

VANTRUE

Pilot 2 **P2**

USER MANUAL **V1.0**



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Important Reminders:

- Please read this user manual carefully before first use to ensure correct operation.
- Please ensure the dash cam is connected to a power source for it to function properly.
- For your safety, please refrain from adjusting the device or watching videos on your phone while driving.
- Please use a Micro SD card with this product. Ensure the card is functioning correctly and is compatible with the device.
- Please do not disassemble or attempt to repair the dash cam yourself. If you encounter any issues, please contact VANTRUE official customer service promptly.
- Please avoid installing the dash cam in a location that obstructs the driver's view.
- Please keep the device away from high-temperature and humid environments to ensure normal operation.
- Please note that the device firmware is updated periodically to enhance user experience. You may download the latest version to enjoy the newest features as needed.
- Please avoid installing the dash cam directly in front of vehicle occupants to prevent safety hazards in case the device becomes detached.

1. Package List



① P2 Main Unit



② Main Unit Mounting Bracket



③ Front and rear view cameras



④ Front + Interior Camera Cable



⑤ Rear camera



⑥ Rear Camera Cable



⑦ Car Charger



⑧ Electrostatic Stickers



⑨ Crowbar



⑩ Dust-free Cloth



⑪ Double-Sided Tape



⑫ Cable Ties



⑬ Velcro Fasteners

Optional Accessories



⑭ License Plate Bracket (Optional)



⑮ Thermal Imaging Lens (Optional)



⑯ Thermal Imaging Camera Cable (Optional)

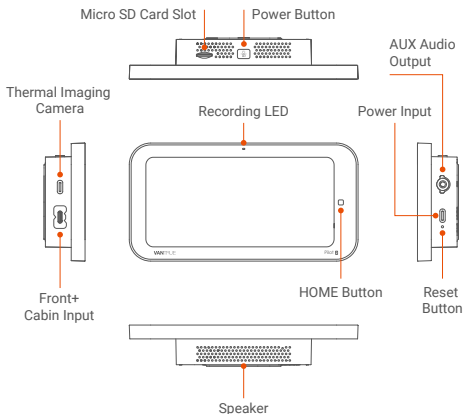


⑰ Hex Wrench (Optional)

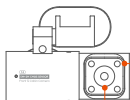
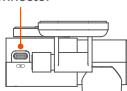


⑱ Screwdriver (Optional)

2. Introduction to Equipment



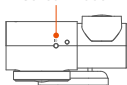
Rear Camera Cable Connector



Infrared Light

Interior Camera

IR Sensor Probe



Front + Interior Camera Cable Interface

Front Camera

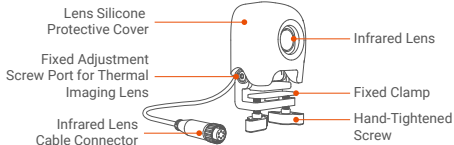


Power Indicator Light

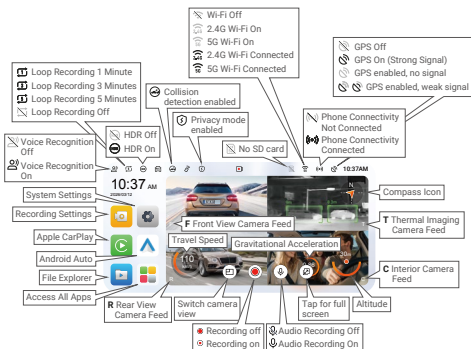
Rear Camera Cable Connector



Rear View Camera



2.1 Screen Icon Guide

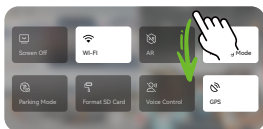


2.2 Interface Operation Guide

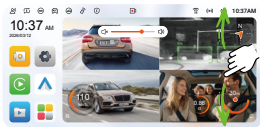
Swipe left or right to quickly switch the number of frames displayed;



Swipe down from the top to display the quick settings panel



Swipe up or down on the right side of the screen to increase or decrease the volume



Swipe up or down on the left side of the screen to increase or decrease the screen brightness.



2.3 Overview of the Pull-Down Status Bar Icons



- Screen Off  : Supports turning the head unit screen on or off via quick actions.
- Wi-Fi  : Supports quick toggling of the device's Wi-Fi function.
- AR  : AR Smart Display—when enabled, the screen displays real-time vehicle speed, acceleration, and mileage.
- Rain & Fog Mode  : When Thermal Smart is enabled, Rain & Fog Mode can be activated to optimize image clarity in rainy or foggy conditions, improving license plate and road condition recognition.

- Note: Enabling this feature may reduce video smoothness; it is recommended to turn it off during sunny weather or at night when there is no fog. When Rain & Fog Mode is active, the video interface may experience brief stuttering; this is a normal phenomenon caused by the camera's shutter switching and does not indicate a device malfunction.
- Parking Monitoring  : When Parking Monitoring Collision Detection Mode is enabled, you can quickly enter or exit Parking Monitoring Mode using the shortcut key.
- Format SD Card  : Supports quick formatting of the SD card. Please back up important files before proceeding.
- Voice Recognition  : Enable this to activate voice recognition; to view supported voice commands, go to "System Settings" and check "Voice Content."
- GPS  : Supports quick activation or deactivation of GPS.

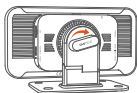
3. Installation Guide

3.1 Installation Precautions

- **Clean the Surface:** Use a lint-free cloth to wipe the mounting area of the main unit and lens to remove oil and dust.
- **Apply Electrostatic Stickers:** Attach Electrostatic Stickers to the mounting area for the front and rear lenses (enhances adhesion and prevents adhesive residue).
- **Cable Management:** After installing the car charger and rear camera, use the provided cable clips to organize the charger cable and rear camera cable.
- **First-Time Use Settings:** When using the dash cam for the first time, it is recommended to format the SD card to reduce recording issues.
- **Installation Notes:** When installing the main unit and lens, ensure they do not obstruct the driver's vision and that all components are securely fastened.

3.2 Installation Process

3.2.1 Main Unit and Lens Installation Process



① Installation Mount



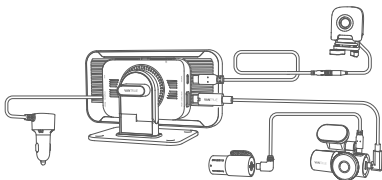
② Install the SD card



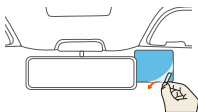
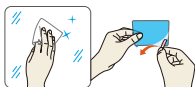
③ Peel Off Adhesive from Bracket



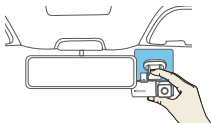
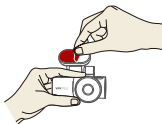
④ Install Main Unit



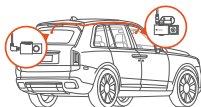
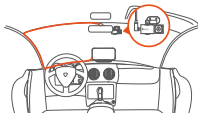
⑤ Device Connection Diagram



⑥ Apply Electrostatic Stickers for Front and Interior Cameras



⑦ Install Front and Interior Cameras



⑧ Connect and Route Cables for Front and Interior Cameras to Main Unit

⑨ Connect and Route Cables for Front and Interior Cameras to Rear Camera



⑩ Install Car Charger

3.3 Installing the Thermal Camera (Optional)

3.3.1 Installation Precautions:

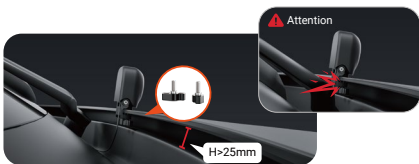
- **Confirm installation location:** It is recommended to install it on the hood first. Before installation, check the clearance under the hood mounting location:
 - $\geq 25\text{mm}$, Use the default thumb screw. See 3.3.2 for details.
 - $10\sim 25\text{mm}$, Replace with a set screw. See 3.3.2 for details
 - $< 10\text{mm}$, It is recommended to install using the license plate bracket instead. See 3.3.3 for details.
- **Installation Check:** Engine Mounting Position: Before installing the thermal imaging lens, we recommend activating the windshield wipers to verify that the mounting position does not interfere with their normal operation.
- **Cable Routing:** When organizing the Thermal imaging lens cable, ensure you leave sufficient slack to allow for a smooth connection to the main unit. Use Velcro to secure the cable neatly.
- **Verify the Thermal Camera's Field of View:** After securing the thermal camera in position, power it on and observe the image. Ensure the hood does not appear in the frame, as this may cause false alarms in the algorithm.
- **Adjust/Secure the Camera Position:** Use a hex wrench or screwdriver to loosen the screws, adjust the camera's orientation, and then secure it in place.
- **Other Precautions:**
 - Thermal imaging lenses cannot penetrate glass; please do not install them inside a vehicle.
 - Ensure there are no obstructions in front of the lens during installation.

- When cleaning, do not use a high-pressure water jet to directly spray the thermal imaging lens.
- Although the thermal imaging lens is equipped with burn protection, do not point the lens at the sun or other heat sources exceeding 300°C for extended periods.

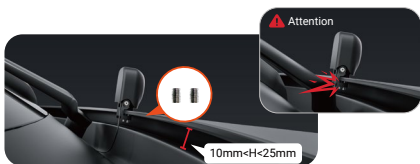
3.3.2 Thermal Camera Installation Location (Method 1: Hood)



- ① Determine the height from the water deflector to the hood



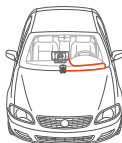
Method 1: Height from water deflector to hood >25 mm, use thumb screw for installation



Method 2: Height from water deflector to hood 10–25 mm, use thumb screw for installation

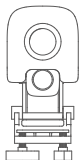


- ② Use a hex screw tool to secure the thermal camera

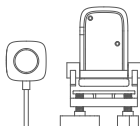


- ③ Connect and route the cable from the thermal camera to the main unit

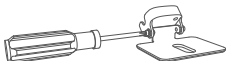
3.3.3 Thermal Imaging Lens Mounting Position (Method 2: Above License Plate)



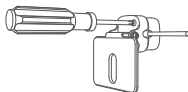
- ① Remove the silicone cover



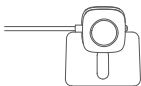
- ② Detach the lens from the bracket



③ Installation Mount



④ Attach the lens to the groove and secure it



⑤ Determine the lens orientation: Ensure the thermal camera logo is facing up



⑥ Install the thermal camera and route the cable

Precautions:

- Please do not block the license plate during installation.
- After installation, please power on the device to check the thermal camera's field of view. If angle adjustment is needed, loosen the screws on both sides to make fine adjustments. Once the field of view is confirmed to be correct, tighten the screws to secure the lens and prevent movement during use.

3.4 Installing the APP

Scan the APP QR code below to download and install the Vantrue APP, then follow the APP instructions to connect the dash cam to the APP. For detailed APP feature descriptions, refer to the electronic version of the user manual



3.5 Installing Vantrue Player (Windows/Mac)

The PC player supports video playback, GPS track viewing, speed display, and other features, providing users with an enhanced video experience. For more detailed operations, please refer to the complete electronic user manual.

- Windows users can download Vantrue Player from the Vantrue official website:
<https://www.vantrue.com/pages/vantrue-app-player>
Download path: Open the official website → Click "Support" → "Download" → "Download Player"
- Mac users can search for "Vantrue Player" in the Apple App Store and download it.



4. Feature Overview

The P2 dash cam features six main functions: Recording Settings, System Settings, File Browser, Thermal Smart, Apple CarPlay, Android Auto.

4.1 Recording Settings

- **Resolution:** Set the default resolution for the front, interior, and rear cameras.
- **Rotate Display:** Enable or disable rotation display for front+interior, thermal, and rear cameras. Default is off for all.
- **Collision Sensitivity:** Adjust collision sensitivity for front/rear, left/right, and up/down directions. Supports off/low/lowest/standard/high/highest sensitivity settings. Default is standard.
- **Parking Monitoring Settings:** Configure collision detection mode, collision sensitivity, entry/exit method, camera settings, parking low-light night vision, collision detection mode, parking monitoring duration, and ACC delay. See Section 5.3 for details.
- **Watermark:** Enable or disable date/time, brand/model, license plate number, speed, GPS latitude/longitude watermarks. Default is on, can be turned off.
- **HDR:** Default is on. Can be turned on or off separately for front, interior, and rear cameras.
- **HDR Timer:** Default is off. Can be set to turn on or off at scheduled times.
- **PlatePix™ Timer:** Default is off. Can be set to turn on or off at scheduled times.
- **GPS Settings:** GPS auto-update (default on), GPS speed unit settings, GPS information view.
- **Mirror:** Default is on, can be turned off.
- **Loop Recording:** Default is 1 minute. Options: off, 1 min, 3 min, 5 min.

- **Time-Lapse Recording:** Default is off. Options: 1FPS/5FPS/10FPS.
- **Infrared Light Setting:** Default is auto, can be set to on or off.
- **Video Quality:** Can be set to Standard or PlatePix™. Default is Standard. Enabling PlatePix™ improves license plate clarity.
- **Privacy Mode:** Disabled by default; enabling this feature activates privacy protection mechanisms. Users can customize the recording segment duration, the number of segments to retain, and the video retention period according to their needs.
 - **Recording Segment Duration:** Supports four segment durations: 30 seconds, 1 minute, 3 minutes, and 5 minutes. The default setting is 1 minute.
 - **Number of Segments to Retain:** You can set the number of video segments to retain in a loop. Options include retaining the last 1, 2, 3, or 5 segments; the default is to retain the latest 3 segments.
 - **Video Retention Period:** You can set an automatic deletion time, with options of 3 days, 5 days, or 10 days; the default setting is "Never automatically delete."
- **Recording Audio:** Default is on, can be turned off.
- **Audio Noise Reduction:** Default is on, can be turned off.
- **Recording Indicator Light:** Default is on, can be turned off.
- **License Plate Setting:** Default is on, can be turned off.
- **Mileage Statistics:** Default is on, can be turned off.

4.2 System Settings

- **Wi-Fi:** Default is on (Wi-Fi automatically turns on and turns off after 10 minutes). Can be set to on or off. Wi-Fi mode can be switched, and Wi-Fi information can be viewed.
- **Prompt Tones:** The dash cam has five prompt tones based on different situations: power on/off sound, button sound, lock alert, format reminder, abnormal recording stop alert. Users can enable or disable them as needed.
- **Format:** Format all data on the SD card.
- **Voice Recognition:** The sensitivity is set to "Standard" by default. When enabled, the device can recognize voice commands. You can adjust the sensitivity to "Low," "Standard," "High," or "Off" as needed.
- **Voice Commands:** Voice recognition commands allow users to control the dashcam remotely using various commands.
- **Certification Information:** View certification information for the device.
- **System Information:** View firmware version and official website information.
- **Default Settings:** Restore factory default settings.
- **Language:** Available languages: English, French, Spanish, German, Italian, Simplified Chinese, Traditional Chinese, Korean, Russian, Japanese, Polish, Turkish, Czech.
- **Screen Saver Settings:** Default is off. Options: 30 seconds, 1 minute, 3 minutes.
- **Format Reminder:** Default is off. To avoid forgetting to format the SD card, a format reminder can be set to alert after 15 days or 1 month (counted from the set date). When the time arrives, you can choose "Confirm" to format or "Next" to reset the countdown.

- **Date/Time:** Two setting methods: manual or GPS auto-update. Date format, time zone selection, time format (default 24-hour), and automatic daylight saving time switch (default off) can be set.
- **Screen Brightness:** Set to "Auto" by default; the display brightness adjusts automatically based on the ambient light.
- **Light Source Frequency:** Different countries have different light source frequencies. Select 50Hz or 60Hz according to the region to avoid affecting recording.
- **Volume:** Default is 40%, adjustable as needed.

4.3 File Browser

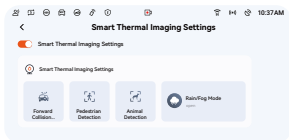
Under this function, you can view video files and photos recorded by the dash cam.

- **Normal Videos:** This folder stores loop recording videos (T) and normal videos (N).
Naming format:
20300128_140633_00008_N_A.MP4
- **Emergency Videos:** This folder stores emergency recording files (E).
Naming format:
20300128_140633_00008_E_A.MP4
- **Parking Videos:** This folder stores parking monitoring videos (P).
Naming format:
20300128_140633_00007_P_A.MP4
- **Photos:** Photo files are stored in this folder.

4.4 Thermal Smart

The Smart Thermal Imaging feature is designed for low-visibility conditions such as nighttime, rain, and fog. It accurately identifies targets including vehicles, pedestrians, non-motorized vehicles, and animals, and uses AI-powered on-screen markings to assist with safe travel, providing comprehensive protection for nighttime driving.

The “Thermal Smart” feature is enabled by default but can be disabled.



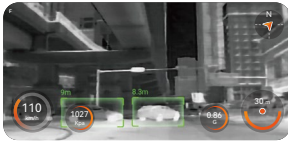
(1) The Smart Thermal Imaging settings support the following detection features, which can be enabled or disabled as needed:

- Forward Collision Detection (Default: Off)
- Pedestrian Detection (Default: On)
- Animal Detection (Default: On)
- Rain/Fog Mode (Default: Off)

Note: Rain and Fog Mode improves image clarity in rainy or foggy conditions by enhancing the algorithm's recognition accuracy, thereby improving the visibility of license plates and road conditions. Please note that enabling this mode may reduce video smoothness. We recommend turning it off during sunny weather or at night when there is no fog. After enabling Rain and Fog Mode, you may experience brief lag in the video feed; this is a normal occurrence caused by the camera's rapid shutter switching and does not indicate a device malfunction.

(2) AI Marking Display

In the thermal imaging view, vehicles, pedestrians, animals, and other targets are marked in real time with high-contrast icons, and vehicle speed and distance information is displayed, allowing for real-time monitoring of road conditions. AI Marking Display feature: Enabled by default; can be manually disabled.



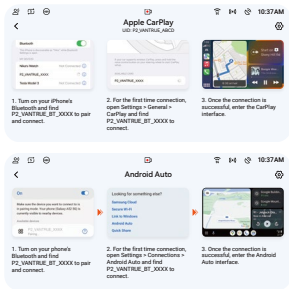
4.5 Supports Apple CarPlay/Android Auto

4.5.1 Steps and Precautions for Connecting to Apple CarPlay/Android Auto

- To enable Apple CarPlay or Android Auto, follow the on-screen instructions on the head unit:
 - Turn on your phone's Bluetooth and pair it with the dashcam head unit;
 - In wireless connection mode, the head unit's Wi-Fi will automatically turn on; you can check the connection status in the head unit's status bar.
 - After successful Bluetooth pairing, please follow the steps for your phone's operating system:
 - iPhone users: Go to Settings > General > CarPlay, find the P2 head unit's Bluetooth name, and complete the pairing.
 - Android users: Go to Settings > Connections > Android Auto, find the P2 head unit's Bluetooth name, and complete the pairing.

Note:

- Android Auto is currently not available in China.
- Android Auto is primarily compatible with all smartphone brands running Android 9.0 or later; this feature is not officially supported on iOS or HarmonyOS.
- Wireless Apple CarPlay requires an iPhone 6 or later running iOS 10 or later; please refer to official updates for the latest information.



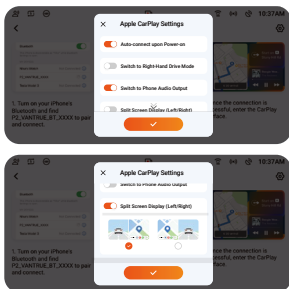
4.5.2 Exiting Apple CarPlay/Android Auto

- To return to the dashcam's main interface, tap the **Home Page** icon on the connection screen; To use it again, simply tap the corresponding Apple CarPlay/Android Auto icon on the home screen.
- To completely disconnect from Apple CarPlay/Android Auto, turn off Wi-Fi on your phone or the head unit.



4.5.3 Apple CarPlay/Android Auto Settings

- Auto-connect on startup: Enabled by default. When enabled, the device will automatically connect to paired Apple CarPlay/Android Auto devices upon startup.
- Switch to right-hand drive mode: Disabled by default. When enabled, the interface and operating logic will be adapted for right-hand drive scenarios.
- Switch to Phone Audio Output: Enabled by default. When enabled, audio will be output through the phone's speakers; when disabled, audio will be routed to the head unit's speakers.
- Split-Screen Display: Disabled by default. When enabled, the dashcam's main interface and the Apple CarPlay/Android Auto interface will be displayed simultaneously in a split-screen layout.



5. Key Functions

5.1 Loop Recording

When the dash cam is powered on, it automatically enters loop recording mode. Videos will be automatically saved according to the preset loop recording duration and stored in the normal video folder.

The normal video folder occupies 70% of the total dynamic memory capacity. When the folder reaches 70% of the dynamic total capacity, the newest loop recording file will automatically overwrite the oldest one.

With this function enabled, video files are stored cyclically through automatic overwriting, effectively preventing the device from stopping recording due to a full memory card while driving.

Note:

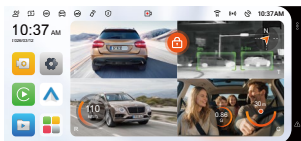
- The proper operation of loop recording heavily depends on the speed of the memory card. Therefore, please format the memory card regularly to avoid issues such as excessive files or card aging affecting loop recording.
- Please check loop recording videos periodically to prevent important videos from being overwritten.
- If you disable loop recording, the lock video function will no longer be effective. After disabling loop recording, each video segment will be 20 minutes long. When the card becomes full, the dash cam will stop recording and display a "Card Full!" prompt.

5.2 Emergency Recording

In the event of special circumstances while driving, you can manually lock or the dash cam can automatically lock to perform emergency recording.

Manual Lock: Simply press the emergency recording button  to lock the current recording and capture a photo.

Automatic Lock: When the vehicle experiences a collision or vibration, the dash cam senses the impact and automatically triggers the locking of the current video.



During locked recording, you can press the emergency recording button on the  screen to capture multiple photos.

After recording ends, the video will be automatically saved in the emergency video folder, and the photos will be saved in the photo folder.

Note:

- The sensitivity of automatic locking is determined by the collision sensitivity setting. You can adjust it via "Recording Settings" → "Collision Sensitivity" → select "Front/Rear," "Left/Right," or "Up/Down." Sensitivity options: Off, Lowest, Low, Standard, High, Highest.
- Emergency video files occupy 30% of the total dynamic capacity of the memory card. When the emergency video folder reaches its capacity limit, the newest emergency video file will automatically

overwrite the oldest one. It is recommended to regularly review and save your emergency video files elsewhere to prevent loss.

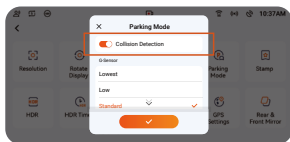
- Locked recording will not be triggered in the following two cases: when loop recording is disabled or when time-lapse recording is enabled. With loop recording disabled or time-lapse recording enabled, only photos can be captured.

5.3 Parking Monitoring Settings

In Parking Monitoring Settings, users can enable collision detection mode according to usage scenarios. Settings include collision sensitivity, entry/exit method, camera settings for monitoring, parking low-light night vision, collision detection mode, parking monitoring duration, and ACC delay.

Operation path: Tap "Recording Settings" → select "Parking Monitoring Settings"

Note: Collision detection mode is disabled by default. Please enable it manually if needed.



Notes for Using the Parking Monitoring Function:

- To ensure the dash cam operates properly in parking mode, please use a VANTRUE step-down cable or another stable and continuous power source to supply power to the dash cam.

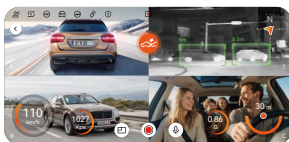
- The ACC step-down cable must be a VANTRUE ACC step-down cable. ACC step-down cables from other brands may not support the ACC function due to differences in the ACC detection pin position.
- Time-lapse recording and parking collision detection mode cannot be enabled simultaneously; enabling one will automatically turn off the other.

5.3.1 Parking Monitoring Mode: Collision Detection

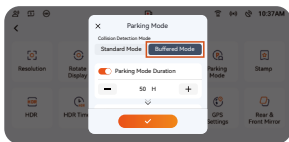
After enabling collision detection mode, the parking collision  icon will appear in the recording status bar.

When a collision is detected, the dash cam will automatically enter parking collision detection mode according to the selected entry method. The collision detection icon  will be displayed in the center of the dash cam screen, indicating that recording has started. It will record a 30-second video and then enter standby mode.

The recorded file will be automatically saved in the parking monitoring video folder.



Note: To enable collision pre-recording, go to: Recording Settings → Parking Monitoring Settings → Collision Detection Mode → select "Pre-recording Mode". See section 5.3.2, point 5 for details.



(1) Parking Monitoring Settings:

Collision Sensitivity: Default is standard. Users can adjust the collision detection sensitivity level according to their needs. The higher the sensitivity, the more easily parking collisions are triggered.

(2) Entry/Exit Method:

a) Automatic Mode (Default)

- Without ACC connection (i.e., G-Sensor mode): Automatically enters 10 minutes after the vehicle remains stationary; automatically exits when a secondary collision is detected by the G-Sensor.
- With ACC connection (i.e., ACC mode): Automatically enters after the vehicle is turned off (ACC OFF); automatically exits when the vehicle starts (ACC ON).

b) ACC Mode

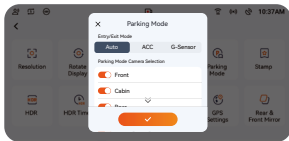
- Properly install the ACC step-down cable and connect to power. Automatically enters after the vehicle is turned off (ACC OFF); automatically exits when the vehicle starts (ACC ON).

c) G-Sensor Mode

- Entry and exit of parking monitoring are controlled by the G-Sensor. Automatically enters 10 minutes after the vehicle remains stationary; automatically exits when a secondary collision is detected by the G-Sensor.

Note:

- If the device does not trigger properly after connecting the ACC cable, switch to G-Sensor mode instead.
- If ACC trigger is selected for parking monitoring collision mode, it will enter immediately by default. To delay ACC entry into parking monitoring, go to Recording Settings → Parking Monitoring → "ACC Delay" to set the entry time.

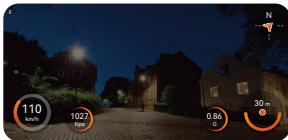


(3) Camera Monitoring Settings:

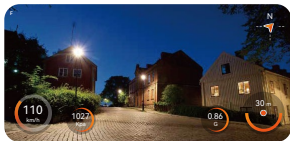
Front, Interior, Rear. All are enabled by default and can be individually set to On or Off.

(4) Parking Low-Light Night Vision

To enhance safety during nighttime parking, we leverage lens performance combined with low-light night vision technology to improve the night vision effect in parking mode. This function is enabled by default and is only triggered upon entering parking mode, ensuring it does not affect normal recording.



Turn off Parking Low-Light Night Vision



Turn on Parking Low-Light Night Vision

(5) Collision Detection Mode

a) Standard Mode (Default): When parking monitoring collision detection mode is enabled, if a collision occurs while the vehicle is stationary (ignition off / ACC power off), the device automatically enters parking collision detection mode and saves a 30-second video after the collision.

b) Pre-recording Mode: When parking monitoring collision detection mode is enabled, if a collision occurs while the vehicle is stationary (ignition off / ACC power off), the device automatically saves a 10-second pre-recording video before the collision + a 30-second real-time video after the collision, merging them into a single 45-second complete video.

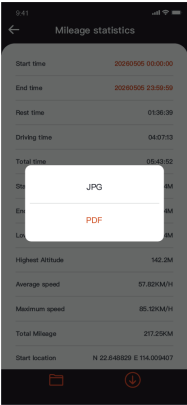
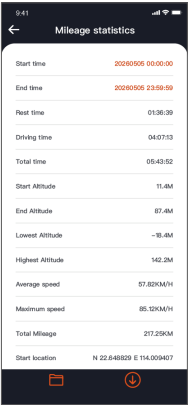
(6) Parking Monitoring Duration: Default is unlimited, or can be set from 1 to 100 hours.

(7) ACC Delay: Default is immediate entry, or can be set from 1 to 30 minutes.

5.4 Mileage Statistics

The P2 dash cam utilizes GPS data collected during driving to record and analyze information such as driving duration, mileage, altitude, and speed. Users can export mileage reports via the app. In the app's live preview interface, select a start time and end time, then confirm to download the report as a PDF or JPG

file, which will be saved locally in the app.

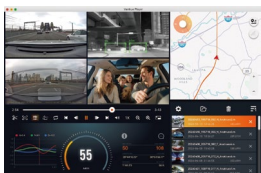
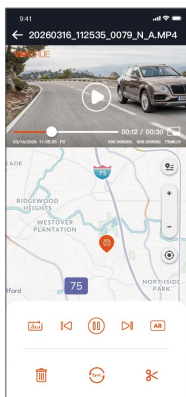


5.5 GPS Settings

5.5.1 GPS Function

The GPS function is one of the important features of the dash cam. GPS is enabled by default and receives signals through the GPS mount. It automatically updates the date and time based on your location and records the location and speed information in the videos.

GPS information is embedded in the recorded videos. To view it, please download and install the Vantrue APP and Vantrue Player.



Note:

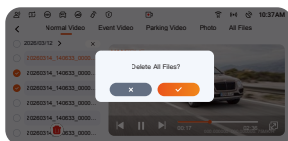
- GPS will connect within one minute after the device is powered on. If the connection is not successful within one minute, please check whether the GPS function is enabled, whether the device is properly connected to the GPS mount, and consider your

current environment (e.g., underground parking lots, densely built residential areas, subways, tunnels, etc., which may affect GPS signal reception).

5.6 Methods for Playing Back and Deleting Files

(1) Operation on the Dash Cam

Playback Videos: Enter File Browser, select any folder to open, choose a video file, and tap it to start playback. Select the desired video and tap "Select" to delete it.

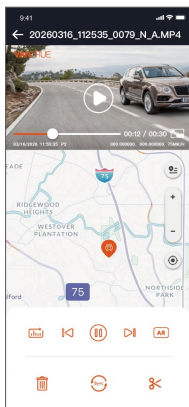


(2) Playback and Deletion on a PC

Insert the SD card into a card reader and connect it to your computer. You can then view, select, and delete video files as needed.

(3) Playback and Deletion in the Vantrue App

After connecting the dash cam to your phone via Wi-Fi, you can play back, download, and delete files within the camera folder in the app.



Note:

- Playing back and downloading files from the Micro SD card via the app does not consume mobile data.
- When playing back downloaded video files locally, you can view GPS track information. However, you must disconnect from the dash cam's Wi-Fi; otherwise, the map information may appear blank.

(4) Optional Viewing with Vantrue Player

Vantrue Player supports video playback, GPS track viewing, speed display, and other features, providing users with an enhanced video experience. For more detailed operations, please refer to the complete electronic user manual.

- **Windows users** can download Vantrue Player from the Vantrue official website:
<https://www.vantrue.com/pages/vantrue-app-player>
 Download path: Open the official website → Click

"Support" → "Download" → "Download Player"

- **Mac users** can search for "Vantrue Player" in the Apple App Store and download it.



5.7 Dash Cam Firmware Upgrade

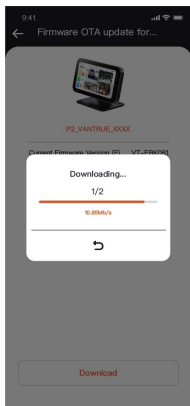
Upgrade Method 1: File Upgrade

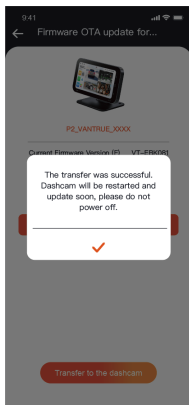
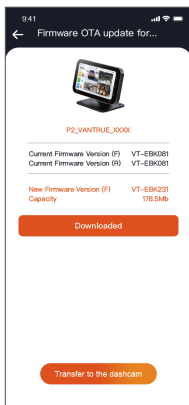
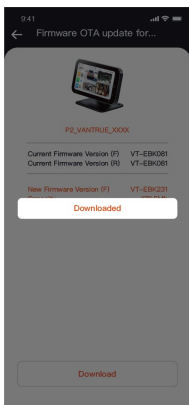
After downloading the latest P2 dash cam software from the VANTRUE official website, place the corresponding bin file in the root directory of the SD card. Then insert the SD card back into the dash cam and power it on to perform the upgrade.



Upgrade Method 2: OTA Upgrade via App

After opening the app, users will receive a dash cam software update notification. Upon confirming the upgrade, they will be redirected to the OTA upgrade interface and can follow the app instructions to complete the update.





Upgrade Precautions :

- Whether performing a file upgrade or an OTA upgrade, ensure the P2 dash cam remains powered on during the process.
- OTA upgrades require mobile data to download the update file.
- For file upgrades, format the SD card in the P2 dash cam before placing the update file into the SD card to proceed with the upgrade process.

6. Specifications

To provide users with a better product experience, we may upgrade the product. Specifications are subject to change without notice.

Model	P2
Chip processor	Dual-core High-performance Processor
Image Sensor	Sony Sensor
G-Sensor	Built-in 3-axis G-Sensor
Screen	6.25" IPS
Lens Angle	Front 158° / Interior 160° / Rear 165°
Aperture	Front F1.8 / Interior F2.0 / Rear F1.8
Language	English, Simplified Chinese, Traditional Chinese, Japanese, German, French, Italian, Spanish, Russian, Polish, Korean, Turkish, Czech
Resolution	Front: 2560x1440P、1920x1080P、1280x720P Interior: 1920x1080P、1280x720P Rear: 2560x1440P、1920x1080P、1280x720P
Video Format	MP4
Audio	Built-in microphone and speaker
Storage	Micro SD card (supports 8GB-1TB, supports FAT32 format)
USB Interface	Type-C
Battery Type	Super Capacitor

Power Supply Current	DC 5V 3A
Operating Power	14W
Operating Temperature	-4°F to 140°F (-20°C to 60°C)
Storage Temperature	-13°F to 158°F (-25°C to 70°C)

7. Warranty & Support

VANTRUE offers a 12-month warranty period. If you have any questions, please feel free to contact us through the following methods. Our dedicated customer service team will respond within 12–24 hours:

- ① Contact us via the Vantrue APP: Go to "My" → "FAQ" or "Contact Us".
- ② Reach out to the customer service team from your point of purchase.
- ③ Send an email to the VANTRUE official email: support@vantrue.net.

Thank you for choosing VANTRUE ®

8. Safety Information

Q1. The device won't turn on / keeps restarting

- Check that the power cord and charging port are securely connected; try using a different charging cable or port.
- Replace the TF memory card with a high-speed card that meets the specifications to rule out a card malfunction causing the restart.
- If using a step-down cable, ensure the connections are correct and the fuse is intact.

Q2. No video recording / Card error message

- Use a U3 or Class 10 high-speed TF card; recommended capacity is 8GB–1TB.
- Format the TF card in the dashcam settings; do not use the quick format option on a computer.
- The card is full; we recommend deleting or saving video files promptly.

Q3. Failed to connect to the app

- Check if the dashcam's Wi-Fi is enabled, then reconnect your phone to the device's Wi-Fi (follow the on-screen instructions to complete the connection).

Q4. No video files / Missing videos

- Regular videos are automatically overwritten in a loop; please save important videos promptly.
- Verify that the TF card is functioning properly, is not write-protected, and that Privacy Mode is not enabled.

Q5. No image from the rear camera

- Check that the rear camera cable and connector are securely plugged in and undamaged.
- Use the original rear camera cable; non-original cables may be incompatible.
- Restart the device; if the issue persists, contact after-sales service for inspection.

Q6. Parking monitoring not working / not recording

- Check that the step-down cable is properly connected to the constant power, ACC, and ground wires
- Confirm that parking monitoring is enabled in the dashcam settings.
- Check if the ACC wiring is correct and if the engine-off signal is detected.

Q7. Incorrect time

- Enable GPS auto-update or perform a manual update.

Q8. GPS cannot locate

- Use the device in an open outdoor area to avoid signal interference.
- Confirm that GPS is enabled in the settings.

Q9. Why is the thermal imaging lens mounted outside the vehicle?

- Thermal imaging technology operates in the 8–14 μ m long-wave infrared spectrum and cannot penetrate glass; therefore, the thermal imaging lens must be mounted outside the vehicle (recommended location: center of the hood).
- The thermal imaging lens is waterproof, dustproof, and resistant to impacts from sand and gravel,

making it suitable for most driving scenarios. (Note: Please use within an ambient temperature range of -20°C to 70°C.)

Q10: Does thermal imaging technology pose any radiation hazards?

- Thermal imaging technology only captures thermal information emitted by objects and does not actively emit any radiation, so it is safe to use.

Q11: Why does the image freeze occasionally during operation?

- Due to the nature of thermal imaging technology, the camera must periodically refresh the shutter to ensure stable imaging.
- The built-in shutter of the thermal imaging camera automatically performs these refreshes. During the refresh, the image will briefly freeze and a “click” sound may be heard; this is a normal operational phenomenon.

Q12: Why does the image become blurry in rainy weather?

- Raindrops absorb and scatter infrared heat, affecting thermal imaging detection and reducing image clarity.
- You can enable the Rain/Fog mode in Smart Thermal Imaging to increase the shutter refresh rate and improve imaging performance in rainy conditions. (Note: Not suitable for heavy rain.)

9. Compliance Statement

Important Safety Warnings

For your safety and the safety of others, please read and follow all safety information below carefully before installing and using this dash cam. Proper operation ensures optimal device performance and helps avoid hazards, personal injury, or property damage.

Driving Safety (Primary Principle)

- Please remember that your primary responsibility is safe driving. Do not operate the dash cam interface while driving to avoid distraction and potential accidents.
- Please perform any setup, adjustments, or video playback only before starting the vehicle or after parking in a safe location.

Electronic Devices

- Please do not use this device in areas where wireless devices are prohibited, as it may interfere with other electronic equipment or cause other hazards.

Flammable and Explosive Areas

- Please do not operate the dash cam in gas stations, chemical plants, or any area where flammable or explosive gases may be present.
- Please do not store or transport the device and its accessories in the same container as flammable liquids, gases, or explosives.

Traffic Safety

- Please remember that safe driving is your top priority. Avoid engaging in any activity that may distract you.
- Please note that electronic devices may malfunction due to radio interference. Contact the manufacturer for

further information.

Operating Environment

- Please note that this dash cam is not waterproof. Do not install it in any location where it may be splashed with rain or other liquids.
- Please operate the device in ambient temperatures between -20°C and 60°C. Store it in temperatures between -25°C and 70°C. Extreme temperatures may cause product malfunction.
- Please install the dash cam in a location that does not obstruct the driver's vision. Ensure it is securely fastened and will not come loose while driving.

Child Safety

- Please keep the dash cam and all cables and accessories out of the reach of children and pets. Small parts may pose a choking hazard, and swallowing batteries can cause chemical burns.

Accessory Requirements

- Please do not use unapproved or incompatible power supplies, chargers, or batteries, as this may cause fire, explosion, or other hazards.

Battery Safety

- Please note that the system clock of this dash cam uses a miniature lithium-ion battery. Improper handling may cause hazards. Please strictly follow the requirements below.
- This device uses a non-removable battery. Please do not attempt to disassemble, crush, or puncture the device.
- Please do not expose the battery to high temperatures or heat sources such as sunlight, heaters, microwaves, ovens, or water heaters. Overheating may cause explosion.

- Please do not place the battery in extremely low air pressure environments, as this may result in explosion or leakage of flammable liquid or gas.
- Please do not disassemble or modify the battery, insert foreign objects, or immerse it in water or other liquids, as this may cause leakage, overheating, fire, or explosion.
- If battery leakage occurs, please avoid contact with skin or eyes. If contact occurs, rinse immediately with clean water and seek medical attention.
- Please do not dispose of batteries in fire, as this may cause them to ignite and explode.
- Please do not use damaged batteries.
- Please dispose of the device in accordance with local regulations. Do not discard it as household waste.

Maintenance and Care

- Please avoid subjecting the device and its accessories to strong impacts, vibrations, scratches, or contact with hard or sharp objects, as this may damage them and cause malfunctions.
- Please turn off the device before cleaning. Use only a soft, dry, lint-free cloth to gently wipe the lens and body. Do not use any chemical cleaners.
- Please do not disassemble or modify the device or cables, as this will void the warranty. For repairs, please contact Vantrue official customer service.
- If the device becomes damp, please turn it off and allow it to dry naturally in a ventilated area. Do not use external heat sources such as microwave ovens or hair dryers.
- Please keep the device and its accessories clean and dry.

Environmental Protection

- Please do not dispose of this device as ordinary household waste.
- Please follow your local regulations for electronic waste disposal and support environmentally friendly recycling.

FCC Compliance Statement

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.

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 reasonably avoid harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that such interference will not occur under a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by switching the device on, the user is

encouraged to try to correct the interference by one or more of the following measures:

Adjust the direction or position of the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit other than 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 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.

ISED Statement

- English: This device complies with ISED license -

exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

The digital apparatus complies with Canadian CAN ICES -3 (B)/NMB -3(B).

- French: Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. L'appareil numérique du ciem conforme canadien peut - 3 (b) / nmb - 3 (b).

This device meets the exemption from the routine evaluation limits in section 5.3.2 of RSS 102 and compliance with RSS 102 RF exposure, users can obtain Canadian information on RF exposure and compliance.

cet appareil est conforme à l'exemption des limites d'évaluation courante dans la section 5.3.2 du cnr - 102 et conformité avec rss 102 de l'exposition aux rf, les utilisateurs peuvent obtenir des données canadiennes sur l'exposition aux champs rf et la conformité.

This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements du Canada établies pour un environnement non contrôlé.

The device for operation in the band 5150 - 5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems.

L'appareil destiné à fonctionner dans la bande 5150-5250 MHz est uniquement destiné à une utilisation en intérieur afin de réduire le potentiel d'interférences nuisibles aux systèmes mobiles par satellite co-canaux.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

VANTRUE
truly driven.



www.vantrue.com

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