



# User's Manual

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# **1. Statement**

You must carefully read the instruction manual, especially the safety instructions, before you can connect, commission and operate the products of OBDSPACE TECHNOLOGY CO., LTD., Ltd. (hereinafter referred to as “OBDSPACE”).

## **1.1 Agreement**

Once the product is used, it is an endorsement of the following:

- (1) Please refer to the packing list of the random distribution for the configuration equipment of this product, whichever is the actual product;
- (2) The functions and pictures described in this manual are subject to the actual software. All information, specifications and illustrations in the manual are the latest information at the time of publication. The company reserves the right to change it without notice.

## **1.2 Copyright information**

It cannot be copied or stored in any form (electronic, mechanical, photocopying, recording or otherwise) without prior written permission being secured from OBDSPACE. Software and data are owned by technology and protected by

copyright laws, international contract law, and other national laws. It is strictly forbidden to copy or transfer the data and software or some of the contents. If there is any violation, the technology will be held legally responsible according to law.

### **1.3 Disclaimer**

(1) This manual only provides the operation and operation methods for Ancel V5 HD. The company does not assume any responsibility for the consequences caused by using the operation methods for other equipment operations.

(2) The company shall not accept any responsibility for accidents caused either by the user personally or anyone else, or costs and expenses due to equipment damages including equipment loss caused by the user's abuse or misuse, arbitrary changes or repairs or operation of the equipment in a manner not in accordance with the manual requirements.

### **1.4 Safety Information**

For the safety of yourself and others, and to avoid damage to equipment and vehicles, all personnel handling the equipment must read the safety precautions mentioned in the manual.

## **1.4.1 Inspection Precautions**

- (1) Ancel V5 HD can only be connected to a safety outlet that is grounded. Before connecting, check and confirm that the diagnostic circuit is in good condition. Otherwise, it is not necessary to test to avoid damage to the main unit. If necessary, use a multimeter to measure the diagnostic seat voltage.
- (2) Use only the power cord supplied with the OBDSPACE diagnostics or detected power line.
- (3) Pay special attention to the effects or damage caused by environmental factors such as acid and alkali, poison gas, and heavy pressure.
- (4) Exhaust gases from the engine contain a variety of toxic compounds and should be avoided. Park the vehicle in a well ventilated area before operation.
- (5) Do not place the device on the vehicle's power distribution unit. Strong electromagnetic interference can cause damage to the equipment.
- (6) After the equipment is installed successfully, before starting the engine, make sure that the parking brake is pulled and the speed lever is placed in the neutral or parked position to avoid accidents when the vehicle is started.

(7) When the engine is running at a high temperature, avoid contact with high temperature components such as the water tank and the exhaust pipe. At the same time, be careful of the voltage generated by the components such as the ignition coil, the distributor cover, the ignition circuit and the ignition plug during engine operation.

## **1.4.2 Notes on the use of the instrument**

(1) This instrument is a precision electronic instrument. Do not drop it. Handle it as gently as possible, away from heat and electromagnetic fields.

(2) Ensure that the instrument and diagnostics are well connected so that signal interruptions do not affect the test.

(3) Use screws as much as possible when using the cables and connectors to avoid disconnecting and damaging the connectors when moving. Hold the front end of the connector when pulling the connector, and avoid pulling the rear cable to avoid damage to the diagnostic interface.

(4) When the electrical components are energized, the circuit cannot be disconnected to prevent self-inductance, mutual inductance and current sensors and the vehicle ECU.

(5) The operation of this instrument requires a certain basis for vehicle inspection and maintenance, and has a certain

understanding of the electronic control system of the vehicle under test.

### **1.4.3 Operating car ECU considerations**

When performing diagnostic operations on a vehicle equipped with a computer control system, the following should be noted:

(1) Do not place magnetic objects such as radio speakers close to the computer, as the magnetic properties of the speakers can damage the circuits and components in the ECU.

(2) When the ignition switch is turned on, the internal electrical equipment of the car must not be disconnected. Due to the self-inductance of the coil when disconnected, a high instantaneous voltage will be generated, which will cause damage to the sensor and ECU;

(3) When performing repairs near a computer or sensor, special care should be taken to avoid damage to the ECU and sensor;

(4) When carrying out maintenance work on or near the ECU-controlled digital meter, be sure to wear a metal strap with one end clamped to the body and the other end wrapped around the wrist;

(5) When performing welding work on a car, the ECU system power should be turned off beforehand;

(6) Do not use test lights to test ECU-related electrical devices to prevent damage to the ECU or sensor unless specifically stated;

(7) Test ECU and sensors cannot be tested with a pointer-type ohmmeter, unless otherwise specified in the test procedure, but should be tested with a high-impedance digital meter.

## **2. Product Description**

### **2.1 Product Overview**

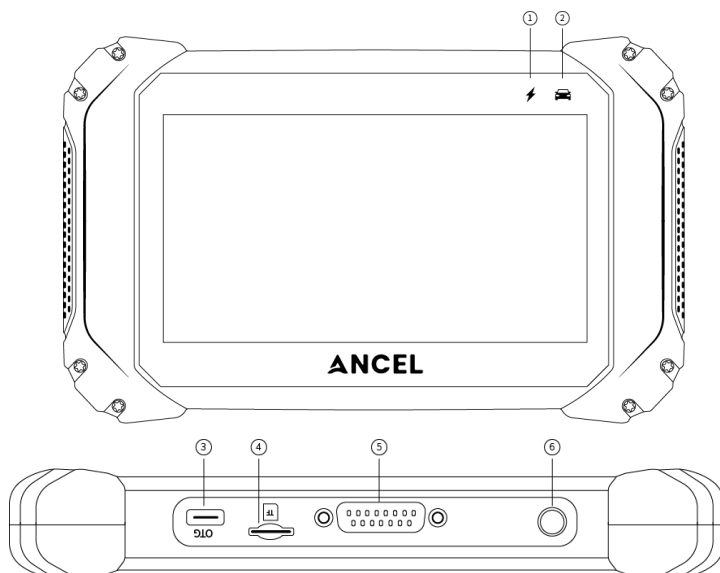
Ancel V5 HD is an Android based brand new-generation overall diagnostic tool for heavy duty trucks and commercial vehicles and machineries. With 7 -inch high-qualified industrial diagnostic tablet, in which software covering more trucks, buses, machineries from home and abroad with extensive diagnostic functions. Featuring new diagnostic experience and cost performance, it can be a better choice for all users.

## 2.2 Tablet parameter

| Item                | Description                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------|
| Display screen      | 7" G+G capacitance screen, 1024*600                                                          |
| System              | Android 10.0, multi language                                                                 |
| CPU                 | A133 ARM Cortex-A53, Quad Core at 1.5 Ghz                                                    |
| GPU                 | IMG PowerVR GE8300                                                                           |
| ROM                 | 32 GB EMMC                                                                                   |
| RAM                 | 2G LPDDR4                                                                                    |
| Battery             | Polymer lithiumion battery; 3.87V/5000 mA, Battery life: 5H                                  |
| Speaker             | Double speakers 8Ω/1W                                                                        |
| Interface           | Type-C, TF card slot (support SDHC/SDXC)                                                     |
| Network             | WIFI 802.11b/g/n/a/ac                                                                        |
| Bluetooth           | Bluetooth 5.2                                                                                |
| Input voltage       | 5V/2A                                                                                        |
| Working temperature | -10 to 70°C (14-158°F), relative humidity: <90%                                              |
| Storage temperature | -30 to 120°C (-22 to 248°F), relative humidity: <90%                                         |
| Dimensions (WxHxD)  | 270 mm (10.63 in) x 193 mm (7.60 in) x 38 mm (1.50 in)                                       |
| Weight              | NW: 1.20 kg (2.65 lb) GW: 3.00 kg (6.61 lb)                                                  |
| Protocols           | ISO 9141-2, ISO 14230-2, ISO 15765-4, K/L-Line, SAE-J1850 VPW, SAE-J1850 PWM, CAN ISO 11898, |

|  |                                                                                                                                                                                   |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Highspeed, Middlespeed, Lowspeed and Singlespeed CAN, GM UART, UART Echo Byte Protocol, Honda Diag-H Protocol, TP2.0, TP1.6, SAE J1939, SAE J1708, Fault-Tolerant CAN etc.</p> |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 2.3 Tablet interface instruction

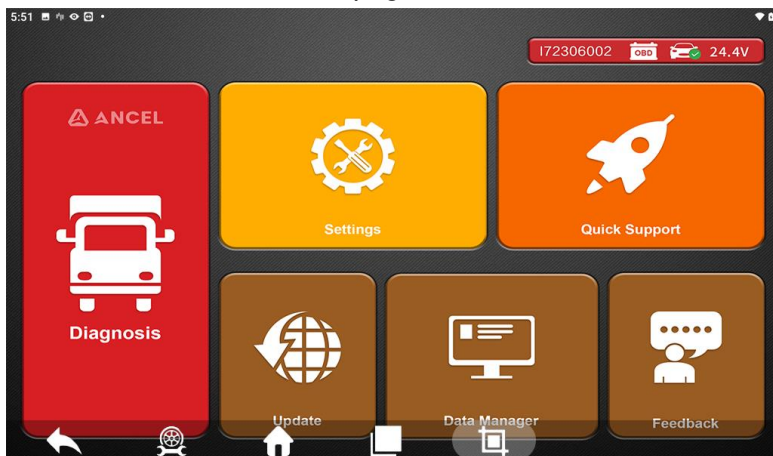


| No. | Name               | Description                                                          |
|-----|--------------------|----------------------------------------------------------------------|
| ①   | Charging Indicator | Light on blue when the tablet charge<br>Light off when fully charged |

|   |                         |                                                |
|---|-------------------------|------------------------------------------------|
| ② | Communication Indicator | The light flashing when diagnose communication |
| ③ | OTG Port                | Type-C Port, for battery charging              |
| ④ | TF Port                 | TF card port, Up to 32GB expand                |
| ⑤ | OBD Port                | OBDII main cable connector                     |
| ⑥ | Start Button            | The button turn ON/OFF the tablet              |

## 3. Software Introduction

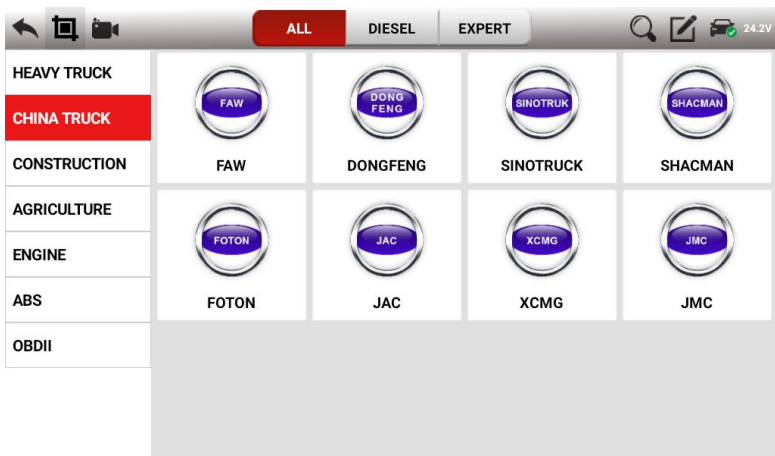
Ancel software client homepage:

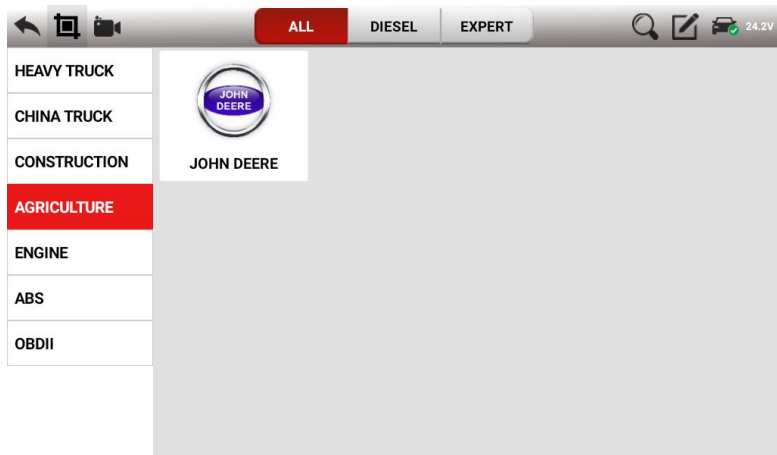


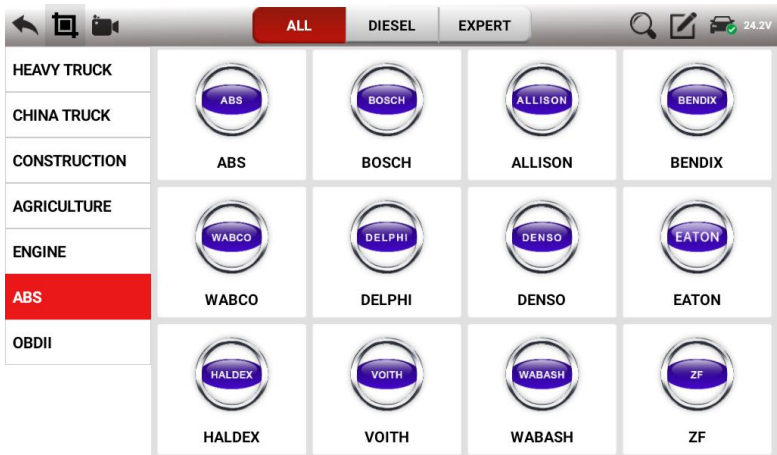
### 3.1 Diagnosis

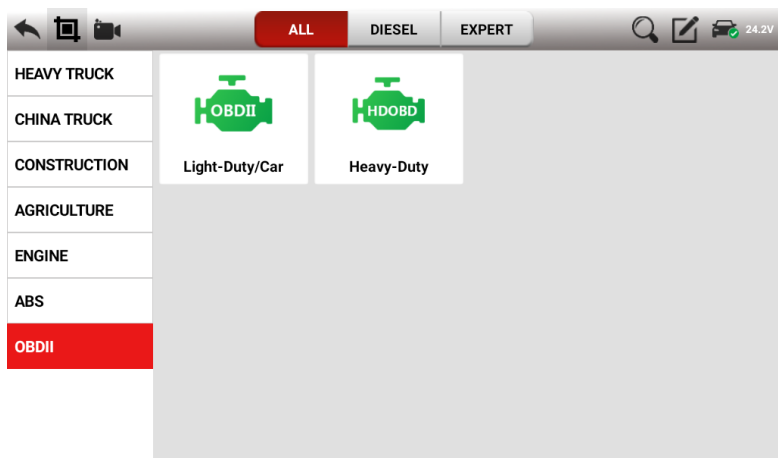
Vehicle diagnosis software are classified into HEAVY TRUCK, CHINA TRUCK, CONSTRUCTION, AGRICULTURE, ENGINE,

ABS, OBDII, as the picture belows:









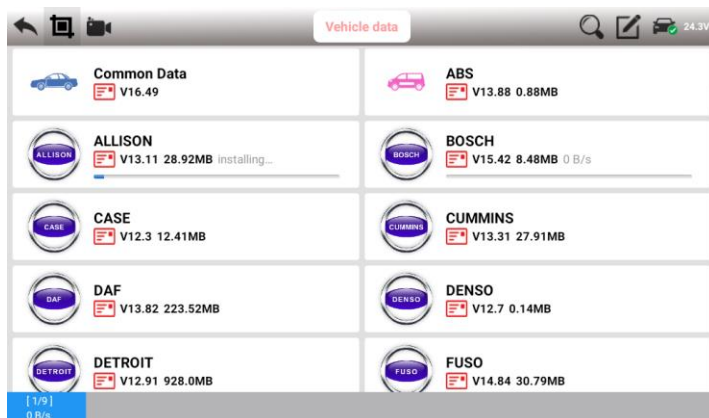
## 3.2 Update

- Connect the internet by WIFI.
- Login (input the serial number and password at the first time.
- Select the software and click the download button.

Login
24.2V

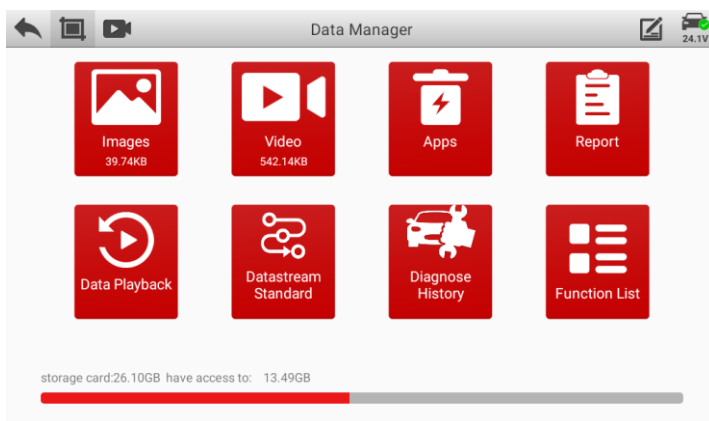
[Forgot password](#)

| Vehicle data                     |                          |                                  |                          |
|----------------------------------|--------------------------|----------------------------------|--------------------------|
| <b>Common Data</b><br>V16.49     |                          | <b>ABS</b><br>V13.88 0.88MB      | <input type="checkbox"/> |
| <b>ALLISON</b><br>V13.11 28.92MB | <input type="checkbox"/> | <b>BOSCH</b><br>V15.42 8.48MB    | <input type="checkbox"/> |
| <b>CASE</b><br>V12.3 12.41MB     | <input type="checkbox"/> | <b>CUMMINS</b><br>V13.31 27.91MB | <input type="checkbox"/> |
| <b>DAF</b><br>V13.82 223.52MB    | <input type="checkbox"/> | <b>DENSO</b><br>V12.7 0.14MB     | <input type="checkbox"/> |
| <b>DETROIT</b><br>V12.91 928.0MB | <input type="checkbox"/> | <b>FUSO</b><br>V14.84 30.79MB    | <input type="checkbox"/> |



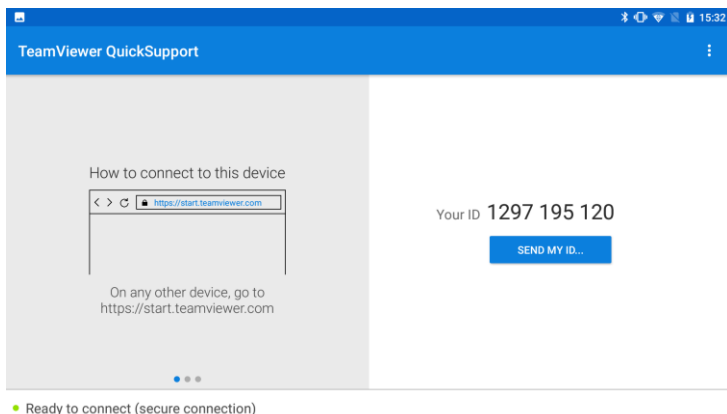
### 3.3 Data Manager

The storage location of vehicle applications, test pictures, videos, reports and for user reference.



### 3.4 Quick Support

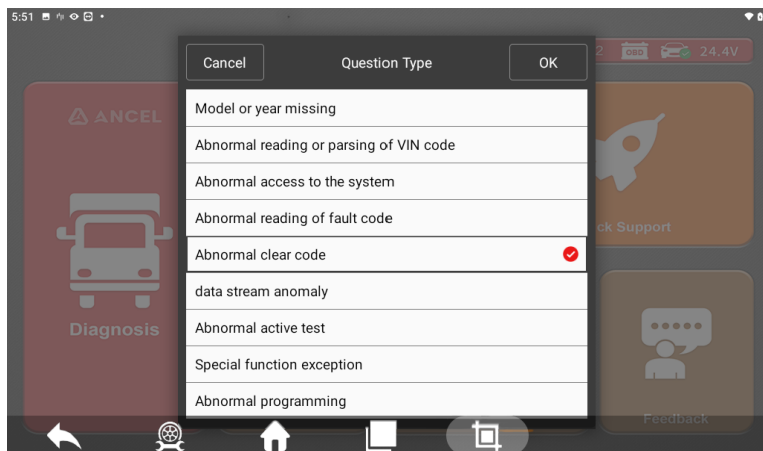
The function allows OBDSPACE technical staff to connect to your host through the network remotely to help you diagnose the vehicle.



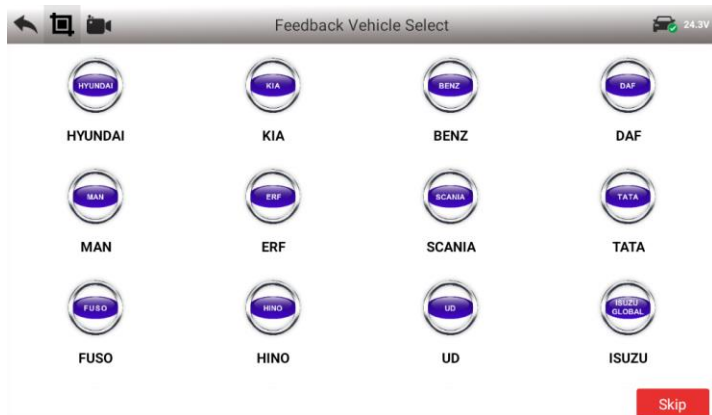
### 3.5 Feedback

This function allows you upload vehicle diagnostics problems encountered by users during the use of the software. It can help engineers repair software errors quickly.

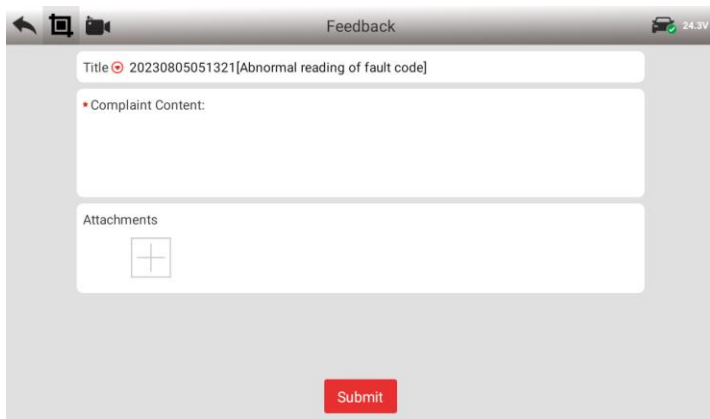
First, select the problem type:



Second, select the vehicle brand:

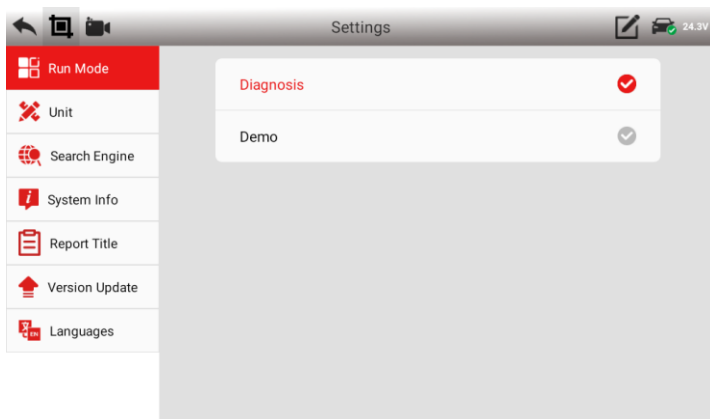


Third, input the problem information, and then click “Submit”.

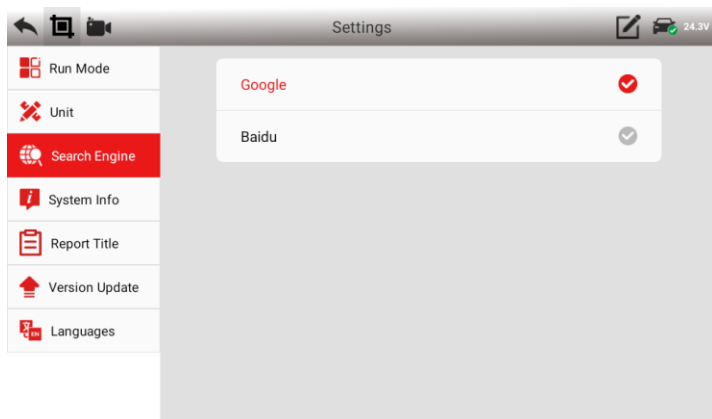
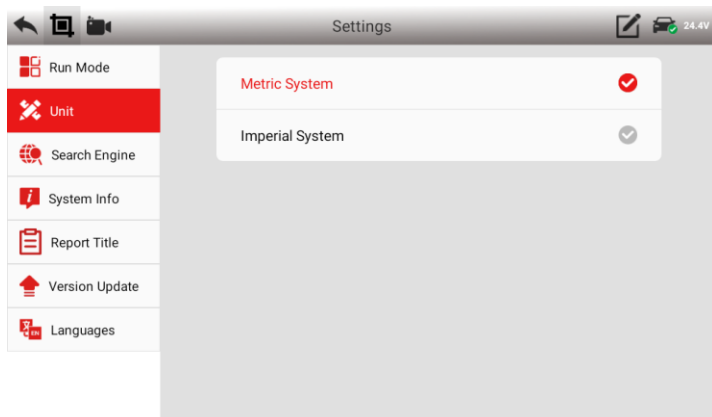


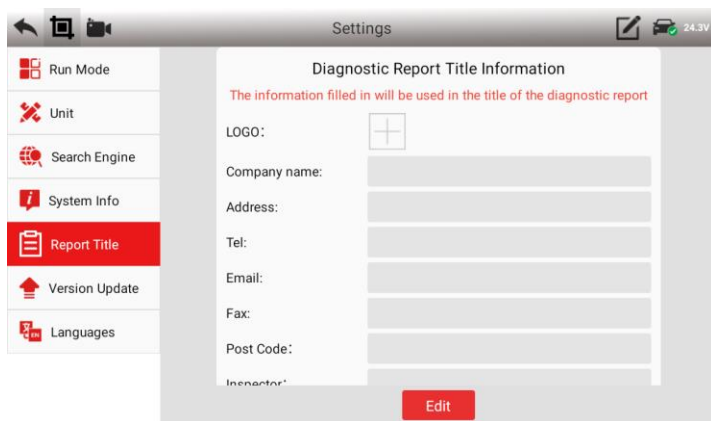
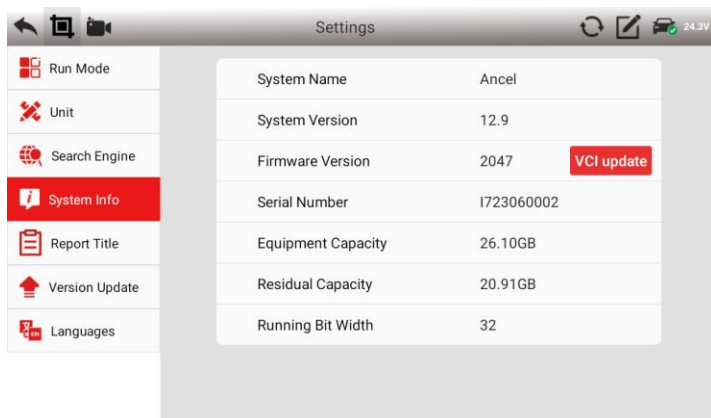
The screenshot shows a web interface titled "Feedback". At the top, there are navigation icons (back, home, camera) and a status bar on the right showing a car icon, a green checkmark, and the text "24.3V". The main form area contains three sections: a "Title" field with the text "20230805051321[Abnormal reading of fault code]", a "Complaint Content:" label followed by a large empty text area, and an "Attachments" section with a square button containing a plus sign. At the bottom center, there is a red "Submit" button.

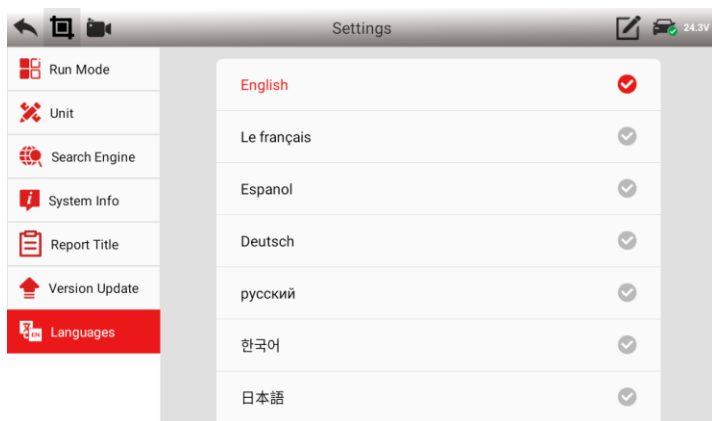
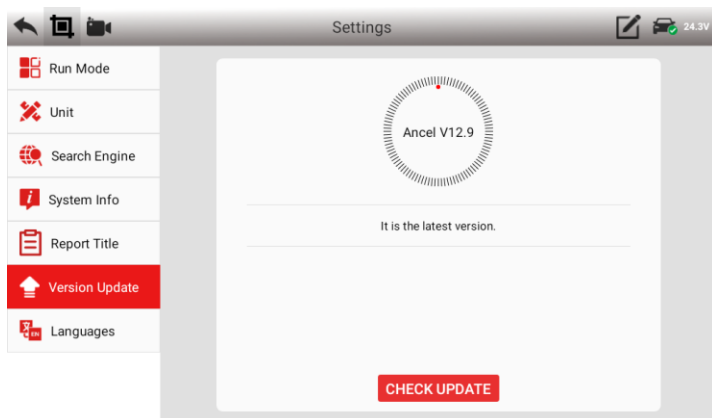
## 3.6 Settings



The screenshot shows a web interface titled "Settings". On the left is a sidebar menu with the following items: "Run Mode" (highlighted in red), "Unit" (with a wrench icon), "Search Engine" (with a magnifying glass icon), "System Info" (with an 'i' icon), "Report Title" (with a document icon), "Version Update" (with an upward arrow icon), and "Languages" (with a language icon). The main content area on the right has a title bar with a pencil icon and a status bar with a car icon, a green checkmark, and the text "24.3V". Below the title bar, there are two rows of settings: "Diagnosis" with a red checkmark icon, and "Demo" with a grey checkmark icon.



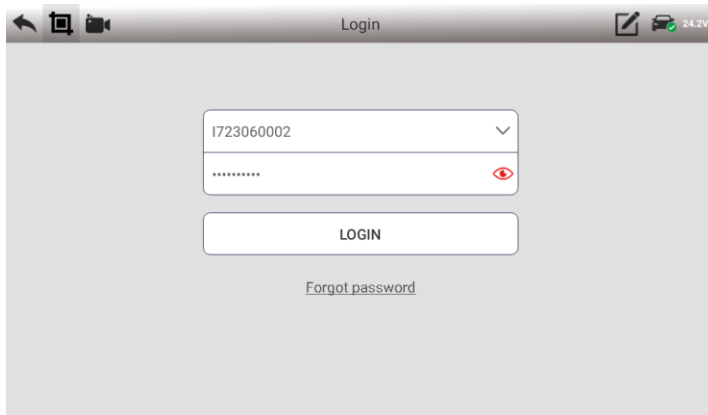




## 4. Product Activation

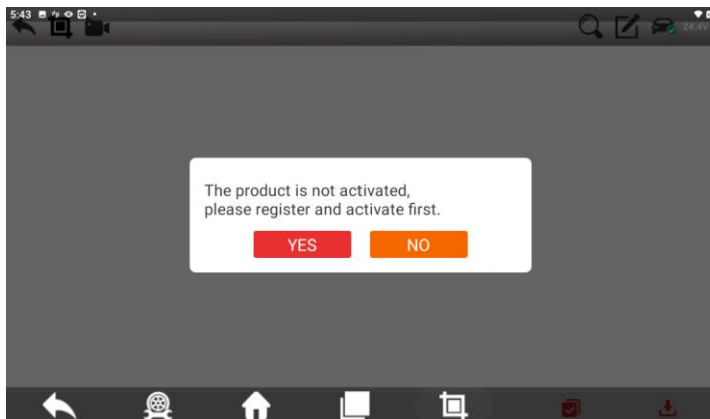
Enter the **【Update】** function, input the serial number and the password (you can find the password in the password envelope).

(1) Click **【Login】** , and a prompt box will pop up.



The screenshot shows a mobile application interface with a dark grey header bar. On the left of the header are icons for back, home, and camera. In the center is the word "Login". On the right are icons for a document and a car with a green checkmark and "24.2V". The main area is light grey and contains two input fields stacked vertically. The first field has the text "I723060002" and a downward arrow icon. The second field has a red eye icon on the right. Below these fields is a white button with the text "LOGIN". At the bottom, there is a link that says "Forgot password".

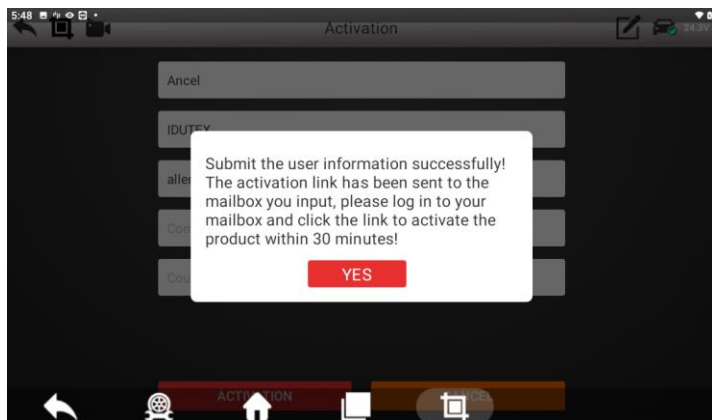
(2) Click **【Yes】** to fill in the activation information.



(3) After the information is filled out, click **【ACTIVATION】**.

A screenshot of a mobile application interface titled "Activation". The title is centered at the top of the screen. Below the title, there are five white input fields stacked vertically, each with a placeholder label: "First Name", "Last Name", "Email", "Company", and "County/Region". At the bottom of the screen, there are two buttons: a red button labeled "ACTIVATION" and an orange button labeled "CANCEL". The background of the screen is dark gray. At the top, there is a status bar showing the time 5:43 and various icons. Below the status bar is a dark navigation bar with several icons.

(4) Click **【Yes】** , complete the product activation.



## 5. Cleaning and maintenance and warranty

### 5.1 Cleaning and maintenance

- (1) Do not disassemble it, try to handle it gently to avoid impact.
- (2) Place the fault diagnosis device in a flat, dry, temperature-friendly and dust-free place and avoid high temperature and humidity, excessive smoke, easy vibration, direct sunlight, and strong magnetic field storage environment.

- (3) If the vehicle test operation is not performed for a long time, please run the main machine regularly to avoid moisture.
- (4) Unplug the power plug when not in use to avoid aging of electrical components caused by long-term power.
- (5) When the host is dirty, please disconnect the power before cleaning.
- (6) Do not use a cleaning agent with a corrosive function or any rough cloth to clean the main unit. Only use a soft cloth and a neutral detergent.
- (7) The surface of the screen can be cleaned with a special wiper for the LCD screen.
- (8) Do not place anything on the screen to avoid cracking of the screen or damage to internal components.

## **5.2 Warranty**

This applies only to products purchased from a product dealer that has been authorized by OBDSPACE. If products are purchased from anyone other than a OBDSPACE authorized product dealer, buyers will be solely responsible for the cost of product maintenance services and will not be eligible to obtain any warranty from OBDSPACE .

### **(1) Product acceptance**

When you receive the product, please be sure to open the

package check.

Please carefully check the product category and quantity according to the attached list. If there are any shortages, errors, damages and other unpredictable abnormal conditions, please keep all the documents of the product and notify us immediately. Otherwise it is considered a waiver of the claim.

## **(2) Product warranty**

Beginning on the date of purchase(subject to valid purchase proof and effective warranty card of the product), if the product suffers performance failure within one month which is not caused by deviation from the recommended operation or by uncontrollable environmental events, you can choose to have evaluation via our maintenance service or replacement of the product with the same model. After that, there is one year warranty service for the main unit, connectors and power adapter.

## **(3) Product Software Update**

Two-year free software update since activation of product, and will be charged annually after free update session.

## **(4) Not in the scope of the free warranty**

A. Failures, defects or flaws not directly related to the quality of the OBDSPACE products, including but not limited to failing to use the product according to the user manual's instructions,

crash, fall, disassemble by anyone other than a OBDSPACE approved service person, connecting improper accessories, damage owing to impact because of improper transport or storage of the product, etc.

B. Natural wear and tear of the product: including but not limited to cover, keypad, touch screen, accessories, etc.

C. Main unit serial number and warranty card serial number discrepancy, product quality inspection tag or bar code removed, altered or damaged.

D. Maintenance and modification without the approval of OBDSPACE or its distributors.

## **(5) Product warranty program**

When the product needs to be repaired, please send the product to the local distributor or OBDSPACE, and attach the purchase certificate and warranty card, fill in the following information: company name, contact name, phone number, problem description, purchase invoice.

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**Note:** The valid purchase certificate is an important warranty service certificate. To protect your legal rights, you must obtain a formal invoice from the dealer when purchasing the machine. The name, model number, serial number and purchase date of the product should be clearly stated on the invoice. It is covered with

the official seal of the dealer.

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## **(6) Over-warranty product maintenance regulations**

If the product needs to be repaired by our company after the maintenance period, we will charge the maintenance fee appropriately, and the freight will be borne by the user.

For products that have passed the warranty period, our technical support personnel will fax the maintenance cost to the user, and will repair it after confirmation by the customer. After confirming, the customer will pay the repair fee to the designated account of our company. After the maintenance fee is received, our company will Can be repaired.



**OBDSpace TECHNOLOGY CO.,LTD**

D03, Block A, No.973 Minzhi Ave, Longhua District.

Shenzhen, Guangdong, China

Email: [support@anceltech.com](mailto:support@anceltech.com)

Web: [www.anceltech.com](http://www.anceltech.com)

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

### **FCC Radiation Exposure Statement**

- This device complies with FCC SAR exposure limits set forth for an uncontrolled environment. SAR compliance for using the equipment in close proximity to the human body has been evaluated at 0mm. This equipment must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.
- 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.