4G SmartVision Dash Camera

User Manual

Part 1. Product Overview

This device is a 4G dual channels (Front cam+IR night vision inside camera) driving recorder, with high-definition, ADAS, one-button alarm, GPS driving track & position, WiFi hotspot, 4G internet surfing and Android systems. It could meet with JT / T1078 " Road Transport Vehicle Satellite Positioning System Video Communication Protocol " and JT/ T808 "Road Transport Vehicle Satellite Position System BeiDou Compatible Vehicle Terminal Communication Protocol Technical Specifications" hardware requirements.

Part 2. Product Installation

① Power BMW wire ② GPS connector ③ SOS button and Power connector
④ SOS alarm button ⑤ Yellow wire BAT + connector
⑥ Black wire GND connector ⑦ Red wire ACC connector

■ How to install the device?

Step 1. Please ensure you close the car engine.

Step2. Use the screwdriver to open the lockable SIM & TF card cover, and then insert the SIM card and TF card by correct direction as below:

Step 3. Connect well the GPS antenna and power cable with device.

Step 4. Please fix the camera via the 3M holder onto the windshield.

Step 5. Open the vehicle fuse box, connect the power cable ‘s other side with vehicle battery as below:

- Red wire connect with vehicle battery ‘s ACC (12V+ after we start the car engine) ;
- Yellow wire connect with BAT+ (12V power after we close the car engine);
- Black wire connect with GND(find a reliable iron part to connect to the ground).

Step 6. After connecting the power, device’s Red Light will be on.

Remarks: it will take about 3 minutes to power on device, please don’t cut off the power during this period. The indicator lights , please refer to below working indicator lights introduction.

Step 7. Start the car engine to check if the camera installation correctly.

Step 8. Open the CarAssist APP, and adjust the camera position to ensure image recorded in the center of display .

Part 3. Product introduction

① Power cable (BMW line)
② USB port
③ Power /OK button
④ RESET hole
⑤ FHD 1080P Front Lens
⑥ IR Night Vision Inner Cam
⑦ Microphone
⑧ SIM card slot
⑨ TF card slot
⑩ Red Led: 4G signal
⑪ Green Led: REC status
⑫ Blue Led: GPS status signal

1. Working Indicator Lights

- **Blue light--> GPS status indicator light:**

  After device switch on, blue light is always on when GPS located; blue light flickers when GPS is not positioning.

- **Green light-->REC status indicator light:**

  After device switch on, green light slowly flickers when recording; green light is off when the device is not recording. Please check whether insert the memory card.

- **Red light-->4G network status indicator light:**

  After device switch on, red light is always on if 4G signal searched;

  If the red light is off , it means the device could not identify the SIM card or 4G signal is not good. Please insert the SIM card again.

- **Red +Green light quickly flashing means, the device is under recovering to the factory default settings process.**

- **Red light and Blue light is always on, the green light is slowly flashing , it**

means , the device work normally .

2. Power / OK button

- Short press it to broadcast device's WIFI hotspot name and device working status.
- Long press it to restart the device;
- Long press it until the device power off , and then Red led and Green led light up at the same time, it means, device is under recovering to the factory default settings.
- One-Key alarm button, short press it to upload photos to the platform / mobile APP.

3. External Memory Card Support

- Please use the 16GB-128GB high speed Class 10 Micro SD card.
- Please format the memory card firstly before insert to the device.

4. Car Video Recording Functions

- Device runs and records automatically after car engine is on. Front camera is FHD 1080P, inside camera is 720P.
- The inside camera is with light sensor & IR night vision, produces crystal clear video to know events inside the car even if at low light condition.
- Seamless loop recording overwrites the oldest footage with the newest upon filling a card to capacity.
- Variable sensitivity G-sensor auto detects a sudden shake/collision and emergency locks the footage to "Event File" to prevent that video from an overwrite.
- About car dvr settings, please bind the device with your smart phone, and go to the CarAssist app to set up the dvr settings.

5. Parking Monitor

- The camera will be automatically enter parking sleep mode after car engine is off .
- The camera will automatically send alarm message, and capture and upload the photo to the mobile APP with location information if sudden shake / collision happened to the vehicle.
- You could use the mobile app : CarAssist app to remote monitor this dash camera by remote capture , live view , remote recording, remote talk functions.

  About the CarAssist app operation, please refer to the next part: CarAssist Mobile APP.

  In order to protect your car battery, this device will automatically shut down when

detect the vehicle is under low voltage status.

6. FAQ

Product Questions	Solutions
1.The 3M holder could not firmly attached to the windshield?	Please check and ensure the car windshield is clean. And Air between the 3M adhesive and glass is squeezed out and press firmly.
2. The body of camera shakes, and the video is skewed?	Please ensure the camera and 3M holder is fastened well.
3.The video is not clear and dark?	Please ensure the camera lens or the car windshield is clean , and camera lens's shooting angle should not be too high.
4. The parking monitor function could not work?	Please check whether you connect well the power cable by correct sequence, yellow wire connect with BAT+ Long battery 12V , the Red wire connect with ACC12V.
5.The device could not be power on or normal working?	Please check whether connect well the power cable; Please check whether the wire fuse is intact; . Please use needle to short click the RESET hole to restart the device ; Or long press the power button to recover to the factory default settings.
6. The Red Led could not light up?	Please check whether insert well the SIM card And whether the SIM card has enough traffic Data.
7.The Blue Led is blinking?	Please check whether connect well the GPS antenna, and test it outdoor.
8.The Green Led could not light up?	Please check whether install well the TF card. The TF card must be C10 high speed card. Please test one new TF card.
9.Forget the WiFi and password?	Short press the Power button will broadcast again the WiFi and password, and then input the correct WiFi password.
10. Mobile APP could not preview the device image?	Please check whether connect the correct WiFi hotspot. Power off the mobile, and restart the mobile app.

Part 4. How to use the ADAS Function?

This device support the ADAS function. After binding the mobile phone with device, you could go to the CarAssist APP to adjust the ADAS. You also could bind the device with the Android DVD player, download the SmartEye or CarAssist app, and then run the device on application.

ADAS Adjustment on Car Assist APP.

1. Installation

Finish the installation, we need to adjust the camera location according the image taken by the camera. We suggest the right ahead is in the area 1/4 of the image, ground level is in the middle of 1/5 area of the image.

ADAS can run correctly if we meet the above requirement. If the installation deviation is large, the experience maybe will be bad. Also please refer to the below pictures:

2. Manual Adjustment

User can adjust the camera position manually, that will be good to finish the installation quickly.

- Slide the horizontal calibration line, make it is aligned with the land line. Land line means the intersection line of sky and ground.
- Slide the vertical calibration line, make it aligned with the right ahead of the car. Right

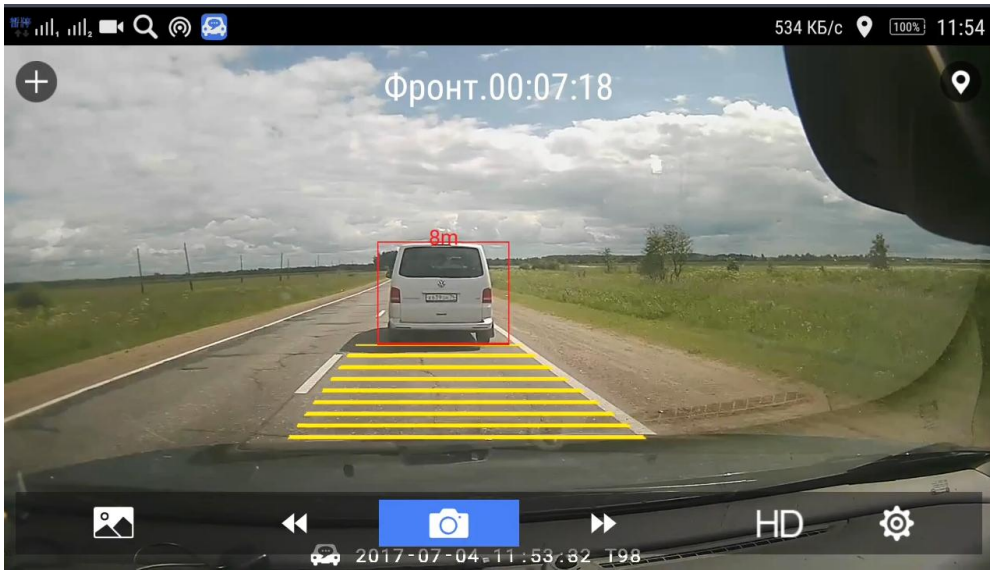
ahead of the car means vertical connect line of meeting point of the two lane and the middle point of the car engine cover.

3. Automatic calibration

First time to use the camera, it need automatic calibration to activate the function.

And we need the follow terms to make the automatic calibration entry into condition.

- Meet the suggested requirement (large deviation on left-or-right will lead to non-calibrated, vertical or horizontal deviation will lead to non-calibrated or delayed the calibration)
- Driving on the road with the speed more than 40KM/h
- If we all meet the above requirements, the driving time need to be more than 1 minute. After calibration, ADAS function will enter into use, and the estimated distance will be display above the frame of the ahead car.



Part 5. CarAssist Mobile APP

1. Application introduction

It supports vehicle management, vehicle monitor, mobile phone interconnection, real-time playback, one-click capture, two-way talk, video editing and share.

2. Operating conditions

Your smart device need to be with Android 4.0 or above version , or iOS device.

3. Download and installation

Method 1: Scan the QR code: Use the mobile phone software (such as: WeChat, Brower ect) to scan above QR code, or go to the website: http://www.carassist.cn to download and install the application.

Method 2: Search the APP name “CarAssist” on Google Play or APP store , find this application to download and install.

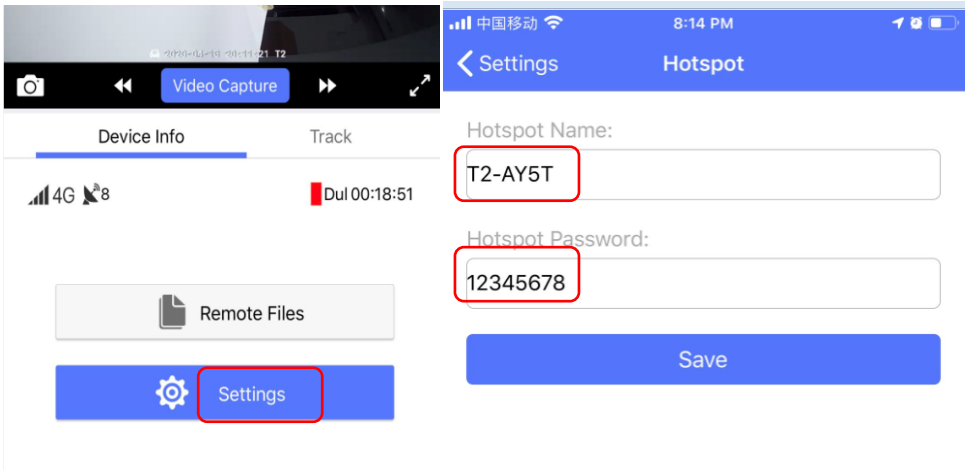
4. Login to use

You could use Facebook ID or Wechat ID to log in the CarAssist app.

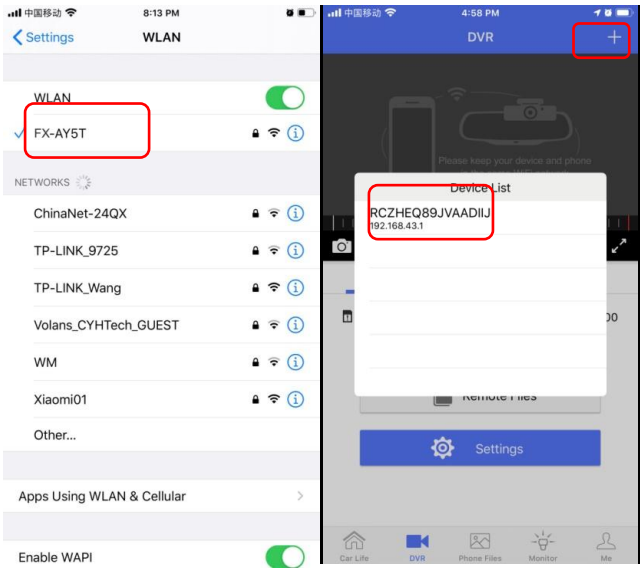
5. Device binding and management

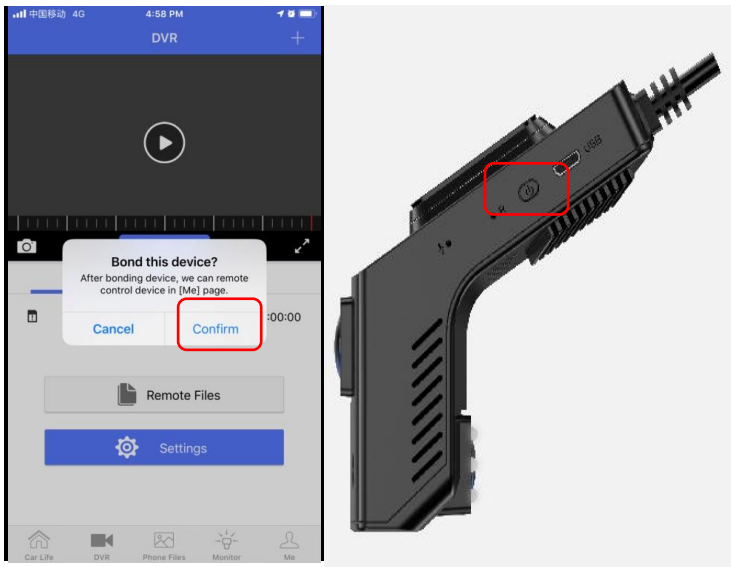
Find this device’s WiFi hotspot in the mobile phone and connected it.

(WIFI hotspot name defaults to FX-xxxx, default password is 12345678. Users can modify them later in the CarAssist app settings).



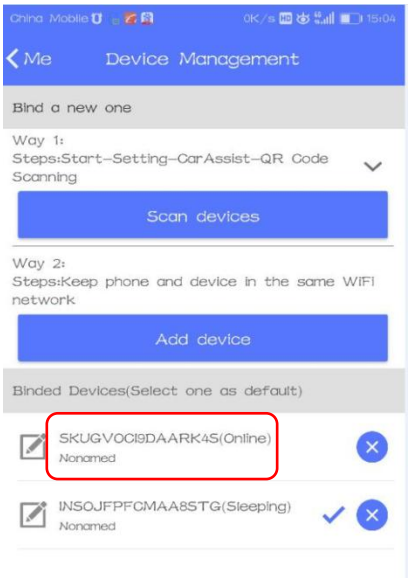
Open the CarAssist app, click the "+" in the upper right corner, the following dialog box will pop up, click the serial number, click “Confirm ” option to send the binding request to the device, and then press the Power Button to confirm the binding request.





Vehicle management:

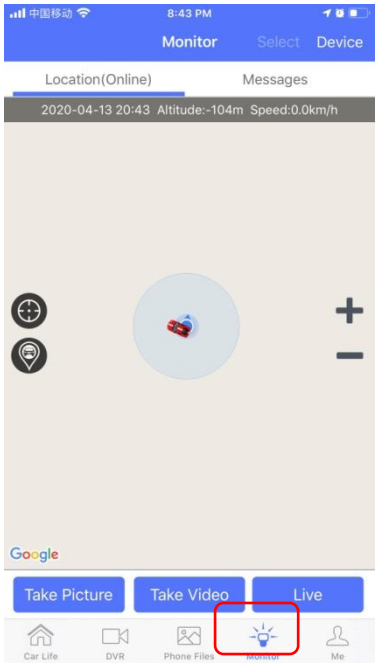
One user (account) can be connected with multiple devices (dash camera). One dash camera device can be connected with multiple users at the same time. Plus, you can freely re-name the device to distinguish different camera device, as below image:

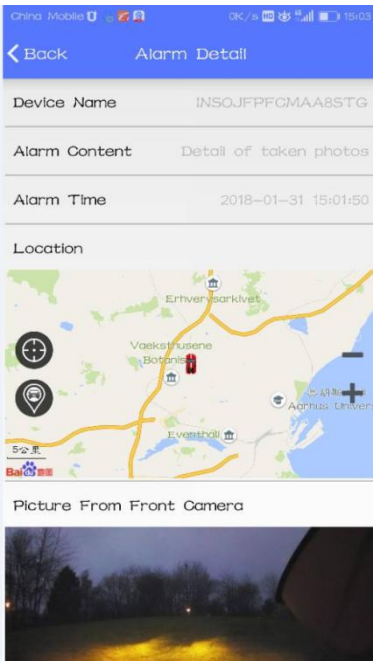


6. **Cloud functions description (Please make sure both camera device and mobile phone are power on status and with different network)**

- **Vehicle Monitoring Alarm.**

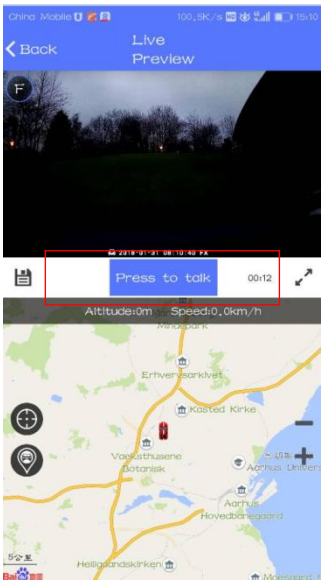
  When something hit or collision happened to the device, and you want to see what happened to the car , then you could open the CarAssist app's Monitor function to remotely "Take picture" or "Take Video" to see the situations. The device will capture a 720P picture / 10S video of the front and inside cameras in a short time, and upload (takes 5S-10S) to the binding mobile phone. At the same time, the file is saved in the snapshot folder of the phone file. Users can browse from their mobile phones at any time, edit it and share, as below image:





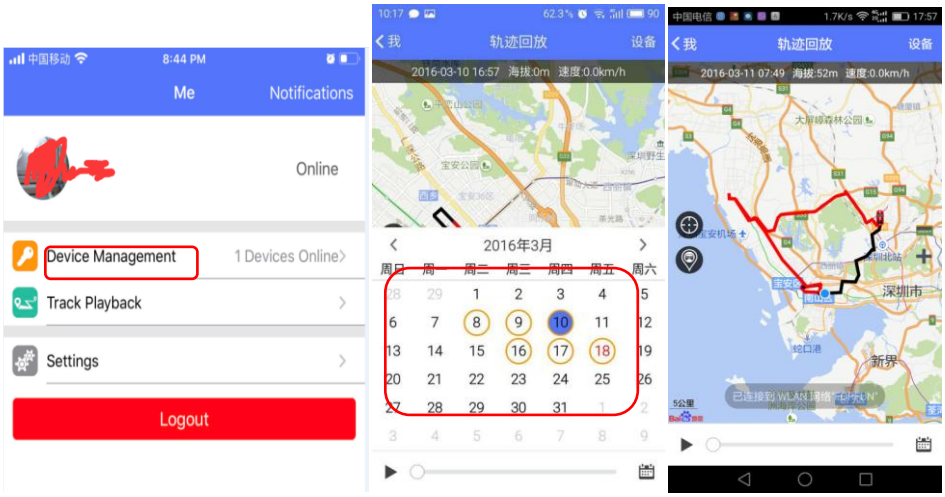
- **Remote Live Intercom (Two-Way Talk)**

Enter the Live menu, user could live view and intercom remotely with driver anytime anywhere , just click the “Press to talk” button. Plus, you could save the video file as you want when live view.



- **GPS Track playback**

User can enter the “Track Playback” to check the vehicle location and playback the car driving GPS trace in the past day or any previous date & time . Different time GPS traces will be marked with different colors and then be distinguished , as below:



7. **Dual screen interconnection display with smart device (Mobile Phone / Android DVD player), please connect device’s WiFi hotspot firstly and ensure at the same network.**

After mobile connecting this device‘s WiFi hotspot , then you could enter the “DVR” menu to see video and image from device. This function is based on WiFi interconnection, no need network traffic data support.

- **Real-Time 1080P /720P Preview Playback**

Users can preview 1080P /720P driving videos (full screen) in real time through their mobile phones. And could playback any video files anytime.

- **One-Click Video Capture**

In the preview interface, users could click “Video Capture” button to take one 10 seconds duration video file (-5s, +5s) .

- **Quick Settings**

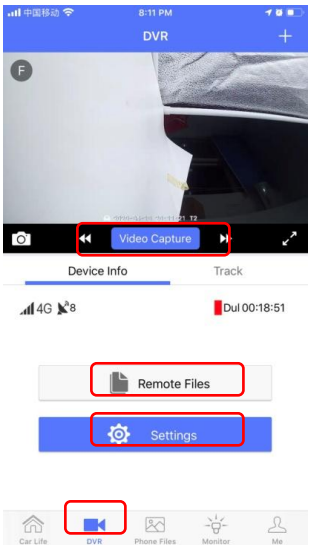
Users can enter the “Settings” menu to make quick settings , like adjust volume , G-Sensor sensitivity , loop recording time, record mute , WiFi name and password , and so on.

- **Record Video in Real Time with GPS data information**

All video files are come with date & time , speed , and gps log information in real time.

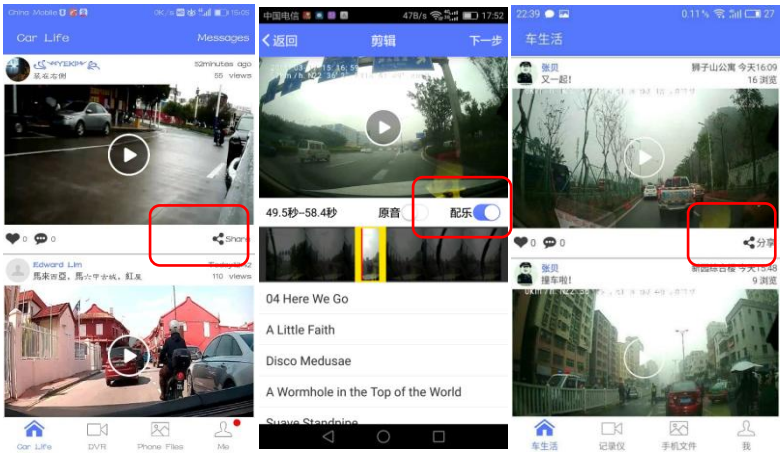
- **Real- Time Playback**

Users can preview any video files from device in real time through the CarAssist APP, and can choose view online (buffer 1-3 seconds). If long-press the video file, it could be downloaded into the corresponding folder of mobile phone, no need network traffic data support, and you could edit and share the video files.



8. Enjoy Smart Driving: Car Life Community

The CarAssist app is built-in one car life cloud community, based on intelligent cloud reading, users can edit video files (snapshots or videos) and share the video in this car life zone.



Part 6. Product Specifications

Product Parameter		
CPU		AutoChip MT6735 Cortex-A53 Quad Core, 1.5GHz
OS		Android 5.1
Storage	Flash ROM	16GB EMMC
	RAM	1GB LPDDR3
GPS		GPS&BD Dual Band, With External GPS antenna
Network Band		GSM B5/B3 WCDMA B1/B5 TD-SCDMA B34/B39 TDD-LTE B38/B39/B40/B41 FDD-LTE B1/B3/B5
Bluetooth		BT4.0
WiFi		802.11b/g/n 2.4GHz; support WIFI hotspot
ADAS		Support
G-Sensor		3-axis G-Sensor
Loop Recording		Support
Parking Monitor		Support
Front Camera		GC2053(1920x1080P), MIPI interface
Inside Camera		GC1064 (1280x720P), IR(850); MIPI interface
IR Night Vision		Support Infrared light in Inside Camera
SOS		Support one-key click alarm
Standby power consumption		4MAH

Input/Output	Speaker	Built-in high-fidelity mono 1.5W / 8R speaker
	MIC	Build in MIC-Phone Noise Reduction
	TF card	Support TF card, maximum 128GB (not include)
	USB	Micro USB 2.0
Key button		Power button
RESET		Support
powered by	External power	BMW line power supply; power supply voltage 9V-16V
Temperature and humidity range	Temperature	Usage: -20~+70°C
		Storage: -30~+80°C
	humidity	Usage: 4%~90%RH
		Storage: 40%RH
Product Size		109mm x 61mm x 28mm
Package		1x dash camera,1x power cable;1xGPS antenna, 1x3M holder , 1x user manual
SmartEye App on Android Device		
Android device connection via WiFi		After WiFi connection, you could access the dash camera through the "SmartEye" app on Android DVD player for instant vision
GPS logger		Support GPS logger path and video synchronous playback
One-key photo capture		Support one-key capture the photo from front and inside camera
Car Assist App for Android/ iOS		
Parking Monitor		Support capture front and inside camera video and image
Real-time preview		Support 1080p/720p video live preview
GPS track history		Support GPS logger path and video synchronous playback
Monitor and Alarm		Support Message / photo alarm if collision happened when car parking
Video download		Support Point-to-point video download to the phone, don't consume internet data

FCC Caution.

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.

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

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.