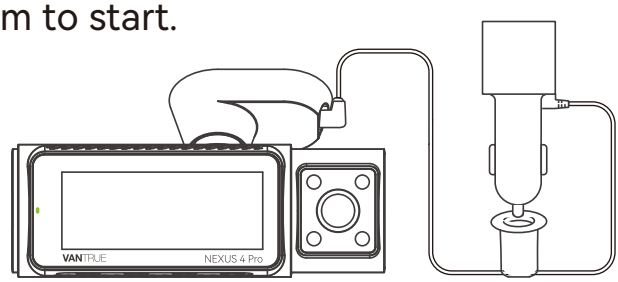
3.2.1 Installation of Front Camera Mount

Align the mount with the dash cam mount interface then push in until the mount is installed.



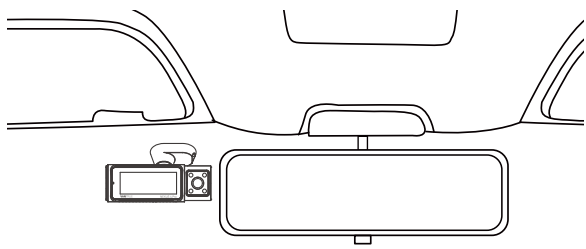
3.2.2 Car Charger Installation

Connect one end of the car charger to the car cigarette lighter and the other end to the Type C port on the front camera mount. Start the ignition, waiting for the dash cam to start.



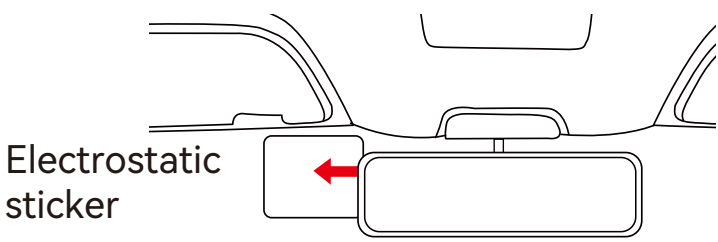
3.2.3 Power on the Dash Cam to Select the Installation Location

Before installing the N4 Pro front camera, please turn it on and check whether the shooting angles of the front camera and the cabin camera are suitable through the screen of the N4 Pro.



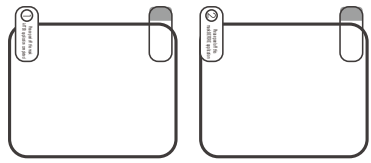
3.2.4 Installation of electrostatic stickers

Thoroughly clean the windshield with water or alcohol, then wipe it with a dry cloth. Stick the electrostatic sticker next to the rear- view mirror, which is the recommended position to prevent blocking your view while driving.



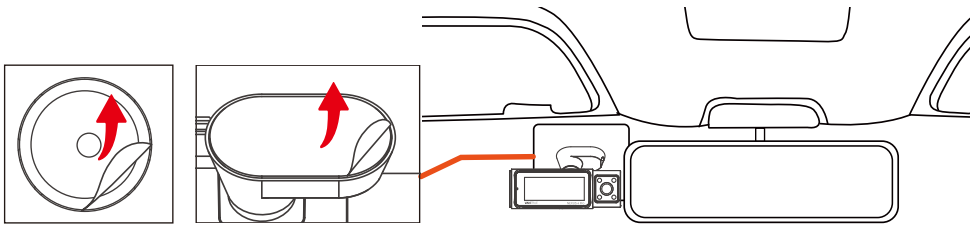
Note: There are two protective films numbered 1 and 2. Please remove the protective film from No. 1, paste the electrostatic sticker on the windshield, and then remove

the protective film from No.2. Remove the 3M tape from the mount, then fix the mount and camera on the electrostatics stickers.



3.2.5 Front Camera Installation

Remove the protective film from the mount, then fix the mount and camera on the electrostatics stickers.



3.2.6 Rear Camera Installation

Please select the installation position on the rear windshield. Remove the protection film of the sticky pad and rear camera lens. Take out the rear camera cable and connect the rear camera to the front main camera with the rear camera cable, and connect the car charger to power on.
After the camera is powered on, choose a suitable location and install it.

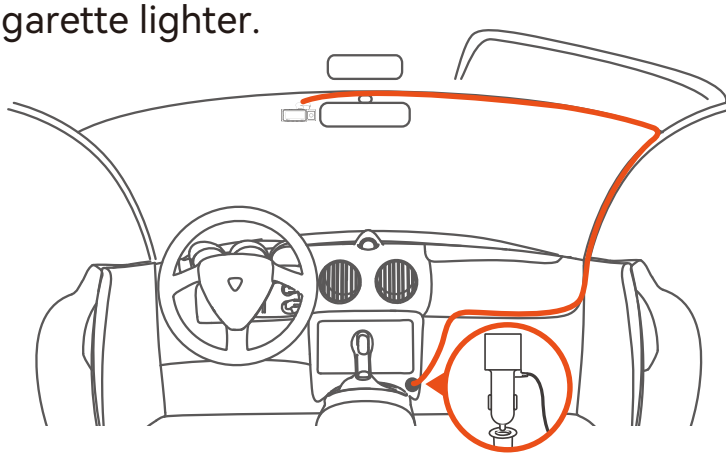
Note:

- We recommend that you select a position close to the center of the rear windshield, and avoid the defogging line on the rear windshield, so as not to affect the video effect.

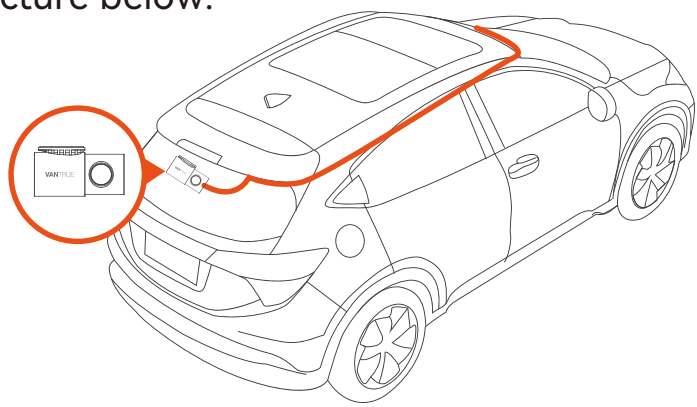
- After the rear camera is fixed, it is recommended that the lens be cleaned with the VANTRUE matching dust-free cloth.
- The angle of the cabin camera can be adjusted up and down by 45°, and the rear camera can be adjusted by 360°.

3.2.7 Wire Arrangement

Car charger cable: Use the VANTRUE included pry bar to insert the car charger cable into the seal of the A-pillar and windshield, from the passenger position to the cigarette lighter.



Rear camera cable: Arrange the rear camera cable from the front windshield to the rear windshield, as shown in the picture below:



3.3 APP Download

Please scan the QR code for the relevant version below to download the app and install it. Search for the "Vantrue" app in App Store or Google Play Store to find the app and then download and install it on your phone.

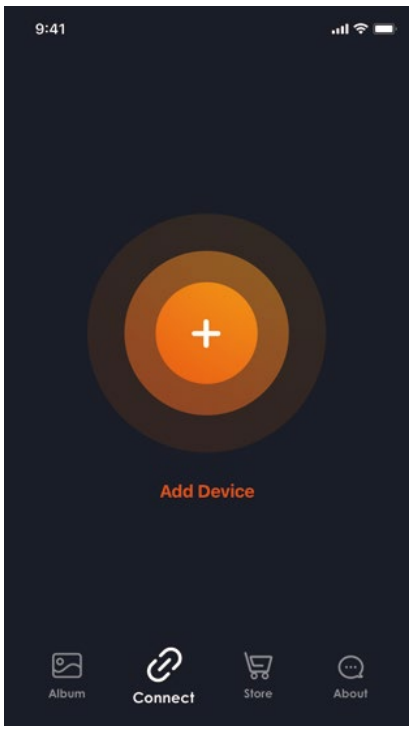
Download on the App Store

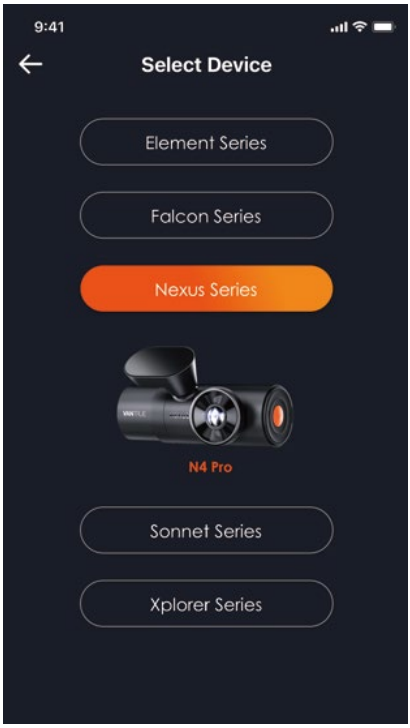
ANDROID APP ON Google play

3.4 Wi-Fi Connection

The camera's Wi-Fi will automatically turn on for 10 minutes when the N4 Pro dash cam is turned on, and the Wi-Fi will automatically turn off after 10 minutes of no operation. Users can re-enable the camera's Wi-Fi through shortcut keys, voice control or go to the menu to set these 3 ways.

After the Wi-Fi of N4 Pro dash cam is turned on, click "Add Device", select Nexus series, choose N4 Pro model, confirm the corresponding Wi-Fi name, and finally click to confirm the Wi-Fi connection.

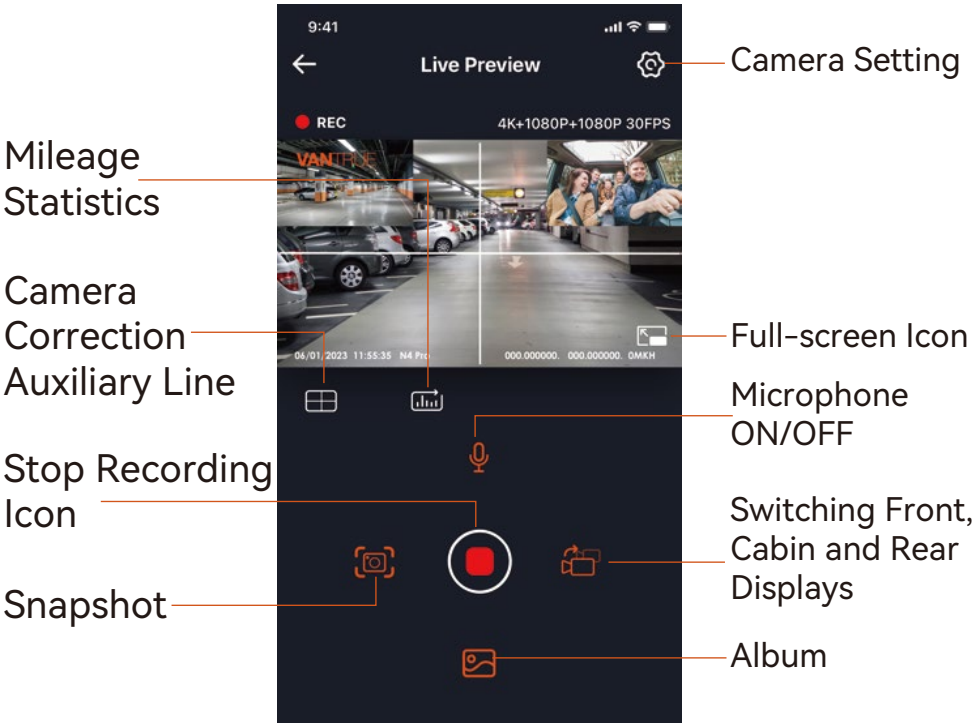




Note:

- Before connecting to the camera's Wi-Fi, please check if the phone's Wi-Fi function is on.
- The initial password for this device is only used for initial login. In order to prevent potential security risks, please be sure to change the initial password after the initial login to prevent others from logging into your device without authorization or other adverse consequences.
- If you forget the Wi-Fi password, you can restore the default setting of the device, and the Wi-Fi of the device will also be restored to the default password(12345678).
- After your phone successfully connects to the camera's Wi-Fi, you can operate live video preview, change camera settings, play back videos on the dash cam on your phone, and other functions. However, the GPS track playback and video sharing functions will depend on the internet or telecom value-added services (requires you to turn off/disconnect the camera Wi-Fi).

3.5 APP Connection



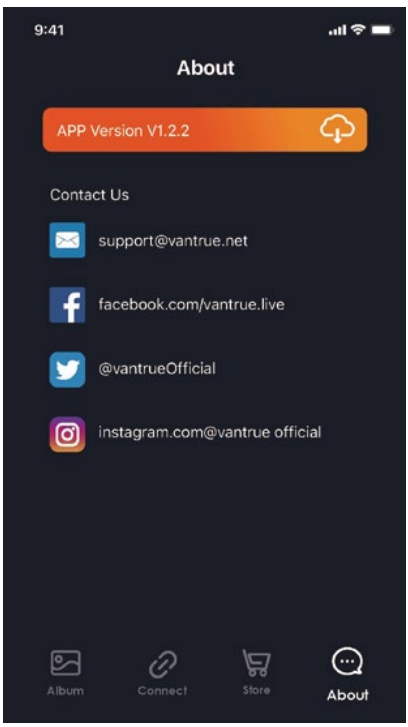
After entering the APP real-time preview, you can do the following operations.

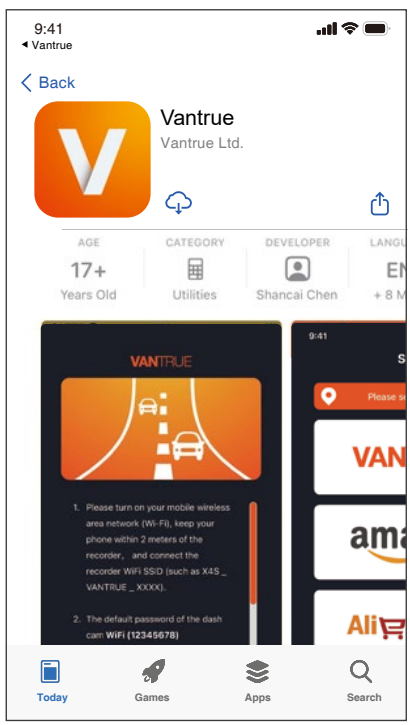
1. Video preview: After the APP connects to the recorder successfully, the recorder enters the real-time preview page, click the full screen button or cell phone horizontal playback, the real-time screen automatically switches to full screen preview mode. Click the window switch button to switch the front, cabin and rear video windows, but only multi-channel recording mode can use this function.
2. Playback video: You can view the recorded video or photo files in the SD card in the APP, click "File" and then select the video to play back.
3. Video download: You can choose to download videos or pictures in the SD card browse file interface or in the video playback. After downloading the video, you can play it in the App local file and view the GPS track of the video.
4. Video capture: App real-time preview interface can capture the current picture.

5. Mileage statistics: users can click to download the mileage information according to their needs. The mileage information will be saved in the APP as a picture or PDF file.
6. Camera correction line: The lens balance is corrected by the accurate cross line, so that the recording image will not be skewed.
7. OTA upgrade: Remote upgrade N4 Pro front and rear camera through APP, please refer to 4.2.12 content description for details.

3.6 APP Upgrade

Open "Vantrue" App, connect the camera Wi-Fi, go to "Settings> About", click "Detect new version", the App will automatically detect whether the App version is the latest version. If there is a new version of the App, follow the instructions of the App to operate and upgrade the version.



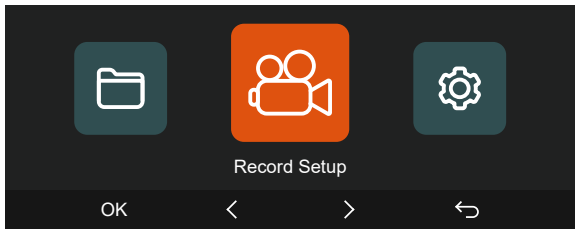


4. Basic Operation

4.1 Menu Settings

The N4 Pro dash cam has 3 function menus, which are: record setup, system set up, and files. You can set your dash cam according to your requirements with these function setting.

Press the button, pause the video first, then press the button to enter the menu settings.



A.Record Setup

-Resolution: The N4 Pro camera has 4 resolution modes:

Front + Inside + Rear Recording:

2160P+1080P+1080P 30FPS;
2160P+720P+720P 30FPS;
1440P+1080P+1080P 30FPS;
1440P+720P+720P 30FPS;
1080P+1080P+1080P 30FPS;
1080P+720P+720P 30FPS;
720P+720P+720P 30FPS

Front + Cabin Recording:

2160P+1080P 30FPS;
2160P+720P 30FPS;
1440P+1080P 30FPS;
1440P+720P 30FPS;
1080P+1080P 30FPS;
1080P+720P 30FPS;
720P+720P 30FPS;

Front + Rear Recording:

2160P+1080P 30FPS;
2160P+720P 30FPS;
1440P+1080P 30FPS;
1440P+720P 30FPS;

1080P+1080P 30FPS;
1080P+720P 30FPS;
720P+720P 30FPS

Front Recording:

3840x2160P 30FPS;
2560x1440P 30FPS;
1920x1080P 30FPS;
1280x720P 30FPS

-Loop Recording: Default setting is 1 min. You can choose the options among 1/3/5 min and OFF.

-IR LEDs: The default setting is Auto. You can set it to auto/off/ on.

-G-Sensor: Select the level of G-sensor you need, then you can set 3 directions (Front + Rear/Left + Right/Up + Down). The G-sensor value in each direction can be selected as 1/2/3/4/5/ Off. The higher the sensitivity level, the easier it is to trigger event recording. G-sensor is most sensitive when set to 5.

-Privacy Mode: The default setting is off. You can choose to turn it on, and it will record in private mode after turning it on.

-Audio Recording: The default is ON. Set recording to on or off.

-Exposure: You can set the camera exposure value of the front/inside/rear camera of the car separately. The default is +0.0.

-REC Status Light: Default setting is ON. You can choose to turn on/off the recording status light.

-HDR: The default setting is on. You can adjust the HDR on or off of the front, interior, and rear cameras separately.

-Rotate Display: Default is off. You can choose to flip the video screen up and down (180 degrees) for the front + cabin, and rear camera.

-Mirror: The default setting is on. When it is on, the screen of the cabin and rear camera is displayed in mirror mode.

-Number Plate: Select the number or letter to be set. After setting, your license plate number can be displayed in the recorded video.
-Stamp: Enable or disable the watermark stamp on video and photos. The watermark stamp includes time and date label, VANTRUE label, license plate number, GPS location information, and speed label. All enabled by default.
-Time Lapse: The default value is disabled. You can choose to enable 1FPS/5FPS/10FPS/15FPS.
-Parking Mode: You can choose the parking mode you need, including Collision Detection/Motion Detection/Low Bitrate Recording/Low Framerate Mode/OFF.
-Low-light Night Vision in Parking Mode: Default is on. When turned on, it can optimize the recording effect of videos in parking mode.
-Motion Detection Area: Adjust the motion detection range of the front area and the rear area of the car respectively.
-Mileage Statistics: The default setting is on. Turn on this function, the dash cam will record the mileage information, and you can export the mileage statistics through the mileage statistics function in APP.
-GPS Settings: GPS is enabled by default. GPS ON/OFF settings, speed unit settings, and GPS information are all set here.

B. System Setup

-Language: Available languages are Engish/Français /Español/Deutsch/Italiano/简体中文/русский/日本語 /Polski/한국어.

-Wi-Fi: You can choose Wi-Fi mode, view Wi-Fi information, etc.
The Wi-Fi auto-on option means that the Wi-Fi will automatically turn off after 10 minutes of turning on. If you choose on, Wi-Fi will always stay on; if you choose off, Wi-Fi needs to be turned on manually.

Wi-Fi mode is 5G by default.
Wi-Fi information displays the Wi-Fi name and Wi-Fi password.
-Voice Control: The default sensitivity is Standard. Voice commands can be recognized after the option is turned on. You can choose options such as low sensitivity/high sensitivity/standard/off.
-Voice Content: You can use different commands to remote control the camera to work.
-Format SD Card: Format all data on the memory card.
-Format Reminder Setup: Select the reminder options: 15 Days, 1 Month, and Off. Default is off.
To prevent you from forgetting to format the memory card regularly, we have added a format reminder time setting. You can choose to be reminded after 15 days or 1 month, and calculate 15 days or 1 month from the set date. When the time is up, you can choose "OK" to format, or choose "Next."
Note: If you changing the format reminder option, the timing will restart as soon as the option is changed.
-Date&Time: There are two ways to set the time and date:
1. GPS auto update: GPS will update the time automatically when it is turned on by default. GPS auto update date and time is based on the time zone where you set, so you need to choose the correct time zone first;
2. Manual set date/time: Turn off GPS auto update and set date and time manually.
Summer/Winter time auto switch: The default setting is off.
When turned on, it will switch automatically according to the daylight saving time and winter time dates.
*This feature is only available in North America, if used in other regions, it may cause time errors.
The date format and time zone settings are also set in this menu.
-Auto LCD Off: Set the time to automatically turn off the LCD display after no operation.
If you set the Auto LCD Off to 3 min, the camera’s LCD

screen will auto light off after 3 min but recording will continue. If the setup is Off, the screen will not turn off. You can choose the options among 30s, 1Min, 3Min and OFF.

-Device Sound: Set the volume of the device. The default volume level is 2, the lowest is 0, and the highest is 5.

-Warning Tone: According to different situations, the dash cam is set with 5 kinds of prompt tones, which are power-on/off sound, keys sound, file locked sound, format sound, and abnormal stop recording reminder. All prompt tones are turned on by default.

-Frequency: Different countries have different frequencies. In order to avoid affecting the video, you can choose 50Hz or 60Hz frequency according to different regions.

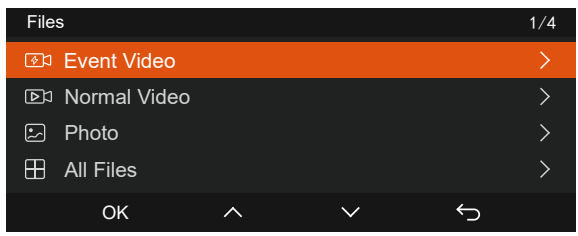
-System Info: Check the current model, firmware version, and the Vantrue official website.

-Certification Info: You can view the certification information of N4 Pro dash cam.

-Default Settings: Reset the device back to factory settings.

C. Files

Review the video and photo files recorded by the camera.



-Event: Critical event videos detected by G-Sensor activity or manually locked by user.
20300128_140633_0008_E_A.MP4
20300128_140633_0008_E_B.MP4
20300128_140633_0008_E_C.MP4

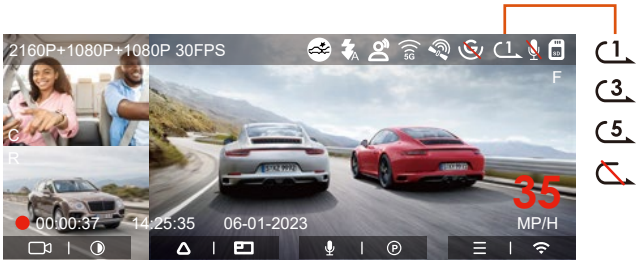
-Normal: Standard videos recorded. This folder saves loop recording video, parking mode video, and time-lapse video

and private mode video.
The file name format of Loop Recording video is: 20300128_140933_0008_N_A.MP4;
the file name format of Parking Mode video is: 20300128_140833_0007_P_A.MP4;
the file name format of Time-Lapse video is: 20300128_140733_0006_T_A.MP4;
the file name format of Time-Lapse video is: 20300128_140633_0005_S_A.MP4
-Photo: Photos files. The file name format of Loop Recording video is: 20300128_140633_0005A.JPEG、20300128_140633_0005B.JPEG.
-All: All the standard videos and critical event videos recorded.
Note: The suffix A represents the files recorded by the front camera, the suffix B represents the files recorded by the rear camera.

4.2 Key Features

4.2.1 Loop Recording

After inserting the memory card and connecting the power, the N4 Pro dash cam will automatically turn on and enter loop recording. The duration of each recorded video will be saved based on the loop recording time you set, saved in the normal video folder.
When the capacity of the normal video folder reaches 70% of the total capacity, the new loop recording file will automatically overwrite the original loop recording files. After this function is enabled, the video file will automatically overwrite the loop, so as not to stop recording during the driving process.



Note:

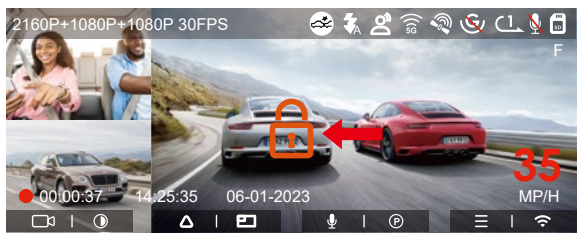
- The normal operation of the loop recording function is very dependent on the speed of the memory card, so please format the memory card regularly to avoid problems such as excessive memory card files and card aging that affect the normal loop recording.
- Please check the loop recording video regularly to avoid the necessary videos being overwritten by loop.
- After loop recording is turned off, the lock video function will no longer work.
- When the loop recording setting is turned off, the length of each recording is 20 minutes. When the memory card is full, the camera will stop recording and prompt "card is full!"

4.2.2 Event Recording

Event video is triggered by the G-sensor(Gravity Sensor), which can be automatically triggered or manually locked.

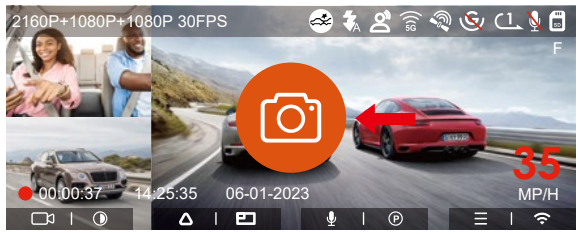
During driving, in case of special circumstances, the camera will automatically lock for event recording or you can manually lock it for event recording.

To manually lock the video, just press the button to lock the current video and capture it. During the lock video period, you can press the button to capture multiple times. After the event recording is finished, the video will be automatically saved in the event video folder and the photo will be saved in the photo folder.



Auto-lock event recording: When the car is hit by a collision or vibration, the recorder will automatically trigger and lock the current video when it senses the vibration. You can also press the button to capture

pictures during the locking recording period.
After the emergency recording is finished, the video will be automatically saved in the emergency video folder and the photo will be saved in the photo folder.

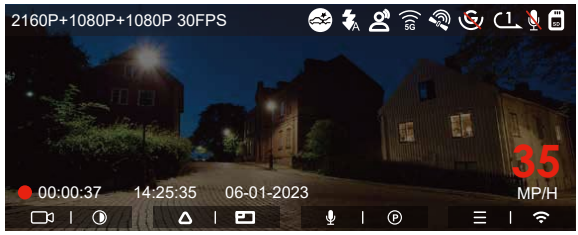


Note:

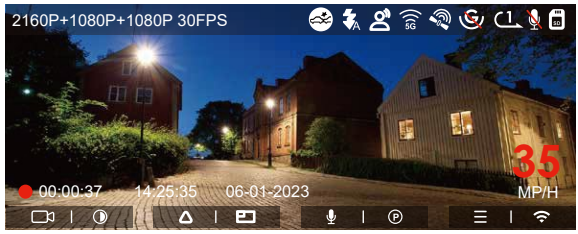
- The sensitivity of the automatic locking video trigger is determined by the sensitivity of the collision. The higher the sensitivity setting, the greater the probability of being triggered.
- The total capacity of the event video file accounts for 30% of the total capacity of the current memory card. When the event video file reaches the upper limit, the new event video file will automatically overwrite the old event video file. It is recommended to periodically check and save your event video files to avoid loss.
- Lock recording will not trigger in either of the following situations: Loop recording is off or Time lapse recording is on. When loop recording is turned off/time-lapse recording is turned on, only pictures can be captured when locking the recording.

4.2.3 Low-light Night Vision in Parking Mode

In order to enhance the safety of parking at night, we make full use of the lens performance combined with low-light night vision technology to improve the night vision effect in parking mode. This function is in the open mode by default. It will be triggered only after entering the parking mode and will not affect normal recording.



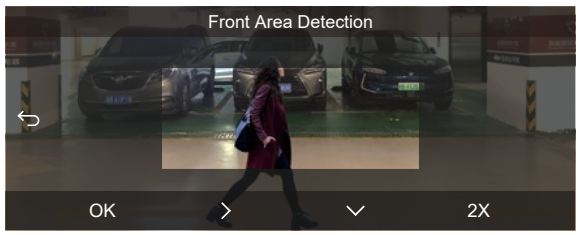
Low-light Night Vision Off

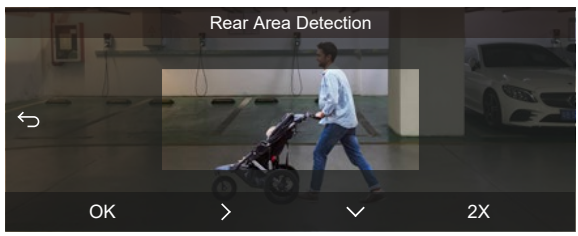


Low-light Night Vision On

4.2.4 Motion Detection Area

The detection range of the front camera and rear camera can be set on the N4 Pro dash cam, and the set range can be adjusted up and down as well as left and right.





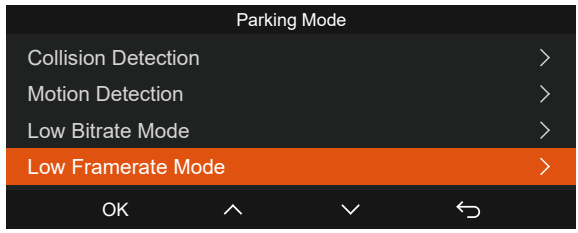
Note:

- This feature is only available when motion detection parking mode is on.
- You can select 1X, 2X, 3X, 4X, or 5X range. 5X range for global detection mode.

4.2.5 Parking Mode(When the parking mode is turned on, the time-lapse video function will not work. These two functions cannot run at the same time)

Parking Mode operates as a sentry function under different situations. You can switch to different parking

monitoring modes according to different parking situations.



If parking mode is on, there are three ways to start parking mode recording:

1. After parking, wait for 5 minutes to enter automatically;
2. long press the (v) button to begin manually;
3. Connected to the ACC Hardwire Kit cable, the camera will enter parking mode immediately after turning off the engine. (ACC cable is an optional accessory, need to buy extra).

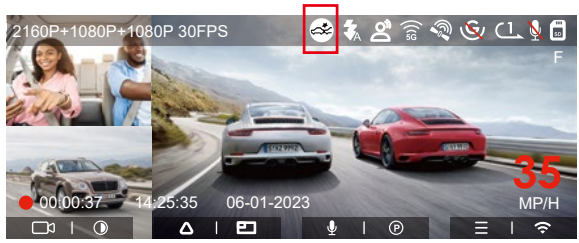
Note:

- To ensure the camera works properly in park mode, please use the hardwire kits or other stable and continuous power supply to power the dash cam.
- Please use Vantrue hardwire kit for ACC hardwire, ACC hardwire kit from other brands may not work.
- If the dash cam is in an extremely hot environment, we recommend selecting the collision detection mode. When the temperature inside the vehicle is up to 60℃(140℉), we recommend turning off the camera to avoid improper operation of the camera caused by high temperature.
- Time-lapse video recording and parking mode (including collision detection, motion detection, low bitrate recording, and low framerate mode) can only be enabled one at a time. When one is enabled, the other will be automatically disabled.
- All videos recorded in parking mode(Collison Detection, Motion Detection, Low Bitrate Recording, Low Framerate mode) will be saved in the normal video folder. In order to prevent the video in parking

mode from being overwritten in a loop, please check and save the required files in time to prevent loss.

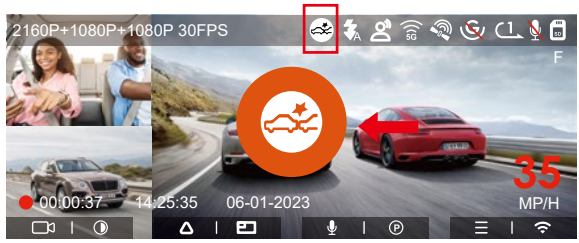
Collision Detection

When collision detection is enabled, the icon will be displayed on the recording interface, indicating that the dash cam is currently in collision detection mode. The sensitivity of the collision detection has 1 to 5 levels of sensitivity can be adjusted. The sensitivity of collision detection can be adjusted from 1 to 5 levels of sensitivity. You can adjust the sensitivity of collision detection according to the car's environment and usage habits.



When the Collision Detection is turned on, and no movement or vibration is detected after 5 minutes of recording (5-minute entry mechanism for short), then Collision Detection is activated with a icon in the middle of the screen, and the camera automatically turn off.

After the dash cam is turned off, if the G-sensor detects that the car is vibrating or moving, the recorder will automatically turn on and record for 1 minute, and then turn off.

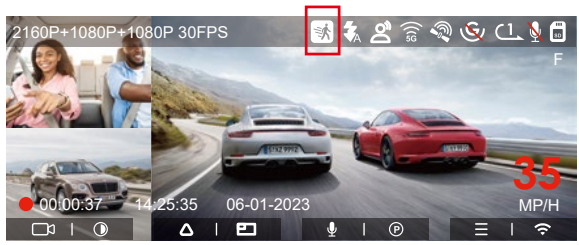


Note:

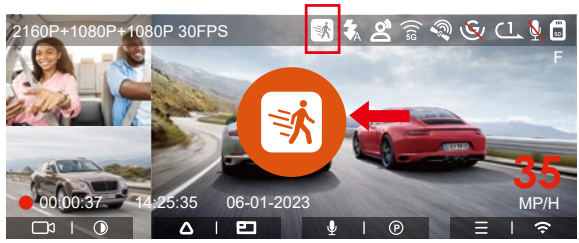
If the dash cam constantly detects a collision during the collision detection recording process, it will exit the collision detection mode, enter normal recording, and restart the 5-minute entry mechanism.

Motion Detection

When the motion detection is turned on, the icon will be displayed on the recording interface, indicating that the dash cam is currently in motion detection mode. You can go to "Motion Detection Area" in the menu settings to set the detection area.



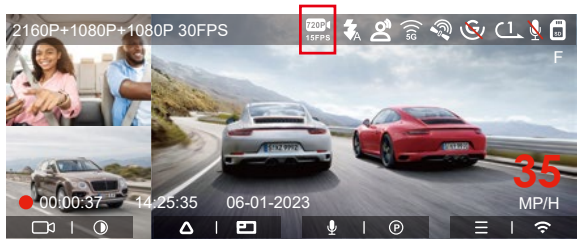
When the motion Detection is turned on, and no movement is detected after 3 minutes of recording, then an icon will appear in the center of the screen, and the screen will turn off after 3 minutes.

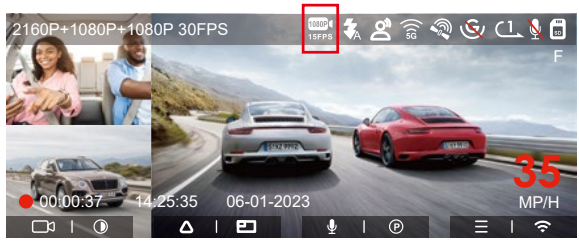


Note: Motion detection mode can only be engaged when the camera is turned on. Once the camera is turned off, the motion detection mode will not work.

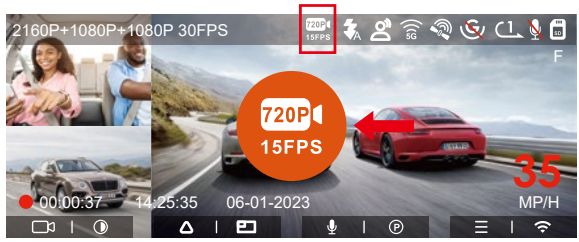
Low Bitrate Recording

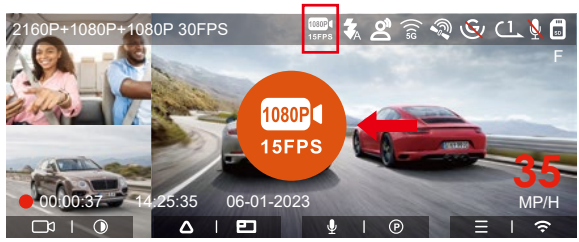
When Low Bitrate recording is enabled, the icons 720P 15FPS or 1080P 15FPS will be displayed in the upper right corner of the screen, depending on whether you choose 1080P 15FPS or 720P 15FPS.





If no movement is detected after 5 minutes of recording, there will be a 720P 15FPS or 1080P 15FPS icon that appears in the center of the screen. The resolution of all current video will be automatically switched to 1080P 15FPS or 720P 15FPS for recording, and the recording duration will be determined according to the currently set loop recording duration. When the camera is vibrates or is moved, it will automatically exit, wait 5 minutes, and enter again.



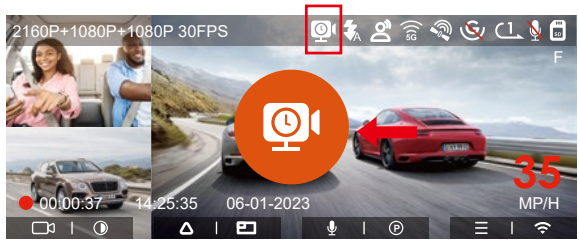


Note: Low Bitrate recording can only be engaged when the camera is turned on. Once the camera is turned off, the Low Bitrate recording will not work.

Low Framerate mode

When the low framerate mode is selected, the camera will record according to your selection among 1FPS/5FPS/10FPS/15FPS.

For example, if you select 1FPS and the current video resolution frame rate is 30FPS, the camera will generate a 30FPS video per second. Low framerate mode can greatly preserve the integrity of the video and save space on the memory card.



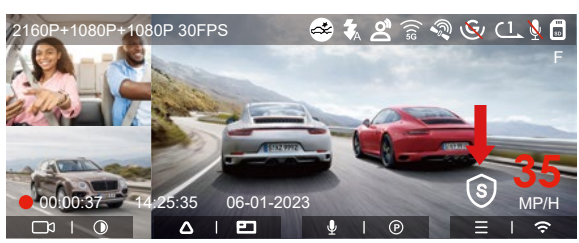
In low frame rate recording mode, a icon is displayed in the center of the screen to indicate that the low frame rate recording parking mode has been entered. [Normal Recording Time = Low Framerate Recording Time (Sec) x Recording Frame Rate FPS/Low Framerate Option] (Time should be converted into seconds)

Note:

- The time unit of the calculation formula is seconds, so the final normal recording time calculated is also in seconds. If you need to convert it into other time units, please check the units and convert by yourself.
- The low framerate mode is similar to the time-lapse recording function, but the difference is that there is no 5-minute entry mechanism for time-lapse recording, which will be directly turned on after setting.
- In low framerate mode, the camera also needs a stable power supply. Once the power is off or exhausted, the camera will shut down.

4.2.6 Privacy Mode

If privacy mode is turned on, the recording file will only keep the last 3 loops of the recorded video.
For example, if you select 1-minute loop recording and turn on privacy mode, the recording file will be overwritten at the end of the 3rd 1-minute loop recording.

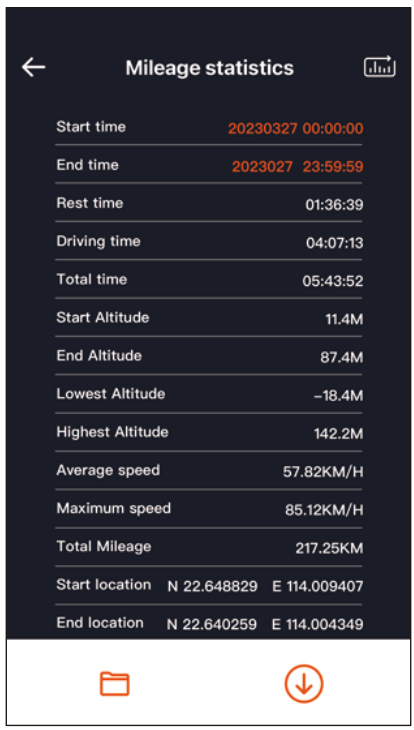


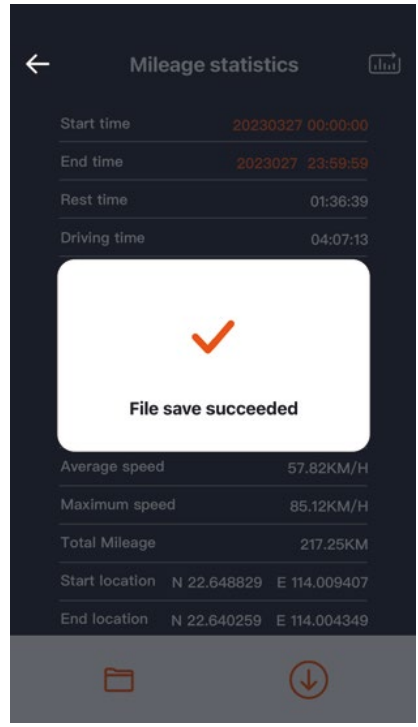
Note:

- The privacy file will be saved in the Normal folder with the "S" character added to the file name.
- For example: 20300128_140633_0006_S_A.MP4;
  If loop recording is turned off, privacy mode cannot be started.
- Privacy mode cannot be started if the G-sensor function is turned off.
- If you turn on privacy mode, please format the memory card first.
- In privacy mode, the manually locked recording file are saved in Event folder, and the file name of the saved file is the same as the event recording file name.

4.2.7 Mileage Statistics

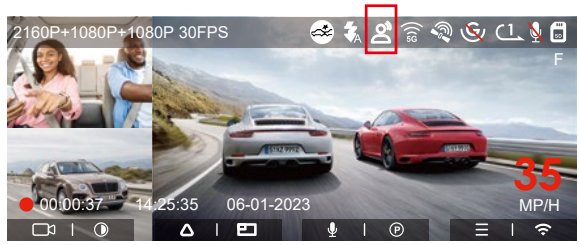
N4 Pro dash cam records and analyzes the user's driving time, driving mileage, altitude, driving speed and other information through the GPS information during the driving process. Users can export mileage files through APP.
Users can select the start time and end time in the APP real-time preview interface, and then make sure to download it as PDF or JPG file and save it locally in APP.





4.2.8 Voice Control

You can control the camera with voice command, such as take photo, video start, turn on/off Wi-Fi, lock the video, etc. Currently supported languages are English, Japanese, Russian, and Chinese. For more detailed voice commands, please go to System Settings > Voice Content to view them.

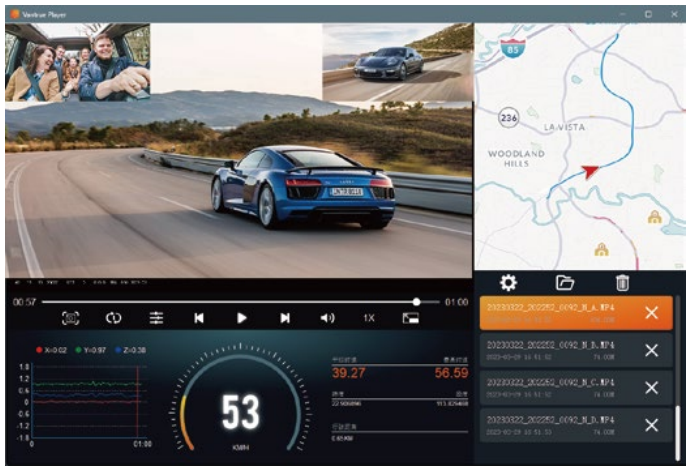


Voice recognition has options of low sensitivity/ standard/high sensitivity/off. The default is standard sensitivity.

4.2.9 GPS Function

The GPS function is one of the important functions of the dash cam. GPS is enabled by default, and the camera receives GPS signals through the GPS mount. It can automatically correct the time and date in your area, recording the location where the video was taken

and the speed of the car at the time.

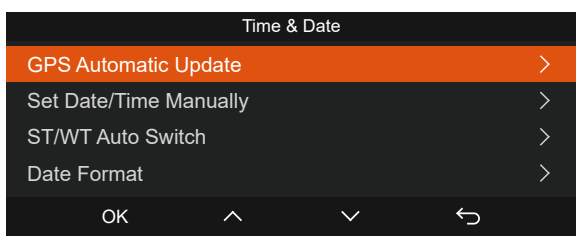


Note:

- The GPS connection will be completed within 1 minute after you turn on the device. If the GPS connection is not successful within 1 minute, please check whether the DEVICE has turned on the GPS function, whether the GPS bracket is properly connected, and whether your environment (underground parking lot, densely populated residential area, subway, tunnel, etc.)is affecting the reception of GPS signal.
- GPS information is recorded along with the video. To view it, please download and install the Vantrue App and Vantrue GPS Player (available for download at www.vantrue.net).

4.2.10 Automatic time correction via GPS

The default setting of GPS auto time correction for N4 Pro is on. If your location is Los Angeles, you can select GMT-08:00. If you don't know the time zone of your location, you can connect your phone to the Wi-Fi of the camera, and open the automatic time correction function in Vantrue APP, so the camera will correct the time zone of the camera according to the time zone of your phone.

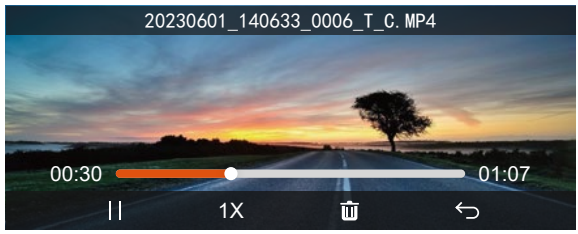


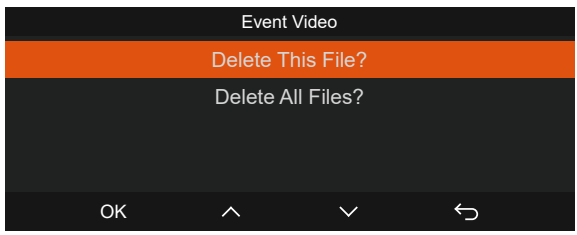
Note: GPS automatic time correction needs to set the correct time zone, you can refer to the representative cities of each time zone.

4.2.11 Viewing and Deleting Video/Photos

a.Viewing files on the Camera

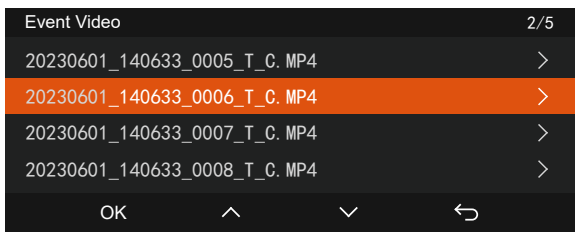
After clicking "Files," enter any folder, and after opening the video folder, you can press the ⌄ button to select the next file, or press the ⌄ button to delete the file during playback.

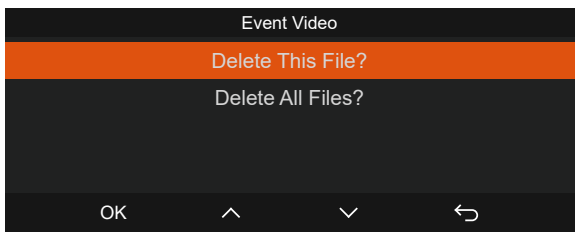




--Delete Videos

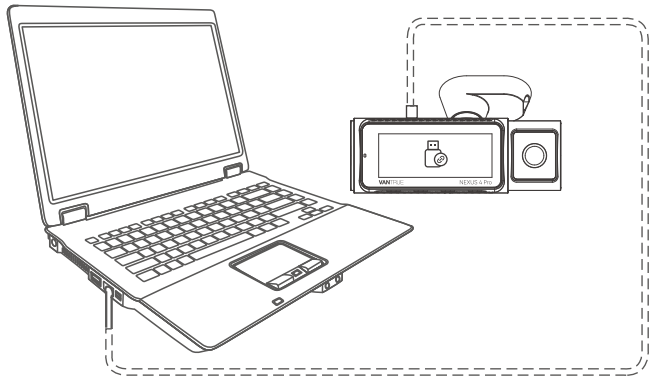
Delete the video on the camera. Press the ⚠ button in the file browsing interface to pop up the delete menu.



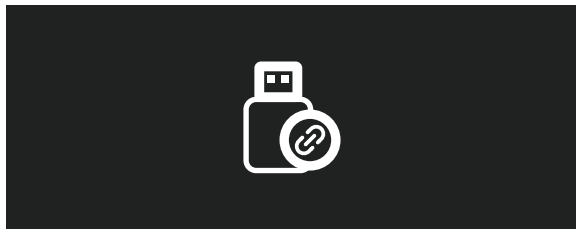


b. Viewing files on a Computer

1. Connect the included TYPE-C USB data cable to the camera and the computer.



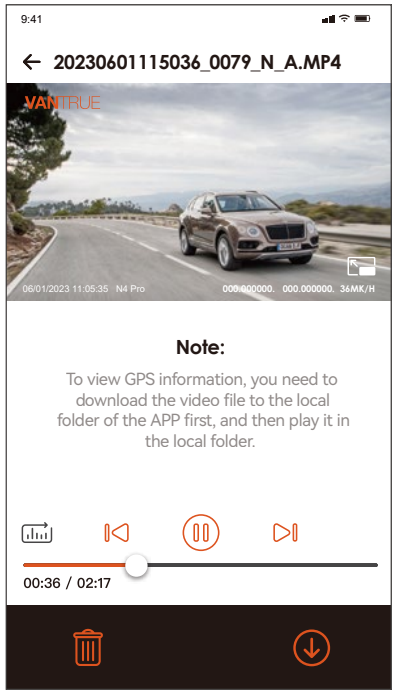
2. After the connection is successful, the  icon will appear on the display of the camera to transfer data, and then you can view the video files in the computer folder.



3. Depending on the computer systems of different users, after the camera is connected to the computer, it will be displayed as a removable drive or a removable folder.
4. To view the files on the computer, you can directly access, right-click to open the menu and delete them.
5. You can also use a USB card reader to read the memory card information.
6. When connecting the dashboard to a desktop computer, we recommend connecting the USB port on the back of the desktop computer (make sure it is a USB 3.0 port) in order to ensure a stable power supply when connecting to the computer.

c.View on the ”Vantrue” App

After the phone successfully connects to the camera's Wi-Fi, you can play, download and delete files in the Vantrue app.



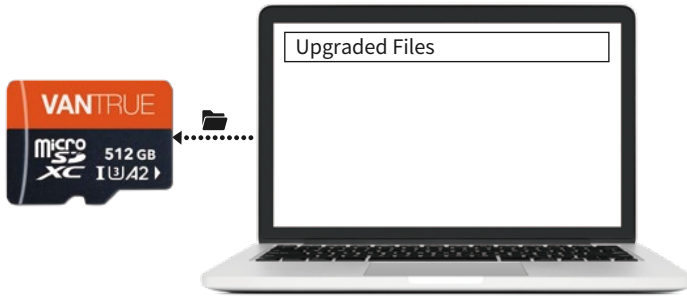
Note:

- For video playback in the app, or downloads to SD card, there will be no network traffic consumption.
- You can view GPS track information only after the video file is downloaded and played back locally. At the same time, you need to disconnect the Wi-Fi of the dash cam, otherwise the map information will be blank.

4.2.12 N4 Pro Dash Cam Firmware Upgrade

Upgrade method 1: Upgrade via file

Go to VANTRUE website to download the latest N4 Pro dashcam firmware, copy the firmware file to the root directory of the memory card, then insert the memory card back into the N4 Pro main unit, the system will automatically upgrade with the updated firmware of the Micro SD card after the dash cam is turned on.

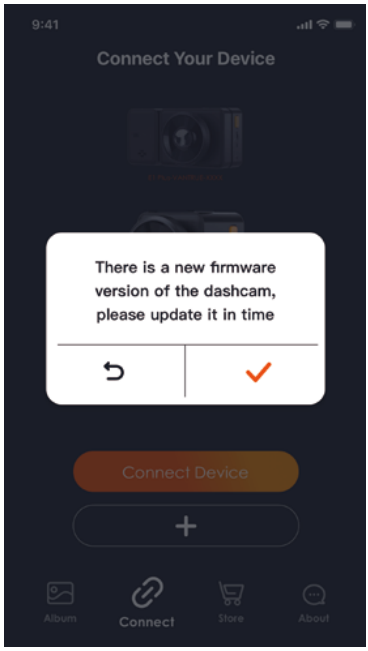


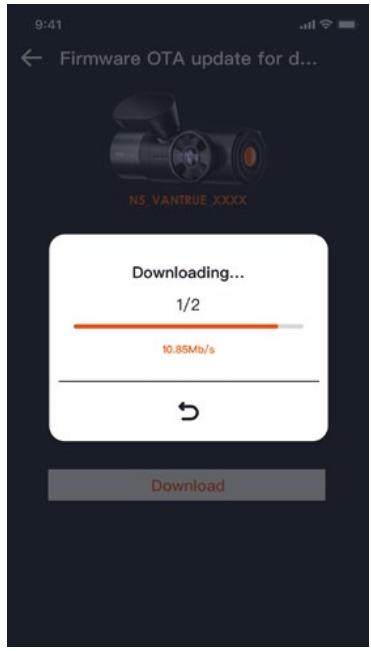
Upgrade method 2: OTA upgrade OTA (Over the Air) Firmware Update

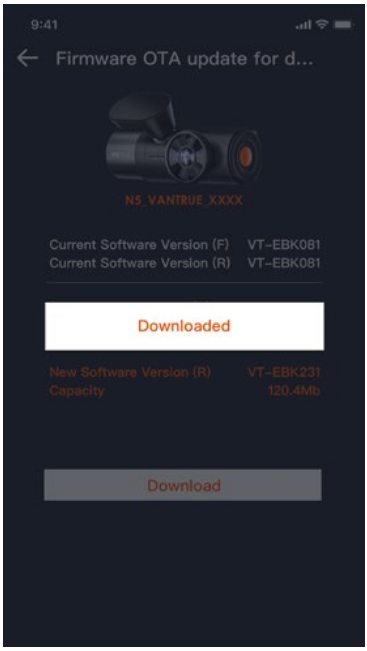
After opening the APP, if you receive an update reminder of the dashcam software, please confirm the upgrade, and then it will jump to the OTA upgrade interface, and then upgrade according to the APP guidelines.

Note:

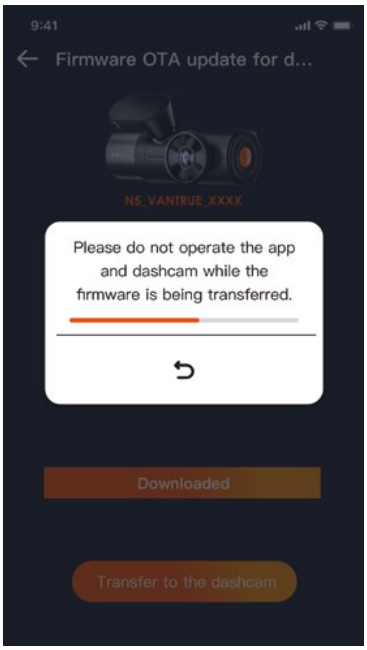
- To upgrade firmware via file or OTA upgrade, N4 Pro front and rear camera needs to keep power on.
- To upgrade via OTA, internet data traffic is required to download the upgrade file.

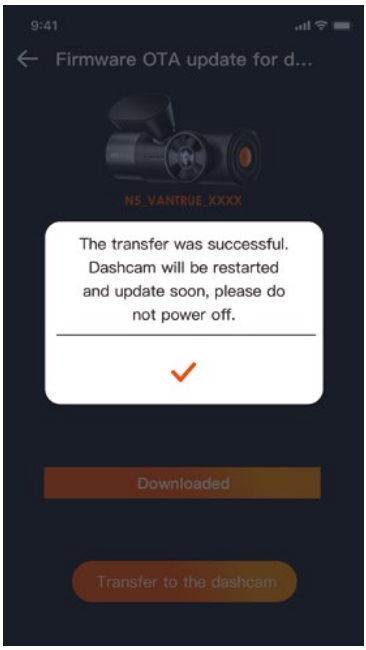





9:41
Firmware OTA update for d...
N5_VANTRUE_XXXX
Current Software Version (F) VT-EBK081
Current Software Version (R) VT-EBK081
Downloaded
New Software Version (R) VT-EBK231
Capacity 120.4Mb
Download


9:41
Firmware OTA update for d...
N5_VANTRUE_XXXX
Current Software Version (F) VT-EBK081
Current Software Version (R) VT-EBK081
New Software Version (F) VT-EBK231
Capacity 178.5Mb
New Software Version (R) VT-EBK231
Capacity 120.4Mb
Downloaded
Transfer to the dashcam


9:41
Firmware OTA update for d...
N5_VANTRUE_XXXX
Please do not operate the app and dashcam while the firmware is being transferred.
Downloaded
Transfer to the dashcam


9:41
Firmware OTA update for d...
N5_VANTRUE_XXXX
The transfer was successful. Dashcam will be restarted and update soon, please do not power off.
Downloaded
Transfer to the dashcam

5. Specifications

The specifications of this product may change without prior notice due to product improvements.

Model	N4 Pro
Chips	Novatek high-performance processor
Image Sensor	Sony CMOS Sensor
G-sensor	3-Axis G-sensor
Screen	3.19” IPS Screen
Wi-Fi	Built-in 2.4GHz&5GHz
Camera Angle	Front: 158° wide viewing angle; Inside: 160° wide viewing angle; Rear: 165° wide viewing angle
Aperture	Front: F/1. 8 wide aperture Inside: F/1. 8 wide aperture Rear: F/1. 8 wide aperture
Languages	Engish/Français/Español/Deutsch/ Italiano/简体中文/русский/日本語/ Polski/한국어
Video Resolution	Front+ Cabin+ Rear: 2160P+1080P+1080P 30FPS; 2160P+720P+720P 30FPS 1440P+1080P+1080P 30FPS; 1440P+720P+720P 30FPS 1080P+1080P+1080P 30FPS; 1080P+720P+720P 30FPS 720P+720P+720P 30FPS Front and Cabin: 2160P+1080P 30FPS; 2160P+720P 30FPS; 1440P+1080P 30FPS; 1440P+720P 30FPS; 1080P+1080P 30FPS; 1080P+720P 30FPS; 720P+720P 30FPS Front + Rear: 2160P+1080P 30FPS; 2160P+720P 30FPS; 1440P+1080P 30FPS; 1440P+720P 30FPS; 1080P+1080P 30FPS; 1080P+720P 30FPS;

	720P+720P 30FPS Single front recording mode: 3840x2160P 30FPS; 2560x1440P 30FPS; 1920x1080P 30FPS; 1280x720P 30FPS
Audio	Built-in microphone and speaker
Memory Storage	External: 32GB-512GB Micro SD Card, U3, A2 Class 10 (not included in the package)
USB Port	Type C
Power Source	Built-in super capacitor
Video File Format	MP4
Supply voltage current	DC 5V 2.4A
Power	6W
Working Temperature	-4°F to 140°F(-20°C to 60°C)
Storage Temperature	-4°F to 158°F(-20°C to 70°C)

6. Safety Warnings

- This product is an auxiliary device for the purpose of recording exterior images of vehicles, and some functions may not be supported due to different driving and vehicle environments.
- Firmware upgrade will be carried out from time to time to further improve the product, please pay attention to the official notice of VANTRUE according to the specific upgrade.
- This product can record and save images of vehicle accidents, but it does not guarantee that all accident images can be recorded. The image may not be recorded in a special folder because the crash sensor cannot be activated for minor crashes.
- Be sure to turn off the power when inserting or removing the memory card.
- For stable use of the product, please format the memory card at least once a month.
- Generally, memory cards have a life span, and long-term use of memory cards may result in data not being saved. In this case, it is recommended to purchase a new memory card for use. If the data is destroyed due to the long-term use of the memory card, the company will not be held responsible.
- Do not install or operate this product while the vehicle is running.
- Do not subject the product to strong shocks or vibrations, which may damage the product and cause malfunction or inoperability.
- Do not use chemical solvents or cleaning agents to clean the product.
- The ambient temperature range for normal use of this device is -20 degrees Celsius to 60 degrees Celsius.
- Exceeding this ambient temperature range may cause the product to malfunction.
- Do not place the product in an open flame. Do not use the product in high temperature and high humidity

areas, as this may cause electric shock, short circuit, and other hazards and damage the product.

- It is forbidden to disassemble or modify the car charger by yourself, or use a short-circuit car charger, otherwise it will cause personal injury, electric shock, fire and other dangers or damage the product.
- Please do not disassemble or modify the product without permission to avoid damaging the recorder, generating heat and causing fire.
- Please use this product within the scope of the law.

7. Warranty & Support

Warranty

The VANTRUE® N4 Pro Dash Cam comes with a full 12 months warranty. If you register your product on our official site (www.vantrue.net/register), you can extend the warranty to 18 months.

Support new

If you have any questions about the product, please feel free to contact us at support@vantrue.net, or leave us a message through the instant chat box: www.vantrue.net, or open the Vantrue APP, and find it in the FAQ on the "About" page Answer.

Your opinion matters

VANTRUE® is firmly committed to always improving our products, services, and user experience. If you have any thoughts on how we can do even better, we welcome your constructive feedback and suggestions. Connect with us today at support@vantrue.net.

Thank You for Choosing Vantrue !

VANTRUE®

www.vantrue.net Made in China