F93D 7- inch dual-channel motorcycle recorder



1. Product Overview

F93S 7 inches is installed on the front and rear of the motorcycle The wide-angle camera collects images around the vehicle and transmits them to the all-in-one machine in real time. This product can record all driving videos and photos. With this system, the driver can also connect to a mobile phone, use motorcycle navigation, play music, etc. The shell of this product can effectively prevent rain from entering, so it can be used normally in rainy days and wading environments



Serial number	Functional Description	
1	Microphone receiving hole	
2	SD card slot hole	
3	Phone Keys	Short press to answer the call / long press for 3s to hang up the call.
4	Camera button	Short press to capture a photo/long press for 3S to lock the video
5	Menu swap key	Short press : enter the video preview interface for the first time; Enter the mobile phone interconnection interface for the second time; Enter the main interface for the third time
		Long press for 5S to turn off/on the touch function
6	GPS	

2. Product composition list

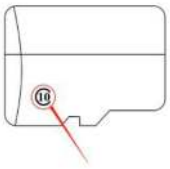
Name	Diagram	Illustrate	Quantity
Host		7-inch high-definition display (1024*600) dual-channel camera interface /touch control/Bluetooth/ WIFI/audio output /FHD high-definition video	1
Two-wire step-down line		BMW head power cord/12V-24V/2.5A current	1
Front road camera		AHD high definition (1080P)/4PIN BMW Head	1
Rear camera		AHD high definition (1080P)/4PIN BMW Head	1
GPS/Wire Control		Button control function, GPS positioning function	1
Hexagon socket wrench		For fixed front and back recording	1
Motorcycle DVR Bracket		The machine is fixed on the motorcycle recorder with a bracket	1
Magnetic quick-release		Installed on the rear case of the machine	1
Phillips screwdriver		For TF card slot cover fixing screws	1
Open-end wrench		For fixing bracket nut	1
Tire pressure sensor tool kit		For monitoring tire pressure	1

3. **Product Parameters**

Project	Function Introduction	Performance Indicators
System	Operating language	Simplified Chinese/Traditional Chinese/English/ Russian/Spanish/French/German/Japanese/ Korean/Dutch, Hebrew/Italian/Portuguese etc.
	User Interface	Graphical menu operation
	How to operate	Touch
Video Input	Video Input	2 HD video input
	Video recording method	Default startup recording, no missing seconds
	Video format	1080P H.264 video, 2 Save the video separately
Video Display	Real-time display	7 HD IPS Screen, 1024*600
	Local playback	Play locally and view at any time
	Screensaver	Can be set to 1 minute/3 minutes/5 minute
Smart connectivity	WIFI	Supports Apple Carplay, Android Auto and Wifi Video
Video storage	SD Card	CLASS10 U1, maximum support 256GB
Audio	Audio Output	After Carplay/Auto screen casting, the mobile phone Bluetooth can be connected to the Bluetooth headset to play music or answer calls
	Microphone	Support microphone recording, the menu can be set to turn it off
Power supply	Power Input	Support 5V step-down circuit
Power consumption	2 Road Video	Less than 12.5W (screen display, 2 Road camera video)
Other	Operating temperature	-20~70 degrees

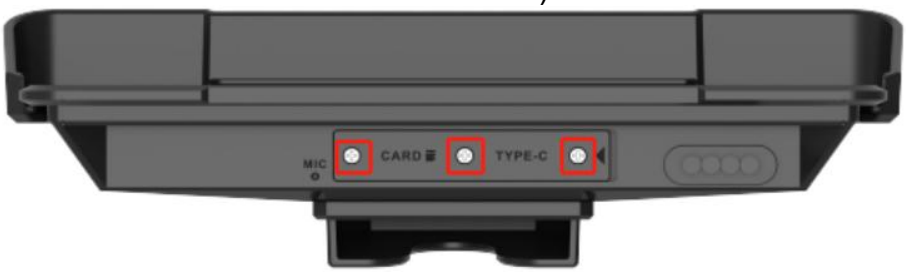
4. SD Card Specifications

SD The quality of the card has a great impact on the stability of the video recording. In order to record the video safely, please choose a card from a big brand. SD Cards such as SanDisk, Kingston, Toshiba, Samsung. The speed certification must be at least Class 10, and the maximum supported is 256GB.



5.SD Card Installation Instructions

2， As shown in the figure below, first remove the TF card cover, then insert the card into the machine, then install the TF card cover, and finally lock the 3 screws; (pay attention to the direction of the card cover)

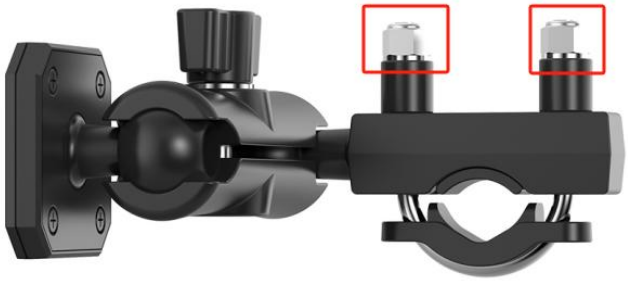


6.Bracket Installation Instructions

1) Install the magnetic quick-release bracket head on the corresponding position of the host as shown.



2) As shown in the picture, remove the two nuts of the bracket with an open-end wrench.



3) As shown in the picture, install the bracket lower cover on the handlebar, then install the bracket upper cover, and then lock the nut.



7.Digital remote control installation instructions

1) Detail of wire control bracket

Remote Control	
Knob + screw M5 + nut M5	

2) Assemble as shown in the following figure:Install the remote control on the motorcycle handlebar and tighten the knob.



8. Step-down line wiring instructions

As shown in the figure, connect the step-down wires: yellow wire (B+) and black wire (ground) to the corresponding wiring positions of the motorcycle;



The detailed instructions are as follows:

Serial	Interface	Illustrate
1	BMW head 3Pin interface	Motherboard power supply interface
2	Buck line	Motorcycle wiring to take power; Note: Make sure the motorcycle corresponds to the A key ACC/ground interface and use the original step-down line.

9. Wiring Instructions

1) As shown in the following figure 1- host to four BMW head lines, Figure 2- front and rear recording, Figure 3- line control, Figure 4- step-down line



2) As shown in Figure 1 below - plug the front and rear cameras and the host into the corresponding BMW connectors and tighten them; (Note that the cable is marked with DVR-F/DVR-R)

Figure 2- Connect the remote control to the corresponding BMW connector of the host and tighten it; (Note that the line is marked with GPS/Key)

Figure 3- Connect the step-down line to the corresponding BMW connector of the host and tighten it; (Note that the line is marked with Power)



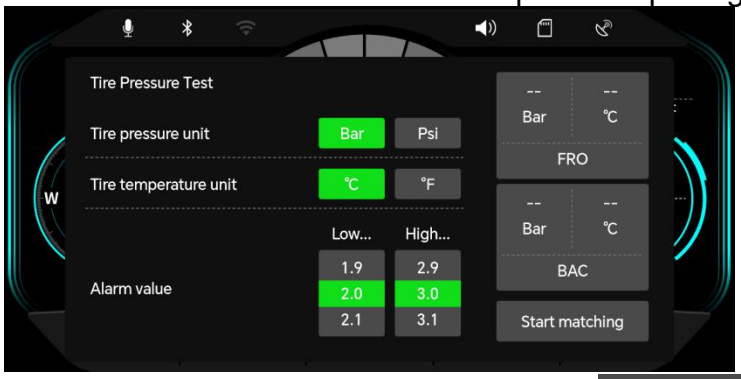
10. Tire Pressure Installation Instructions

1) Tire pressure transmitter and tool kit

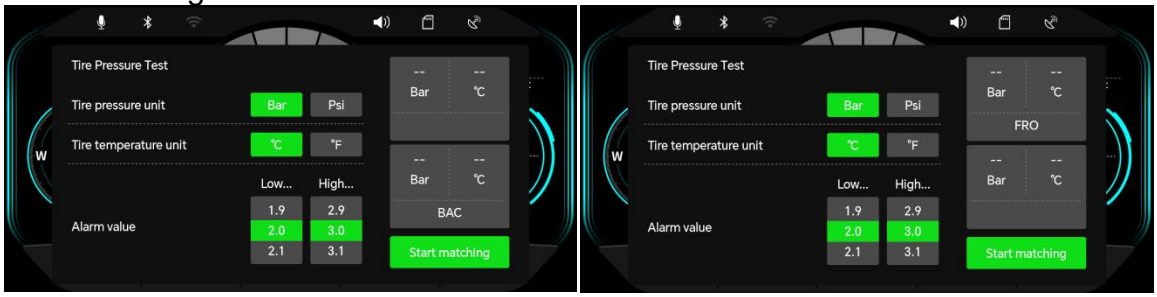
Tire pressure A and B	
Tools and nuts	

2)Tire pressure pairing

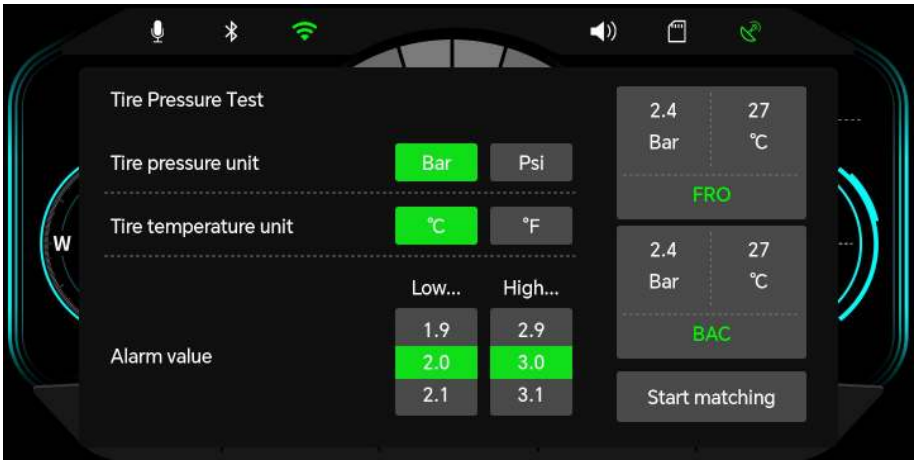
1. Click the main interface "" to enter the tire pressure pairing interface



2. Click "FRO"/ "BAC" The font flashes at this time; click "Start matching" to start matching

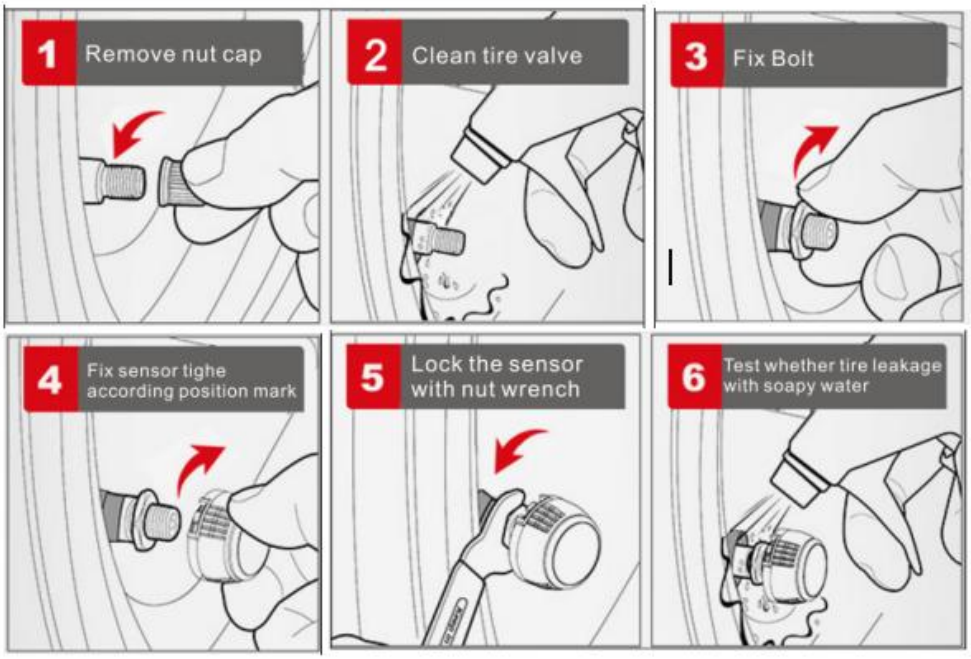


3. Click " Start Matching " , then install the tire pressure sensors respectively. Wait for 10 seconds , and the " Tire Pressure Binding Successful " message will pop up after the matching is successful . After the pairing is successful, the prompt screen is as follows:



4. Sensor installation method





Remark

1) The battery is a CR1632 button battery, which is replaceable.

2) After replacing the battery of the sensor, there is no need to re-match on the receiving host.

11. Installation Instructions for Front and Back Recording

Install the front and rear recorders on the head and tail of the motorcycle respectively and secure them;



12. Overall installation diagram

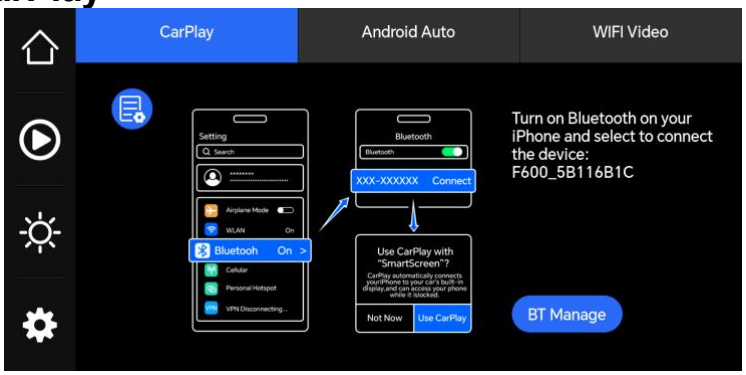


13. Interface Description



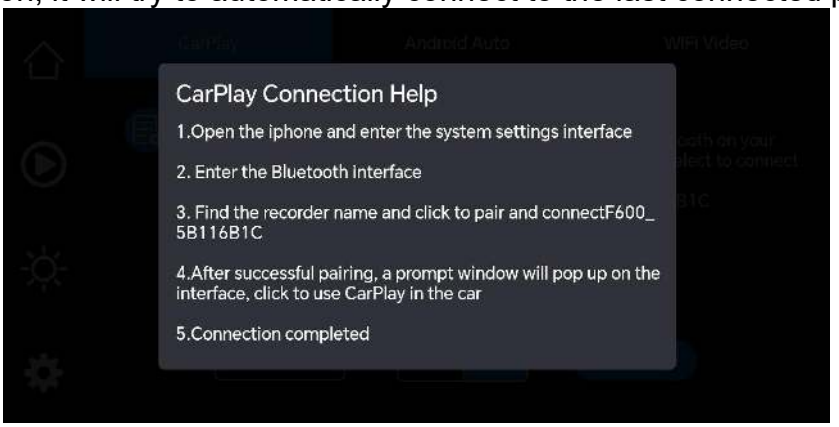
1. Driving recorder : Click to enter the recording interface.
2. Playback : Click to view the video on the video screen.
3. Mobile phone interconnection: various models of mobile phones and car charger screen projection connection.
4. Brightness : Click to adjust the brightness.
5. Settings : Click to set the function.
6. Direction indication: Display driving direction.
7. Status bar: recording, Bluetooth, WIFI, TF card, GPS.
8. Speed: Display real-time speed.
9. Date: Display the current date.
10. Tire pressure: displays the current tire pressure status.

A. Apple CarPlay

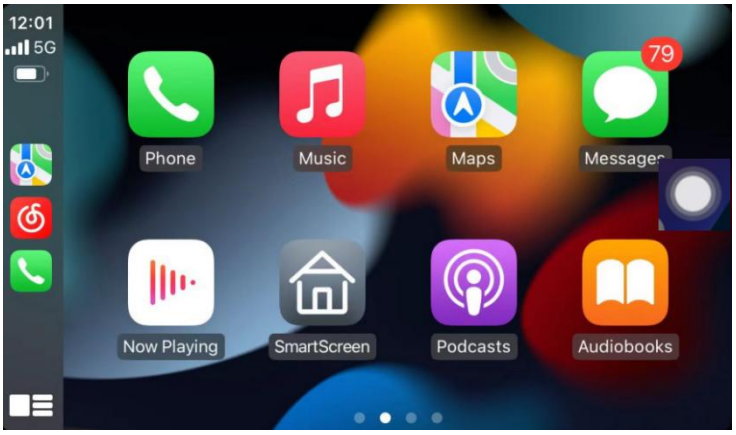


As shown in the figure, click the [] button and then select the [CarPlay] option. First turn on the phone's Wi-Fi and Bluetooth, as shown in the figure above. The machine's Bluetooth will automatically turn on with the name F600 - XXX X. Once the Bluetooth connection is successful, Apple CarPlay can be connected . Click "  " to view the Bluetooth status. (When the machine

is powered on, it will try to automatically connect to the last connected phone)

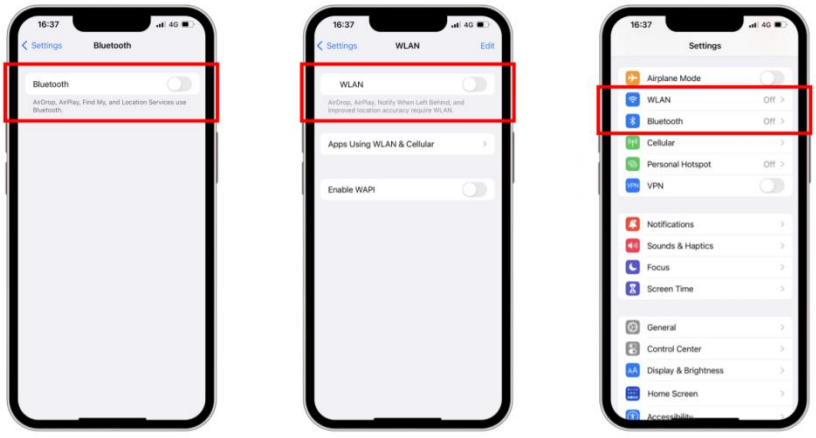


Click the "Details" button to view detailed connection steps and connection FAQs



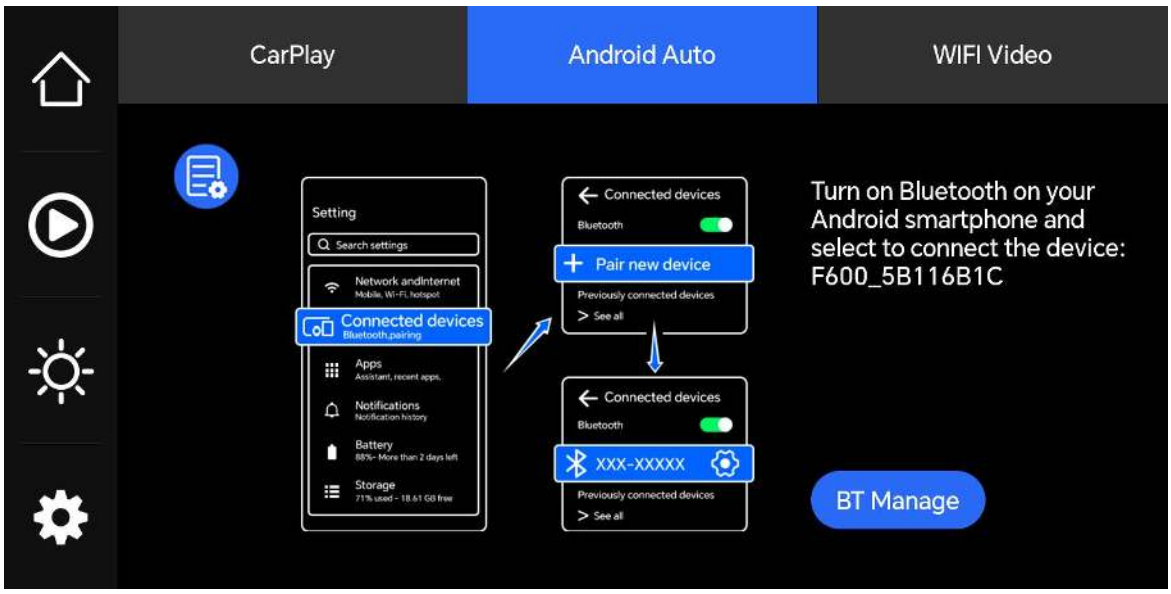
Quick menu: [Return to home page], [Return to recording video screen], [Playback interface], [Brightness adjustment]

(The Apple CarPlay option only supports Apple phones. Please turn off the Bluetooth button first, then turn off the WiFi button in the phone settings to disconnect).



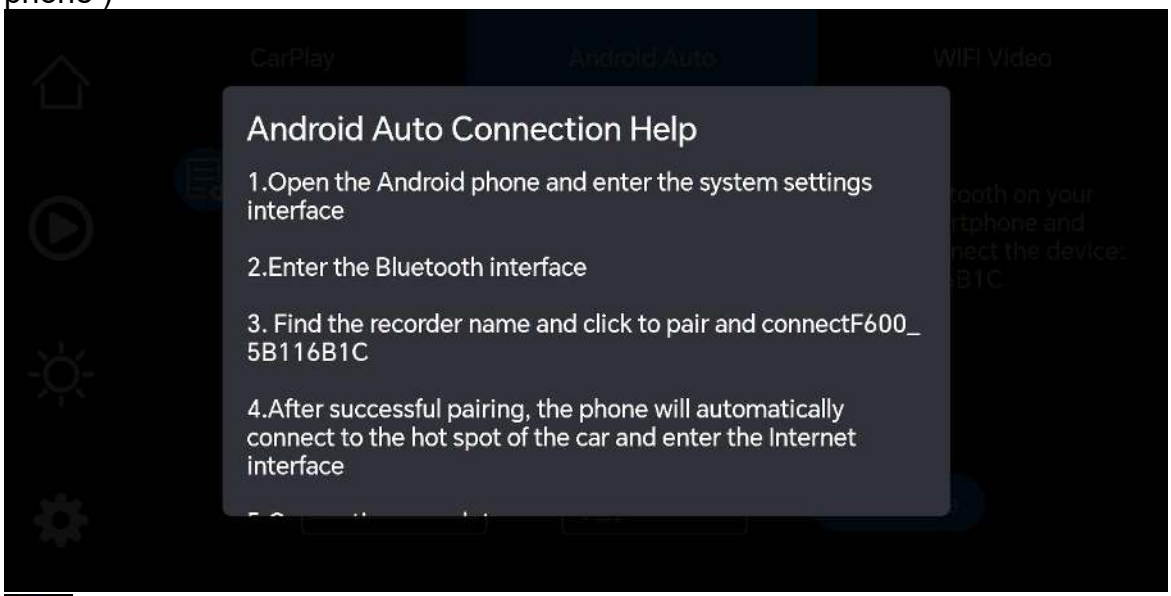
1 2 3

B. AndroidAuto

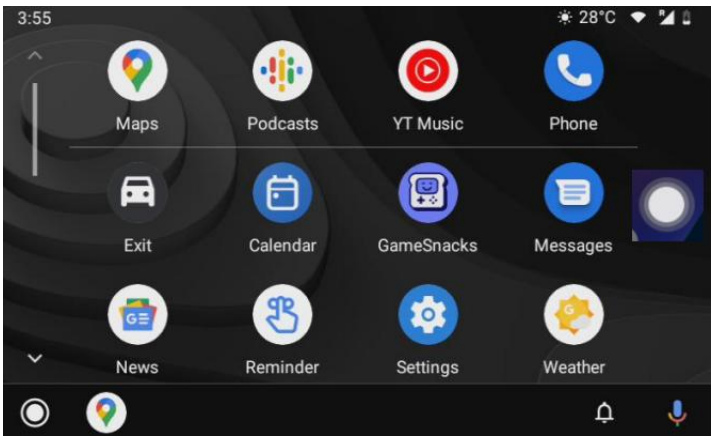


As shown in the figure, click the [ ] button, then select the [Android Auto] option. First turn on the phone's Wi-Fi and Bluetooth, as shown in the figure above. Bluetooth will automatically turn on.

Once the Bluetooth is successfully connected, you can connect to the Android Auto system . Click " BT Manage " to view the Bluetooth status . (When the machine is turned on, it will try to automatically connect to the last connected phone)

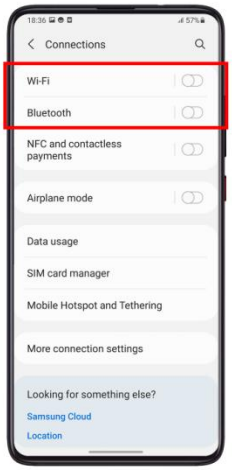


Click the "Details" button to view detailed connection steps and connection FAQs

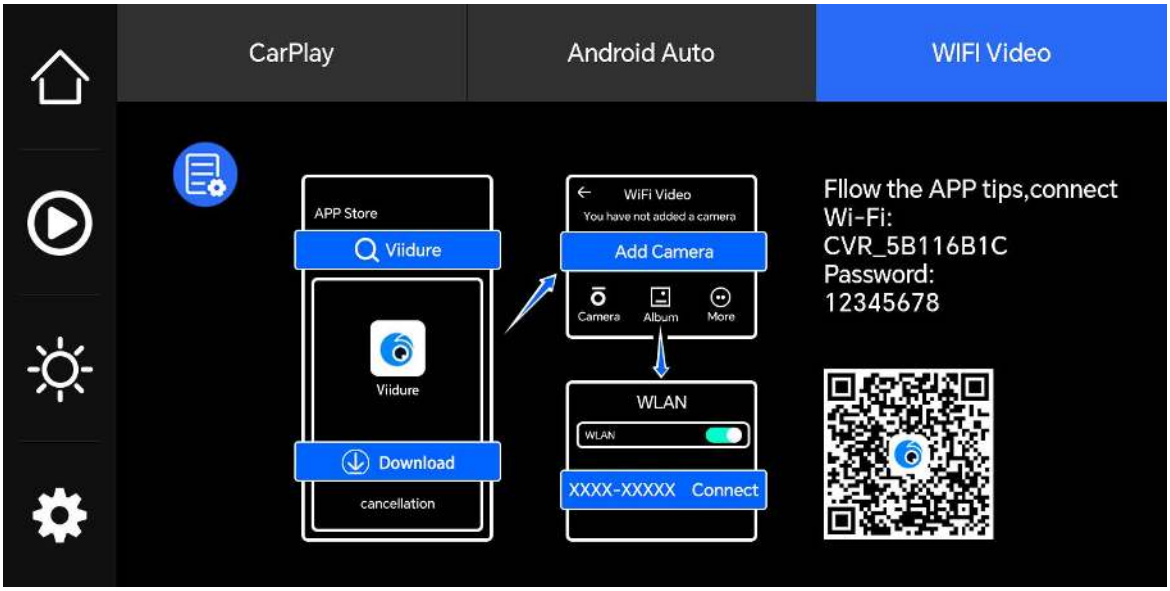


Quick menu: [Return to home page], [Return to recording video screen], [Playback interface], [Brightness adjustment]

(The wireless Android Auto option only supports Android phones. Please forget Bluetooth in phone settings and turn off the WiFi button to disconnect).



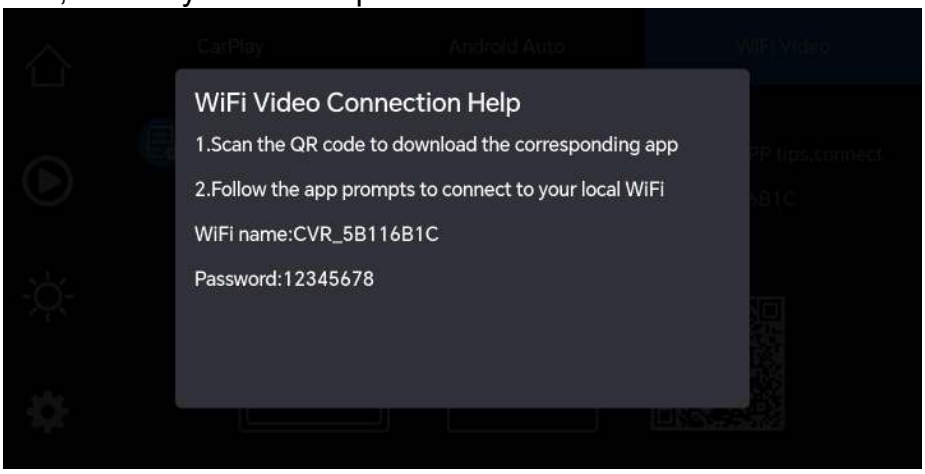
C. Wifi info



As shown in the picture above, first scan the QR code and download the corresponding application. After downloading, open the application and connect to the machine's WiFi according to the prompts. WiFi name: CVR -XXX X, password is as shown on the machine.

After connecting, the machine will enter the recording screen and no operations

can be performed. You can watch or download recorded videos, set machine parameters, etc. on your mobile phone.

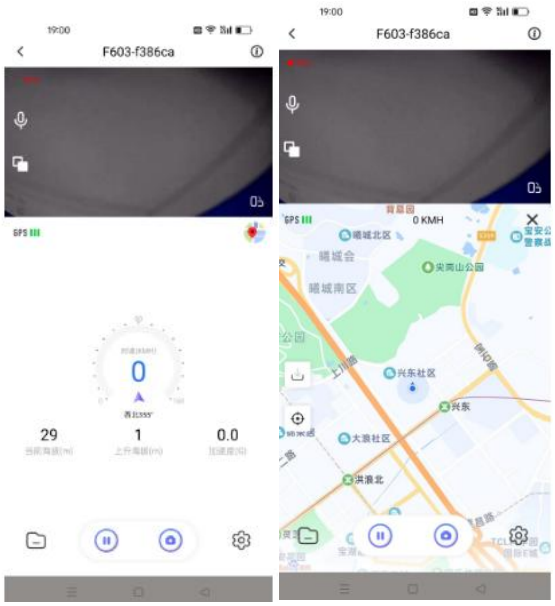


Click the "Details" button to view detailed connection steps and connection FAQs

(Turn off the WiFi button on the phone to disconnect. You can operate on the machine one minute after being disconnected).



App can view the trajectory in real time



D. Driving recorder

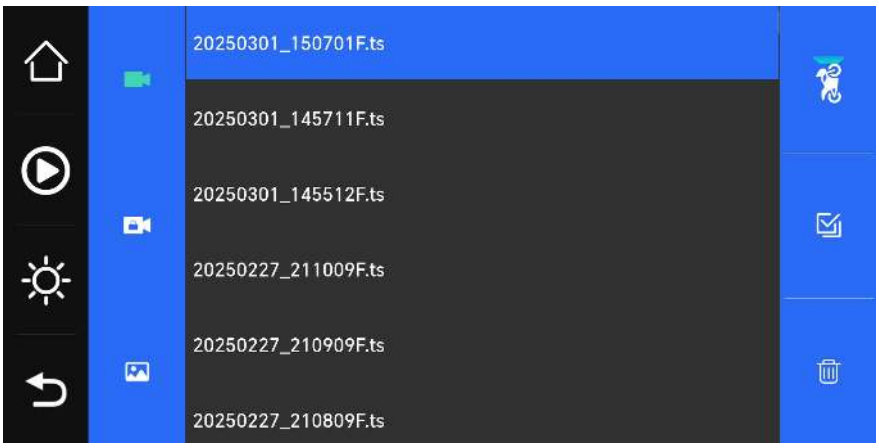


As shown in the figure above, the camera image will not be displayed on the main page. You need to click the [ ] button to view the camera image. When a card is inserted, the system automatically enters the recording mode. When recording, [Dash Cam]The red dot in the button will flash

	Click to start recording, click again to stop recording
	Click on the video to lock it
	Click to capture a photo
	Click to enter the playback interface
	Click to turn on or off the recording sound
	Click to switch the camera distribution screen.
	Click to return to the main interface

E. Video playback

As shown in the figure, click the [ ] button to enter the video playback interface

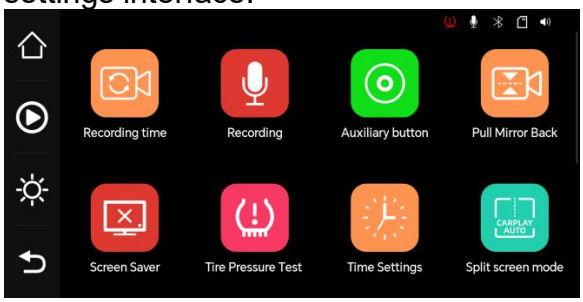


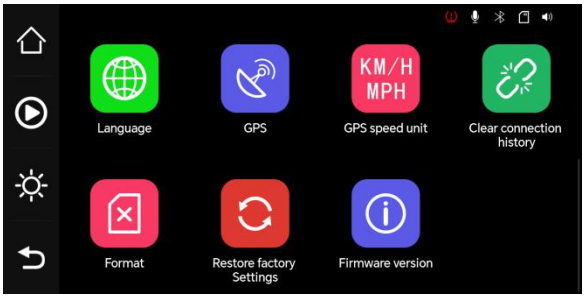
As shown in the figure, click [Playback] button to enter the video playback interface, you can click the top file to play the video

	Looping video captured by the front-facing camera.
	Looping video captured by the rear camera.
	Click on the video that was saved after locking.
	Click to view pictures taken with the one-touch camera function.
	Click the [Delete] button to delete.

14. Settings

As shown in the figure, click the [Settings] button on the homepage to enter the settings interface.





 Video duration	Click [Loop Recording] to enter the video segmentation time setting: Video segmentation time options: 1 minute/3 minutes/5 minutes Minutes. The system default is 1 minute.
 Recording	Click [Recording] settings: You can choose to turn it off or on.
 Auxiliary button	[Assistive Button] This is a hover window button in your phone's screen casting mode, you can choose to turn it off or on.
 GPS Information	Click [Rear Mirror] to enter the settings: You can choose to turn it off or on. This option makes it easier for customers to install the camera flexibly.
 Turnoff screen	Click [Turn off screen] to enter the screen saver time setting: Video segment time options: 1 minute/3 minutes/5 minutes Minutes. The system default is off.
 Tire pressure	Click [Tire Pressure] to enter the tire pressure pairing interface.
 Time settings	Click Date and Time to enter the settings: year, month, day, hours, minutes/seconds , and time zone.
 Split Screen Mode	Click [Split Screen Mode] to select split screen or full screen. The default is full screen.

 Language	Click [Language] to enter the settings: Language can be set: Simplified Chinese/Traditional Chinese/English/Russian /Spanish/French/German/Italian/Portuguese /Japanese/Korean etc.
 GPS	Click [GPS] to view GPS signal value.
 Speed Unit	Click [Speed Unit] to switch between MPH and KM/H.
 Clear connection history	Click [Clear Connections] to clear the connection history with your phone (Bluetooth, WIFI, Screencast).
 Format	Click [Format Memory Card] to enter the settings: This option will format all data information on the inserted SD card. When inserting the SD card for the first time When you insert a card, you need to format it. manually to ensure that the card has sufficient capacity.
 Restore factory settings	Click [Restore Factory Settings] to enter the settings: Restore factory settings, the system will restore all settings to the initial state.
 Software Version	Click [Software Version] to enter the menu: This option allows you to see the current basic version for easy confirmation.

Frequently asked questions

Serial number	Question	Solution
1	Unable to start (support12 - 24 V Automotive use, cannot use high voltage)	① Check whether the second line of the step-down line is firmly in contact or damaged. ② Check whether the power plug fuse is disconnected or burned.
2	Touch does not work	① Touch is invalid when booting , wait for normal booting Try again. ② Check if the touch screen is damaged. Sharp objects touching the screen may cause scratches and damage.
3	Camera No image	① Before use, please purchase the camera provided by the manufacturer. Image head. ② Check whether the BMW head interface is loose. ③ Check whether the camera format matches.
4	Machine heating, Stuck phenomenon	Please avoid exposure to sunlight or insolation during use. When the temperature is too high, the device will automatically protect , Stop working.
5	Carplay unable to connect	①The first connection takes longer. ②Only iPhone supports Carplay. ③ Check whether the WiFi and Bluetooth functions of the mobile phone are normal. ④ Enter the phone settings General Carplay, Delete all records and reconnect. ⑤Restart your iPhone and reconnect.

6	Android Auto unable to connect	①Only supports Android phones. Upgrade the phone to the latest version. ③The VPN function cannot be enabled during screen projection. ④ Check whether the WiFi and Bluetooth functions of the mobile phone are normal. ⑤Restart your Android phone and reconnect.
7	WIFI unable to connect	①Try to upgrade the application version. ② Check whether the machine SD card exists. ③ Check whether the machine mode is switched to WIFI into mode.

Product Specifications

Model	F93S DVR 7 inches
Wireless Capabilities	Apple Carplay, Android Auto. Wifi Video
Screen	7 inches, 1024*600
Storage	SD to 256G Cla ss 10
Wireless Module	Wifi , Bluetooth
Camera	Front and rear dual camera
Microphone	Built-in
GPS	Support
Tire pressure	Support
Remote Control	Support
Operating voltage	Input: 12V-24V Output: 5V2.5A
Power	No more than 12.5W
Size	191.3*117.2*46.6mm
Weight	About 445g
Material	ABS/PC