# VANTRUE®

# VANTRUE®

Dual 1440P QHD

CE FC RoHS ♻

Made in China    Http://www.vantrue.net

## User    Manual

Dual Dash Cam    OnDash N2S

**胶装说明书**

单页尺寸：100×130mm
封面：157G双铜纸过哑胶
内页：100G双胶纸

橙色以 1655C为准

轮廓线不需要印刷

# CONTENTS
# VERZEICHNIS
# CONTENU
# 日本語作業マニュアル

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Always a surprise in Vantrue

# 1. What's in the box?



**A.** Dual Car Charger with Built-in Type-C USB Cable (11.4ft)

**B.** VANTRUE® N2S Dual Dash Cam
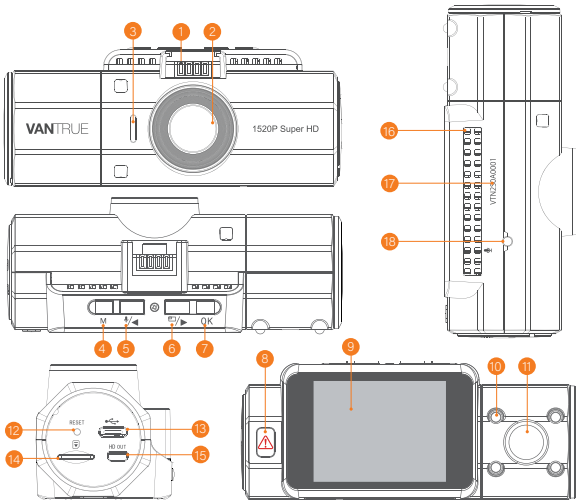
**C.** Suction Cup Mount with GPS Module

**D.** Type-C Data Cable (3ft)

**E.** User Manual

**F.** Quick Start Guide

**G.** Warranty Card

## 2. Camera Overview



| NO. | Name | Description |
|-----|------|-------------|
| 1 | Mount Connector | Connects to the Suction Cup Mount. |
| 2 | Front Camera Lens | Front Facing Camera for video recording. |
| 3 | Speaker | Delivers sound during video playback. |
| 4 | M Button | Enter/exit setup menu; long press for Power ON/OFF; Return to the previous step in the setup menu. |

| 5 | 🎤/◀ Button | Microphone ON/OFF;<br>Move selector up;<br>Resume playback speed. |
|---|---|---|
| 6 | ▣/▶ Button | Switch video windows;<br>Move selector down;<br>Fast forward. |
| 7 | OK Button | Confirms the action;<br>Stop/Start the video recording. |
| 8 | ⚠ Button | Manually locks the currently recording video clip following emergency or to preserve important videos;<br>Long press to enter Parking Mode; When browsing the file interface, Short press to bring up the Menu. |
| 9 | LCD Screen | 2″ TFT Color LCD Display. |
| 10 | IR Light | 4 IR LED Lights enhances night vision. |
| 11 | Rear Camera Lens | Rear facing camera for in-car video recording. |
| 12 | Reset Button | Press to force reset the device. |
| 13 | Type-C Port | Type-C Port connects to external device. |
| 14 | Micro SD Card Slot | Provides expandable storage (up to 256GB in FAT32, Class 10) |

| 15 | Micro HDMI Port | For HDMI (High-Definition Multimedia Interface) cable. |
| 16 | Microphone | Records clear audio with the video footage. |
| 17 | Serial Number | Serial Number for Warranty. |
| 18 | IR Light  Sensor | Sense the light changing. |

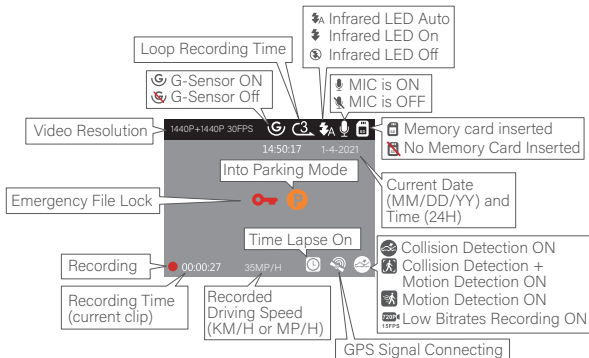## LED Indicator

| | |
|---|---|
| Red light is keeping lighting on the Emergency Button [8] | Camera is plugged into supply. |
| Red light blinks on the Emergency Button [8] | Camera is recording. |

## Screen overview

Infrared LED Auto
Infrared LED On
Infrared LED Off

Loop Recording Time

G-Sensor ON
G-Sensor Off

MIC is ON
MIC is OFF

Video Resolution

1440P+1440P 30FPS

14:50:17    1-4-2021

Memory card inserted
No Memory Card Inserted

Into Parking Mode

Current Date (MM/DD/YY) and Time (24H)

Emergency File Lock

Time Lapse On

Recording

00:00:27    35MP/H

Collision Detection ON
Collision Detection + Motion Detection ON
Motion Detection ON
Low Bitrates Recording ON

Recording Time (current clip)

Recorded Driving Speed (KM/H or MP/H)

GPS Signal Connecting

## 3. Getting Started

### 3.1 Installing a Memory Card (Recommend VANTRUE Micro SD Card)

Please use a genuine Micro SD memory card from 32GB to 256GB with a speed rating of class 10 or higher. We recommend use Vantrue Micro SD Card (not included). Please insert the SD card when dash cam is off. Carefully insert the memory card into the camera's card slot until it clicks. To remove the card, power off the camera first, then push the card into the slot until it clicks again.

If you are using SD card from other brand, before using the card, please format it correctly using these steps:

- Press (M) to enter setup; if the camera is recording video, press (OK) button to stop the recording; if it says 'please insert SD card' here, please press the (OK) button and press (M) button to access into the menu.

- Press the (□/▶) button to highlight the System Setup option, press (OK) button to confirm.

- Press the (□/▶) button to highlight the Format option, press (OK) followed by the (□/▶) button to select FORMAT.
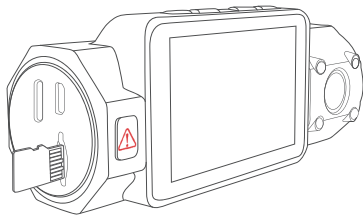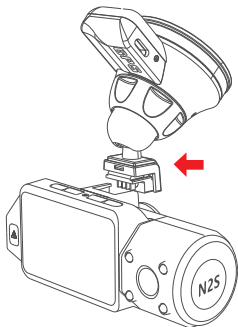
**REMINDER:**

1. Ideally, the microSD card should be formatted once a month to maximize the lifetime of the memory card.

2. We recommend VANTRUE Card. Some SD cards may not compatible with our dash cam, such as Sandisk, Transcend, etc.

### 3.2 Installing the camera onto your windshield

1. Attach the Suction Mount to the camera's Mount Connector, pushing it in until it clicks.



2. Thoroughly clean the windshield using water or alcohol, and wipe clean with a dry cloth.

3. Wipe the Suction Mounting Pad clean on the Suction Mount.

4. Securely attach the Suction Mount to the windshield, and rotate the locking clamp on the mount 90° upward until it clicks.
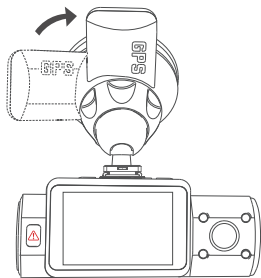
5. Carefully route the power cable around the windshield and tuck it under the trim.
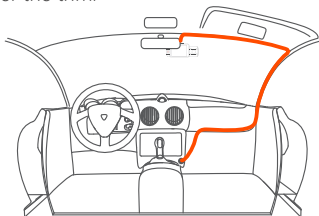


6. With the Type C USB Cable, connect the supplied Car Charger to the Camera Mount Base, or connect the supplied Car Charger to the Camera.
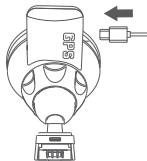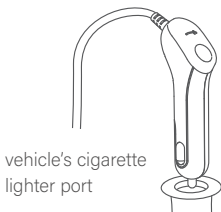


Connect to the
Camera Mount Base

Connect to the Camera

7. Insert the Car Charger into your vehicle's cigarette lighter port.



vehicle's cigarette lighter port

8. Start the car.

9. The camera will auto power on and start recording.
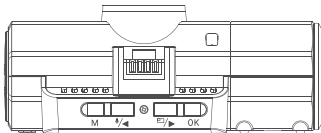
## 4. Basic Operation

### 4.1 Power ON/OFF

Once the car starts on, the camera will automatically turn on and start recording.

When you do not want to use the dash cam, please long press the [M] button to turn it off, and long press the [M] button to turn it on again when you want use that.

There are two ways to turn OFF the camera:

#### A. Manually

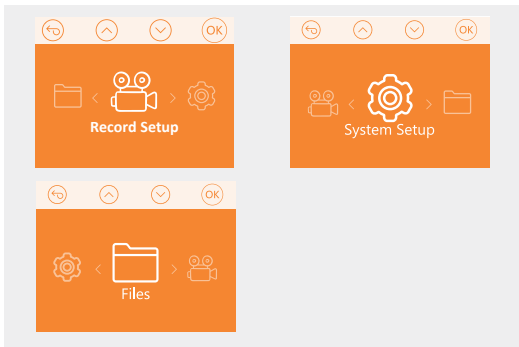Long press the [M] button to power it OFF.

### B. Automatically

The camera will power off if the charger cable is disconnected or if the vehicle is turned off.

### 4.2 Menu Settings

After powering ON the camera, press the [M] button to enter the setup process. (If the camera is recording video, press the [OK] button to stop recording before pressing the [M] button.)



### 4.2.1 Record Setup

Press the [M] button to enter the settings, and use the [🎤/◀] or [▭/▶] buttons to navigate the different options.

- **Resolution:** Press [🎤/◀] or [▭/▶] button to change the options:In Dual Recording mode:1440P+1440P(30FPS); 1440P+1080P(30PS);1080P+1080P(30PS);1080P+720P (30FPS); 720P+1080P(30FPS);720P+720P(30FPS);

IN SINGLE FRONT CAM RECORDING mode, 3840x2160P (25FPS); 2592x1520P(30FPS); 2560x1440P(30FPS); 1920x1080P (30FPS); 1280x720P(30FPS) options are available.

-**Loop Recording:** Press ▼/◄ or ▢/► button to change the duration: 1Min, 3Min, 5Min and Off.

-**IR LEDS:** Press ▼/◄ or ▢/► button to change the options: Auto, On and Off.

-**G-Sensor:** Pressing OK gives the following sensitivity options: 1, 2, 3, 4, 5 and Off.

-**Audio Recording:** Press ▼/◄ or ▢/► button to change the options: OFF/ON.

-**Parking Mode:** Press ▼/◄ or ▢/► button to change the options: Collision Detection, Collision + Motion Detection, Motion Detection, Low Bitrates Recording, OFF.

-**Exposure:** Pressing OK gives the following options for Front or Cabin: +2.0, +5/3, +4/3, +1.0, +2/3, +1/3, +0.0, -1/3, -2/3, -1.0, -4/3, -5/3, -2.0.

-**WDR:** Press ▼/◄ or ▢/► button to change the options: OFF/ON.

-**Number Plate:** Press ▼/◄ or ▢/► button and OK to set your car license number.

-**Stamp:** Press ▼/◄ or ▢/► button to change the options: OFF/ON. Stamp shows the date/time, logo Stamp, Car Number, Speed and GPS Location information.

-**Rotate Display:** Press ▼/◄ or ▢/► button to change the options: OFF/ON.

-**Time Lapse:** Press ▼/◄ or ▢/► button to change the options: Off, 1FPS, 5FPS.

### 4.2.2 System Setup

- **Language:** Press $\boxed{\text{♦/◄}}$ or $\boxed{\text{□/►}}$ button to change the duration: English, Simplified Chinese, Japanese, German, Italian, Spanish, French and Russian.

- **Format SD Card:** Select Format and press $\boxed{\text{OK}}$ button to format the SD card.

- **Time & Date:** Press $\boxed{\text{♦/◄}}$ or $\boxed{\text{□/►}}$ button and $\boxed{\text{OK}}$ button to the current date and time. Press the $\boxed{\text{M}}$ button to exit.

- **Auto LCD Off:** If you choose 3 Min, it will turn off the camera screen 3 minutes after recording commences. Press $\boxed{\text{♦/◄}}$ or $\boxed{\text{□/►}}$ button to change the duration: Auto, 30Sec, 1Min, 3Min.

- **Device Sound:** Press $\boxed{\text{♦/◄}}$ or $\boxed{\text{□/►}}$ button to change the duration: 1, 2, 3, 4, 5 and OFF.

- **Frequency:** Press $\boxed{\text{♦/◄}}$ or $\boxed{\text{□/►}}$ button to change the options: 50Hz/60Hz.

- **System Info:** Press $\boxed{\text{OK}}$ to check the current firmware version. (System Info)

- **Default Settings:** Press $\boxed{\text{OK}}$ button select $\boxed{\text{OK}}$ and to reset the device back to stock factory settings. Press the $\boxed{\text{M}}$ button to exit and complete the setup.

- **GPS setup:** Press $\boxed{\text{OK}}$ to toggle it ON/OFF.

- **Speed Unit:** Press $\boxed{\text{OK}}$ to select either KM/H or MP/H.

### 4.2.3 Files

Review and delete videos stored in the file folders.

- **Event:** Critical event videos detected by G-Sensor activity or manually locked by user.

- **Normal:** Standard videos recorded.

- **All:** All the standard videos, critical event videos recorded.
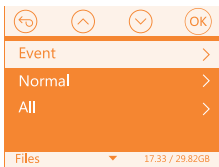


## 4.3 Set Date/Time

Open the [M] interface, navigate to "System Setup" > "Time & Date", and press the [OK] button to set the date/ time. Navigate [🎤/◄] or [📷/▶] to select date and time values. Press [OK] to confirm and proceed. To finish setup, just press the [M] button to exit.

**NOTE:**
Date format is MM/DD/YY with the time in 24 hour format.
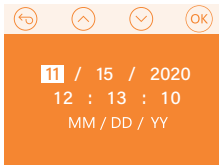
### **4.4 Switch Dual or Single Recording Mode/Resolution**

The default setting is (DUAL RECORDING mode) 1440P+
1440P 30FPS. You can switch the dual recording resolution
with following steps:

- Go to "Record Setup">"Resolution" >"Dual Recording",
  Press 〔OK〕button, then press 🎤/◀ or 〔▣/▶〕 button to change
  the options 1440P+1440P (30FPS) ; 1440P+1080P(30FPS);
  1080P+1080P(30FPS);  1080P+720P(30FPS) ;
  720P+1080P(30FPS); 720P+720P(30FPS);



Front Camera Bigger                    Inside Camera Bigger
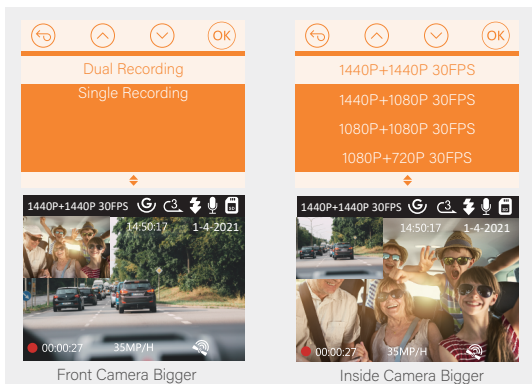
In dual recording mode when driving, you can press 〔▣/▶〕 to
switch display to choose the rear/inside camera show bigger
on the lcd.

It can be switched to SINGLE FRONT CAM RECORDING
mode with following steps:

- Go to "Record Setup">"Resolution" > "Single Recording",
  press 〔OK〕 button, 3840x2160P(25FPS); 2592x1520P(30FPS);
  2560x1440P(30FPS); 1920x1080P (30FPS); 1280x 720P
  (30FPS) options are available for single front recording mode.

### 4.5 Auto LCD OFF

This feature avoids any chance of the screen being a distraction in the vehicle, especially at night when the illumination from the LED screen can be a nuisance or even a hazard to the driver. If you set the Auto LCD Off to 3 minutes, the camera's LCD will light off after 3 minutes but recording will continue with red light blinks on the ⚠ button. If the setup is Auto, the screen will auto shut down when the internal temperature of the camera reaches 115°F.
You can press any button to light on the screen.

Please go to System Setup to adjust this time to 30 sec, 1Min, 3Min, or Auto to using that.

## 4.6 Loop Recording

With a memory card inserted, the camera will (by default) immediately start loop recording when connected to a power source and powered ON.

While recording, the LED indicator will blink and a red dot will flash on the bottom left of the screen. You can stop/start the recording at any time by pressing the OK button.



By default, the Loop Recording Time is 3 minutes. Please go to "Record Setup" > "Loop Recording" to change it to 1 minutes, 3 minutes or 5 minutes or off. When Loop Recording is turned off, the camera will record video in 20 minute clips, but will not overwrite old videos when the storage card is full.

The loop recording video file name format is "Year_Date_ Time_SerialA". For example: "2022_01_01_060101_A", the suffix A indicates front cam recorded files, while the suffix B refers to rear cam recorded files). Standard files are stored in the "Video/Normal" folder. When the microSD card is full, the camera will write over older files.

## 4.7 IR LED light

By default, the IR LED light is auto on.

**Please note:** If IR lights on, the video footage of the cabin will turn into black and white.

IR Light Sensor

⚡A Infrared LED Auto
⚡ Infrared LED On
🚫 Infrared LED Off

### 4.8 Event Recording

Critical event detection is triggered by the G-Sensor (Gravity Sensor) and will auto-detect vehicle impacts and collisions. This will cause the camera to protect the current video clip from being overwritten by locking it and saving to the "Event" folder.

The vehicle driver can also manually lock the current video recording session by pressing the ⚠ Button. A key icon will appear at the center of the screen.

The G-Sensor sensitivity is adjustable with 5 settings: 1, 2, 3, 4, 5, and off – it is set to 3 by default. The G-Sensor can also be deactivated in "Record Setup">"G-Sensor".

The Collision Detection sensitivity can be adjusted by the following three settings: Low, Medium and High. Please go to "Record Setup" > "Parking Mode"> "Collision Detection" to change as needed.

Event videos are stored in the "Video/Event" folder, and cannot be automatically overwritten.

**NOTE:** The camera will auto overwrite old Event videos once the Event folder has accumulated 25% of the card capacity. Please regularly transfer important videos to your PC or another storage location (e.g. external hard drive). To maintain good read/write performance, the microSD card should better be formatted once a month.

### 4.9  Audio Recording

By default, the voice recording is ON. It can be turned OFF following either of the methods below:

- Go to "Record Setup"> "Audio Recording", press OK button and select OFF;

- While recording video, press the ↓/◀ button to toggle voice recording OFF/ON.

When the voice recording has been turned OFF, the MIC icon on the screen will turn white with a red line across it.



## 4.10  Parking Mode (Constant Power Supply Needed)

Parking Mode operates as a sentry function under different situations. To activate Parking Mode, go to "Record Setup"> "Parking Mode" , press OK and select the following options: Collision Detection, Collision Detection + Motion Detection, Motion Detection, Low Bitrates Recording, OFF.

When entering parking mode, there will be a notification appear on the screen, pls press OK button to confirm.

Note: When parking in the hot summer sunlight, please use the collision detection triggered parking mode

OK
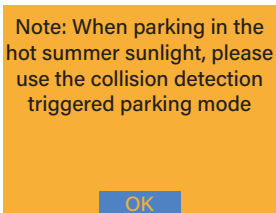
If you set the Parking Mode OFF, the camera will enter normal recording mode.

### 4.10.1 Collision Detection Triggered

When the Collision Detection has been turned on, and no The Collision Detection sensitivity can be adjusted by the following three settings: Low, Medium and High. Please go to "Record Setup" > "Parking Mode"> "Collision Detection" to change as needed.movement is detected after 5 minutes of recording, then Collision Detection is activated with a Collision Detection icon at the bottom right corner of the screen, and the camera automatically to turn off. Full frame recording will be triggered by the Collision Detection sensor. Once it detects vehicle impacts or collision, it will auto turn on and start auto recording; it will stop recording and auto off again after 5 minutes of inactivity.



### 4.10.2 Collision Detection + Motion Detection Triggered

When the Collision Detection + Motion Detection has been turned on, this is represented by a Collision Detection + Motion Detection icon at the bottom right corner of the screen.

If no movement is detected after 5 minutes of recording, there will be an orange P icon appears in the center of the screen which means Parking Mode is activated. Once the camera detects movement, it will start auto-recording; Once you power off the camera, full frame recording will be triggered by the Collision Detection sensor. Once it detects vehicle impacts or collision, it will auto turn on and start auto recording; it will stop recording after 10 seconds of inactivity.



To manually activate Parking Mode, press and hold the ⚠ button until the P icon appears on the centre of screen.



**NOTE:** In Collision Detection + Motion Detection mode, if the dash cam is turned off manully, it will turn on and record once it detects any vibration.

### 4.10.3 Motion Detection Triggered

When the Motion Detection has been turned on, this is represented by an Motion Detection icon at the bottom right corner of the

screen. If no movement is detected after 5 minutes of recording, there will be an orange P icon appears in the center of the screen which means Parking Mode is activated. Once the camera detects movement, 2 cameras will simultaneously start auto recording; they will stop recording after 10 seconds of inactivity.



**NOTE:** In Motion Detection mode, if the dash cam is turned off manully, it will not turn on and record even it detects any vibration.

In Parking Mode, the camera will exit Parking Mode if it detects any vibration (Such as opening and closing the door, or moving the car from rest, or other impact vibrations can be triggered), and enter the Normal Video Mode.

In Parking Mode, if you set the Auto LCD OFF to Auto, the camera's LCD will light off after 1 minute but the recording will continue with red light blinks on the Indicator light.

**NOTE:** Since it is a super capacitor dash cam, to ensure the camera is able to function in Parking Mode, please keep it powered with a power bank or hardwire it directly to the car battery. We do not recommend running the camera continuously for too long time.

### 4.10.4 Low Bitrates Recording

When the Low Bitrates Recording has been turned on, this is represented by an low Bitrates Recording icon at the bottom right corner of the screen. If no movement is detected after 5 minutes of recording, there will be an orange P icon appears in the center of the screen which means Parking Mode is activated. Once the camera enter Low Bitrates Recording, the dash cam will auto switch to 720P @15fps resolution and keep recording. For example: the single front mode will record video at 720P@15fps, and the dual recording mode will both record video at 720+720P@15fps. The camera will exit Low Bitrates Recording if it detects any vibration, and record at the selected resolution.



1. In Low Bitrates Recording, if the dash cam is turned off manually, it will not turn on and record even it detects any vibration.

2. In Time Lapse, the dash cam cannot enter the Low Bitrates Recording mode.

### 4.11 Time Lapse

If Time Lapse is selected, the camera will take static photos at the set recording frame rate– either 1FPS, 5FPS, OFF – to create a video montage. For example, if you set Time Lapse {1FPS, the camera will take one photo every second, and

then stitch the photos together into a 1 fps video. With a maximum recording frame rate of 5fps, recording 8 hours of video with Time Lapse 1Sec will generate a time lapse video lasting just 16 minutes (8x60x60/30/60). This Eco Mode is recommended for storage cards with smaller capacities.

**[Real Recording Time = Time Lapse Video Time Length (Sec) x Video Frame Rate FPS / Time Lapse Option FPS]**

When the camera is turned on again, it will record in time apse recording mode.



### 4.12 GPS Function

1. Install the External GPS Mount onto the camera.

2. Plug the Type C USB Connector into the GPS Mount to power it.

3. Once charged, the camera will power on. Recording will commence if a microSD card has been inserted, just press the OK Button to stop recording.

4. Press the M button to enter setup, go to "System Setup ">"GPS " to activate the camera's GPS function.

5. The GPS receiver will start to search for a GPS signal, once the GPS signal has been received, the GPS icon will be displayed on the screen.

6. You can include GPS tracking and vehicle speed on the video footage, go to "Record Setup">"Stamp">"GPS Location Stamp" and "Speed Stamp" to set.

7. You can review recorded video using the VANTRUE® GPS Viewer (available for download on www.vantrue.net).

## 4.13  Viewing Video on the Camera/Computer/TV

### Viewing files on camera

Press ⓜ and go to "Files", press ⓞⓚ and ⓥ/◄ or ▣/► button to navigate to >"Event" or >"Normal" or >"All" file folders to view and playback videos on the camera display. Use the ⓥ/◄ or ▣/► buttons to select the file and  press ⓞⓚ button to playback/pause. During playback, and ▣/► button to fast forward, press ⓥ/◄ button to  resume playback speed.

### Viewing files on a computer

1. Connect the camera to your computer using the supplied USB cable.

2. "USB Connecting" and "Power on" will be displayed on the camera screen, please select "Power on " and press ⓞⓚ button to transfer data.

3. Depending on your computer OS, the device will appear either as a removable drive or a removable volume.

### View on a TV

The camera has a Micro HDMI port for connecting anexternal display such as a monitor or TV. Please note that the package doesn't come supplied a Micro HDMI to HDMI cable.

1. Use a USB charger to charge the camera.

2. Insert the Micro HDMI connector into the camera's HDMI port.

3. Insert the HDMI connector end into your TV or monitor's HDMI port. Adjust your display settings to detect the HDMI input source.

4. Adjust your display settings to detect the HDMI input source.

5. Once connected to your TV, the camera's screen will turn black and be output to your TV screen.

### NOTE:

1. To use the HDMI Output Mode, the camera requires a constant power connection via USB.

2. When connected to an external display, the camera's video recording function is disabled.

### 4.14  Delete Videos

#### Delete Event Files

-Go to Event file, playback the video on the dash cam, single press the ⚠ button, select Delete files then press OK button to delete.

#### Delete Normal Files

- Go to Normal file, playback the video on the dash cam, single press the ⚠ button, select Delete files then press OK button to delete.

### 4.15 Upgrading the Firmware

The system will automatically update if the micro SD card contains the firmware upgrade file. The camera will restart once the upgrade has been completed.

**Always stay up-to-date**

The latest firmware version is always available at the official VANTRUE website (www.vantrue.net). We strongly recommend registering your product (www.vantrue.net/register) to receive a notification email when a new firmware update is available.

### 4.16 Working Temperature

The camera is designed to operate in temperatures from 14° to 158°F (-10° to 70°C), temperatures outside this range risk degrading the camera's performance work and causing damage.

**To avoid damage**

- In hot weather, do not expose the camera directly to the sun when the car is parked.

- In extreme winter conditions, i.e. -4°F (-20°C) or lower, detach the camera from the windshield when not in use, and store in the glove box.

## 5. Specifications

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

| Model | N2S |
| --- | --- |
| Image Sensor | Front: Sony<br>Rear: Sony |
| Display | 2.0 Inch TFT LCD (4:3) |
| Lens | Front: 155° wide viewing angle, F/1.4 wide aperture.<br>Rear: 165° wide viewing angle, F/1.8 wide aperture. |
| Languages | English/Japanese/Deutsch/Italian/Spanish/French/Russian/简体中文 (Simplified Chinese) |
| Video | Dual recording:<br>1440P+1440P(30fps);<br>1440P+1080P(30fps);<br>1080P+1080P(30fps);<br>1080P+720P(30fps);<br>720P+1080P(30fps);<br>720P+720P(30fps);<br><br>Single front cam recording:<br>3840Px2160P(25fps);<br>2592Px1520P(30fps);<br>2560Px1440P(30fps);<br>1920Px1080P(30fps);<br>1280Px720P(30fps); |
| Image | JPEG format; 5MP/2MP |
| Audio | Built-in microphone and speaker |

| Memory Storage | Internal memory: 4MB<br>External: Micro SD Card<br>(32 to 256GB, Class 10) |
|---|---|
| Shutter Type | Electronic |
| USB Port | Type-C |
| Power Source | Supercapacitor |
| Working Temperature | 14° to 158°F (-10° to 70°C) |
| Storage Temperature | -4° to 176°F (-20° to 80°C) |
| Compatible OS | Windows XP/Vista/7/8/10 & Mac OS |

## 6. Warranty & Support

### Warranty

The VANTRUE® OnDash N2S Dual 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

If you have any questions regarding your product, please do not hesitate to contact us at support@vantrue.net, or drop us a message through the live chat box at www.vantrue.net. Queries are typically answered within 12-24hours.

### 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!