User Manual

(VP668 Multifunctional Dash Cam)

I Safety Precautions

Warnings

- Do not install or operate the dash cam with wet hands;
- Do not install the dash cam in the high-temperature, high-humidity, flammable and combustible environments, liquid and any area that may block the driver's line of sight and endanger their life;
- Do not store the main body or auxiliary engine in the closed vehicle under high temperature;
- Do not exceed its rated voltage;
- Only the original connecting line and power cable can be used. Our company shall not be liable for any damage incurred by the use of other cables;
- Do not use sharp items such as hammers to pierce through the main body, auxiliary engine and accessories;
- Do not disassemble the main body, auxiliary engine, wires and accessories without authorization;
- Keep out of reach of children during working and installation.

Notes

- Do not extrude the camera lens forcefully;
- In case of any foreign body on the camera of the main body or auxiliary engine, do not directly touch its surface with your fingers to avoid to affect its shooting effect;
- Do not immediately remove the memory card during shutdown to avoid any file damage;
- Please remove the memory card if you don't intend to use it for a long time to ensure its working performance;
- It is significant to format the memory card before your first use to ensure its stable reading;
- The product function and content of this manual are subject to change without notice.

II Product Overview

Packing Content

● Multifunctional Dash Cam	● Power Cable
● Suction Mount	● Adhesive Mount
● Magnetic Round Connector	● Magnetic Connecting Slide Buckle
● Quick Guide	● CPL polarizing filter improves the recording effect in the bright light (optional accessory)

※ The packing content is subject to change without prior notice.
The actual packing content shall prevail!

Component Guide

Power Key

1. Set the main body's menu in the menu interface, and press the key to return to the upper interface
2. Long press for 3s to power

USB DC 5V Power Input Port

Sensor

Menu Key

(enter the interface involving the menu option key)

Mode Key

Short press: Switch among recording, camera, playback and photo look-back mode

Long press: Switch the microphone on or off

UP Key

（1. Short press: Adjust brightness

（2. Long press: Lock or unlock the current video

Down Key

Adjust volume

OK Key

(Stop or start recording/confirm key for function options)

Power Indicator

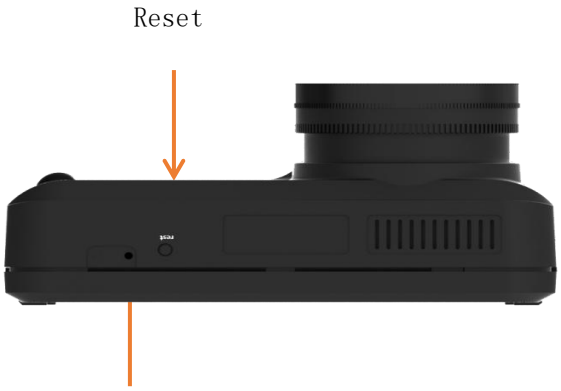
1：Under the recording mode, press OK to enter the camera mode, and press again to have a screenshot (save as a picture);

2：Under the recording mode, press OK once to enter the camera mode, press two times to enter the playback interface, press three times to enter the photo look-back interface and press four times to return to the main interface

- **Sensor Function: Wave hands in the upper left (sensor) of the display. Wave hands once to mute and only show warning images, and wave again to turn the volume on, and the speaker icon will show in the middle of the display**

TF Memory Card

AV-IN: Rear recording camera connector



Microphone

Double laser reception, center frequency A:900nm, B:1020nm

1296 HD Camera

III Installation Guides

Installation Positions

● Do not install the dash cam in the area that may block the driver's line of sight and endanger life

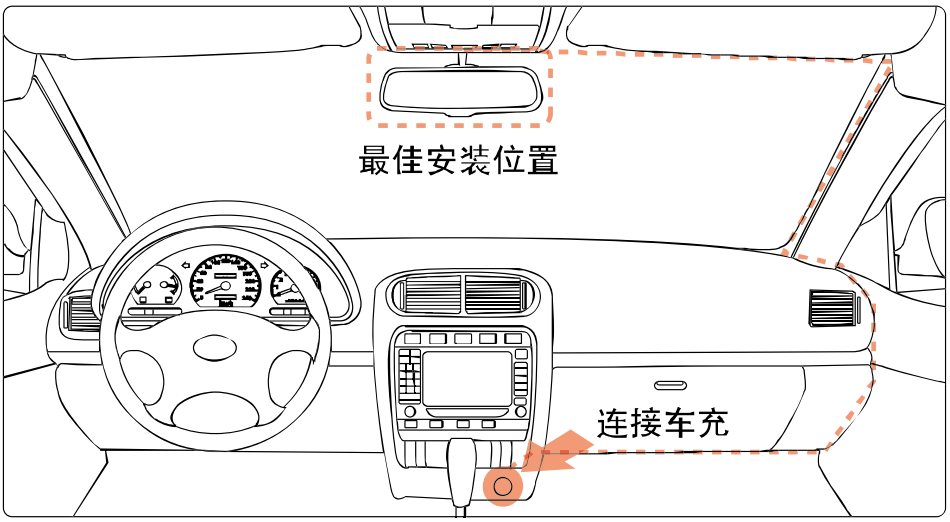
● Try to install the dash cam near the inside rearview mirror to ensure the best image vision;

● Install the dash cam within the wiper's cleaning range to ensure a clear recording on the rainy day;

● Do not install the dash cam within the airbag movement range;

● Do not install the dash cam on the car insulation paper to avoid any damage;

● Install the dash cam in a proper position that can avoid the effect of car insulation paper, and avoid to install it near interfering electronic products.



※ Avoid to install the dash cam within the working range of airbags or their covers. The company shall not be liable for any damage or death incurred by vehicle collision or airbags.

Installation Methods

Aim the magnetic transfer slide buckle at the mount buckle on the main engine.

① Hold the main body and mount with your hands, and aim the mount at the buckle on the main engine;

② Select a proper position (such as the right rear side or center of the rearview mirror), attach the suction mound to the windshield and rotate the mount clockwise to lock;

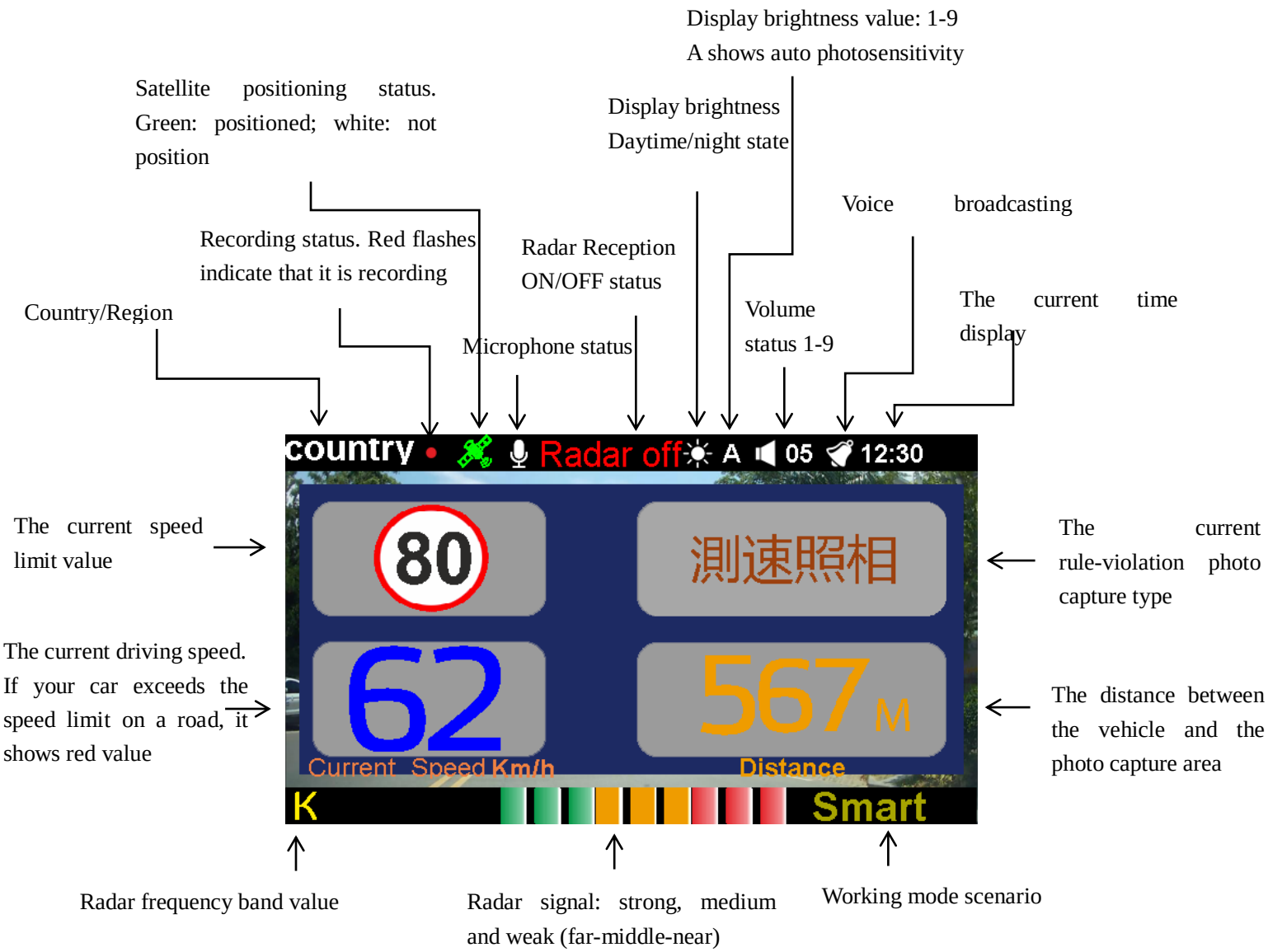
③ Adjust the recording angle (it is the best angle that the car head shows in the middle of the display);

Note: The mount can be replaced by 3M sticker. Select a proper position, tear the protective paper and paste into the front windshield (do not move within 24 hours)

Install the Memory Card

Keep the metal side down, and insert into the slot

IV Introduction to the Main Interface and Icons



V ON/OFF Instructions

- Auto Boot

Insert the memory card to the slot, and connect the car charger to the Mini USB port of the main engine and the automobile cigarette lighter to start the car and the main engine will automatically power on;

- Manual Boot

Please ensure that the main engine has been connected to the power, then long press the key (power switch) on the main engine to manually power on;

- Auto Shutdown

Please ensure that the main engine has been powered on. At this time, the main engine will automatically power off after the car stalls or you remove the car charger.

- Manual Shutdown

Please ensure that the main engine has been powered on. At this time, long press the ⏻ key (power switch) for 3s to power the main engine off

Warm Note: Remove the memory card after the main engine is completely powered off to avoid any file damage.

VI Detailed Menu Instructions

1、 Velometer Settings

Press M to enter the "velometer settings"	Press ▲, ▼ to switch menus	Press OK to enter settings		Press ▲, ▼ to switch menus	Explanation
	Road Condition Mode	➡	Smart mode (switch according to speed) (the default option)	Mute	❖ ☑ GPS fixed point ☐ MTR ☐ K frequency ☐ X frequency ☐ Ka frequency ☐ Laser ☐ Signature Radar ❖ Broadcast at 300 meters in advance ❖ Driving speed> 25 km/h≦ 50 km/h ❖ (Driving speed> 10km/h ≦ 25 km/h broadcast at 100 meters in advance)
				Country	❖ GPS fixed point MTR K frequency ☐ X frequency ☐ Ka frequency ☐ Laser ☑ Signature radar ❖ Broadcast at 500 meters in advance ❖ Driving speed> 50 km/h, ≦80 km/h
				High Speed	❖ GPS fixed point MTR K frequency ☐ X frequency ☐ Ka frequency Laser ☑ Signature Radar ❖ Broadcast at 800 meters in advance ❖ Driving speed>80km/h, ≦100 km/h
				Enhanced Mode	❖ ☑ GPS fixed point ☑ MTR ☑ K frequency ☐ X frequency ☐ Ka frequency

					☑ Laser ☑ Signature radar ❖ Broadcast at 800 meters in advance ❖ Driving speed>100km/h
		➡	Enhanced Mode (test mode)		❖ ☑ GPS fixed point ❖ ☑ MTR ❖ ☑K frequency ❖ ☑ X frequency ❖ ☑ Ka frequency ❖ ☑ Laser ❖ ☑ signature radar ❖ Broadcast at 100-1000 meters in advance according to the driving speed ❖ Driving speed > 10km/h
	Voice Broadcasting Mode	➡		Music	❖ The voice will be shielded in case of GPS and radar broadcast, and it only broadcasts music. The display shows all measurement information.
		➡		Voice + Music	❖ Always in “voice + music” broadcasting mode
	Radar Mute Cruise Control	➡			❖ Flexible radar speed testing setting is on ❖ The detecting radar determines whether or not the voice broadcasting will be used according to the driving speed (for example: if 60km/h is set and its driving speed is lower than 60km/h(≦60km/h), the display will show all information detected, and there is no voice broadcast. If the driving speed is higher than 60km/h (>60km/h), the display will show all information detected and meanwhile voice broadcast is used) ❖ Selection Range: 0 km/h---70km/h (the default value is 50km/h)
	GPS Date Mute Speed Settings	➡			❖ The GPS speed measurement point determines whether or not the voice broadcasting will be used according to the driving speed (for example: if 60km/h is set and its driving speed is lower than 60km/h(≦60km/h), the display will show all information detected, and there is no voice broadcast. If the driving speed is higher than 60km/h (>60km/h), the display will show all information detected and meanwhile voice broadcast is used) ❖ Selection Range: 0km/h---100km/h (the default value is 0km/h)
	Fixed Speed Measurement Point	➡			❖ ON/OFF, the default option is to be on

	Flexible Radar Speed Measurement Point	→	❖ ON/OFF, the default option is to be on
	Interval Speed Measurement Point	→	❖ ON/OFF, the default option is to be on
	Speed Measurement Point at the Traffic Light	→	❖ ON/OFF, the default option is to be on
	Not Drive the Wrong Way	→	❖ ON/OFF, the default option is to be on
	Not Change Lanes Illegally	→	❖ ON/OFF, the default option is to be on
	Not Park Illegally	→	❖ ON/OFF, the default option is to be on
	Not Occupy Bus Lane	→	❖ ON/OFF, the default option is to be on
	Not Occupy Emergency Lane	→	❖ ON/OFF, the default option is to be on
	Not Whistle	→	❖ ON/OFF, the default option is to be on
	Yield to Pedestrians	→	❖ ON/OFF, the default option is to be on
	Life Safety Points	→	❖ ON/OFF, the default option is to be on
	X Frequency Settings	→	❖ ON/OFF, the default option is to be on
	K Frequency Settings	→	❖ ON/OFF, the default option is to be on
	Ka Frequency Settings	→	❖ ON/OFF, the default option is to be on
	ST Frequency Settings	→	❖ ON/OFF, the default option is to be on
	Laser Frequency Settings	→	❖ ON/OFF, the default option is to be on
	Signature Radar Settings	→	❖ ON/OFF, the default option is to be on
	MTR_CD Frequency Settings	→	❖ ON/OFF, the default option is to be off
	MTR_CT Frequency Settings	→	❖ ON/OFF, the default option is to be off

	Driving Speed Allowed	→	❖ Allow to exceed the speed limit (for example, if the current speed limit value on the road is 120km/h, the set value that is allowed to be exceeded is 10km/h. If the driving speed is higher than 130km/h (≧130km/h), the product will give early warning) ❖ Selection Range: 0 km/h---19km/h
	The Maximum Driving Speed	→	❖ The maximum driving speed (for example, if 100km/h is set and the driving speed is higher than 100km/h (100 km/h), the product will give early warning) ❖ Selection Range: 80km/h---150km/h Off
	Radar Detection Sensitivity	→	❖ Radar detection sensitivity ❖ Selection Range: professional/high/medium/low. The default option: medium
	Laser Detection Sensitivity	→	❖ Laser detection sensitivity ❖ Selection Range: professional/high/medium/low. The default option: medium
	Speed Fine-tuning	→	❖ Show the speed fine-tuning to be in line with the driving speed on the dashboard ❖ Selection Range: -5km/h---- +5km/h, the default option: +4

2. Recording Mode

Press M to enter the "recording mode"	Press ▲, ▼ to switch menus	Press OK to enter settings	Press ▲, ▼ to switch menus	Explanation
	Recording Mode	→	1296P	❖ 1296P videos are saved
			1080P	❖ 1080P videos are saved
			720P	❖ 720P videos are saved
			VGA	❖ VGA videos are saved
	Recording Time	→		❖ Save videos (in recording time) ❖ Selection Range: 1 minute, 2 minutes, 3 minutes and 5 minutes
	Motion Detection	→		❖ Standby Mode: The camera front side detects item movement, then it automatically enters the recording mode; ❖ The Selection Range of Detection Sensitivity: High/medium/low/off
	Recording Time of Motion Detection	→		❖ Motion detection recording files are longer to be saved

			❖ Selection Range: 5 seconds/10 seconds/ 30 seconds/1 minute
	Sound Settings	→	❖ Sound settings during recording ❖ Selection Method: On/off
	MIC Sensitivity	→	❖ MIC sensitivity during recording ❖ Selection Method: Standard/low
	Recording Scene Selection	→	❖ Scene selection during recording ❖ Selection Method: Auto/sports/portrait/scenery/snow/beach/firework
	Exposure Adjustment	→	❖ Exposure adjustment during recording ❖ Selection Range: -2/-1.7/-1.3/-1/-0.7/-0.3/0/0.3/0.7/1/1.3/1.7/2
	Color Adjustment	→	❖ Color adjustment during recording ❖ Selection Range: Natural/bright/grey

3. Image Mode

Press M to enter the "image mode"	Press ▲, ▼ to switch menus	Press OK to enter settings	Press ▲, ▼ to switch menus	Explanation
	Image Size	→		❖ Save image size ❖ Selection Range: 3M/2M/1.2M/VGA
	Image Scene Selection	→		❖ Scene Selection ❖ Selection Range: Auto/sports/portrait/scenery/snow/beach/firework
	Exposure Adjustment	→		❖ Adjust recording exposure. Users can adjust according to actual need (suggest adjusting 1 gear) ❖ Selection Range: -2/-1.7/-1.3/-1/-0.7/-0.3/0/0.3/0.7/1/1.3/1.7/2
	Color Adjustment	→		❖ Recording Color Adjustment ❖ Selection Range: Natural/bright/grey

4. Playback

Press M to enter "playback"	Press ▲, ▼ to switch menus	Press OK to enter settings	Press ▲, ▼ to switch menus	Explanation
	Playback Volume	→		❖ Select playback volume ❖ Selection Range: 1 -- 9

	File Deletion	→	❖ Delete files saved on the memory card ❖ Selection Method: delete one/all images
	File Protection	→	❖ Lock or unlock files saved on the memory card ❖ Selection Method: Lock one file/lock all files/unlock one file/unlock all files
	Image Type	→	❖ Image Storage Type ❖ Selection Method: General/lock

5. Media Tools

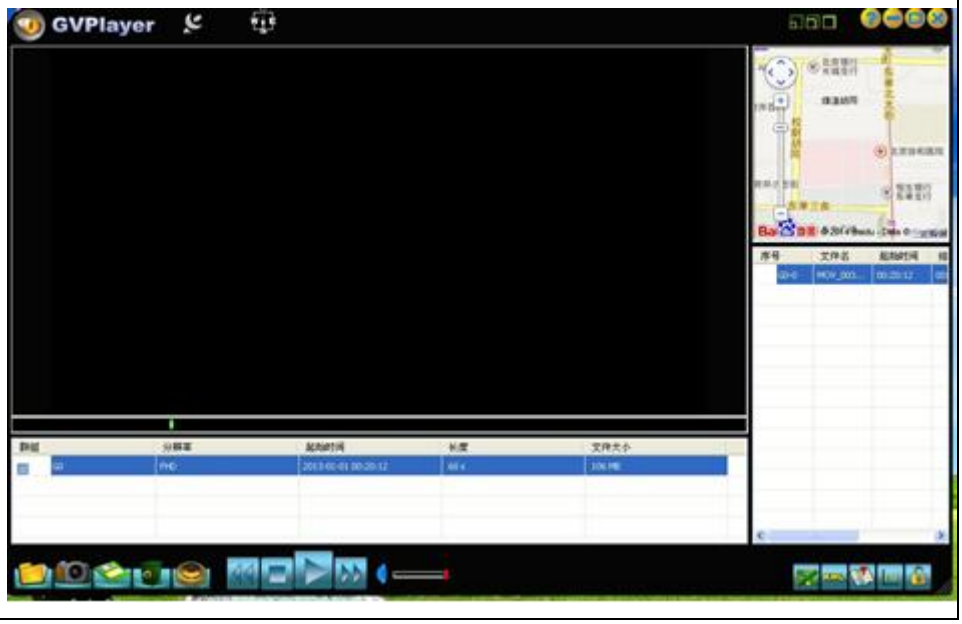
Press M to enter the "media tools"	Press ▲, ▼ to switch menus	Press OK to enter settings	Press ▲, ▼ to switch menus	Explanation
	Format the memory card	→		❖ Format the memory card (take it with caution because all files will be deleted after formatting)
	Memory card information	→		❖ Show the storage information and available space

6. System Settings

Press M to enter the "system settings"	Press ▲, ▼ to switch menus	Press OK to enter settings	Press ▲, ▼ to switch menus	Explanation
	Voice Selection	→		❖ Operating Language Display ❖ Selection Range: Only 2 languages are available due to different regions.
	Flash Frequency	→		❖ Selection Range: 50Hz / 60Hz
	Display Rotation	→		❖ Show the display by 180 degrees ❖ Selection Method: On/off
	Auto Screen Off	→		❖ The display will be off after preset working time, and other functions work normally ❖ Selection Method: Be off for 1 minute/3 minutes
	G-senser Sensitivity	→		❖ Selection Range: Off/high/medium/low
	GPS Satellite Status	→		❖ GPS satellite reception status
	Time Zone Selection	→		❖ Users can select different time zones according to countries.
	Factory Data Reset	→		❖ Restore factory settings
	WIFI Preview Recording (Optional Function)	→		❖ The product is connected to WIFI network, and remote video playback can be realized after mobile binding
	Firmware Version	→		❖ Product Version

VII Product Specifications

Master Control Chip	MSC8336
HD Camera Chip Sensor	OV4689
Display	IPS Full View Angle 3.0 Inch LCD Display
Memory Card	Connect to the memory card (up to 128G). Its capacity can't be lower than 8g (recommended) and the reading speed should be higher than C6
Prime Lens Angle	Horizontal: 110 °Vertical: 90 °Field of View: 140 degrees
Lens Aperture	F#1.8
G-sensor	Automatically save videos during collision to avoid any lose
Loop Record	Avoid file lose and save files without any seam
Video	2304*1296 (30fps) ,1920*1080(30fps) , 1920*720（30fps) 1920*720（60fps) VGA:640*480（30fps)
Video Storage Format	MOV
Video Compression Format	H.264
Peripheral Interface	Mini USB Port
Detectable Signal Frequency of Radar	Refer to VIII Practical Technical Information
GPS Data Broadcast Type	In terms of the fixed shooting position, we continuously collect and update new ways according to all conditions that add or delete shooting positions offered by users. Users need termly download the updated data to gain a better warning effect.
Rated Voltage	DC5.2V---5.5V
Rated Current	500mA
Working Temperature	-0℃ ---- 55℃
Saving Temperature	-20℃ ----70℃
Image Format	JPG
Video Output	AV-IN
Language	Chinese/Russian/English/Japanese (Customizable)
Supercapacitor	1.5 F
Microphone	Built-in speaker to record with high definition. Turn off the available record in the menu
Driving Tracking Playback	Track driving path. Support GPS positioning. After a successful GPS positioning,

	the camera will adjust time according to GPS. It also records and keeps the driving coordinate and speed. WMGPS player on the PC can show GPS information while playing videos, and meanwhile connect to Google Map to show your driving path. 

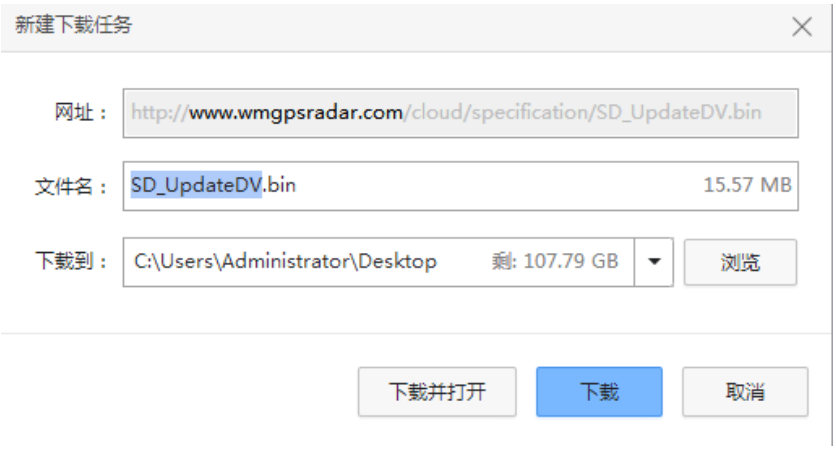
Warm Notes:
Please remove the machine and car charge if you will leave your car for a long time;
Do not save the device in the humid or high-temperature environment;
Remove the memory card if you don't intend to use it for a long time to ensure its working performance.

IX Termly Update GPS Data Points

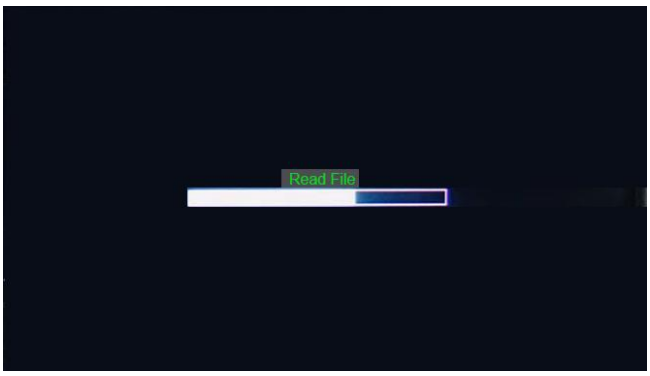
Download the corresponding data software on the specified website, and copy to the memory card. Insert the memory card into the main engine. After it is electrified, it will automatically copy all data to the storage space of the main engine. In terms of the specified website, please contact the seller.

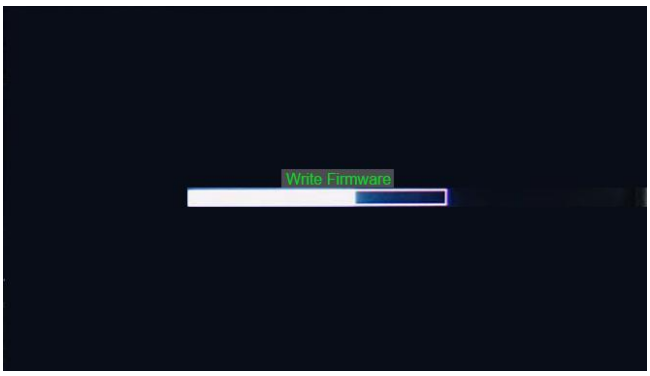
X Data Download Instructions

1. Connect the TF card (or the memory card of the dash cam) to the computer via a reader – enter the website (http://www.wmgpsradar.com/cloud/specification/SD_UpdateDV.bin), then an interface pops up – click to browse menu and directly save it on the TF card – click download.



2. Insert the TF card with data package into the dash cam when it is powered off, then connect it to the power. At this time, the dash cam will show the following images. Power off again after it completes, and try to restart.





XI The Most Common Speed Measurement Devices

XII Troubleshooting

- Fail to power on
  - Check whether the main engine is normally electrified;
  - Remove the power USB cable, then reboot the main engine;
  - Press the rest key on the bottom of the main engine once, then insert into DC5V power again.
- Fail to show shooting images on the display
  - Check whether the screen display function is turned off under the recording mode. Short press the power key to turn it on;
  - Check whether screen protection is set. Change such setting in the “auto screen off” in menu settings.
- The main engine fails to playback
  - Check whether you have changed images or file names saved on the memory card;
  - Check whether images or files have been processed by your computer, or they weren’t recorded by the main engine
  - The memory card is damaged;
  - Contact our customer service personnel if the above-mentioned information isn’t helpful.

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 provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Radiation exposure statementy this equipment compliance with FCC radiation exposure limits set forth for anuncontrolled environmenty this equipment should be installed and operated and operated with minimum distance 20cm between the radiator and your body