

User Manual

Ver1.1

Warning:

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

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.

FCC Statement:

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.

RF exposure compliance statement:

This device has been evaluated to meet the general RF exposure requirement

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

Notice before use

[Warmly Warning]

Please read this instruction manual carefully before using the camera. It contains important information for your safety as well as operating and maintenance instructions.

1.1 Pay attention:

 Please do not operate or install the dash cam while driving to avoid distractions and affecting driving safety.

1.2 Operating Environment

Pls do not expose the dash cam to rain or damp environments for operation, as it does not have waterproof function.

1.3 Power cable

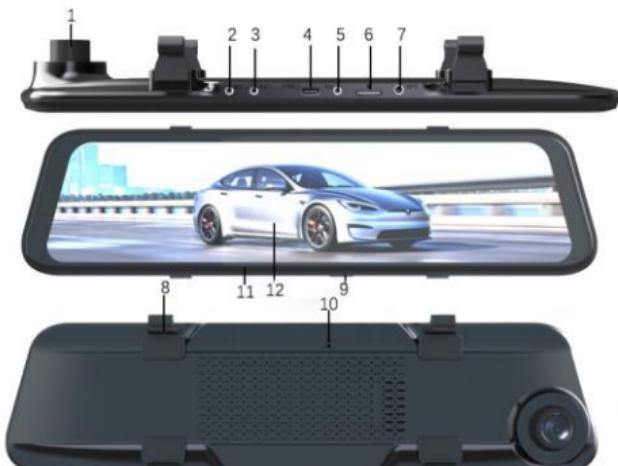
Please use the dedicated power cable that comes with the dash cam. Pls do not use other power cable on the market without permission, otherwise it may damage the dash cam.

1.4 Micro SD card

Please use a high-speed Micro SD card with U3 or higher, otherwise it will affect abnormal recording.

Structure and buttons

Button diagram



1.Front camera	2. Left camera port	3. Right camera port
4.Type-C Power port	5. Back cam socket	6. TF card slot
7.GPS port	8. Mirror strap	9. Power button
10. Reset	11. Microphone	12. Touch pannel

Button and sockets instruction

1.Power Button

1)function 1: power on/off

Press Power button 3S to power on/off device.

2)function 2: control back light

Press Power button 1S to control back light

Function 3: Reset function

Press and hold the power button for 8-10 seconds when the

recorder is in a power on state or experiences a crash. The device will reset and enter a shutdown state. Then, short press the power button to restart the device.

2. Reset

If device breaks down, press Reset 1S to restart device.

3. Power port

For connecting 5V power for device.

4. Left, Right, Rear camera socket

For connecting external left, right and rear cam.

5. SD card slot

For inserting micro SD card, files will be stored inside.

6. Microphone

Transmit sound

7. Mirror strap

Tie the strap on the original rearview mirror of the car.

8. Touch pannel

The functional operation of this product is mainly achieved through the capacitive touch screen, and the corresponding functions are indicated by the icons on the screen.

Operation Guide

Installing instruction

1. Power off the automobile engine.
2. Insert the micro SD card into SD car slot on device.
[Note] please use high-speed micro SD card, (Class U3) with a capacity of 32GB to maximum capacity of 256 GB.
3. Fasten device on original rearview mirror by mirror strap.
4. Insert car charger into cigarette port, connect device by Type-C car

charger.

5. Install the external left, right and back camera to the socket accordingly, the cable can be hidden the up-side of car.

【remark】 if need to use function of reversing vision image, it is necessary that the red wire on back cam connection cable is connected to positive pole of reversing light.

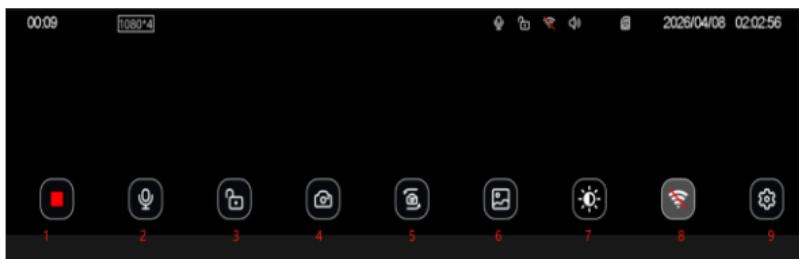
6. Adjust the angle of the DVR, ensuring that the camera lens keeps level with the ground. Please install it in 4S store or professional car repairing shop.

7. Start up the engine and check whether the DVR is mounted properly.

【remark】 please format the SD card when use it for the first time.

Function instruction

1、Main interface:



Automatic Recording

When you start up the automobile engine, the DVR is automatically started and the recording function is enabled. After you turn off the automobile engine, the device will save the recorded files automatically and then is powered off. The recorded images are saved by segment in the SD card. When the SD card is full, the earlier

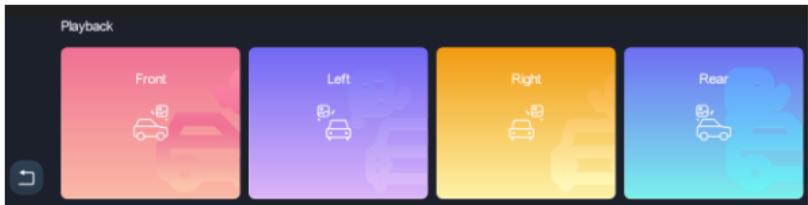
files will be overwritten.

【note】 recording time segment can be set to be 1/2/3/5 minutes.

- ① **Recording:** Click this icon to switch between turning on and off recording.
- ② **Audio switch:** Click this icon to control whether sound recording can be turned on or off.
- ③ **Lock(EMR emergency):** During video recording, click the icon to lock the current video, and add 20s to the current recording time as the locked file, the lock icon is "", click "" to unlock the current file.
- ④ **Taking Picture:** Click this icon to capture an image without affecting the recording function. One shot can be taken for four different lenses at the time.
- ⑤ **Lens switching:** Click this icon to switch the display mode of front lens ->left lens ->right lens ->rear lens ->front+rear lens ->left+right lens ->4 recording lenses displayed simultaneously.
- ⑥ **Playback:** Click this icon to enter the playback function, which will stop the current recording when entering the playback function.
- ⑦ **Backlight Dimming:** Click this icon to adjust the backlight brightness, which can be adjusted in four levels.
- ⑧ **WIFI on/off:** Click this icon to control whether WiFi is turned on or off.
- ⑨ **Setting interface:** Click this icon to enter setting interface, which will stop the current recording when entering the settings function.

2. Playback Function

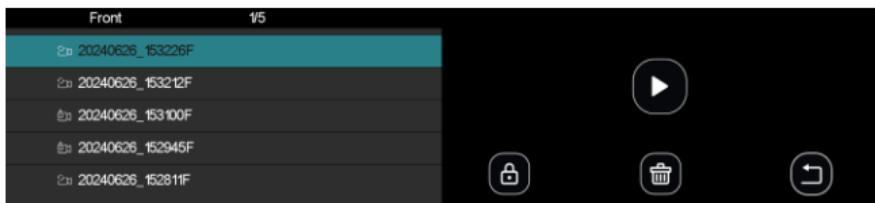
1. Clicking the playback icon on the main interface to enter the playback interface as shown in the following:



① On this interface, there are four icons displayed: front, left, right, and back, representing the files for each lens. These files include normal recording files, locked recording files, photo files, and parking monitoring files.

② There is a return icon in the bottom left corner of this interface. Clicking on this icon can return to the main interface.

2. On the playback main interface, click on a lens icon (such as the rear lens icon) to enter the playback main interface, as shown in the following figure:



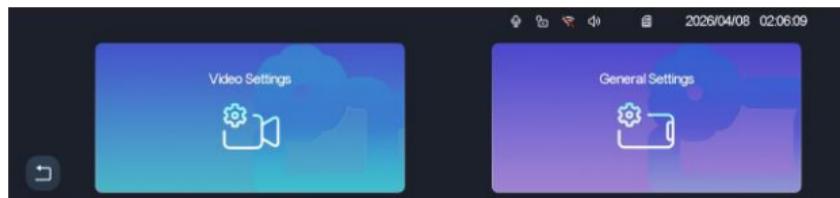
① The above image shows the recording files corresponding to the rear camera, and the file list on the left includes locked files, photo files, and normal recording files. The file list are locked files (note: locked files for normal recording and video files triggered by parking monitoring are locked files, and locked files will not be overwritten during cyclic recording, but can be manually deleted). The icon in front of the file name has a lock symbol;

② On the right side of the above image is a preview screen of the selected file, with corresponding operation icons on the screen. The

icon in the middle of the screen is the play icon. Clicking on this icon can play this video file. The icons at the bottom of the screen are locked, deleted, and returned; Click the lock icon, a lock file prompt will pop up (if the current file is a locked file, it is an unlock prompt); Click the delete icon and a prompt to delete files will pop up; Clicking on the return icon will go back the previous level.

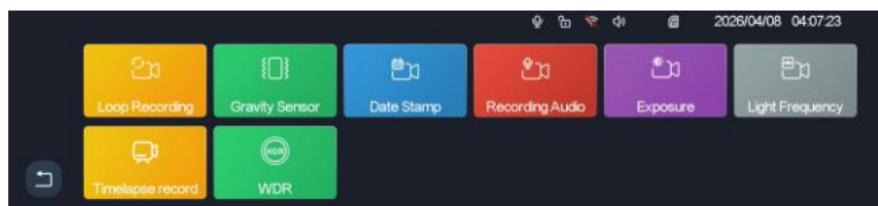
3. Setting Function

Click the settings icon to enter the settings menu, click the icon “” in the bottom left corner to return to the main recording interface. The settings menu has two categories: recording settings and general settings, as shown in the following figure:



A. Video Settings

Click on the recording settings icon to enter the recording settings item. Click on the icon “” in the bottom left corner to return to the settings menu. as shown in the following figure:



① Loop Recording

Loop recording setting options: 1/2/3 minutes/off with 4 modes; Default to 1 minute.

② Gravity Sensor

Collision sensitivity options: high/medium/low/off; Default to low.

③ Date Stamp

Turn off or on; Default to open. The date and time information will be written into the recorded video file, making it easier to see the time points of each frame of the video

④ Recording Audio

Video sound switch options: turn off or on; Default Open.

⑤ Exposure

Exposure options: -3/-2/-2/0/1/2/3; Default 0

⑥ Light Frequency

Light frequency options: 50Hz/60Hz; Default 50HZ

⑦ Time-lapse record

Time-lapse recording requiring the purchase of an extra hardwire to enable this feature.

The function options: off, 1 frame per second, 2 frames per second, 4 frames per second. Default off. If the time-lapse recording option is selected as 1 frame per second, when powered on, the recording will be recorded in a 1 frame per second mode. Normal recording takes 25 frames per second, and this 1 frame per second can increase the total duration of files stored on the same TF card by 25 times.

⑧ HDR

HDR options: turn off/on; default Open. HDR means high dynamic range. Turning on HDR will make the recording of the front lens adopt a high dynamic range mode, enhancing the brightness and contrast

range of the image, and recording more details

B. General Settings

There are a total of 16 items in the general settings, which are displayed on two pages and can be flipped up and down to view. Click the icon in the bottom left corner to return to the settings menu. The content of the items is shown in the following figure:



① Screen Saver

Automatic screen shutdown options: off/ speed date/15 seconds/1 minute; Default speed date. Select the speed date, and after 1 minute of inactivity, you will enter the "speed date" screensaver interface; Selecting 15 seconds or 1 minute will turn off the screen after 15 seconds or 1 minute of inactivity. After entering the screen shutdown mode, press the power button to turn on the interface.

② Format

After clicking on the formatting,

a formatting prompt box will pop up: Do you want to format the memory card? After clicking "√", the current TF card will be formatted. Formatting will clear all contents of the SD card, please operate with caution.

③ Language

There are 11 language options: Simplified Chinese, Traditional Chinese, English, French, Spanish, Portuguese, German, Italian,

Russian, Japanese, and Korean; Default English.

④ Parking Monitor

Parking monitoring options:

off/gravity sensor/time-lapse recording/radar monitoring; Default radar monitoring. To choose radar monitoring, it is necessary to use a radar hardwire kit, that is powered through the car's OBD or fuse box. This radar hardwire kit can be sensed the surrounding movement at any time. If someone passes by nearby, it will power on the device. In this case, the device can quickly start recording (reaching the level of instant recording) and quickly record the video that the user wants. To choose gravity sensing and time-lapse recording, both require a voltage reducing cable with ACC hardwire kit that is powered from the car battery. In gravity sensing mode, after the car is turned off, the G-sensor will record the collision received by the car. If a collision is triggered, the system will start recording for 15 seconds. The recorded file at this time is a parking monitoring file that will be locked. In time-lapse recording mode, after the car is turned off, the screen will be turned off for time-lapse recording. At this time, the time-lapse recording file is a normal recording file and is not locked.

⑤ Power on display

After click the icon, there is a default screen combination for startup display, such as: front + left + right + rear, or front + rear and so on.

⑥ System Volume

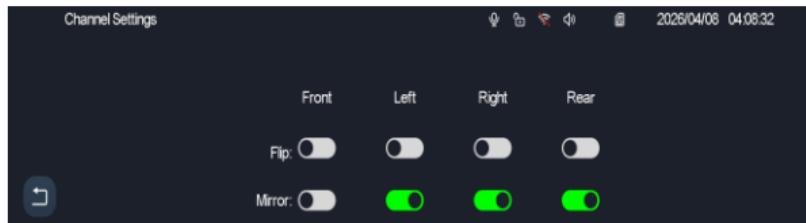
System volume option: high/medium/low/off; Default medium. The system volume is a volume setting for startup music, button sounds, touch screen sounds, and playback. If you choose to turn it off, no sound will be emitted.

⑦ Key Sound

Button sound options: turn off/on; Default open. Select to turn off, there is no sound during button operation

⑧ Channel Settings

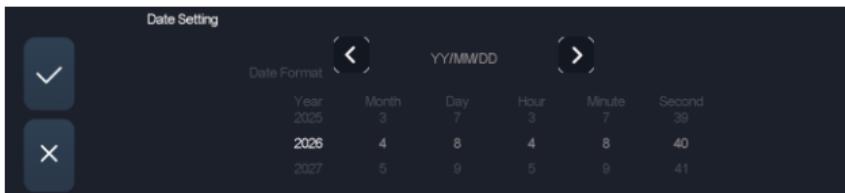
The channel setting options are shown in the following figure:



The channel setting is for the operation of four lens images. You can choose the up and down flipping and left and right mirroring of the front, left, right, and back four lenses. However, the flipping and mirroring here are for the screen display of this item, and the actual recorded file is the original state of the lens, which is not affected by the flipping and mirroring settings here. The above image shows the default settings.

⑨ Date and Time

Set the time options as shown in the following figure:



Time settings can set year/month/day/hour

/minute/second/date formats. There are three types of date formats: DD/MM/YY YY/MM/DD、MM/DD/YY, You can set the corresponding date format. Click on the position of year/month/day/hour/minute /second below to switch to the set focus. Switch to the corresponding focus, and the corresponding number will be highlighted. Then, swipe the screen up and down to adjust the setting of this focus

⑩ WIFI

1) WIFI Function Instructions

1: Scan the QR code on your mobile phone to download the APP or search for "Roadcam" on the collected app store to download and install.

2: WIFI Name (SSID):): Dashcam_WL_**** (WIFI Serial Number)

3: WIFI password (PWD): 12345678 (Initial Unified Password)

2) WIFI Connection Steps

A: Turn on the WIFI function of the dash cam.

B: Enter the WLAN interface of the phone settings, Dashcam_****

C: Enter the password to connect the WIFI account of dash cam.

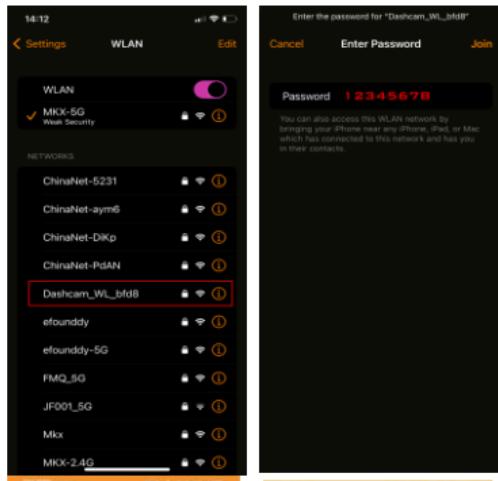
D: Open the 'Roadcam' APP to connect the WIFI account.

PS:

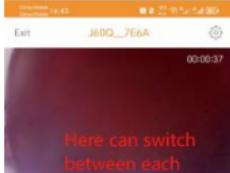
- (1)It is not recommended to modify the WIFI Name.
- (2)If you need to modify the WIFI password, please connect to the APP to modify it on the settings.
- (3)If the SSID of the device cannot be found in the "WLAN" list in your phone settings, please restart the WLAN and swipe the 'NETWORKS' list.



IOS APP
Android APP



Please confirm the wifi account of our dash cam you connect and press 'button' to enter



Video  Photo

start/stop recording
Take photo



⑪ Restore Factory Settings

Restoring factory settings: Click confirm will restore the factory settings. Restoring factory settings means restoring all settings to their original factory settings, and any modifications made to the settings will be cleared.

⑫ About

Select the device information function to view the software version number that comes with the device.

C. G-sensor

There're two situations for G-sensor:

1. During normal recording, if a serious vehicle collision occurs, the recorder will lock the current image data at the time of the accident, and the status bar on the display screen will display a lock icon; Locked image files will not be cyclically overwritten.
2. Select gravity sensing in the parking monitoring settings, paired with a ACC hardwire kit, and the vehicle turn off. When the vehicle records a collision signal, the recorder will immediately turn on to record for 15 seconds, and then turn off. At this time, the recorded 15 second file belongs to the locked parking monitoring file and will not be cyclically overwritten.
 - a. The locked file name under normal recording ends with **SOS**.
 - b. The file name of the parking monitoring file ends in **PARK**.

[note] G-sensor sensitivity can be set, please format micro SD card on device every two or three weeks.

D. Reverse image

When car reverses, video image will be switched to be back camera, and show reversing assist line, when exits from reverse gear shift,

device will be recording normally.

[Note]if need this function of visual of reversing car, red and black lines on connection cable need to connect reversing light, only professional car repairers can install it.

The reverse assist line icon displayed in reverse is shown in the following figure



Click on the "Setting" icon on the left side of the reverse display to enter the reverse assist line adjustment mode, as shown below:



Reverse assist line adjustment:

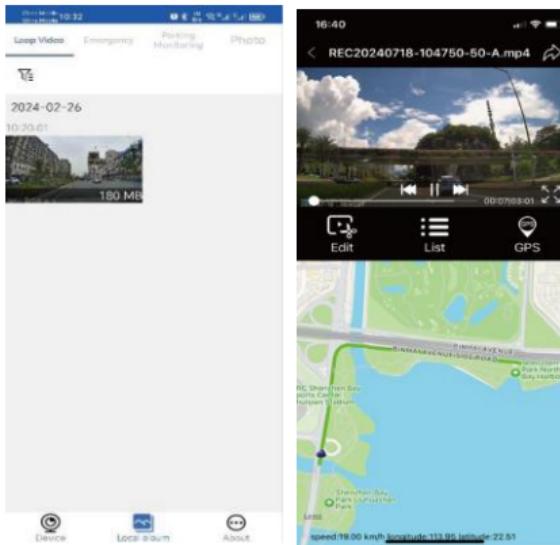
1. As shown in the above figure, there is an "X" icon in the upper left and upper right corners of the parking assist line. You can adjust the desired position by dragging this icon; You can also drag the icon in the bottom left and bottom right corners of the auxiliary line to adjust its position; Clicking on the Setting table or waiting for a few seconds will return to the normal reverse display state and save the adjusted position.

2. Selecting "Restore Factory Settings" in the menu can reset the current parking assist line to its factory settings

4. APP GPS video playback

- ① Open the APP and download the video to the local album.
- ② Select Native Album and Looping Video.
- ③ Click Play video to view the track of the video.

Note: Android system must close the Wi-Fi connection between the phone and the local machine to see the playing tracks on the APP, otherwise, the phone can't access the internet. IOS system doesn't need to.



PC GPS video playback GPS function

- ① Video interface indicates the GPS is not positioned, Flashing status means the GPS positioning is successful, No flashing.
- ② The system time will be synchronized after successful positioning (according to the time zone time set in the menu)

③In the “GPS status” of the general settings, you can view the real-time GPS CN value.

Install GXPlayer player

①MAC system computer: Search “GxPlayer” on the application market of Apple computer to install it.

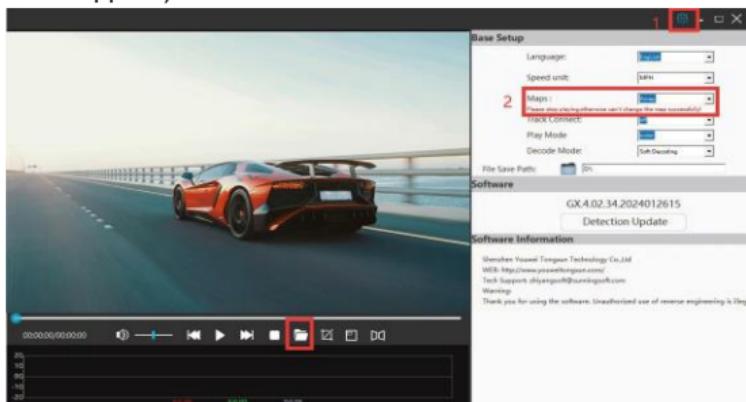
②Windows system computer: the installation method is as follows. Windows systems, you can automatically generate the GXPlayer installation file from the memory card used in Dash Cam, find GXPlayer in the file, click it and download, then start Gxplayer player to use.

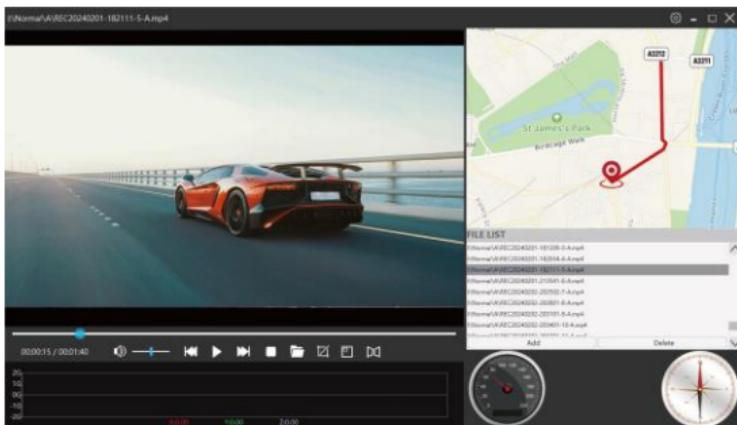
Installing a GPS Player:  gxplayerv1.3.6.exe

Opening after the installation is complete:  GXPlayer

Use GXPlayer

Import the video file after GPS positioning (Figure 1, number 1) Show track of travel (Figure1, number 2); Show the position in the process of driving (Figure 1, number 3) The real-time speed (Figure 1, number 4) General settings (Figure 1, number 5. The Figure 2 menu Settings feature will appear)





5. More Precautions Support

If you have any question about the product, please feel free to contact us, inquiries are usually answered within 12-24 hours. If you have any concerns, Please contact us via e-mail: sales@maction.com.cn.

Your opinion matters We are firmly committed to always improved our products, services. If you have any thoughts on how we can do even better, we welcome your constructive feedback and suggestions.

6. SPECIFICATION

Chipset	Allwinner V53X
DDR	DDR32Gbit
Flash	16MB SPI Norflash
LCD	11.8" IPS high resolution LCD
LCD resolution	1920*440 pixels
TP	11.8" Capacitive touch screen
External Port	Type C 5V/3A power port

	32G-256G U3-V30 TF card
	2.5mm AHD rear camera port
	2.5mm AHD left camera port
	2.5mm AHD right camera port
Speaker	8Ω 1 W single speaker
MIC	4015 standard microphone
Front camera resolution and viewing angle	2.0 megapixel /FHD1080p Aperture F2.4, Viewing angle 142°
Left, right, rear camera resolution	AHD 1080P
Full screen reverse	Support
Compression format	H.264
Video format	TS format
Picture format	JPG
Loop recording	Support
Radar parking monitor	Support
Parking monitor	Support
Time-lapse monitor	Support
Storage temperature	-20°C~80°C
Operation temperature	-10°C~65°C
Operation humidity	15-65%RH
SD card capacity	32GB ~ 256GB
Working voltage	DC 5V
Working current	950mA
Power port	Type C DC5V -3.0A

***Remark: any change will not be notified separately.**

7. Q & A for the Common troubleshooting

Not turning on	Poor contact of power cord	reinsert the power cord
	Not using the power supply as required	Replace the power cord provided at the factory
Not recording	Without SD card	Insert SD card
	SD card damaged	Replace SD card
	The inserted card does not meet the requirements	Insert the required SD card for the device
Not recording for Left camera	Loose left recording plug	Insert the left recording plug tightly
	Extension cable/damaged left recording lens	Replace extension cable/left recording lens
Not recording for Right camera	Loose right recording plug	Insert the right recording plug tightly
	Extension cable/damaged right recording lens	Replace extension cable/right recording lens
Not recording for Rear camera	Loose rear recording plug	Insert the rear camera recording plug tightly
	Extension cable/damaged rear recording lens	Replace extension cable/rear recording lens