

# THINKCAR

Version: V1.00.001

Statement: the **THINKCAR** has full intellectual property rights to the software used in this product. For any act of reverse or cracking the software, the Company will stop the product and reserve the right to pursue the legal liability.

## FCC Requirement

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

## FCC WARNING

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The mobile device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body is 0.733 W/kg.

For body operation, this device has been tested and meets FCC RF exposure guidelines when used with any accessory that contains no metal and that positions a minimum of 15mm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.



## Copyright Information

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This equipment is used by professional technician or maintenance personal.

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You can visit the website: <http://www.thinkcar.com> for information about THINKCAR products; you can also write to: Shenzhen Thinkcar Tech Co., Ltd., No. 2606, F26, Building 4, Phase II of Tian'an Yungu Industrial Park, Longgang District, Shenzhen City, Guangdong Province, China, to contact Think to obtain written consent to the use of the manual.

## Important Security and Operation Information

To avoid personal injury, property loss or accidental damage to the product, please read all information in this chapter before using the product.

## Handle the Equipment with Care

Do not drop, bend, puncture, insert foreign objects, or place heavy objects on the equipment, or else, vulnerable components inside may be damaged.

## Do not Disassemble or Modify the Equipment


It is a sealed device without part that can be repaired by user inside. All internal repairs must be carried out by authorized maintenance agencies or technicians. Attempts to disassemble or modify the equipment will void the warranty.

## Do not Attempt to Replace Internal Battery

The internal rechargeable battery must be replaced by authorized maintenance organization or technician.

## Protect Data and Software

Do not delete unknown files or change names of files or directories created by others, otherwise, the equipment software may fail to run.

 Note: access to network resources may make devices vulnerable to computer viruses, hackers, spyware, and other malicious acts, which may damage devices, software, or data. You should ensure that your computer is adequately protected with firewalls, anti-virus software, and anti-spyware software, and that these software is always up to date.

## Precautions for Use

The ignition switch should be in the OFF position when the diagnosis line is removed or inserted.

## Precautions for Vehicle ECU Operation

- When the ignition switch is on, please do not disconnect the internal electrical device of the car at will, so as to avoid damage to the ECU or equipment.
- Do not place magnetic objects near the computer to avoid circuit and component failure in the ECU.
- Disconnect the ECU system power supply when welding is carried out on the vehicle.
- When performing repairs near the computer or sensor, pay particular attention to avoid damage to the ECU and sensor.
- The connector of the ECU wire harness should be connected reliably to avoid damage to the integrated circuit and other electronic components inside the ECU.



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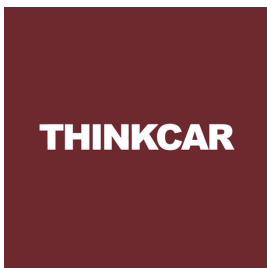
## 1. Rapid Use Introduction

### 1.1 First Use

The following setting should be made in first use.

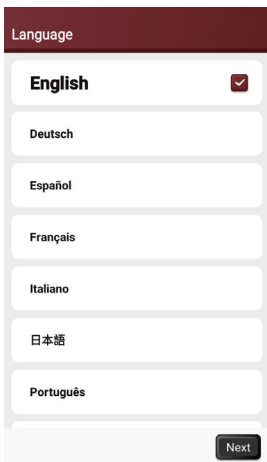
#### 1.1.1 Start

Long press the power key to start the machine, and the screen displays as follows:




#### 1.1.2 Language Setting

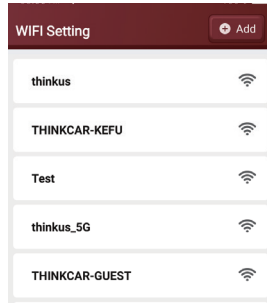
Select the tool language in the following interface:



### 1.1.3 Connect Wi-Fi

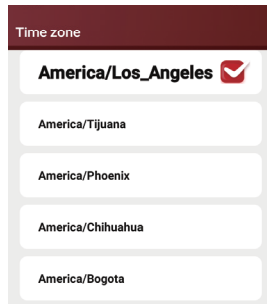
The system will automatically search all available Wi-Fi networks and you can choose the Wi-Fi needed. If the chosen network is open, you can connect it directly; If the chosen network is encrypted, you must enter the correct password. Then You can connect Wi-Fi after clicking "connect".

 Tips: Wi-Fi must be set. If no Wi-Fi network is available nearby, you can enable "Portable Mobile Hotspot".



### 1.1.4 Choose Time Zone

Choose the time zone of the current location, then the system will automatically configure the time according to the time zone you chose.



### 1.1.5 User Agreement

Read all the terms and conditions of the user agreement carefully and select "Agree to the Terms".

**Register terms**

Hello, thank you for using THINKCAR Co., Ltd.'s products and services. Below, we explain the privacy policies for our THINKCAR devices, applications, and websites. You will learn how the data we collect is used and protected, and the steps we take to ensure information security.

**The information we collect**

When you use our services, we collect the following information you provide.

**\* Account information**

Create account information on our service, such as your name, email address, password, mobile phone number etc. This

**Agree with above terms** Next

### 1.1.6 Account Creation

You need to enter your email address to register an account. If you already have other THINKCAR products and have registered, you can directly use the existing account to log in.

**Register**

Registered      Activate VCI      Completed


CAPTCHA

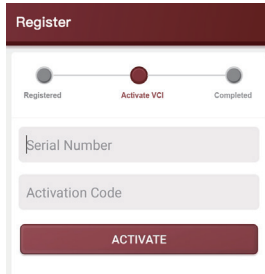
Sign-up means acceptance [Privacy Policy](#)


Register



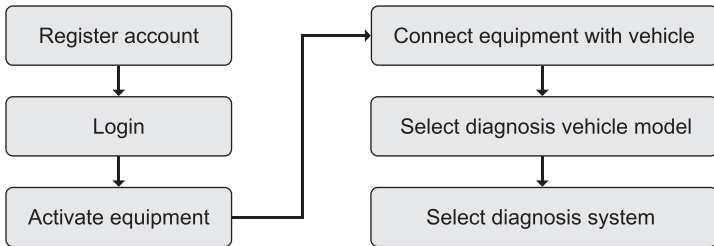
### 1.1.7 Diagnosis Equipment Activation

Enter the serial number and activation code of the equipment to activate it. If no activation operation is performed, you can also tap  "User Info" on the home screen to enter to select "Activate VCI" to carry out operation.



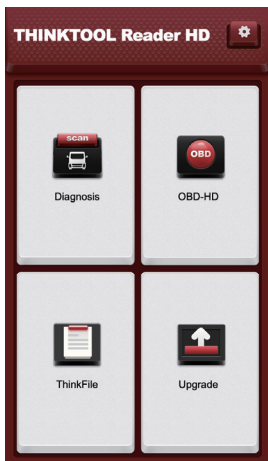
 Note: the activation code consists of 8 digits, pasted on the "Password Letter".

### 1.2 Diagnosis Procedure



### 1.3 Function Menu

After diagnosis host is started, the system automatically enters the home page:



THINKTOOL Reader HD mainly comprises the following function options:

[Diagnosis]: Including read fault codes, clear fault codes, read real-time streams, actuation test and special functions.

[Upgrade]: the model diagnosis software and client can be upgraded online with only one touch.

[ThinkFile]: It is used to record and create the file of the diagnosed vehicles that based on the vehicle VIN and check time, including all diagnostic-related data such as diagnostic reports, data stream records, pictures.


[OBD-HD]: Detect whether the gas exhaust emission of engine comply with the relevant standards and regulations.

[Personal Center]: Including my equipment, activation of equipment, self-definition standard data stream, diagnostic feedback and setup information.

[Diagnosis feedback]: In the process of use, problems such as software or function abnormality of the vehicle model under special circumstances can be reported to our Company, and professional technicians will track and deal with them in time.

### 1.4 Recharge the Host

The host is recharged by the following steps:

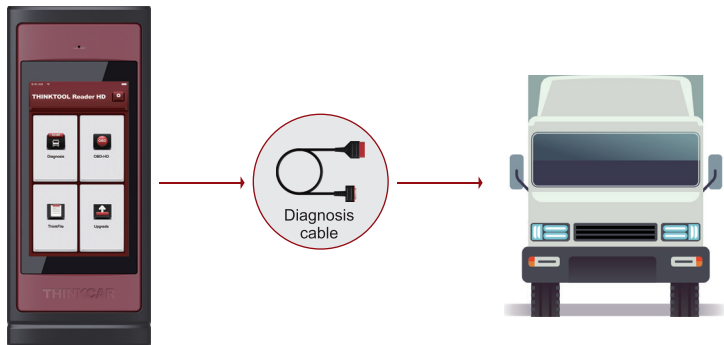
1. Connect the type C charge cable to the charge jack at the right of the host.
2. Plug the charger into the power socket and start charging.
3. When the battery symbol shows 100% , it means charging is finished, and disconnect the power socket of the host.

## 1.5 Battery Use

- If the battery has not been used for a long time or the battery is exhausted, it may not be able to start up the machine properly when charging. This is normal. Please charge the battery for a period of time before starting the machine.
- Please use the attached charger for charging. The Company will not be responsible for any damage or loss caused by using other chargers other than those specified by the Company.
- The battery can be recharged. But since the battery is a consumable, after a long time of use, the standby time of the equipment will be shortened. To extend the service life of the battery, avoid frequent recharging.
- The battery charging time varies with temperature conditions and battery usage.
- When the battery of the equipment is low, the system will pop up the prompt of connecting the charger. When the battery is too low, the equipment may be automatically shut down.

## 1.6 Diagnosis Equipment Connection

- (1) Find the standard OBD-16 diagnostic socket, usually is located on the driver's side. (For non standard OBD-16 diagnostic socket, it is needed to use the relevant adaptor) .  
If you can not locate the OBD-16 socket, please check the vehicle maintenance manual.
- (2) Connect the diagnostic device with the OBD socket.



## 2. Overview

ThinkTool Reader HD is the intelligent diagnostic equipment newly presented by Thinkcar for the diagnosis and maintenance of commercial vehicles. Based on the Andorid 10 OS, with 1.8GHz Quad-cores CPU, 4GB RAM, 64GB ROM, it makes the diagnosis smoother than ever.

Covering more than 30 main brands and models, it can meet the diagnostic needs of most commercial vehicles, and also will extend more covering models of brands in the future.

### 2.1 Recognize Diagnosis Host



① Diagnosis interface

② Screen

③ Power/Button

Long press the button to start or shut down.  
Simply press the key to sleep or wake up.

④ Type C charge jack

For connecting attached charger for charging.

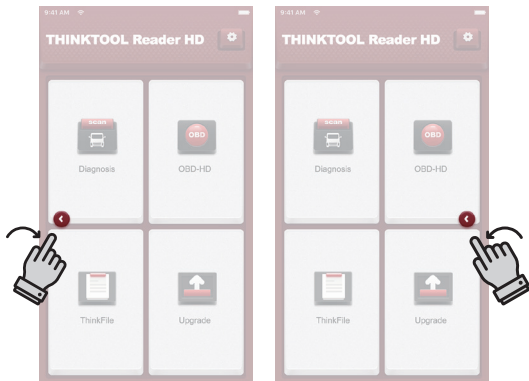
⑤ Ethernet interface (reserved)

⑥ Heat dissipation port

⑦ Loudspeakers

## 2.2 Equipment Operation

It has not the "◀" icon in the equipment interface, please use the Gesture function or tap the Title bar to return.



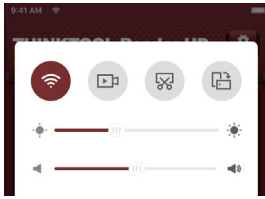
## 2.3 Performance Parameter

Operating system	Android 10.0
Memory	4 GB
Memory capacity	64 GB
Battery	3150 mAh/ 3.7 V
Display screen	5 inches

Network connection	Wi-Fi
Bluetooth	Bluetooth 5.1
Work temperature	0°C ~ 50°C
Storage temperature	-20°C ~ 60°C

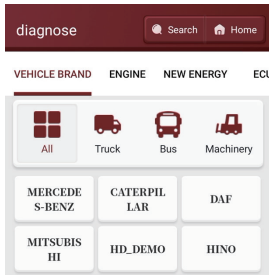
## 2.4 Shortcut Setting

Drop-down menu shortcut keys, including Wi-Fi, screen recording, screen capture, screen flip. The screen brightness and volume can be also adjusted.

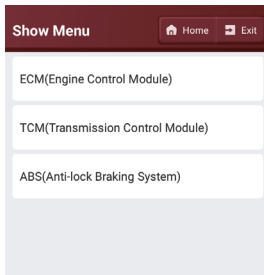


### 3. Diagnosis

A. Select vehicle makes and brand.

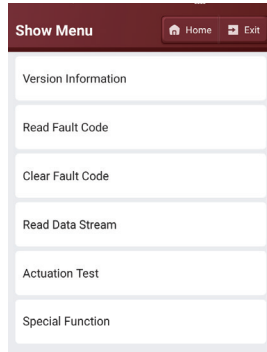


B. Select diagnostic system: select the diagnostic system as following. (The diagnosis menu varies with different vehicles.)

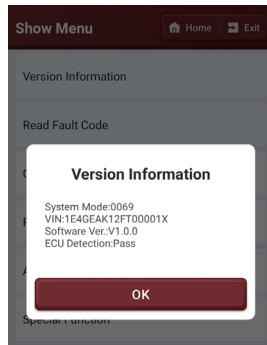


Function Selection: Click the function to be tested.

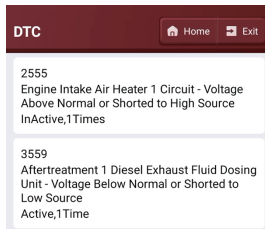
⚠ Tips: The diagnosis menu varies with different vehicles.



1) [Version Information]: click [Version Information] to read the current version information of the car's ECU.



2) [Read Fault Code]: This function is to read the DTC in the ECU memory, helping maintenance staff to quickly identify the cause of the vehicle breakdown. As shown below, click "Read Fault Code", and then the screen will display diagnostic results.

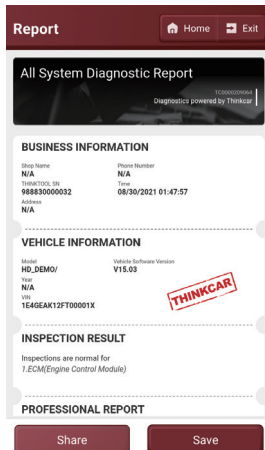


⚠️ **Tips:** Reading the DTC when troubleshooting a vehicle is only a small step in the entire diagnostic process. Vehicle DTC are for reference only, and parts cannot be replaced directly based on the given DTC definition. Each DTC has a set of test procedures. The maintenance technician must strictly conform to the operation instructions and procedures described in the car maintenance manual to confirm the crucial reason of the breakdown.


**On-screen Buttons:**

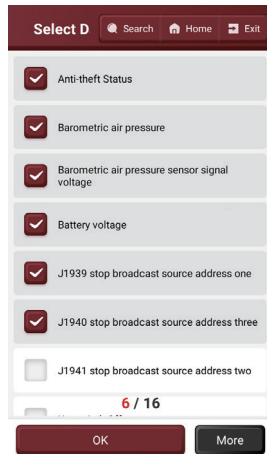
[Freeze Frame]: If this button is highlighted, it means there is freeze frame information. The freeze frame serves to record some specific data streams at the moment when the car breaks down. The number is for verification.

[Report]: Save the current diagnosis result as a diagnosis report and it can be Share and Save.

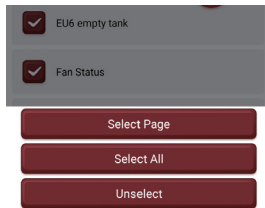




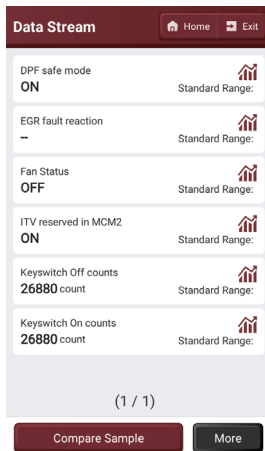
- 3) [Clear Fault Code]: This function is used to clear the DTC in the ECU diagnosed. Tap Clear Fault Code, the system will automatically delete the currently existing DTCs and pop up the dialog box of "DTCs Cleared".
-  Note: For general models, please operate strictly according to the normal sequence: read DTC - clear DTC - test the car - retrieve DTC for verification - repair the car - clear DTC – recheck the car, to confirm that the DTC no longer appears.
- 4) [Read data stream]: This option allows you to view and capture (record) real-time Live Data of ECU. This data, including current operating status for parameters and/or sensor information, can provide insight on overall vehicle performance. It can also be used to guide vehicle repair.



When select Data Stream, there are three optional selections: Select Page, Select all and Unselect under the [More] button to select.



Click [OK] button when the selection finished, the system will display the dynamic data of the data stream selected.




[Compare Sample]: Tap to select the sample DS file. All the values you customized and saved in process of DS sampling will be imported into the Standard Range column for your comparison.

[More]:

[Save Sample]: To sample and record data stream, Tap the Min./Max. value to change it. After modifying all desired items, All DS files are stored in User Info -> Data Stream Sample.

[Graph]: Displays the parameters of the selected data stream in waveform.


[Report]: Tap to save the value of current data stream.

[Record]: To record diagnostic data, for you to replay and review. Tap “” button to end reading.

All diagnostic records can be saved in [ThinkFile] ->[ Archives].


**There are three display modes . You can choose the appropriate way to browse:**

[Value]: Displayed the parameters default shown in values and list format.

 (Note: If the value of the data stream is not within the standard value range, the data stream will be displayed in red.)


[Graph]: Display the current (single) data stream in waveform graph.

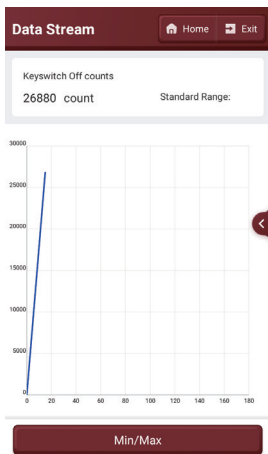
[Combine]: Displayed in graph merge status for data comparison.

 (Note: Different data flow options are marked in different colors.)

**How to check one wave pattern/several wave patterns together?**

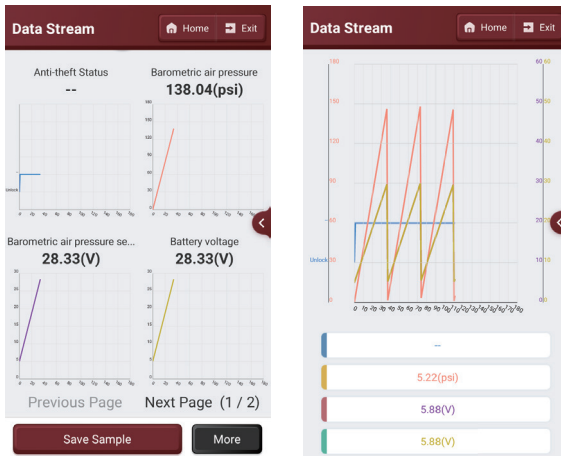
Click "" on the Data Stream ,display current(single) data stream with wave patterns.

 Note: Click [Min/Max] to set the highest / lowest value. Once the running value exceeds the set value, the system will issue a warning.



Click [Graph] or [Combine] button and then the system will display the parameters of the selected data streams with wave patterns. If need to remove any items, just deselect them.

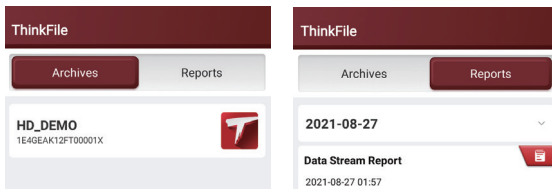
 Note: Select the desired items (max. 4 items)



5) [Actuation Test]: This function is used to test whether the execution components in the electronic control system can work normally.

#### 4. ThinkFile

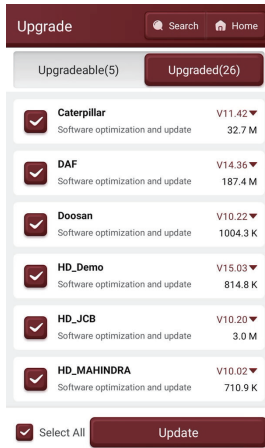
It is used to record and establish the file of the diagnosed vehicles. The file is created based on the vehicle VIN and check time, including all VIN-related data such as diagnostic reports, data stream records and pictures.



#### 5. Upgrade

In order to let you enjoy better functions and upgrade services, we recommend you make software upgrades regularly. When there is a newer software version, the system will remind you to upgrade.

Click [Upgrade] to enter the upgrade center. There are two function tabs on the upgrade page:



[Upgradeable software]: A list of software that can be upgraded to newer versions.

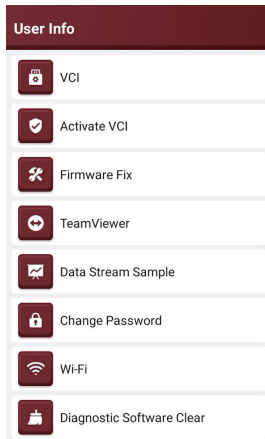
[Upgraded software]: a list of software that has been downloaded.

⚠ Note: During the upgrade, please keep normal network connection. Upgrade many software may take a few minutes, please wait.

If you need to remove certain software, just click the check box.

## 6. User Info

Click "⚙️", enter User Info to setup and manage personal information.

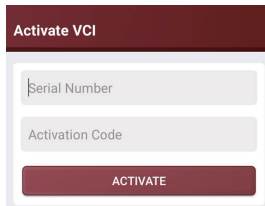


## 6.1 VCI

If several VCI connectors are registered on the same Thinkcar account, this option allows you to choose one from those.

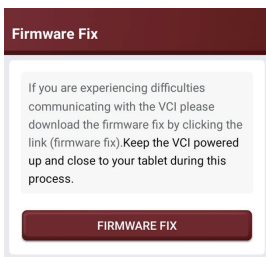
## 6.2 Activate VCI

This item lets you activate a new VCI connectors and get help about the activation information.



## 6.3 Firmware Fix

Used to repair the VCI firmware in case of the most models can not be diagnosed. During the repair, please don't power off or switch interfaces.



## 6.4 TeamViewer

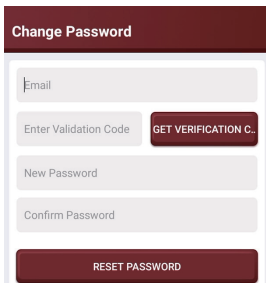
It can authorize the technicians or after-sale service persons to remote operate on your device by send the ID number to them, in order to guide and discover the problems when you use the diagnostic equipment.

## 6.5 Data Stream Sample

This feature allows you to manage the recorded data stream sample files.

## 6.6 Change Password

This item allows you to modify your login password.

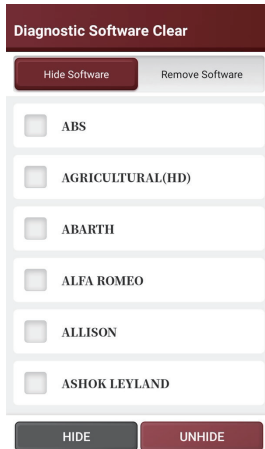


## 6.7 Wi-Fi

Set up Wi-Fi networks that can be connected.

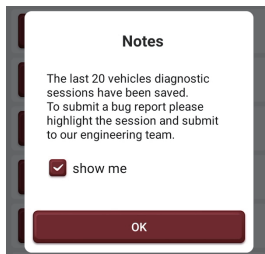
### 6.8 Diagnostic Software Clear

This option can clear some cache files and free up the storage space.



### 6.9 Feedback

If you encounter an unresolved problem or diagnostic software bug during diagnosis, you can revert the most recent 20 test records to Thinkcar Team. When we receive your feedback, we will analyze and troubleshoot it in a timely manner, to improve the quality of our products and user experience. Tap Diagnostic Feedback, the below pop-up message will appear:



Tap [OK] to enter the vehicle diagnostic feedback selection screen. There are three options:



[Diagnostic Feedback]: to show the list of all tested vehicle models

[History]: Tap to view all diagnostic feedback reverted and the processing progress.

[Offline-List]: Tap to display all diagnostic feedback logs which have not been submitted successfully due to network failure. Once the tablet gets a stable network signal, it will be uploaded to the server automatically.

In Diagnostic Feedback page, tap the diagnostic record of certain vehicle model or special function to next step.

Tap [Choose File] to open the target folder and choose the desired diagnostic logs.

Choose the failure type and fill with the detailed failure description in the text box, and

leave your telephone or email address. After inputting, tap Submit to revert feedback to us.

We will follow up your feedback as soon as we receive your diagnostic feedback, please keep an eye on the progress and results of your diagnostic feedback in Diagnostic Feedback History.

## 6.10 Photo Album

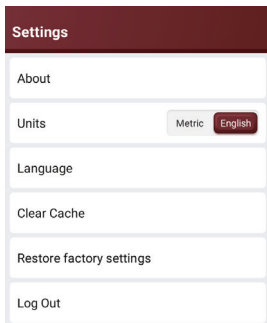
This module saves the screen-shots.

## 6.11 Screen Recorder

This module saves the screen recordings.

## 6.12 Settings

This option makes settings of system, including Units, Language, Clear Cache, Mode Switch, Restore Factory Settings, and Log Out.



[Units]: To switch the units between Metric and Imperial.

[Language]: Select the tool language from the languages displayed on the interface.

[Clear Cache]: After clear cache, user needs to Re-Login.

## 7. FAQ

1. Q: Can I use the same type of charger to charge the tablet?

A: No, please use original charger. Our company is not responsible for any damage and economic loss caused by using charger, which is not provided.

2. Q: How to save power?

A: Please turn off the screen while the equipment isn't used, set a shorter standby time, and decrease the brightness of the screen.

3. The tablet cannot be turned on after charging?

Possible reasons	Solution
The equipment has not been used for a long time, and the battery loss power	Charge it for more than 2 hours before turning it on
Problem of Charger	If there has a quality problem, please contact the dealer or after-sales service of THINRCAR.

4. Why can't make register?

Possible reasons	Solution
The equipment isn't connected	Please make sure the network is connected
Notes that your email has been registered.	Use another email for register or log in with the username registered by the email (If you forget the user name, you can retrieve it by email)
The email didn't receive the verification code during the registration	Check if the email is correct and get the verification code again

5. Why can't log in?

Possible reasons	Solution
The equipment isn't connected	Please make sure the network is connected
The user name or password is incorrect	Check the user name and password Contact THINKCAR after-sales service or regional sales to retrieve the user name and password
Server problem	Server maintenance, please try again later

## 6. Why can't activate the equipment?

Possible reasons	Solution
The equipment isn't connected	Please make sure the network is connected
The serial number and activation code are inputted wrong	Check the serial number and activation code and make sure they are correct (Serial number 12 digits, activation code 8 digits).
The activation code is invalid	Contact THINKCAR after-sales service or regional sales
Notify the configuration is empty	Contact THINKCAR after-sales service or regional sales

## 7. Notify the equipment is not activated during update software?

Possible reasons	Solution
The VCI connector may not be activated during registration	Use the serial number and activation code to activate the connector Steps are as follows: Click [User Info]->[Activate VCI] Enter the correct serial number and activation code in the interface, and click [Activate].

## 8. Q: Software upgrade failed.

Possible reasons	Solution
The equipment isn't connected	Please make sure the network is connected
Server problem	Server maintenance, please try again later
The user name or password is wrong. The equipment has not enough memory	Check the user name and password. Uninstall irrelevant applications and delete uncommonly used vehicle software (enter User Info -> diagnostic software clear -> remove software to operate)

## 9. There is no power in the VCI dongle after connecting to the vehicle's DLC port.

Possible reasons	Solution
Wrong contact of vehicle's DLC port	Plug out the VCI dongle, and then plug it in again
Vehicle diagnostic socket no connect well	Check the pins of vehicle diagnostic socket
Too low voltage of the vehicle battery	Recharge the vehicle battery.

10. Q: How about non-standard OBDII VCI connector  
A: There is a several non-standard adapters in the box, Follow the instructions to connect.
11. Q: Communication error with vehicle ECU?  
A: Please confirm:Whether the VCI is correctly connected and whether the vehicle ignition switch is ON.  
If all are normal, send vehicle production year, model and VIN number by Feedback feature.
12. Q: Failed to enter into vehicle ECU system?  
A: Please confirm:Whether the vehicle is equipped with the system,whether the VCI is correctly connected, and whether the vehicle ignition switch is ON.
13. Q: An abnormality occurs when the diagnostic software is used?  
A: Please tap User Info->Feedback the specific problem to us in order to improve the software.
14. Q: What to do if the connector is missing?  
A: Contact THINKCAR after-sales service or regional sales.
15. Q: The downloaded diagnostic software is inconsistent with the serial number  
A: There are several connectors registered under the equipment account, and the serial number of right connector has not been selected.Enter the settings-[VCI] and select the right serial number of connector. Delete the software with problems, then enter the upgrade center to download the diagnostic software again.

## Warranty Terms

- This warranty applies only to users and distributors who purchase THINKCAR products through normal procedures.
- Within one year from the date of delivery, THINKCAR warrants its electronic products for damages caused by defects in materials or workmanship.
- Damages to the equipment or components because of abuse, unauthorized modification, use for non-designed purposes, operation in a manner not specified in the instructions, etc. are not covered by this warranty.
- The compensation for dashboard damage caused by the defect of this equipment is limited to repair or replacement. THINKCAR does not bear any indirect and incidental losses.
- THINKCAR will judge the nature of the equipment damage according to its prescribed inspection methods. No agents, employees or business representatives of THINKCAR are authorized to make any confirmation, notice or promise related to THINKCAR products.

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Official Website: www.thinkcar.com

Products tutorial, videos, Q&A and coverage list are available on Thinkcar official website.

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