

### Statement

- This manual is designed for the use of FCAR products; it cannot be copied or stored in any form (electronic, mechanical, photocopying, recording or otherwise) without prior written permission being secured by Shenzhen FCAR Technology Co., Ltd.
- This manual is intended for professional vehicle repair technicians. This manual provides the operation methods for FCAR products only, and the company accepts no responsibility for the consequences caused by abusing the operation methods on other equipment.
- The company shall not undertake any responsibility for accidents caused by the user personally or the other person, or costs and expenses due to equipment damages, equipment loss that are caused by the user's abuses, misuses, arbitrary changes or repairs, operations of the equipment not in accordance with the manual requirements. This manual is written in accordance with the existing configuration and functions of the product, it's subject to changes without notice if the product adds new configuration and functions.
- The company has registered the  trademark in mainland China. The company declares that the ownership of the registered trademark, service mark, domain name, logo, and company name in countries which they have not yet been registered belongs to the company. Other products and their company name trademarks mentioned in this manual belong to the original registered company. The trademarks, service marks, domain names, logos, company names or other companies mentioned may not be used without prior written permission of the owner.

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### FCAR Series Product Operation Manual Instruction

- Before using FCAR series product, please read this manual carefully.
- This manual is based on the current product functions and configurations and it will subsequently be amended if any new function and configuration are added. New specifications can be downloaded at FCAR website (<http://www.fcar.com> ).
- Please carefully read the "Note" "Remark" and "Description" of the user manual to ensure that users can use our products properly and safely.

**For more product introductions and help please visit the official website (<http://www.fcar.com>).**

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## Chapter I Production Introduction

### 1.1 Introduction and Features for F6 Plus

Petrol version of F6 PULS is the diagnostic equipment for almost every gasoline engine vehicle in the world. It has the industrial tablet hosts with the features of waterproof, anti-drop, and anti-oil pollution, which can be used under a variety of harsh environments to meet users needs;

It has a wild range of diagnosis. Chinese cars, Asian cars, European cars, American cars, and the standard OBD II models all can be diagnosed by it. Also, it diagnoses the 12 common special functions, etc.;

It contains comprehensive functions no matter fault diagnosis or maintenance help or synchronous repair learning, etc.;

It supports one key upgrade. You can update model procedures to ensure the most complete and most accurate diagnosis anytime and anywhere in the state of the network connection;

It can remote diagnose your vehicles. FCAR engineers can assist you with vehicle diagnosis, maintenance and other guidance.

### 1.2 Care and Maintenance

#### 1.2.1 Storage Environment

- 1) Store the product on a flat and dry place with suitable temperature.;
- 2) Never put the product in direct sunlight or near to the heating source;
- 3) Never put the product in a magnetic field;
- 4) Avoid smoke erosion, water and oil splashing;
- 5) Avoid shock, dust, moisture and extremely high temperature;
- 6) If main unit is dirty, power off the machine, then clean the housing case with soft cloth.

#### 1.2.2 Host and VCI box protection

- 1) Handle it with care and avoid collision;
- 2) Be careful to plug and unplug the main cable and diagnostic connector. Tighten the screw before operation to avoid unexpected disconnecting and/or damage to the diagnostic port;
- 3) Put back the test cable and connectors, and other accessories to the box to avoid loss.

#### 1.2.3 Touch screen Care

- 1) Dust may be accumulated on the LCD screen due to electrostatic. You are suggested to buy the special LCD screen wiper to clean the screen gently;
- 2) Don't wipe the screen with bare finger to avoid fingerprint attached. Never use chemicals to clean the screen;
- 3) Never put FCAR product close to the electromagnetic wave products to avoid any effect on the screen;
- 4) Never put FCAR product in direct sunlight or ultraviolet radiation for long time to avoid shortening the service life of the screen.

### 1.2.4 Precautions

- 1) Forbid switching main unit frequently and cut off the power suddenly, power supply instability and abnormal power supply etc.;
- 2) Unplug the power after usage in case of the aging of the product;
- 3) Avoid using this product in an environment with volatile alkali chemical air, so as to avoid host hardware corrosion;
- 4) Never clear product with chemical solubility reagents like banana water, engine cleaning agents, gasoline etc;
- 5) Don't put anything on the screen to avoid any damage;

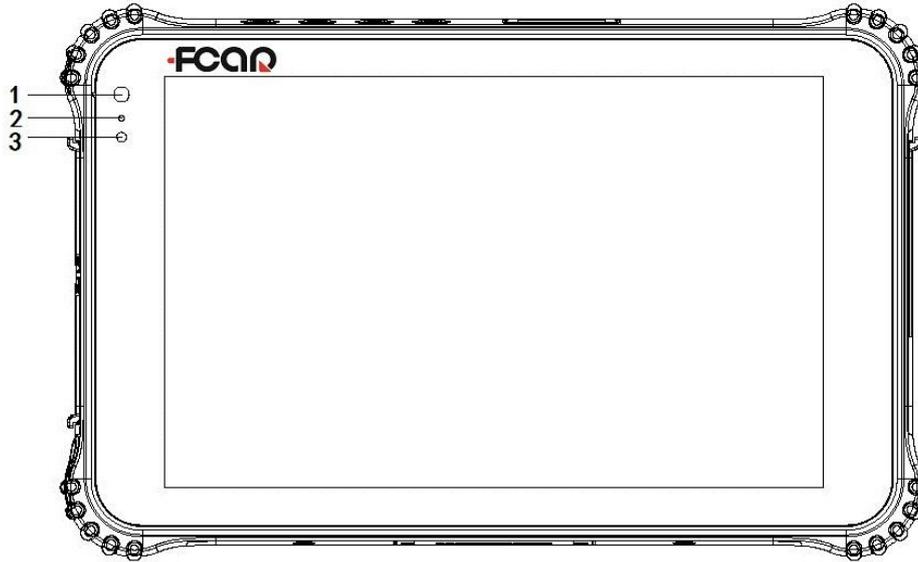
### 1.3 Help

Provided with supporting service, FCAR series product is easy and simple to maintain. The marketing network that spread over various regions will provide you with the most convenient and efficient service from purchasing, using, upgrading, maintenance etc.

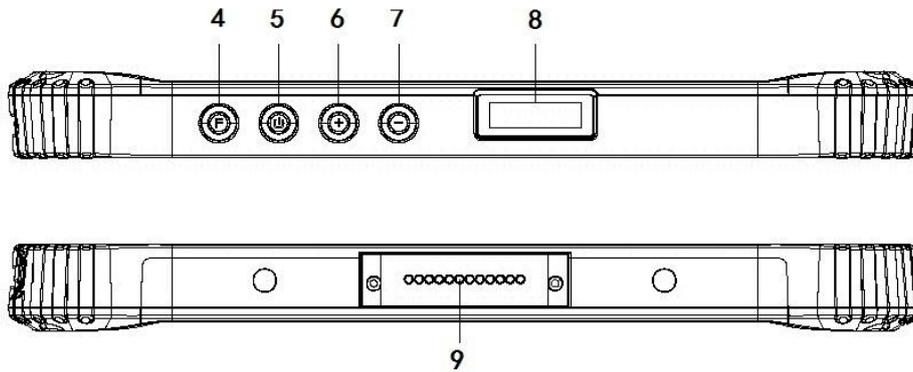
FCAR provides users with online help. If you want to know the company's latest product, or automotive diagnostic information, you can log on "FCAR" Website via the Internet: <http://www.fcar.com> and contact us.

Chapter II F6 Plus Product Structure

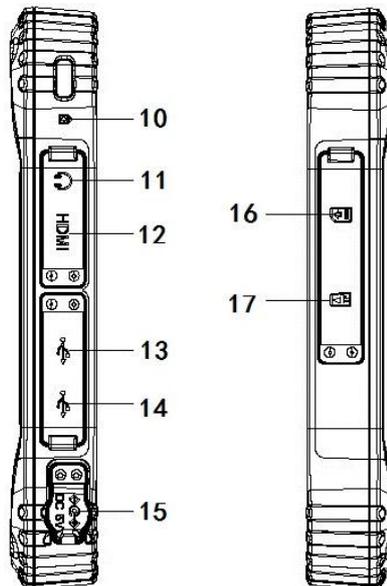
2.1 F6 Plus host structure description

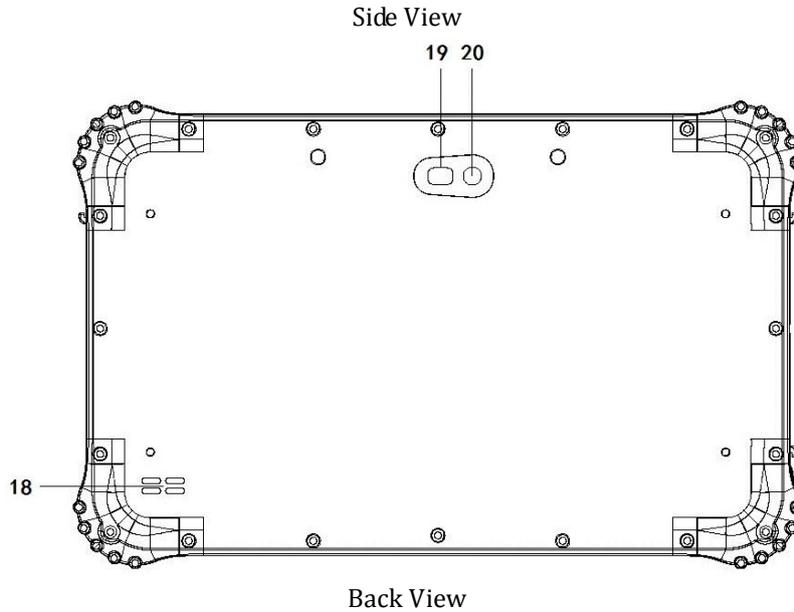


Front View



Top & Bottom





**Host Interface Description**

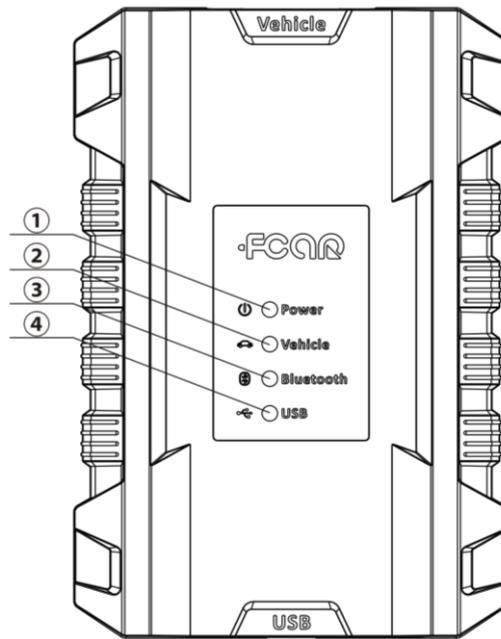
No.	Name	No.	Name
1	Front camera	11	Headphone jack
2	charging indicator	12	HDMI interface
3	Light-sensitive sensor	13	OTG USB port
4	(Reserved)	14	USB A port
5	Power switch	15	Power charging interface
6	Volume +	16	SIM card slot (reserved)
7	Volume -	17	TF card slot
8	(Reserved)	18	Trumpet
9	Docking port	19	Rear camera
10	Overflow port	20	(Reserved)

**2.2 F6 Plus host parameter**

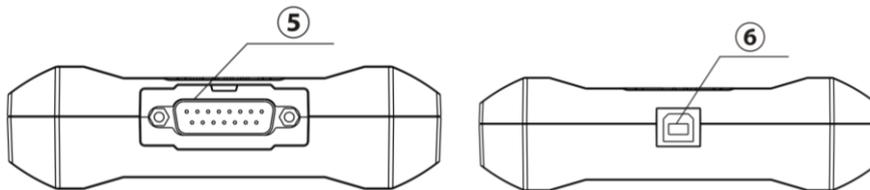
**Host Parameter**

<b>Form</b>	three-proofing IP67 protection class
<b>Dimension</b>	228mm*147mm*16.5mm
<b>Display Screen</b>	8-inch, 16:10, 800 * 1280 IPS screen
<b>Touch Screen</b>	5-dot capacitive screen, G+G, hardness 7H+, scratch-resistant, TP thickness: 1.1mm, COF, support handwriting
<b>Camera</b>	Front 2.0MP with work indicator, rear 5.0MP
<b>CPU</b>	Intel Bay trail-T (Quad-core), Z3735F, 1.86GHz
<b>GPU</b>	Intel HD Graphic (Gen7)
<b>RAM</b>	RAM 2GB, ROM 32GB

Chapter III VCI Box Structure



No.	Name	Description
①	Power indicator	On when powered on (connected to vehicle)
②	Diagnostic indicator	Blinks when communicated with vehicle connections
③	Bluetooth indicator	On when connected to a tablet
④	USB indicator	On when connected to a tablet



No.	Name	Description
⑤	DB15 interface	Connect to main test line; Connect the vehicle through the diagnostic connector
⑥	USB interface (B shape)	Connect with tablet or upgrade VCI box

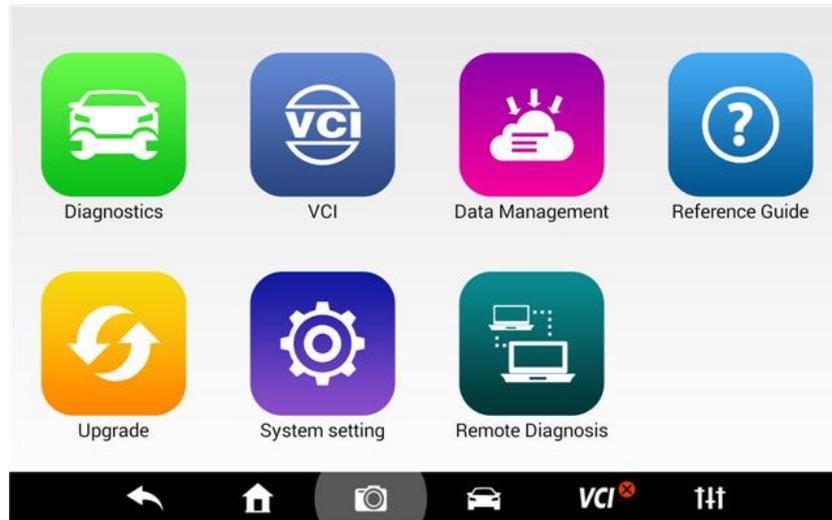
VCI Box parameters

<b>Processor</b>	Cortex-M3 Micro-controller
<b>Frequency</b>	100MHz
<b>Processor model</b>	LPC1768
<b>Flash memory</b>	512KB
<b>RAM</b>	64KB
<b>Bluetooth</b>	Support for Bluetooth 2.0, Bluetooth 4.0

## Chapter IV F6 Plus host menu description

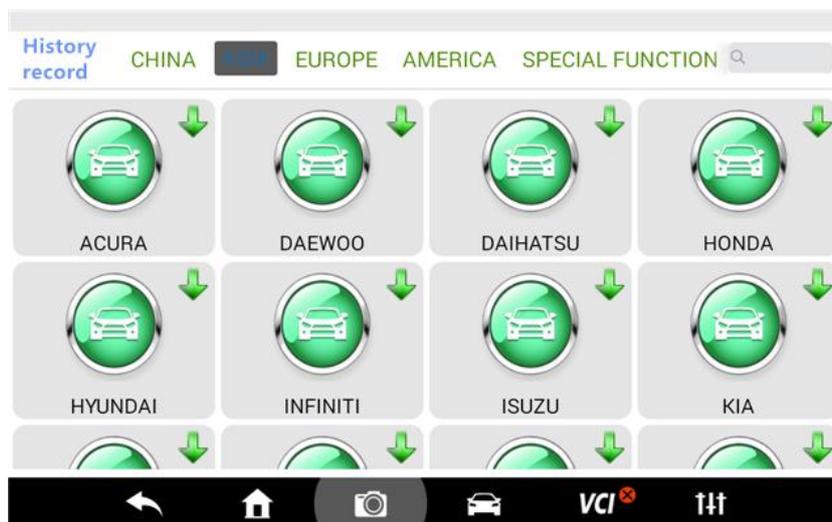
Power on the host (press for 5 seconds) through the power switch mentioned above;

Enter the main interface:



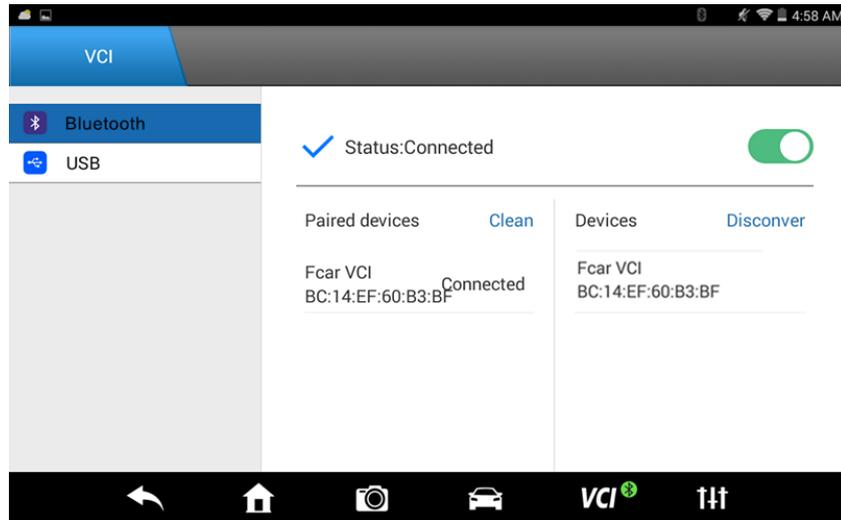
### 4.1 Vehicle Diagnosis

Enter from this [Vehicle Diagnosis] menu to perform vehicle diagnosis. A series of vehicles fault diagnosis can be carried out. Since there are different models of the product, such as petrol version version, please subject to the actual display menu.

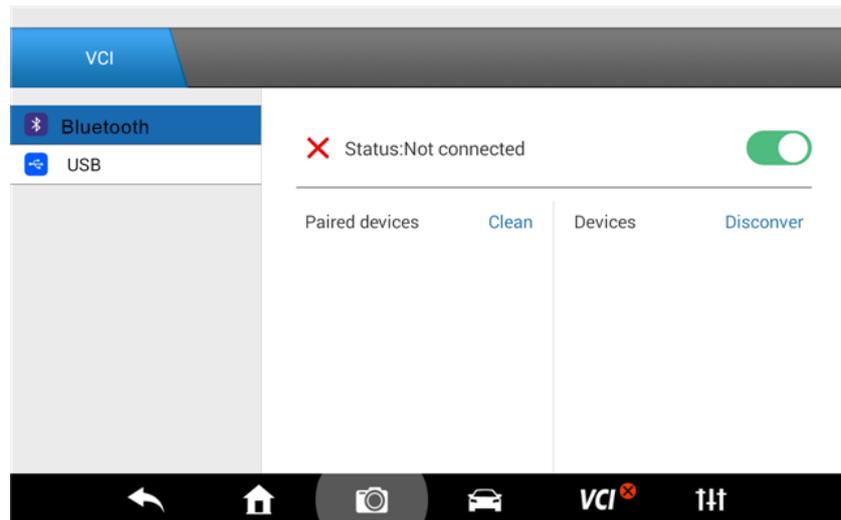


## 4.2 Vci Connection

1. [Connection Method]-Bluetooth;

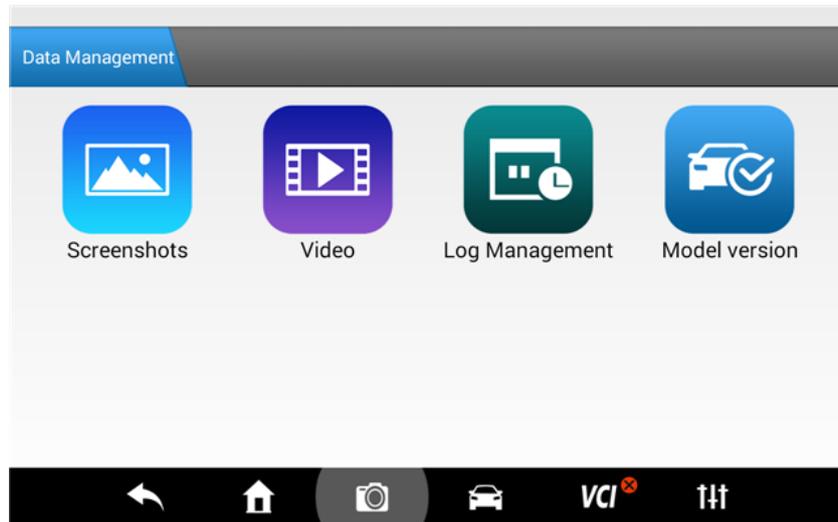


2. [Connection Method]-USB;



## 4.3 Data Management

Data management: storage location for screen shots, video, test logs, vehicle version path, etc.; for user's reference.



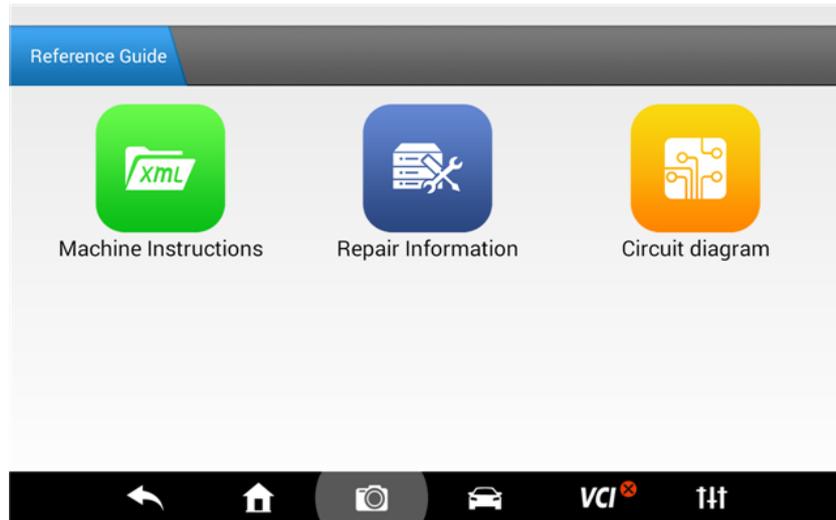
#### 4.4 Remote Diagnosis

This function allows our technical staff to connect to your host through the network, remotely to help you diagnose the vehicle.



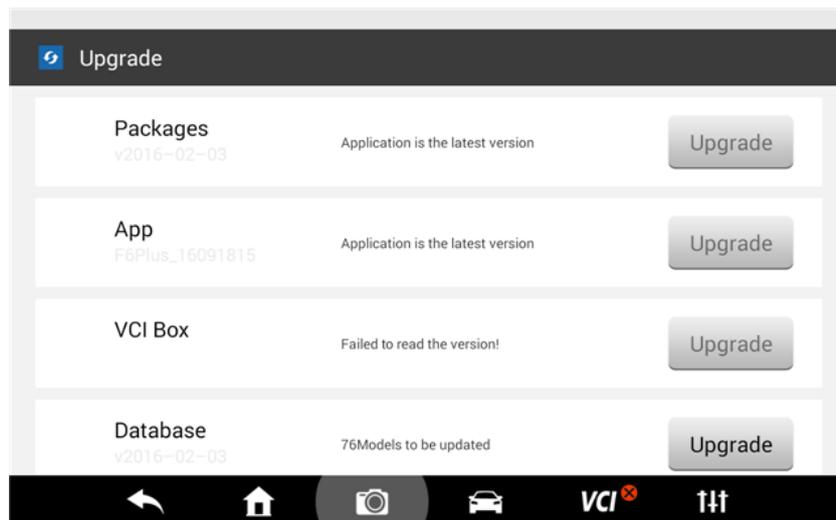
#### 4.5 Reference Guide

Here we have built-in product instructions, maintenance information, circuit diagrams and other information for the user to learn.



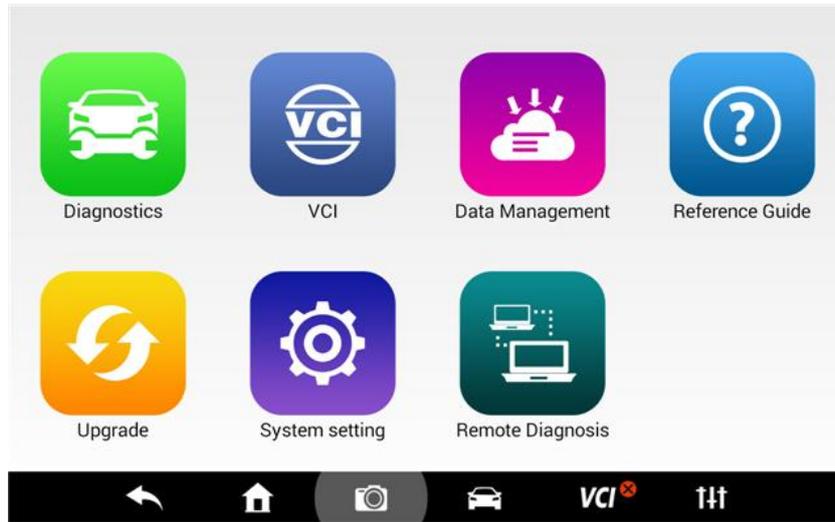
### 4.6 Upgrade

When connected to the Internet via Wi-Fi or cable interface, upgrade the diagnostic software to improve the product performance timely.



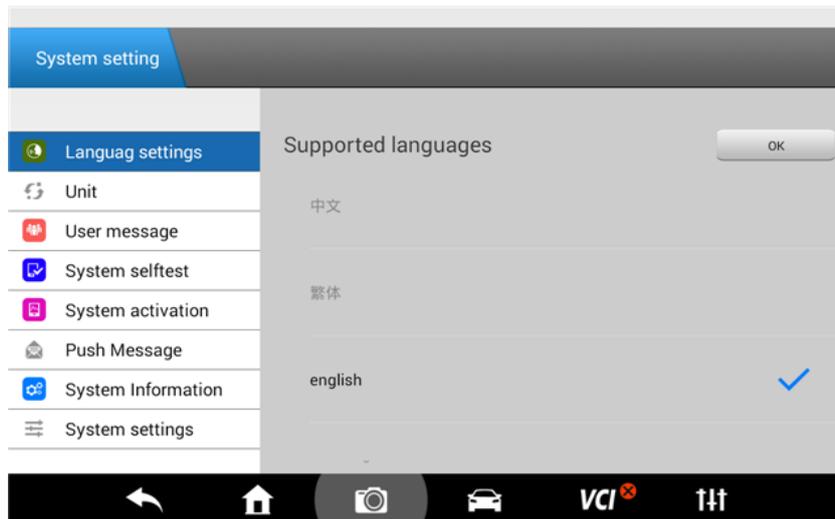
### 4.7 Settings

Set the system Language, Units, User Info, Self-Test, Activation, Print Settings, Push Notification, About Us and other functions.



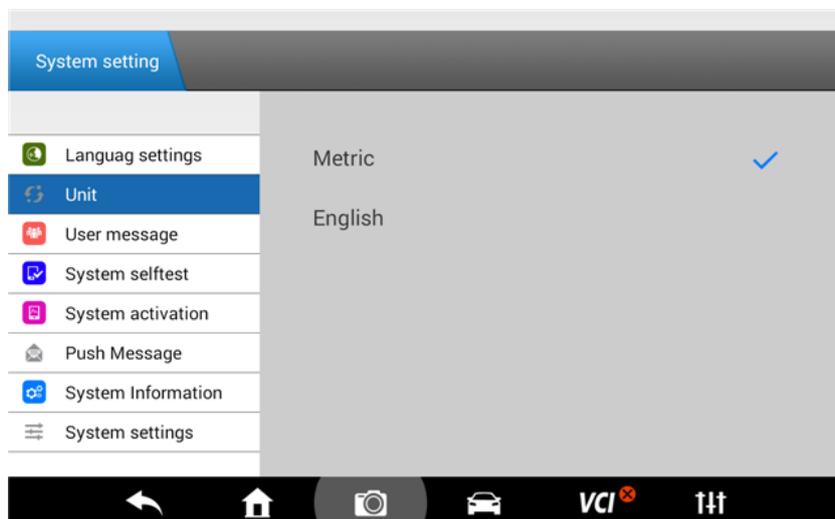
### 4.7.1. Language Settings

Our products support multiple languages. You can set languages purchased.



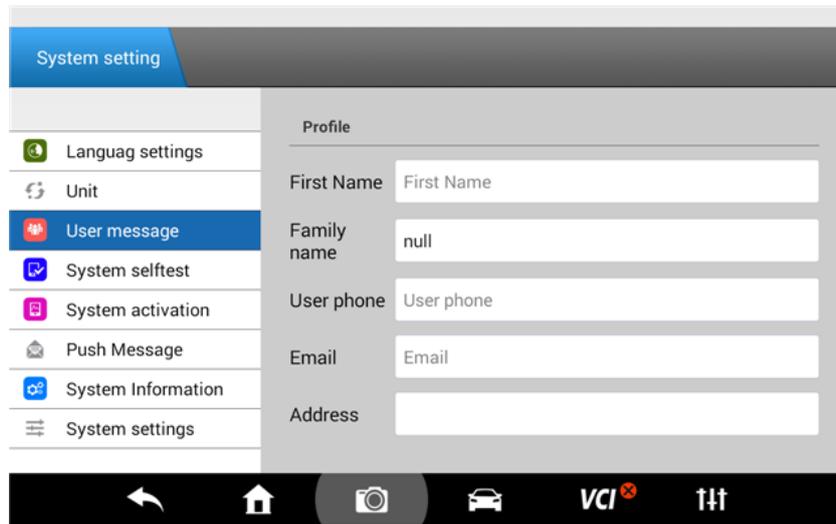
### 4.7.2. Unit

Set the live data units in diagnostic software. You can select Metric or English as needed.



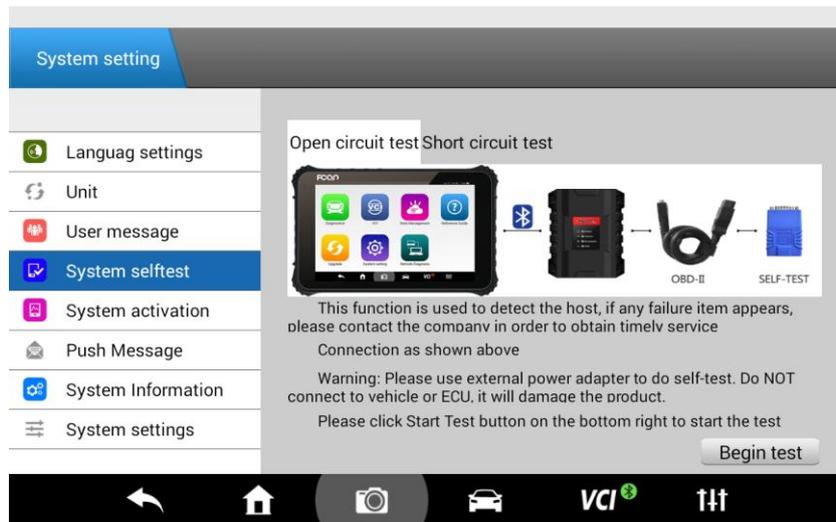
### 4.7.3. User Information

Set you personal information: name, phone, email, address, and so on.



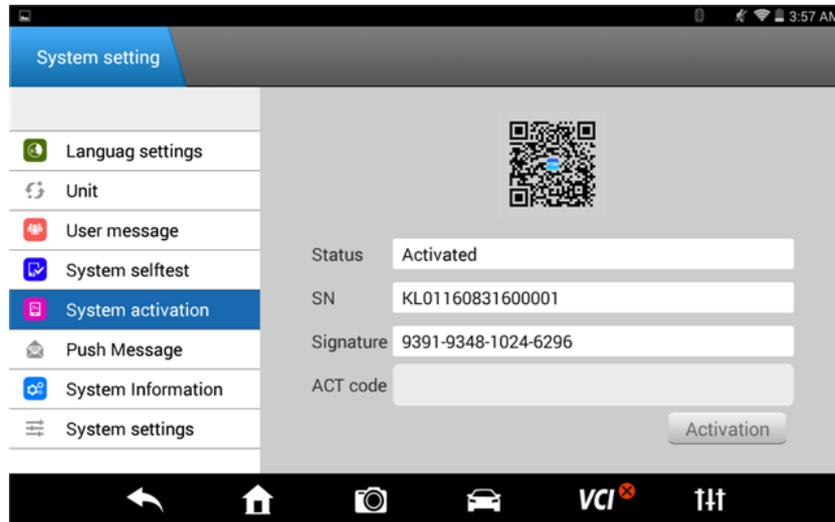
### 4.7.4. Self-Test

You can check the open circuit or short circuit of the main test line and OBD-II connector.



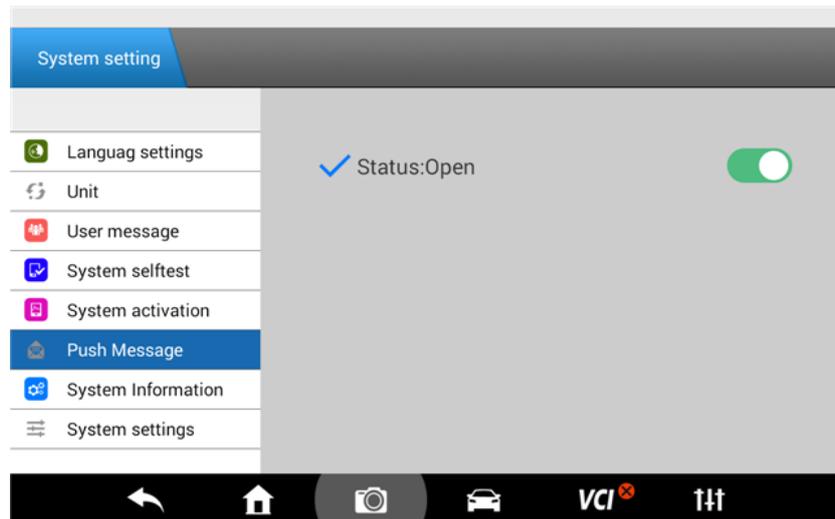
### 4.7.5. ACTIVATION

The product has a usage restriction of limited times when shipped. After your purchase, you can permanently activate the product.



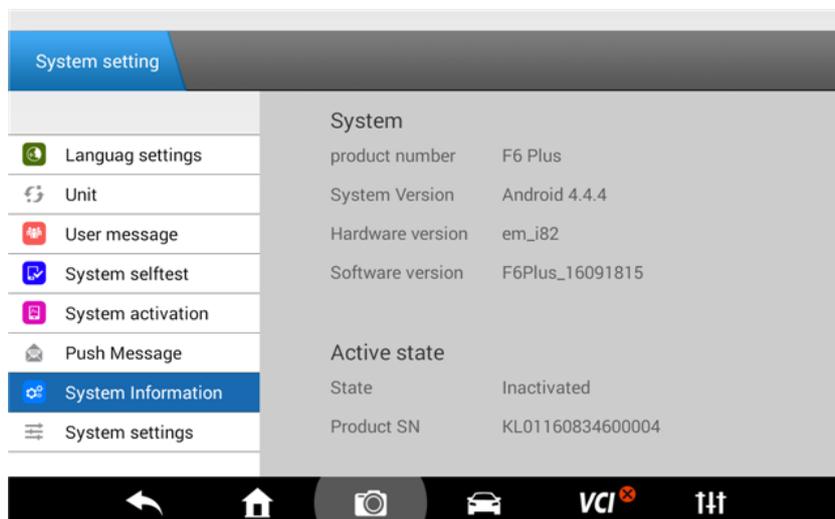
**4.7.6. PUSH NOTIFICATION**

This function provides you industry dynamics, company training information, technical data and other services.



**4.7.7. SYSTEM INFORMATION**

It is about the system information, activation status, storage status, etc.



### 4.7.8. SYSTEM SETTINGS

Host system settings



## Chapter V Vehicle Diagnosis

### 5.1 Connection method of host and VCI

Connect the VCI box to the vehicle to be diagnosed via the main test line and diagnostic connector

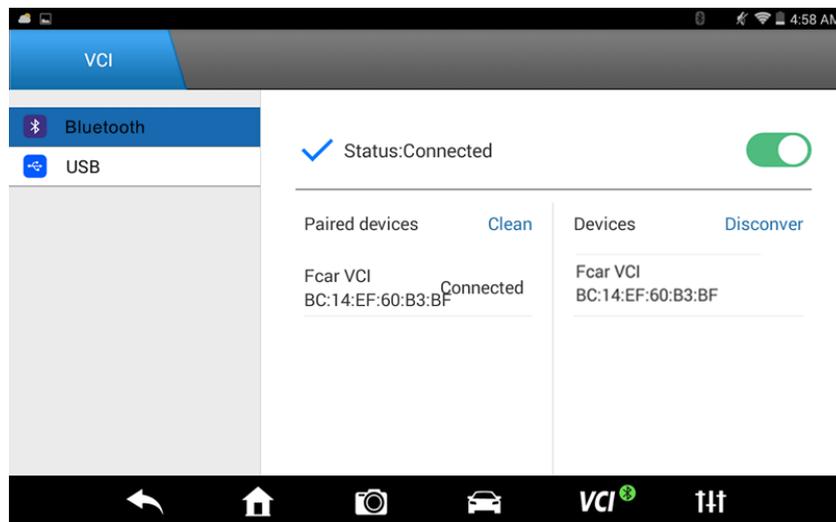


Turn on the machine, enter [Settings]-[VCI connection]. It can be connected via Bluetooth and USB cable:

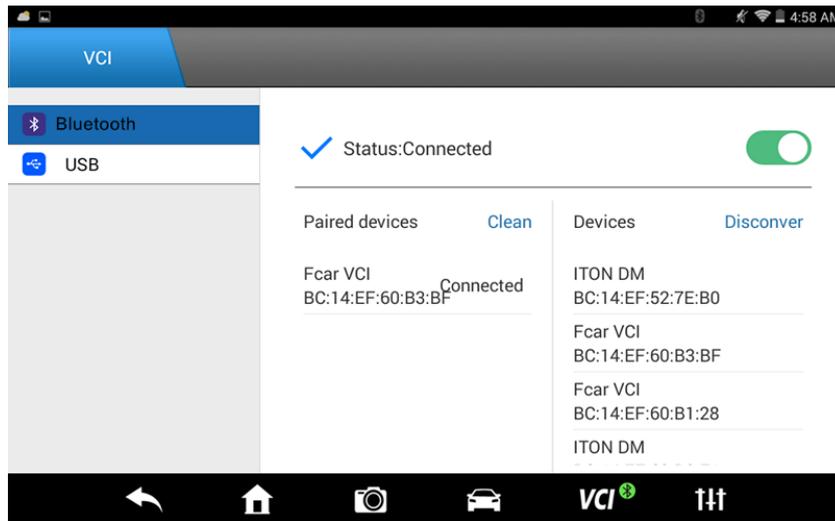
#### First: Connect the host with VCI box via Bluetooth

1. It is default paired and will automatically connect when used.

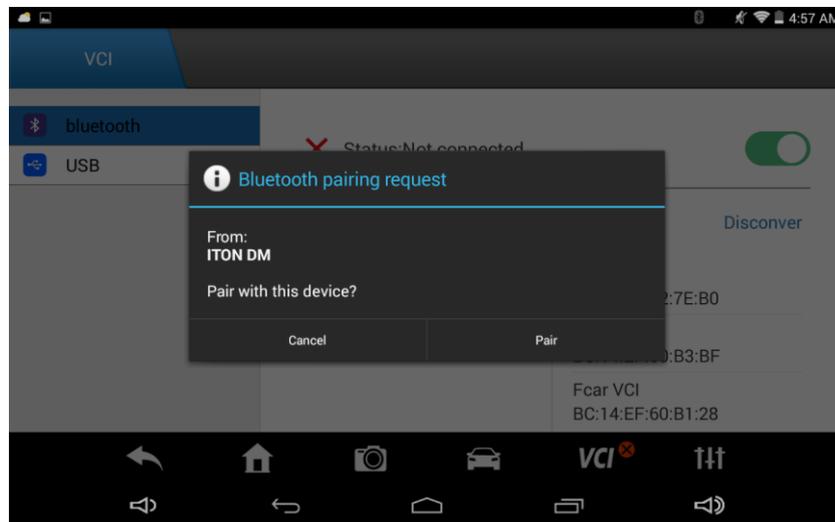
If the VCI indicator is not connected, click on "Search";



2. Wait a minute and the ID of VCI box connected to the vehicle can be found. Click Connect to pair;

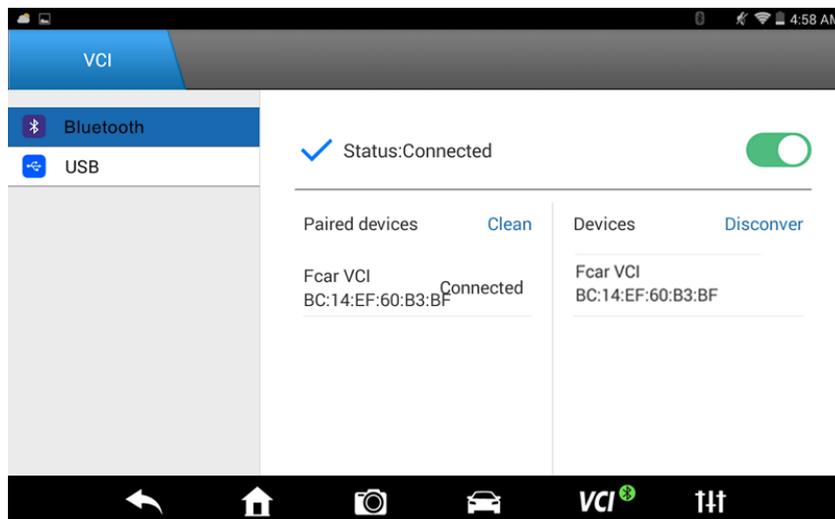


3. Click "Pair";



4. After the pairing is successful, VCI Bluetooth lamp on the host will light, and the Bluetooth indicator on the VCI box will also light, which means successful connection.

When the connection is OK, F6 plus displays . It will automatically pair next time you use it, and you do not need to set again.

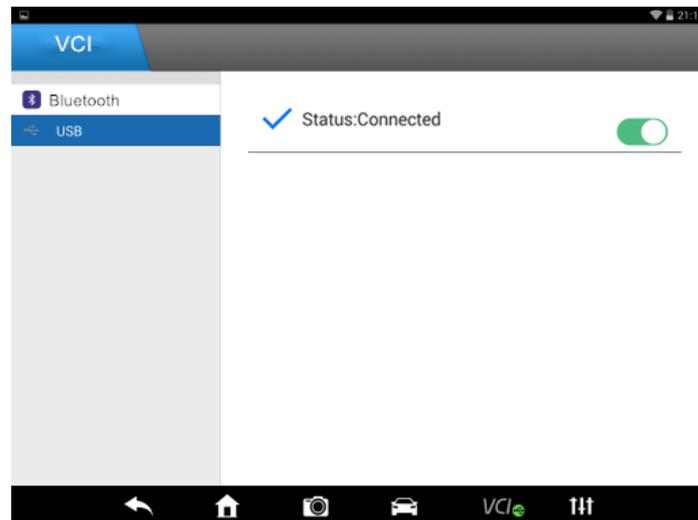


The Bluetooth indicator on the VCI box is green, as shown in the following figure.

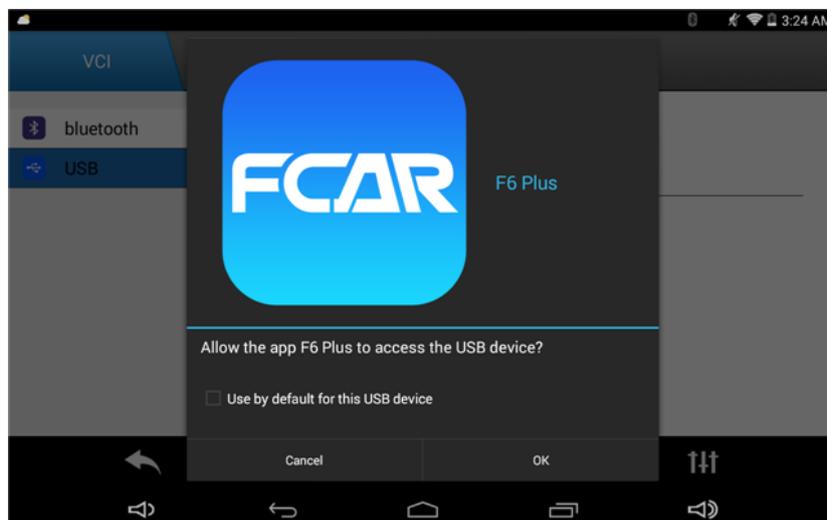


### Second: Connect the host and VCI box via USB data cable

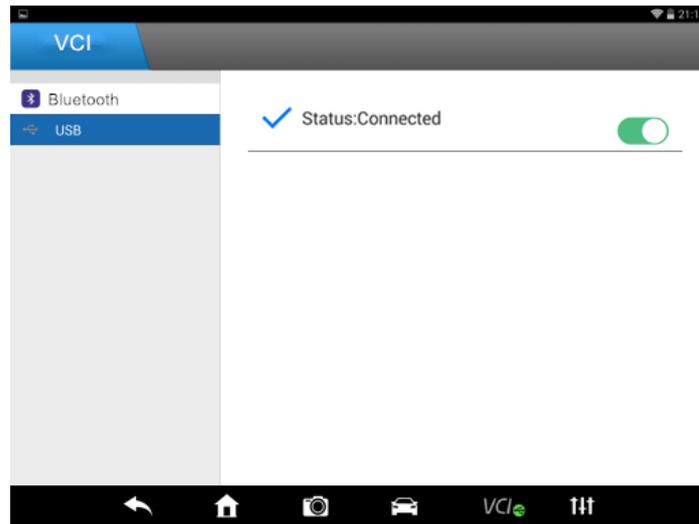
1. Select USB, status is "ON"; connect the VCI box and the F6 Plus main unit with the USB cable in the package.



2. It will suggest whether to use USB to connect F6 Plus, please click "OK";



3. The USB indicator on the VCI box is green, indicating successful connection; as shown in the following figure.



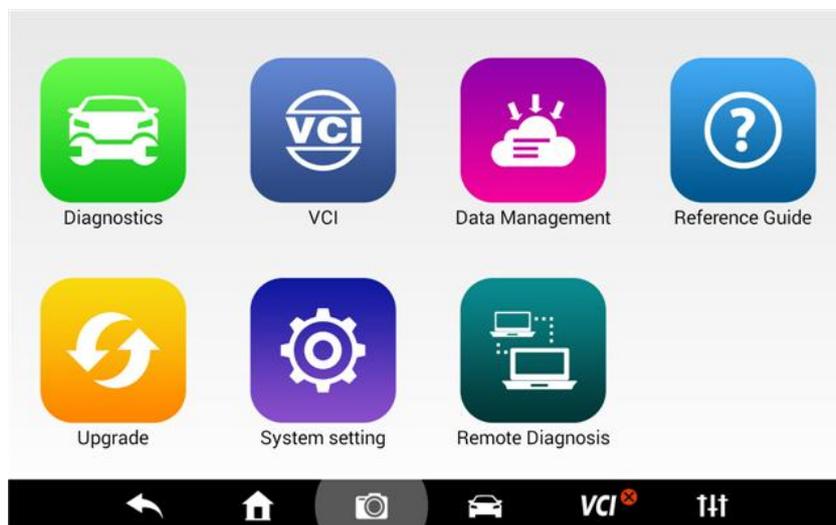
The USB indicator on the VCI box is green, as shown in the following figure.



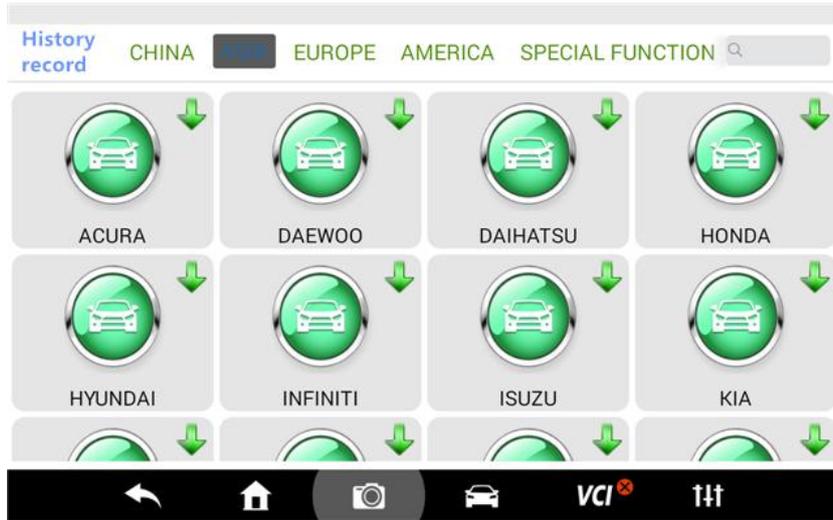
## 5.2 Vehicle Diagnosis

The following is an introduction to the F6 Plus petrol menu. Real car test Honda Fit .

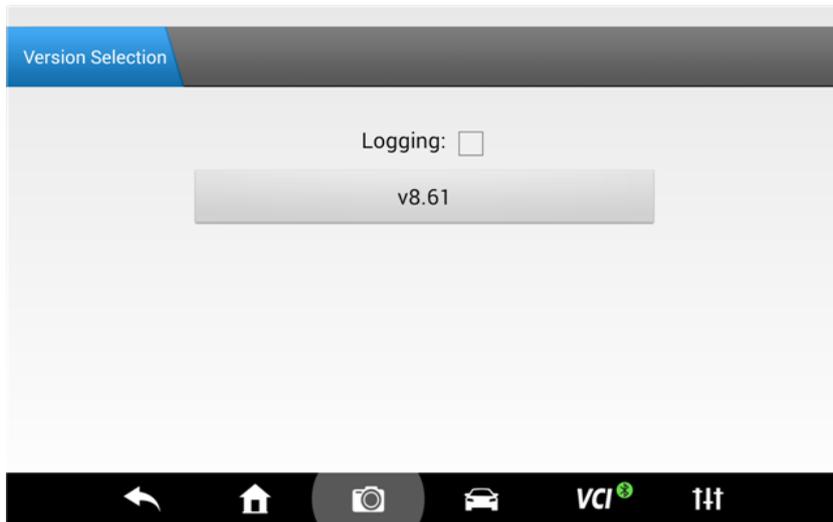
1. Enter the [Vehicle Diagnosis] menu;



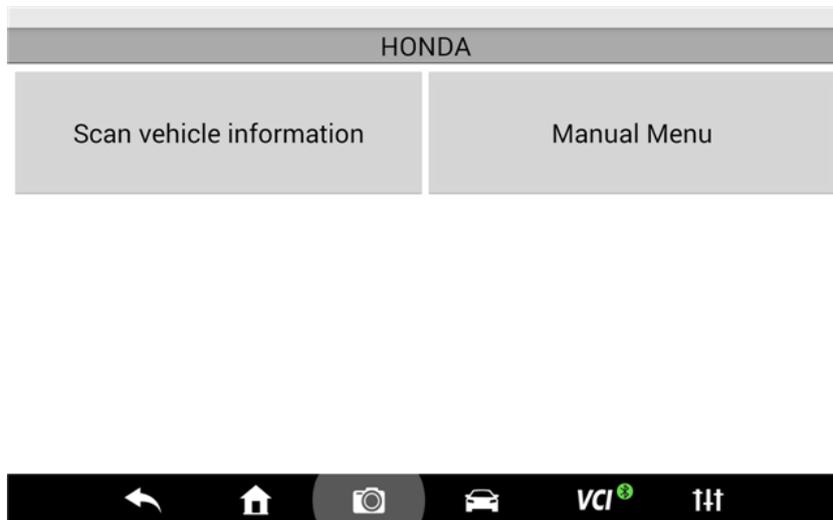
2. Select [Asian - Honda];



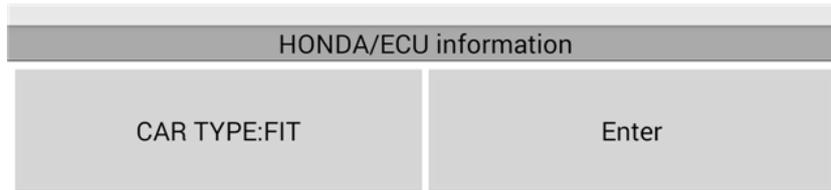
3. Select the software version;



4. You can select Auto or Manual, take [Scan vehicle information] as an example. Please select "Scan mode";



5. Find the car information and click [Enter];

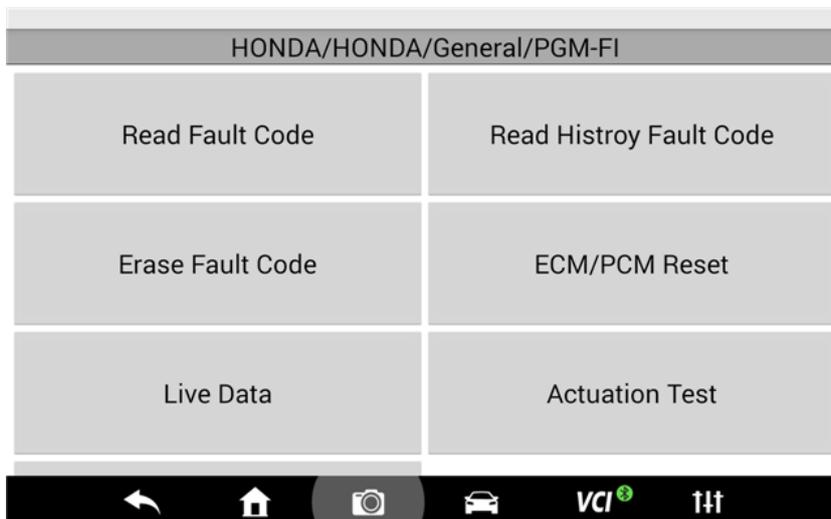


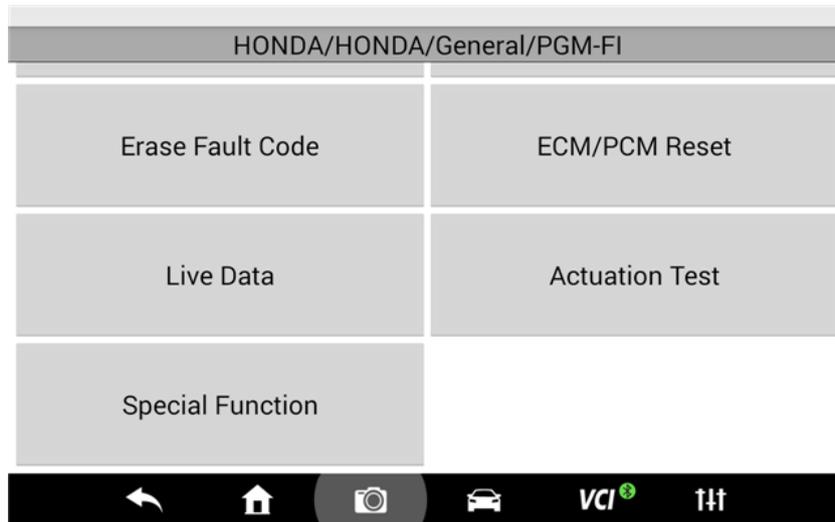
6. Choose the area of car manufactured country [General]:



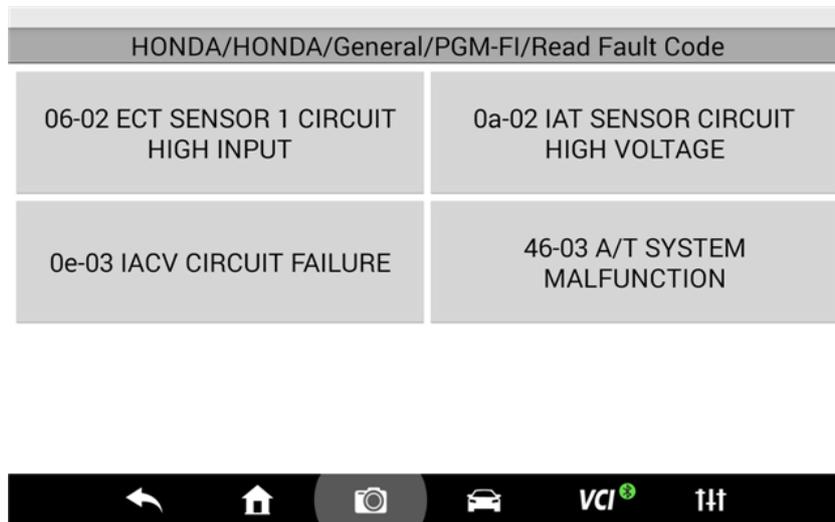
7. Choose the system for testing [Engine control module ]:

8. Enter the diagnostic interface. In the engine control module, there are Read fault code, Read history fault code, Erase fault code, Live data, Actuation test and other functions. Select according to the needs;

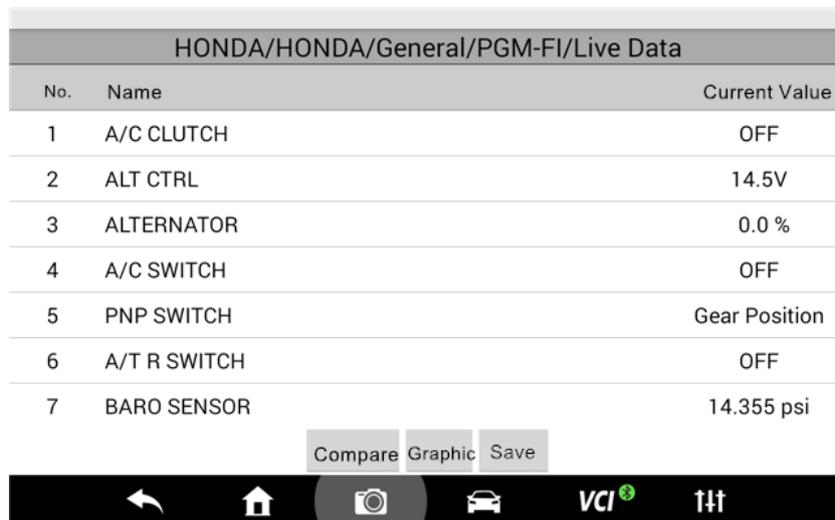




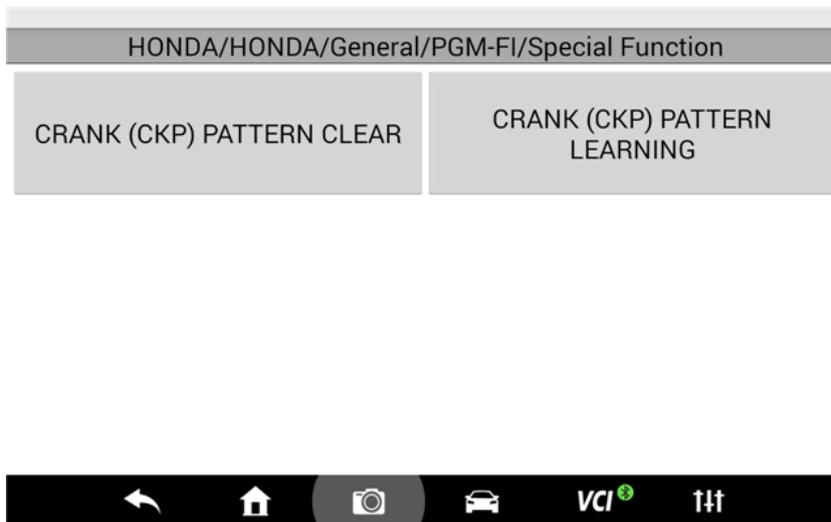
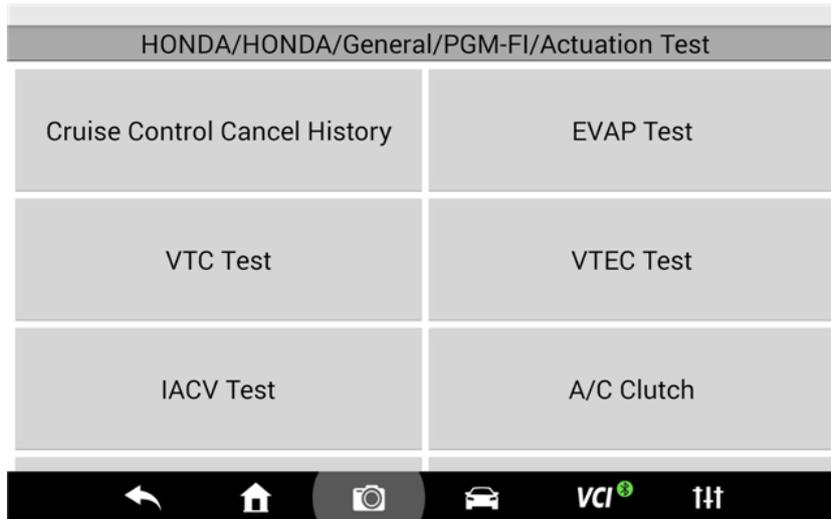
9. Select Read DTCs and find the definition ;



10. Check the live data;



11. There will be Actuation test and Special Function for users to select.

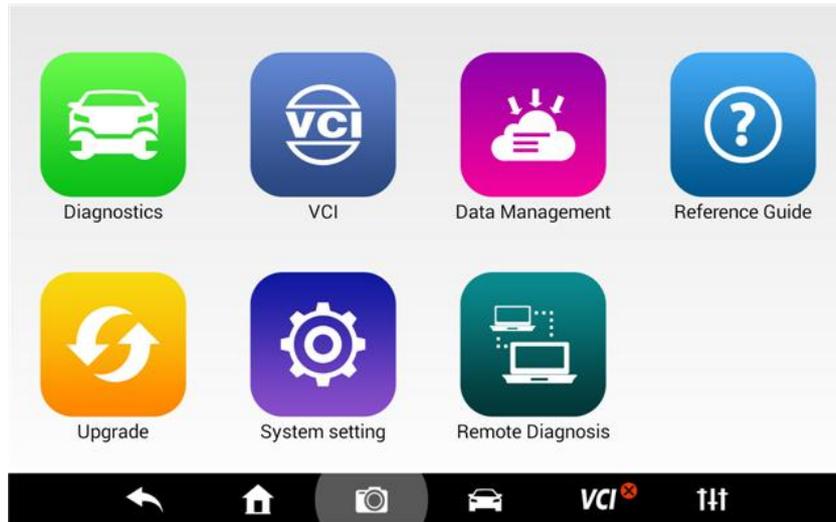


## Chapter VI Upgrade and Activation

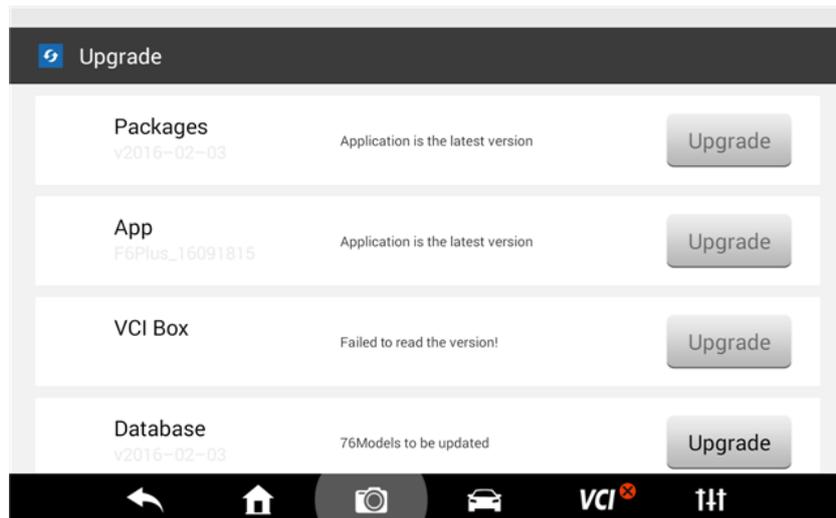
Customers who bought FCAR products are suggested activating the machine immediately and regularly upgrade it and complete their personal information to ensure your use and the model program upgrade. Take F6 Plus as an example in the following illustration.

### 6.1 Upgrade

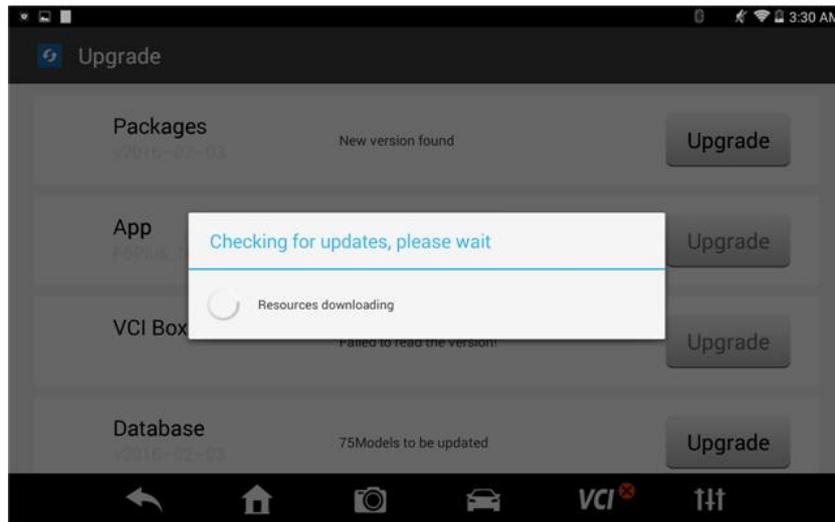
1. Click [Update];



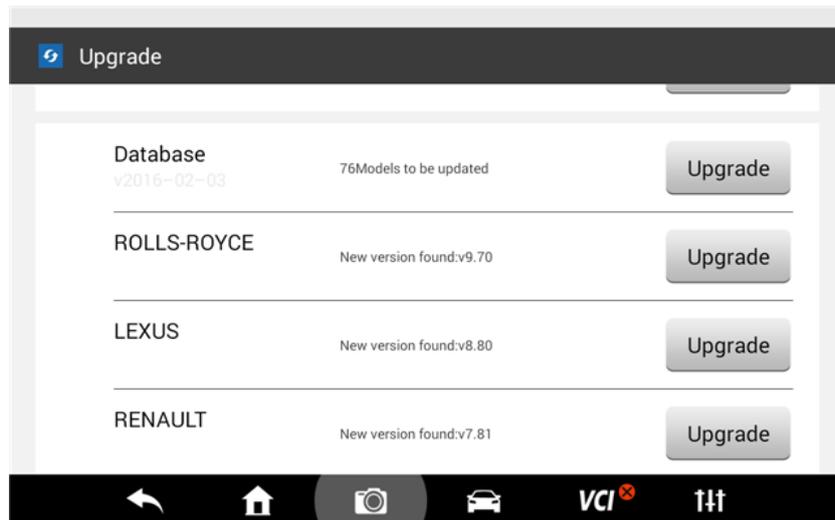
2. Click the Update icon on the upper left to check whether a new model version is available;



3. Click Update for corresponding items.



4. Click on the version upgrade behind the [Database] to upgrade all the latest software programs.



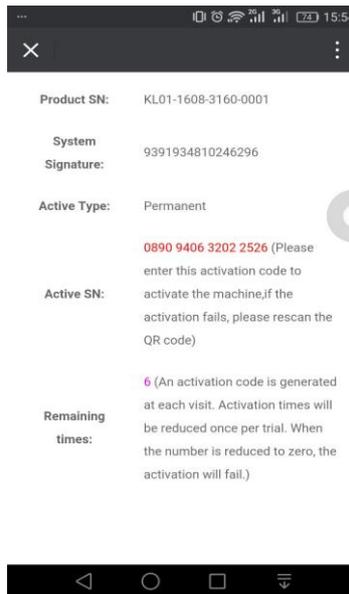
## 6.2 Activation

FCAR products are not permanently activated when left the factory. After you power on the machine and select models, you will be prompted: "You are using the trial version, \*\* times left ", Click [Activate] to enter the activation interface. Use the most convenient two-dimensional code to activate. Method is as follows:

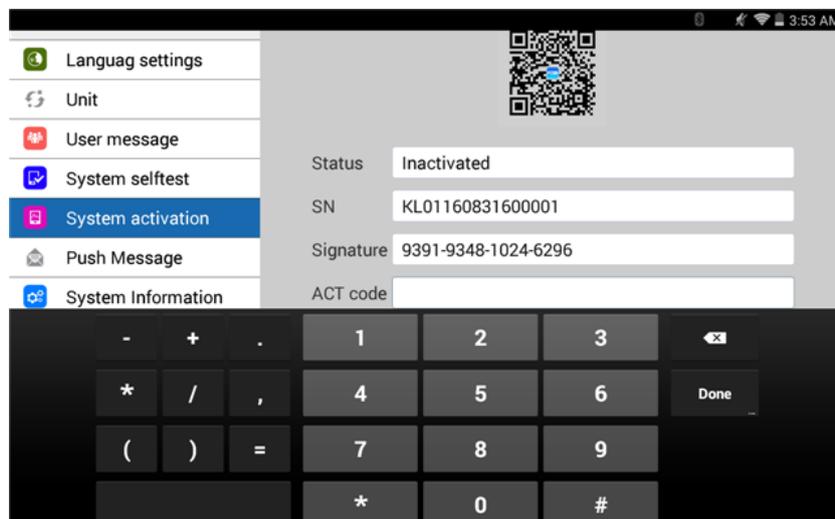
1. Open your QR code tools, Select [Find] - [Scan];
2. Scan the QR code in the machine interface;



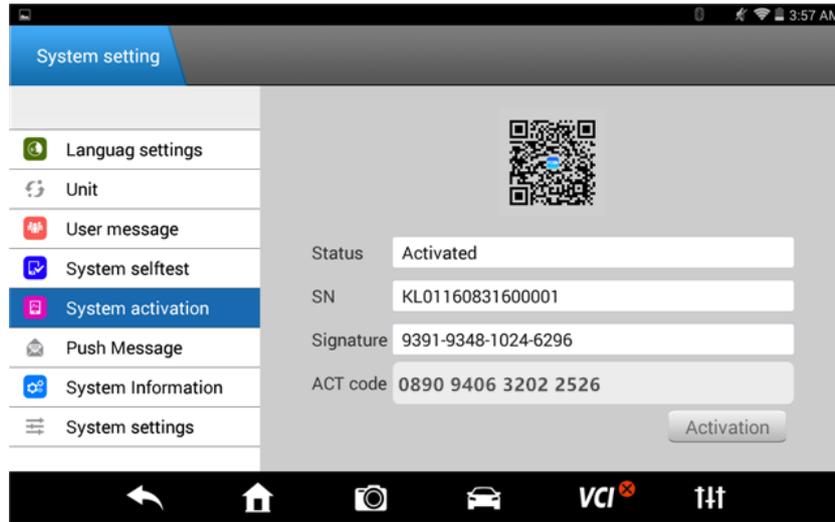
3. Upon completion, the activation code will be displayed;



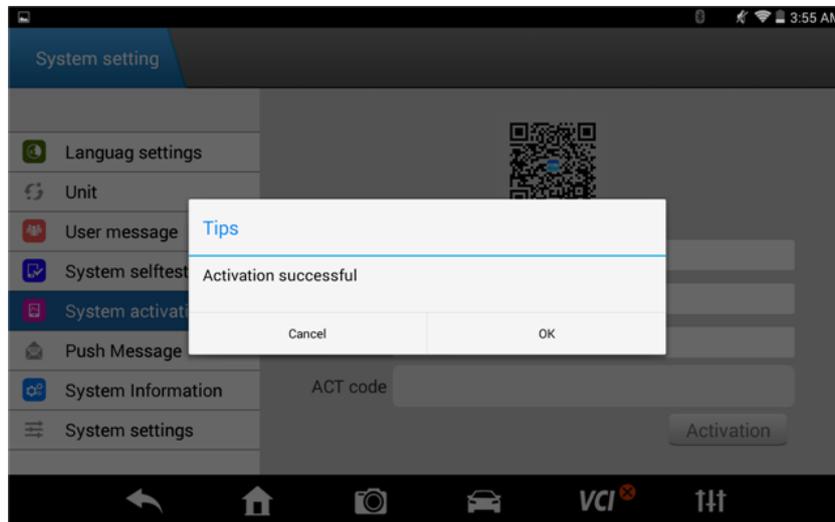
4. Fill in the activation code to the machine; click [Complete] to back to the activation interface;



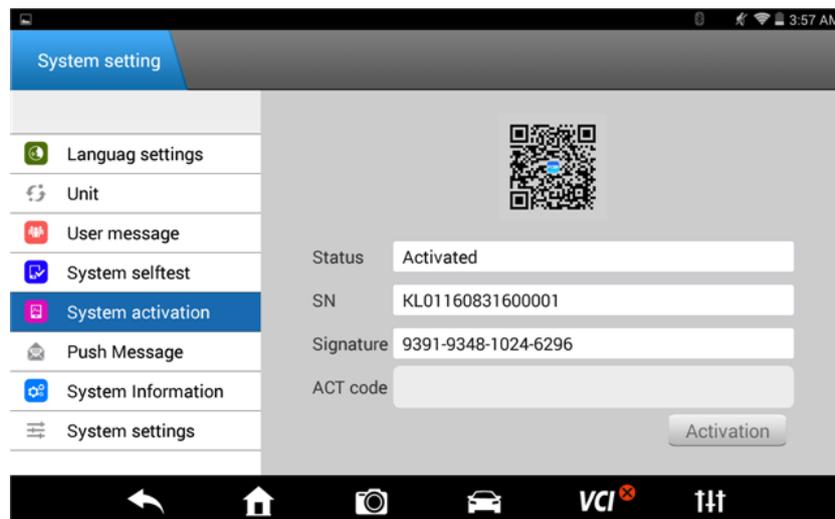
5. Click [Activation];



6. Activation is successful. If you are prompted Activation Failed, start again.



7. After the activation is successful, you can see the status bar is displayed as "Activated."



## Chapter VII Compliance Information

FCC COMPLIANCE      FCC ID: 2AJDD-IDIAGSF6P

### 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.

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.

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

### SAR tests are conducted using

standard operating positions accepted by the FCC with the F6 Plus transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the phone. While operating can be well below the maximum value, in general, the closer you are to a Wireless base station antenna, the lower the power output. Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC, Tests for each phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC.

For body worn operation, this model F6 Plus has been tested and meets the FCC RF exposure. Guidelines when used with

an accessory designated for this product or when used with an accessory that Contains no metal and that positions the handset a minimum of 1 cm from the body.

Non-compliance with the above restrictions may result in violation of RF exposure guidelines.

## Chapter VIII Warrant Clause

Dear FCAR customer, thank you for choosing FCAR. In order to make the best use of the product, we recommend you taking good care of your product, and operating in accordance with user manual's instructions whenever you use it. Your product will be able to serve you longer if all the requirements above are met.

1. In line with the following terms and conditions, and under the premise that you have activated our products and registered in the website of Shenzhen FCAR Technology Co., Ltd. (hereinafter referred to as "FCAR"), we will provide free product warranty services if there are defects in materials or workmanship of hardware.

2. Confirm that you have carefully read the product warranty clause. You will be considered as agreeing and accepting the terms of this warranty clause when you registered and completed your profile on FCAR official website (<http://www.fcar.com>).

3. Your product must be purchased from product dealer that authorized by FCAR. To purchase products through the illegal channels, buyers have to bear the cost of product maintenance services themselves and can't get the warranty by FCAR.

4. The following items of products are not under warranty range: Items that are easy to wear and tear such as product instructions, inner and outer package box, promotional giveaways, SD card, printing supplies etc.

5. From the date of purchase (subject to valid purchase proof and effective warranty card of the product), if the product suffers performance failure caused by non-human factors, you can choose our maintenance services or replace the product with the same model within one month. You can enjoy one year warranty service for main unit, connectors, power adapter.

6. You will not be able to enjoy free warranty service if the product is under any of the following situation:

1) Failures, defects or flaws that do not belong to the quality of FCAR products: including failing to use the product according to the user manual's instructions, crash, fall, disassembly by yourself, connecting improper accessories, damage owing to crash because of improper transport or storage of the product, erosion and corrosion caused by infiltration of liquid or food, etc.

2) The natural wear and tear of product: including but not limited to cover, keypad, touch screen, accessories etc.

3) Main unit serial number and warranty card serial number discrepancy, product quality inspection tag or bar code removed, altered or damaged;

4) Maintenance and modification without the approval of FCAR or FCAR distributors.

7. Within the warranty period, you can take the following measures if the product quality problems or failure occurred:

1) You can inspect the product by yourself based on product help information. If there are no hardware quality problems, try to upgrade the product program;

2) You can dial FCAR customer service hot-line (0086-755-82904730) to obtain the correct service information;

3) After obtaining the company's effective reply, the product must be sent to the designated address (See the official website) to repair and maintenance. Otherwise, your product can not receive timely repair and maintenance. Losses

caused by your negligence are at your peril

8. During the product warranty process, you will bear the costs associated with delivering the product to the designated place of FCAR: Including product packaging, transportation, insurance and other expenses.

9. Within the product warranty period and under this warranty clause, you can enjoy free warranty service for the losses due to product defects. FCAR shall not be liable for your direct or indirect loss.

10. All product warranty information, product functions and specification changes will be posted on FCAR latest promotional materials and the official website without further notice.

**Shenzhen Fcar Technology Co., Ltd.**

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Factory: West 1F, Bldg. B, Hengchao Industrial Park, Tangtou North Ave., Bao'an, Shenzhen, China

Zip code: 518057

Tel: 0086-755-82904730

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E-mail: [marketing@szfcar.com](mailto:marketing@szfcar.com)



Shenzhen Fcar Technology Co., Ltd.



Shenzhen Fcar Technology Co., Ltd.



## Certification

This product has been strictly inspected as qualified products and met the company standards.

Product name	
Product serial number	
Date of production	
Inspector	



## Warranty card

Product name	
Product serial number	
Purchase date	

Company name: \_\_\_\_\_

User address: \_\_\_\_\_

Contact person: \_\_\_\_\_

Contact number: \_\_\_\_\_

