



# Catalogue

<b>Preface</b>	<b>3</b>
<b>Safety instructions</b>	<b>4</b>
<b>Packing list</b>	<b>5</b>
<b>Technical specifications and parameters</b>	<b>6</b>
<b>Definition of power cord</b>	<b>9</b>
<b>Schematic diagram</b>	<b>10</b>
<b>Button and Indicator light definitions</b>	<b>11</b>
<b>Installation diagram</b>	<b>11</b>
<b>Recording time table</b>	<b>14</b>
<b>On/Off operation</b>	<b>15</b>
<b>App operation</b>	<b>15</b>
<b>TVOUT interface</b>	<b>26</b>
<b>Windows GVP Player Operation</b>	<b>27</b>
<b>TF card operation</b>	<b>33</b>
<b>Firmware upgrade</b>	<b>34</b>
<b>Note</b>	<b>35</b>
<b>Simple troubleshooting</b>	<b>39</b>

## **Preface**

Thank you very much for choosing our NEW Dash Camera product. For normal use of this product, please read this manual carefully before use.

The copyright of this book is owned by BRvision. No part of this book may be photocopied, reprinted or translated without the written permission of the Company.

This manual is a product brochure not a product warranty. We do not guarantee the contents of this manual.

BRvision adheres to sustainable development and reserve the right to make changes to this manual, such as printing errors, typographical errors, inconsistent with the latest materials, software upgrades and product improvements. Product specifications and parameters are subject to change without notice. Keep this manual for future reference.

## **Safety instructions**

- To ensure driving safety and avoid braking traffic rules, please do not operate the machine while driving.

- For safe use of the product, please ask a professional person to install the product . Do not privately disassemble, repair or modify the machine, to avoid damage to the machine or accident. If there are any problems, please first simple exclusion, if there are still problems please contact customer service.

- Do not use the machine in an environment that is humid, overt temperatures, subject to excessive voltage, flammable, explosive, or other such conditions to prevent damage to the machine, electric shock or fire.

## Packing list

Before using this machine, please check the following items according to the machine model to check whether the following items are complete, if there are omissions please contact customer service.

Dash cam	1 pc	TF memory card	1 pc (optional)
Power cable/Cigar jack cable	1 pc	Key	1 pc
Headphone jack V-in cable	1 pc	Double-sided tape	1 pc
Card reader	1 pc (Optional)	Manual	1 pc

**Note:** TF card by reading and writing speed points Class4 / 6/10, be sure to use Class10 and above.

*When using the new TF card for the first time, be sure to format the card before using it. Please back up your important data before formatting.*

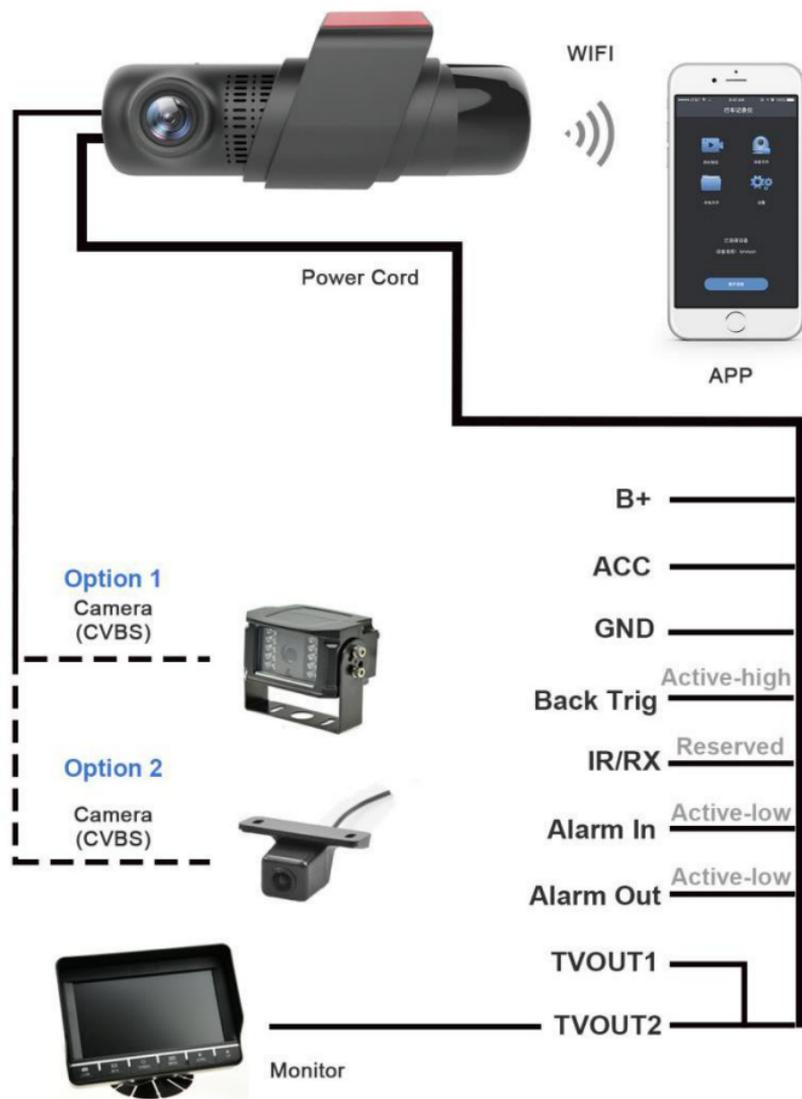
## Technical specifications and parameters

Technical indicators	Parameter Description
<b>Size / weight / color</b>	L170mm*ø65mm / 120g / Black
<b>Camera sensor</b>	4M physical pixel CMOS image sensor, Seven groups of all-glass lens
<b>Lens Angle</b>	Front: 170 ° (horizontal: 130 °, vertical: 80 °) Rear: Depending on the input camera
<b>Second camera</b>	Support CVBS signal camera input
<b>WIFI</b>	Built-in WIFI module (IEEE 802.11b/g/n, 2.412 GHz-2.4835 GHz)
<b>Mobile terminal app</b>	Dashguard (IOS V8.0 and above, Android V4.0 and above)
<b>Video</b>	Normal recording (card capacity of 79%, this space is automatically deleted after the old file coexistence of new documents) Event recording (20% of card capacity, G-Sensor, SOS button, alarm IN event triggered) Parking guard recording (parking guard function is turned on, the vehicle vibration after flameout)
<b>Sound recording</b>	Built-in Microphone
<b>Audio and video format</b>	Video: H.264 video encoding / MOV format; audio: AAC
<b>Storage media</b>	TF high-speed memory card (maximum support 128G, make sure to use CLASS10 and above original genuine card)
<b>Speaker</b>	Built-in speaker

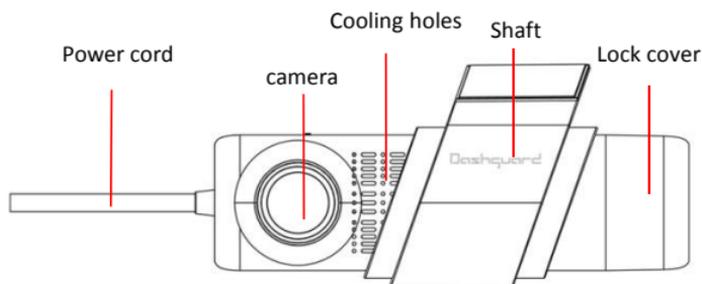
<b>Button</b>	Power button/camera button/emergency recording button Reset button Upgrade button (press the key to enter the upgrade mode when the power is turned off or the card is released)
<b>LED</b>	2 LED(red、 blue)
<b>G-Sensor</b>	Built-in triaxial three-dimensional collision acceleration sensor
<b>GPS</b>	Built-in high-quality GPS, support PC-side player track playback
<b>RTC</b>	Connect the device's WIFI, open the App or GPS to locate the automatic sync time
<b>Super capacitor (optional)</b>	Built-in super capacitor (Only supply power by Cigar-Jack needed)
<b>Parking guard</b>	The recorder uses car power and turns on the parking guard after the flame, if the vibration automatically starts the video
<b>Video output</b>	2-way TVOUT(NTSC/PAL)
<b>language settings</b>	English, Simplified Chinese, Traditional Chinese, etc.
<b>Take pictures</b>	Support JPG format photo capture
<b>Resolution / Bit rate / Frame rate</b>	1920*1080 16M @30fps / 1280*720 12M @30fps Note: resolution / frame rate / bit rate is currently only two of the default
<b>Loop recording</b>	Time 1, 2, 3 minutes optional
<b>PC player</b>	GVP Player

<b>Upgrade interface</b>	SD card upgrade (upgrade process power failure or return to the card cannot start, you need to press the upgrade button to enter the upgrade mode)
<b>Communication Interface</b>	Reserved UART / IR interface
<b>HDMI interface</b>	Reserved HDMI interface
<b>Alarm I/O</b>	Define input / output alarm line (active low)
<b>Lock</b>	With lock to protect card, tamper resistant
<b>Power</b>	6V-32V car battery or car charger power
<b>Static power consumption</b>	3.6W
<b>Standby current</b>	Less than 1mA Note: the vehicle is off and after full charge (within 10 min)
<b>Good performance temperature</b>	-25 ° C to 65 ° C
<b>Operating temperature</b>	-40 ° C to + 85 ° C
<b>storage temperature</b>	-40 ° C to + 90 ° C

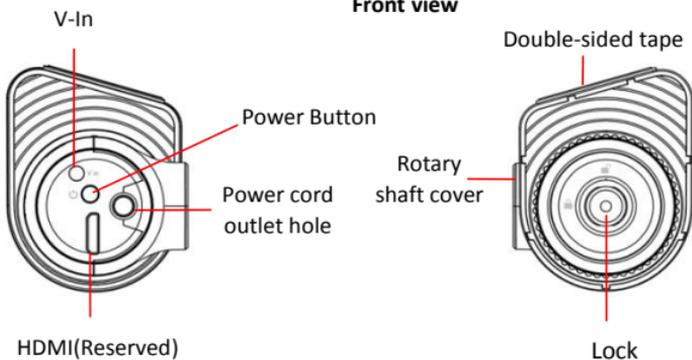
## Definition of power cord



## Structural diagram

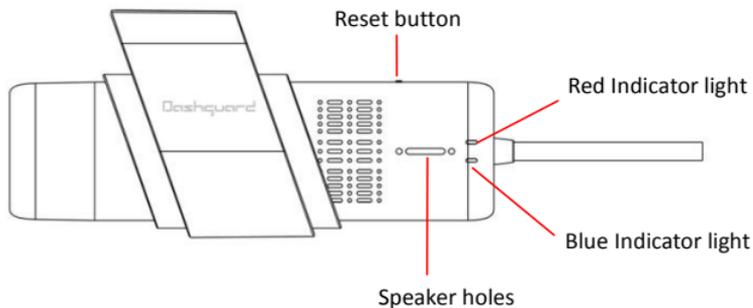


**Front view**



**Left view**

**Right view**



**Rear view**

## Button and Indicator light definitions

**Power button:** Long press the button to turn on it; Short press to take photo and long press to lock or unlock the current video when you boot up.

**Reset button:** Press Reset to restart the machine.

**Upgrade button:** This button does not need to be operated when the machine is upgraded normally, forced to press the upgrade button until you enter the upgrade mode (indicator light flashes) can be released.

**Indicator light:** The first red light flashes blue when upgrade, the red light is on and the blue light flashes when recording; the blue light is on and red light flashes when insert the card but no recording; Red light is flashing when no card is inserted; Red and blue lights flash alternately when event recording.

## Installation diagram



1. Stop the car in a safe place.
2. Clean the front windshield rear view mirror on the right side of the line of sight and clean the area with a clean towel to wipe the glass.
3. Adjust the lens to the side

of double-sided tape and wipe the recorder lens with a clean towel.



4. Tear the double-sided tape plastic protective film on the shaft.

5. Paste the machine horizontally in the direction of the image to the right of the rear glass and clean the camera lens.



6. Connect the power cord or car charge line, and then plug the power cord or car charger along the edge of the front windshield seams until the battery fuse box (power cord alignment) or car charger slot (cigar jack line alignment), and correctly connect the power.



7. If you need to connect with the rear camera, you can refer to the above alignment

according to the actual situation of the rear road to the V-IN connector.

8. If it is connected to the power line, there is TVOUT video output on the wire harness, and the TVOUT video can be connected to the navigation AV-IN connector or the AV display connector according to the need.

9. Wipe the inside and outside of the windshield in front of the tachograph lens to ensure a better video effect.

10. When the car starts and opens the ACC, the recorder will automatically switch on. At this time, the AV recorder or App recorder can be used to preview the image in real time, and the rotating shaft adjusts the recorder to the appropriate video angle.

**Note:** Please let the professional installer to install recorder to avoid any damage or accident of the machine.

*For some cars that have electricity, please unplug the car charger when not in use, so as to avoid power consumption and reduce TF card life.*



## Recording time table

### 1. Recording schedule for recording front camera only

Camera and video properties				Memory card capacity and recording time									
				8G		16G		32G		64G		128G	
Camera	Res.	fps	bps	Normal	Event	Normal	Event	Normal	Event	Normal	Event	Normal	Event
Front Camera	1080P	30fps	16M	49 Min	12 Min	99 Min	24 Min	199 Min	48 Min	399 Min	96 Min	799 Min	192 Min
Front Camera	720P	30fps	12M	67 Min	16 Min	134 Min	32 Min	268 Min	64 Min	536 Min	128 Min	1072 Min	256 Min

### 2. Recording schedule for connecting third-party camera

Camera and video properties				Memory card capacity and recording time									
				8G		16G		32G		64G		128G	
Camera	Res.	fps	bps	Normal	Event	Normal	Event	Normal	Event	Normal	Event	Normal	Event
Front Camera	1080P	30fps	16M	39 Min	9 Min	79 Min	19 Min	159 Min	39 Min	319 Min	79 Min	639 Min	159 Min
The 2nd Camera	720*480	25fps or 30fps	4M										
Front Camera	1280P	30fps	12M	50 Min	12 Min	100 Min	24 Min	200 Min	48 Min	400 Min	96 Min	800 Min	192 Min
The 2nd Camera	720*480	25fps or 30fps	4M										

**Note:** The data in the table is for reference only, slightly different due to the memory card and storage.

## Instructions

### On/Off operation

The machine can be charged by car battery supply and car charger power supply. If you are using a car battery, ACC ignition or long press the power button to turn on the machine. It will also turn on when Shocking machine if the parking guard function is on.

If you use the car charger, only insert car charger to turn on it.

**Note:** When the machine is shutting down, the ACC ignition will not turn on, it needs to be completely shut down (The light is off). then it will turn on by ACC ignition.

During the work of the machine, it will automatically shut down to save the video and related settings when the ACC turns off or unplug the car charger.

### App operation

#### 1. Download and install the App.

For a better experience, pls download and install the App by the following ways.

Option 1: scan two-dimensional code



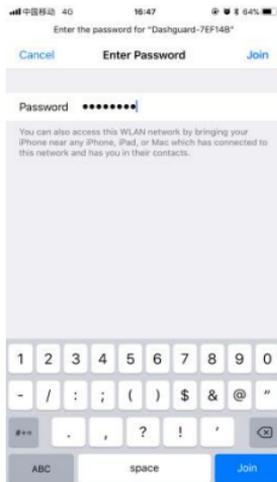
Option 2: search "Dashguard".

Apple users go to the Apple App Store search "Dashguard" to download and install. Android users go to the Google Play Store search for "Dashguard" to download and install.

## 2. Connect the recorder

After downloading and installing the App, turn on the recorder and connect it within the WIFI signal coverage.

Please enter the phone system settings, open the WLAN, enter the WIFI list interface, select the WIFI name that starts with "Dashguard-", enter the password 12345678 (factory default password), you can connect to the recorder, and then click the desktop "Dashguard" Icon to open App, enter the main interface.



### 3. Live preview

After connected to the recorder, click on the home page "real-time preview", you can enter the real-time preview window to view live images. Real-time preview displayed by horizontal screen.



Apple App Live preview



Android App Live preview

**Switch:** Click this button to switch between the front camera or the rear camera preview image. (Note: The drive recorder system supports both the front and back recordings when the button is highlighted, otherwise it is grayed out and cannot be clicked.)

**Mute/Unmute:** You can turn the recording function on or off, this button indicates the current audio recording status.

**Record / Stopping Video:** The upper left corner of the video recording indicates that the icon is flashing that the drive recorder is recording.

**Capture:** photographed in JPG format.

**refresh:** When the real-time preview interface, such as lagging and other abnormal circumstances, you can manually refresh the image.

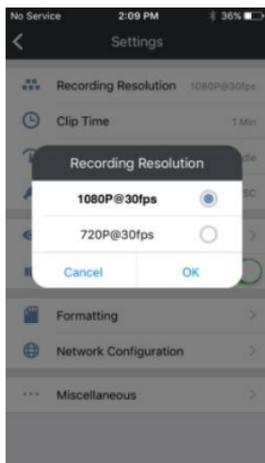
**Back:** Click to exit the real-time preview interface to return to the main interface.

#### 4. Set up

Click the App home page "Settings" to enter the settings page, you can set up the vehicle recorder and query related information.

**Note:** *Setting the black bold item in the submenu indicates the default settings for the recorder.*

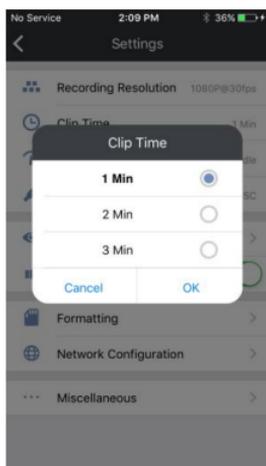
## 1) Recording Resolution



The recording resolution is used to set the front camera recording resolution. The higher the resolution, the sharper the image.

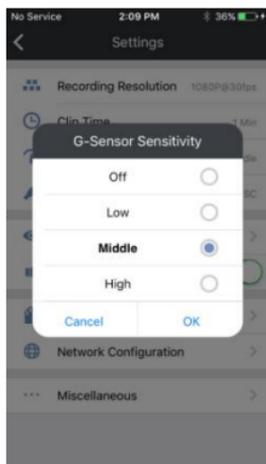
**Note:** the rear camera (third-party camera) recording resolution is fixed to 720x480.

## 2) Clip Time



Clip Time, used to set the size of each segment of the video when the cycle is recorded, the clip time is shorter and easier to download.

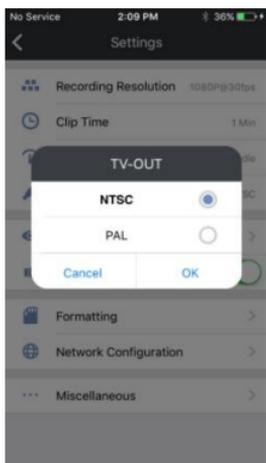
### 3) G-Sensor sensitivity



Gravity acceleration fluctuations vary greatly when Sudden acceleration and emergency braking and bumpy up and down, the current video is protected when the system senses a large undulating acceleration change.

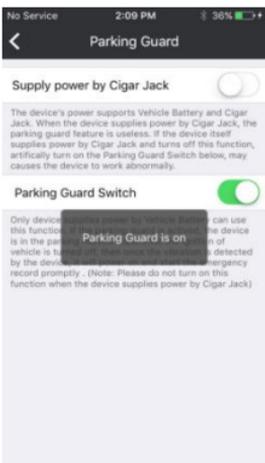
G-Sensor sensitivity is used to set the threshold for sensing the acceleration and deceleration of gravity. The higher the sensitivity, the more susceptible to fluctuations in the acceleration of gravity, resulting in a protected video.

### 4) TVOUT



The recorder supports TVOUT video output to the third-party AV display, the screen display format can be set through this function.

## 5) Parking guard



Through the App open parking guard, after the vehicle flameout is in the parking guard state, at this time the recorder detects the vibration will automatically start the video for a period (default 25 seconds). The video protection will be canceled, if the vehicle starts firing or the power button is pressed manually during the parking guard video recording.

**Note:** 1) the parking guard can be used only when the car battery is used to provide the power supply for the recorder. When the dash camera power is supplied by cigar jack, the parking guard cannot be used because the recorder is completely powered off when the engine is off.

2) parking guard automatically boot video time default 25s, if the parking guard video process detected another acceleration of gravity, the Congress

## 6) Speaker



Recorder built-in speaker, if the user wants to turn on / off the recorder output sound, through this function on / off.

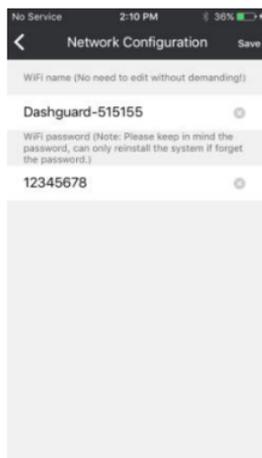
## 7) Formatting



This function is used to format the TF card on the drive recorder. When using the new TF card for the first time, use this function to format a TF memory card. If you can not read the TF card and other abnormalities can also try to format TF card. Due to limited TF battery life, do not frequently format TF card.

**Note:** Please format the TF card before the backup card useful data, otherwise the card data will be lost.

## 8) Network Configuration

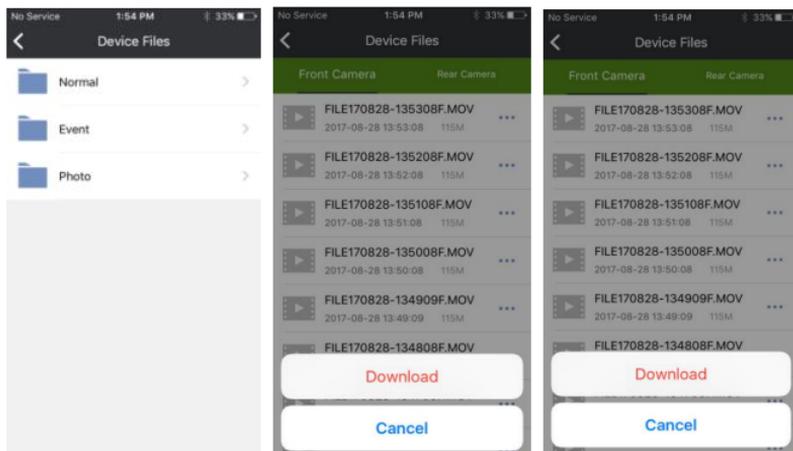


The network configuration interface is used to modify the WIFI name and password. After changing the WIFI name and password, the App and the recorder are disconnected and need to re-enter the new password to connect the modified WIFI.

**Note:** *If you forget your password, you need to re-upgrade the drive recorder to return to the default WIFI name and password.*

## 5. Device Files

The "Device Files" of the home page is used to view the recorded video and photographed pictures on the drive recorder TF card.



### 1) Folder Directory

Normal: Used to view recorded video.

Event: Used to view protected event videos.

Photo: Used to view captured pictures.

### 2) File Operation

After entering the corresponding folder, click on a video or photo directly to play the video directly or browse the photo online. Click the "More" button on the right to download the video or photo.

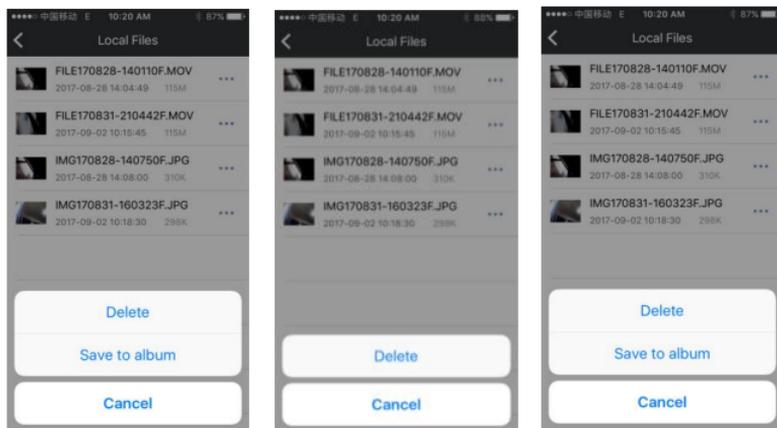
**Note:** 1) When download file, to download stability does

not allow other operations, but can cancel the download.

2) The carriage recorder system does not support the rear camera when there is no rear camera tab.

3) online playback to see the video, for high-definition video due to WIFI environment and the transmission rate may be interrupted, the video download to the local view will not appear interrupted.

## 6.Local Files



The video downloaded from the drive recorder TF card can be viewed directly from a video or photo via a local file. Above the left is the Apple App MOV local file video function button, you can choose to delete, the right is the local file picture function button, you can choose to delete and save to the local album.

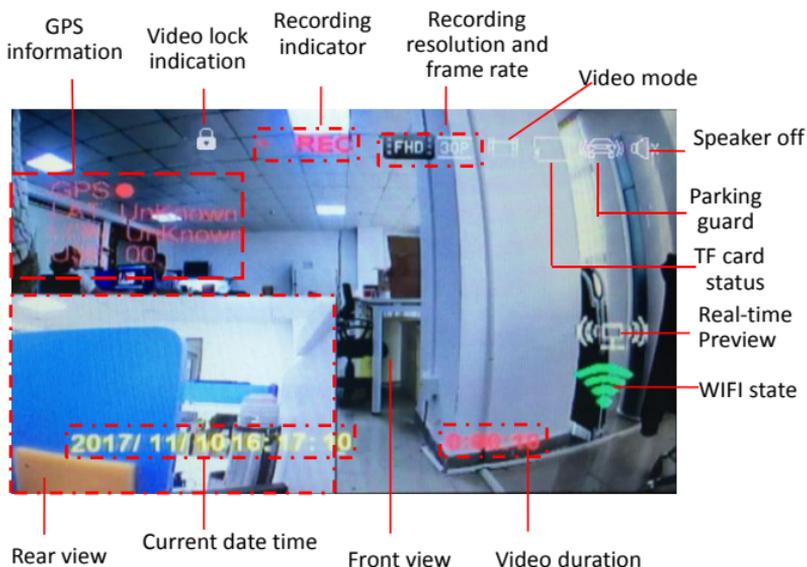
Android users to download the video can also be in the

mobile phone TF card root directory "Dashguard" directory to find, through the phone comes with the file management system view.

## TVOUT Interface

This machine supports two TVOUT outputs, the output system is optional NTSC system or PAL system, the default NTSC system.

The output interface is as follows:



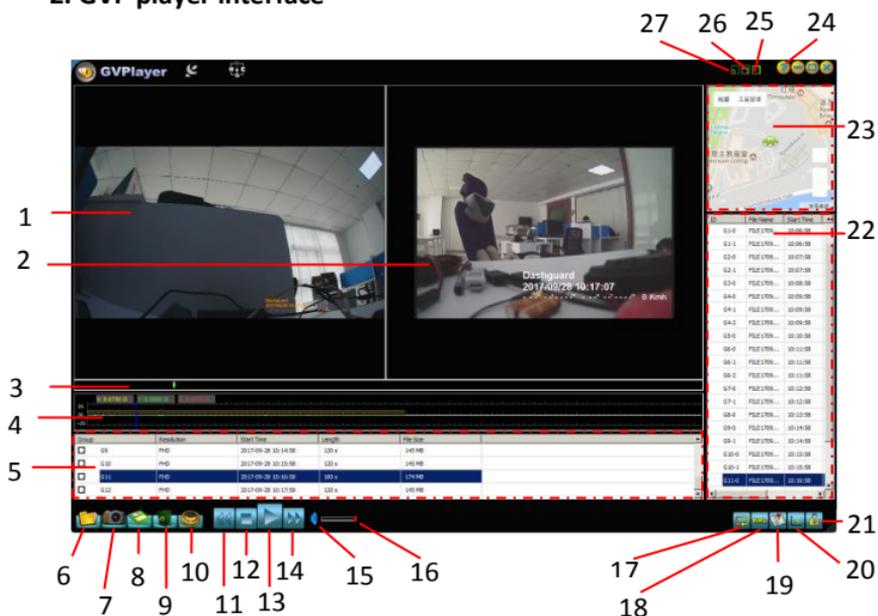
## Windows GVP Player operation

The video recorded by the vehicle recorder is H.264 coded MOV format, and the common players on the PC end can play normally. Of course, you can also use the special player GVP to play. The player can view the traffic information recorded in the video, such as track, speed, gravity acceleration and other information in the process of travel.

### 1. Get GVP player applications

There is 1 GVP player application in the TF card before the shipment. Please cut the player on the PC before you use the recorder, and you can also contact the customer service to obtain it.

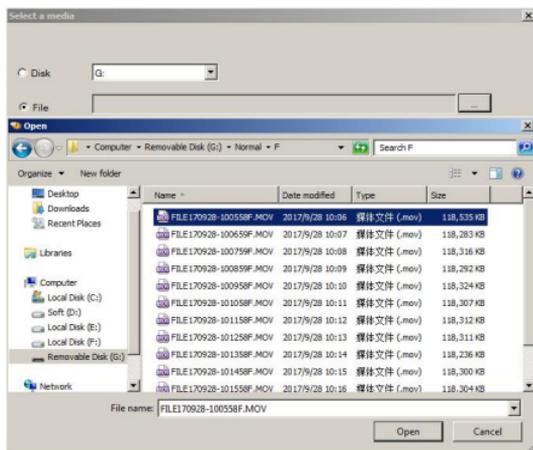
### 2. GVP player interface



- 1.Front camera playback window
- 2.Rear camera playback window
- 3.Play progress bar
- 4.G-Sensor data window
- 5.Video grouping
- 6.opened-file
- 7.Capture
- 8.Save as
- 9.delete
- 10.Set up
- 11.Slow playback
- 12.suspend
- 13.Play / pause
- 14.Speed up playback
- 15.Sound switch
- 16.volume control
- 17.Sequential play
- 18.Storing GPS data as KML file
- 19.Show / hide map window
- 20.show/hide G-Sensor data window
- 21.Unlock protected files
- 22.Video list
- 23.Map window
- 24.About GVP player
- 25.Big window
- 26.Medium window
- 27.Small window

### **3.Playback video**

Click the icon to open the file, pop-up "Select a media" dialog box, select the entire disk, file or folder, through the drop-down button or browse button, select the specified disk, file or folder, GVPlayer will load the video file.



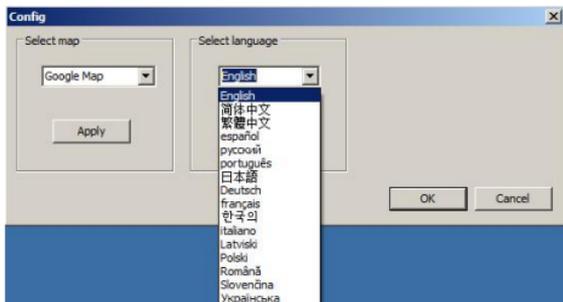
## Select file

Playback of video, you can play the control button to control the video playback speed, stop, pause and volume adjustment. When you replay the video, you can also adjust the size of the GV Player window through the window control button, or double-click the window title bar to maximize the window or restore the original window.

Double click the front camera playback window or rear camera window, you can view full screen or restore the current video window.

## 4. Setting

Click the settings button to open the "Config" dialog box, you can set player map and language.



Language choice: support multiple languages



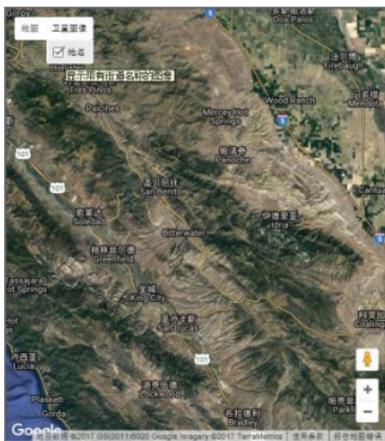
Map selection: support Google Map and China Map

## 5. Map Operation

Click the icon  show / hide map, select 'map', map window display map in plane form, check "terrain" will display geographical shape. Google Map supports "satellite images" to view satellite maps, and "geographical names" will show geographical names. Scrolling the mouse on the map can zoom the map flexibly, and click on "+" / "-" to zoom in and out the map.

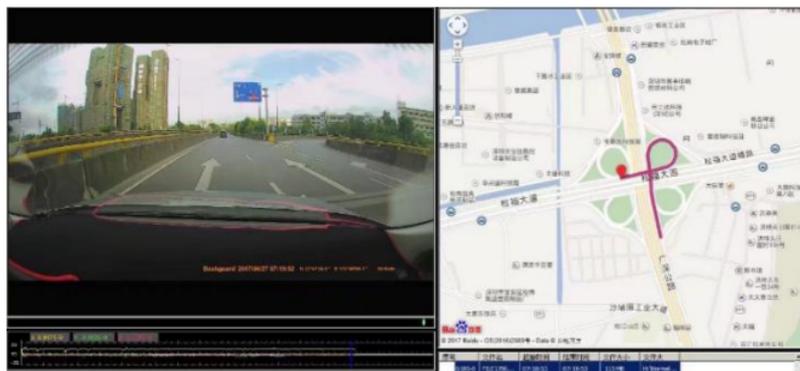


by "Map"



By "satellite image" showing map

When playback the video with GPS information, the map will automatically draw the vehicle current movement track.



## 6. G-Sensor data

Click icon  could display/hide G-Sensor data window, when the vehicle running, the device will record the gravitational acceleration, it could reflect the vehicle running conditions and road conditions. G-Sensor data window shows the changing status of G-Sensor gravitational acceleration by the wave picture.



G-Sensor data window

## **TF card operation**

### **1. Insert TF card**

Open the device lock and remove the lock cover, insert the TF card into the card slot, then put back the lock cover and lock the device well. Please do not forcibly insert the TF card, wrong or rough inserting method maybe damage the TF card or card slot.

### **2. Remove the TF card**

If the device is in the working state, need to turn off the device first, then open the device lock and remove the lock cover. Press the TF card into the card slot direction, then the card will pop up automatically.

### **3. Format the TF card**

Using the device first time, please format the TF card. Backup important data in the card before formatting.

Turn on the device, open the "Dashguard" APP and connect it to the device WIFI, enter the "Settings" page, click the "formatting", and then click "OK" to format the TF card on the dash camera.

### **4. Replace a new TF card**

As the service life of the TF card has limited, after long time use, please replace a new TF card. Otherwise it will easily lead to some video storage problem, even lead to the device cannot work normally.

5. Since the device need to deal with two cameras' video recording at the same time, it has high quality requirements for the TF card.

When replace a new TF card, please make sure to choose class10 or higher level famous brand TF card.

#### 6. Use the card reader

After remove the TF card from the device, insert it into the card reader slot. Then insert the card reader into the computer USB port. The computer will read the TF card content automatically. Display removable disk in the computer resources management, which is same as the computer disk operation.

### **The firmware updates**

The firmware update including 2 ways: normal upgrade and forced to upgrade. If the device can work normally itself, you can use normal upgrade mode to upgrade it.

If the device cannot be turned on, you must adopt forced to upgrade mode to upgrade it. Of course, even if the device can work normally, you can also adopt forced to upgrade mode to upgrade it. But in this case, it's a time-consuming job.

First get the firmware update document package (contact the customer service to get the documents, including SD\_CarDV.bin SdFwCode.bin files and update instructions file). Transfer the SD\_CarDV.bin and SdFwCode.bin file into the TF card root directory. (Note: Please do not create a new folder or change the name of the firmware, before updating, advise to format the TF card first. Backup important data in the card before formatting.), Then insert

the TF card which including the copy ready firmware into the card slot. Adopt normal upgrade mode, if the ACC cable is active or long press power button, after the device be turned on it will upgrade automatically. When upgrading, the blue light will flash first, then the red light flashing. During the red light flashing period, please do not power off the device or remove the TF card. Otherwise it can only adopt the forced to upgrade mode to upgrade it. Adopt forced to upgrade mode, you need to use a small needle to press into the "Upgrade" hole, long press the upgrade button and then active the ACC cable or long press power button to turn on the device until it enters the upgrade mode (the lights will flash), In this case you can loosen the upgrade button. When the upgrading is over, the device will turn off itself. Then you need to delete the upgrade files if they remain in the TF card, or else it will enter upgrade mode again next power on. After the device be turned on again, you can check if it's the target version.

You can also refer to the update instructions file in the firmware update document package.

## **Notice**

◆ When install the device first time or the power is cut off completely, the device will beep frequently to remind the user to synchronize the time. After the mobile terminal is connected to the recorder WIFI, open the Dashguard APP, the cellphone time will

synchronize to the device automatically (Please make sure your cellphone time is accurate). Or when the device receives the GPS satellite information, it can also synchronize the time.

◆ The TF card should be FAT32 format before using. Usually if the TF card capacity is larger than 64GB, it's exFAT format.

When first time using a new TF card, must Format the card via the device, then the TF card can be used normally. (the recorder device will format the TF card to FAT32 directly)

◆ please make sure to use class10 or higher level famous brand TF card. If use poor quality TF card, it may cause recording or running problems, or even make the device crash.

◆ When upgrading, please make sure the TF card is FAT32 format and can be normal using, otherwise it cannot read the upgrade file.

◆ When upgrade complete, the machine needs to adjust the data and the boot time is longer at the first time.

◆ Do not format the TF card frequently, and replace the TF card after long use.

◆ Full HD video has a large amount of data, and the online playback needs to be buffered, especially if the playback buffer is more frequent in the state of video playback. Please download video for playback.

◆ The real-time preview of the mobile phone is based on WIFI wireless transmission, and the real-time preview of video will have

some delay.

◆ In the process of machine video, please do not take out the card or it will cause damage or loss to the last video, or even damage the TF card.

◆ When turn off the car, the device is in charge, and the machine will completely standby within 10 minutes.

◆ Be sure to clean the car recorder lens and the front windscreen inside and outside to record better effects.

◆ This recorder can connect multiple phones, but only one mobile phone can preview/replay/download in real time at the same time.

◆ The files on the TF card are scrubbed and covered, the storage capacity is distributed in proportion, the default normal recording accounts for 79% of the card capacity, the event video accounts for 20% of the card capacity, and the photo accounts for 1% of the card's capacity. When normal recording space full of normal will delete the first video file, when the event space full of events will remove the earliest recorded video files, pictures space full of photos will delete the first file to keep the loop video. Therefore, please back up the important video and photo files in time to other storage media.

◆ The "Settings" -> "other" interface query the TF card can be used to record the remaining space for normal recording, the event recording residual space, and the sum of the remaining space of the shot photos.

- ◆ The machine is in the process of turning off the ACC when the fire is not turned on, it needs to be shut down before the fire can be turned on.
- ◆ The WIFI name and password can be modified. After modification, you need to reconnect. Please remember the WIFI password, otherwise you can only upgrade the machine software recovery network to the default mode.
- ◆ The GPS is placed in the shaft, if the front windshield has a metal membrane, it will affect the receiving GPS signal.
- ◆ Please contact the App within the range of WIFI, and it can be used normally within 10 meters of normal range.
- ◆ WIFI signal is vulnerable to Bluetooth interference, when the signal unstable, check the surrounding area for Bluetooth signal interference.
- ◆ short press reset button automatically restart, When the machine reset, it will break the power and may cause the file to be damaged or lost.
- ◆ Do not disassemble the machine, the shaft only can rotate.

## Simple troubleshooting

Performance	Solution
Cannot record normally	<ol style="list-style-type: none"> <li>① reset the machine</li> <li>② format TF card</li> <li>③ change new genuine TF card, (upper Class10)</li> <li>④ ensure TF card right installed</li> <li>⑤ delete the damaged file from memory card</li> </ol>
Video not clear	<ol style="list-style-type: none"> <li>① change the resolution</li> <li>② ensure the camera lens clear</li> <li>③ ensure the window screen clear</li> </ol>
working abnormally	<ol style="list-style-type: none"> <li>① press the reset button to restart</li> <li>② turn off and then restart the machine</li> <li>③ format the TF card</li> </ol>
Cannot preview in real time	<ol style="list-style-type: none"> <li>① confirm if it has connected with other mobile</li> <li>② close the app and restart the app.</li> <li>③ restart the machine</li> </ol>
Don't have WIFI signal	<ol style="list-style-type: none"> <li>① confirm WIFI signal closer the machine</li> <li>② refresh WIFI list</li> <li>③ restart the machine</li> <li>④ re-upgrade the version</li> </ol>
App online can't playback	<ol style="list-style-type: none"> <li>① stop take video then playback.</li> <li>② change the resolution.</li> <li>③ download the video then playback</li> </ol>
Black screen when real-time preview	<ol style="list-style-type: none"> <li>① press the reset button to reset the machine</li> <li>② turn off and restart</li> <li>③ format the TF card</li> </ol>
TF card don't record	<ol style="list-style-type: none"> <li>① format the TF card</li> <li>② change new genuine TF card (upper Class10)</li> </ol>
Video crash when playback	Change to another brand video player