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Disclaimer

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OBDSTAR shall not be liable for any direct, indirect, special, incidental, or consequential damages, including but not limited to loss of profits.

Note: Please read this manual carefully—especially the safety precautions—before operating or performing maintenance on the device.

Support

Website: https://www.indusdiag.com/

Service Hotline: +86-755-86707161

E-mail: sales@indusdiag.com

If you are located outside China, please contact your local authorized dealer for technical support.

Safety Information

To ensure your safety and the safety of others, and to prevent damage to the diagnostic tool and the air conditioning system, all personnel operating this tool must read and follow the safety precautions outlined in this manual.

Due to the wide variety of procedures, tools, components, techniques, and service practices used in air conditioning maintenance, as well as the diverse range of diagnostic applications and systems the tool may be used to test, this manual cannot anticipate every possible scenario or provide specific safety guidance for all conditions. It is the responsibility of the air conditioning service technician to fully understand the system being diagnosed and to apply appropriate repair methods and testing procedures. When performing tests, always use proper operating methods to avoid endangering yourself or others in the work area, and to

prevent damage to the tool or the air conditioning system under test.
Before using the device, consult and follow all safety instructions and applicable testing procedures provided by the manufacturers of both the air conditioning system and this diagnostic tool. Read, understand, and comply with all safety information and warnings in this manual, and operate the tool strictly in accordance with its instructions.

Safety Instructions

The safety information provided here covers all situations known to the Company. However, the Company cannot identify, anticipate, or provide guidance for every possible hazard. The operator must ensure that all maintenance operations are performed in a manner that does not compromise personal safety.

⚠Danger: While the air conditioning system is operating, excise caution regarding the high voltage present on the main board and the high-speed rotation of the fan blades. Avoid accidental contact, electric shock, or injury from being struck by rotating parts. When diagnosing outdoor units, always be aware of fall hazards and the risks associated with working at heights to prevent personal injury or death.

Safety Warnings

- Always perform air conditioner diagnostics in a safe environment.
- Keep the diagnostic tool dry and clean, and away from gasoline, water, and oily substances. If necessary, clean the device surface with a clean cloth lightly dampened with a mild detergent.
- Avoid placing the diagnostic tool on electrical distribution boxes, as strong electromagnetic interference may cause equipment damage.
- Keep this product away from magnetic sources, as magnetic fields may erase stored data.
- Do not use this product in high-temperature environments or areas with flammable gases (e.g., gas stations).
- Do not use the device during a thunderstorm to avoid lightning strikes or electrical hazards.
- Always ensure proper electrical connection when using the air conditioning diagnostic tool to prevent electric shock or other injuries.
- Wear ANSI-compliant safety goggles.
- Keep clothing, hair, hands, tools, and test equipment clear of operating or hot air conditioning components.
- Before performing maintenance, familiarize yourself with the work environment and the nature of the issue to be addressed. Prepare the necessary tools and equipment. When obtaining a maintenance permit, ensure appropriate safety precautions are in place and promptly notify relevant personal (process operators and maintenance staff) to provide supervision.
- When inspecting or repairing an air conditioning system, always shut down and de-energize the unit before servicing. Never perform inspections while the system is energized or in operation.

- Mechanical welding and piping work must comply with the safety standards specified in the *Safety Technical Regulations for Welders* and the *Safety Technical Regulations for Fitters and Pipefitters*.
- Inspections involving 380 VAC or 220 VAC power supplies must be conducted in compliance with the *Regulations on the Safety Management of Power and Low-Voltage Electricity*.
- Ensure the insulation resistance of the indoor and outdoor units is at least 2 MΩ. Protect against exposure to corrosive gases, dust, and moisture.
- When cleaning equipment such as evaporators and condensers, any corrosive, volatile, toxic, or hazardous chemicals used must be handled or applied in accordance with the *Regulations on the Storage and Use of Hazardous Chemicals*.
- After maintenance, carefully inspect all serviced air conditioner components to ensure they have been safely and properly restored. Account for all tools, parts, and materials to prevent loss or items being left inside the equipment. Ensure the work is complete, materials are accounted for, and the site is clean. Once normal operation is confirmed, promptly notify relevant personnel (process and maintenance staff).
- When removing or installing a programmable read-only memory (PROM) module, the operator must wear a grounded anti-static wrist strap, attaching one end to the wrist and the other to a designated grounding point, to prevent electrostatic discharge (ESD) from damaging the circuitry on the module board.
- When servicing the air conditioning system, refer to the instructions in the service manual and strictly follow the specified diagnostic procedures and safety precautions. Failure to do so may result in personal injury or damage to the diagnostic tool.
- To prevent damage to the diagnostic tool or inaccurate data readings, ensure the connection to the air conditioner's diagnostic port is clean and secure.
- Radio frequency emissions from this device may interfere with implantable medical devices (such as pacemakers or cochlear implants) or personal medical devices (such as hearing aids). If you use such devices, consult the manufacturer for usage restrictions.
- In medical facilities, please comply with applicable regulations or guidelines. Power off this device when in proximity to medical equipment.
- The wireless function of this device may interfere with aircraft navigation and communication systems. Comply with airline regulations. When wireless device use is prohibited, turn off this device.
- This device and its accessories contain small parts. Keep them out of reach of children to prevent accidental damage, choking, suffocation, or other hazards.
- This product has a built-in lithium battery. To ensure user safety, do not leave it in high-temperature environments or under direct sunlight.
- Do not connect 110V-240V voltage to any type other than LNS high-voltage.

Contents

Trademark 1
1 Manual Overview 6
1.1 Conventions 6
1.1.1 Bold Text and Square Brackets 6
1.1.2 Terminology 6
1.1.3 Tips and Notes 6
2 Product Overview 6
2.1 AC600 Service Checker 7
2.1.1 Interfaces and Functions 7
2.1.2 Power Supply 8
2.1.3 Accessories 8
2.1.4 Specifications 9
3 Android App - Device User Guide 10
3.1 Power On 10
3.2 AC600 Program 12
3.3 Connecting the Device and Application 14
3.4 Power Off 17
3.5 Personal Center 17
3.5.1 User Registration 17
3.5.2 User Login 19
3.5.3 My Info 21
3.6 Upgrade 22
3.7 Support 24
3.7.1 Manual 24
3.7.2 FAQ 25
3.7.3 Accessories Description 26
3.7.4 Log Upload 26
3.8 Settings 27
3.8.1 VCI Info 27
3.8.2 Languages 27
3.8.3 Units 28
3.8.4 Workshop 28
3.8.5 Clear Cache 29
3.8.6 About 29
3.9 Diagnostic Operations 30
3.9.1 Diagnostic Procedure 30
4 PC-Side - Device User Guide 36
4.1 Power On 37
4.2 Connecting the Device and Application 38
4.2.1 USB Connection 38

4.2.2 Bluetooth Connection 39
4.3 AC600 Program 40
4.4 Power Off 42
4.5 Personal Center 42
4.5.1 User Registration 42
4.5.2 User Login 44
4.5.3 My Info 45
4.6 Upgrade 47
4.7 Support 49
4.7.1 Product Description 49
4.7.2 FAQs 50
4.7.3 Accessories Description 50
4.7.4 Log Upload 51
4.8 Settings 51
4.8.1 VCI Info 52
4.8.2 Languages 52
4.8.3 Units 53
4.8.4 Font Size 53
4.8.5 About 53
4.9 Diagnostic Operations 54
4.9.1 Diagnostic Procedure 54
5 Maintenance and Care 62
6 Using the Battery and Charger 63
7 Ordering Information 63
8 Customer Service Center 64
9 Warranty 64

1 Manual Overview

This manual contains instructions for using the device.
The illustrations in the manual may include all available modules and optional equipment for your system. For information on and purchase of additional optional modules and accessories, please contact your local sales agent or dealer.

1.1 Conventions

The following conventions are used in this manual:

1.1.1 Bold Text and Square Brackets

In the body of the manual, bold text and square brackets are used to highlight selectable items such as buttons and menu options.
For example:
Tap **[OK]**.

1.1.2 Terminology

The term "select" means to highlight a button or menu item and then tap it to confirm the selection.

1.1.3 Tips and Notes

The following message types are used in this manual:
Tips:
These provide helpful information, such as additional usage instructions, shortcuts, and practical suggestions.
Notes:
These alert you to situations that should be avoided to prevent damage to the diagnostic tool or air conditioning system.

2 Product Overview

This product is a new-generation air conditioning fault diagnostic tool developed for internet applications, supporting both Windows and Android operating systems. Building on INDUSDIAG's proven expertise in fault diagnosis technology, it inherits key advantages such as broad compatibility across AC brands and models, diverse functionality, and highly accurate test data. By establishing communications between the AC system and the

diagnostic tools, PCs, or Android mobile devices via a professional diagnostic connector, the product enables comprehensive fault diagnosis for all brands, models, and systems.
Designed to leverage the benefits of mobile internet, this product seamlessly integrates with resources from other INDUSDIAG products and services.

2.1 AC600 Service Checker

2.1.1 Interfaces and Functions

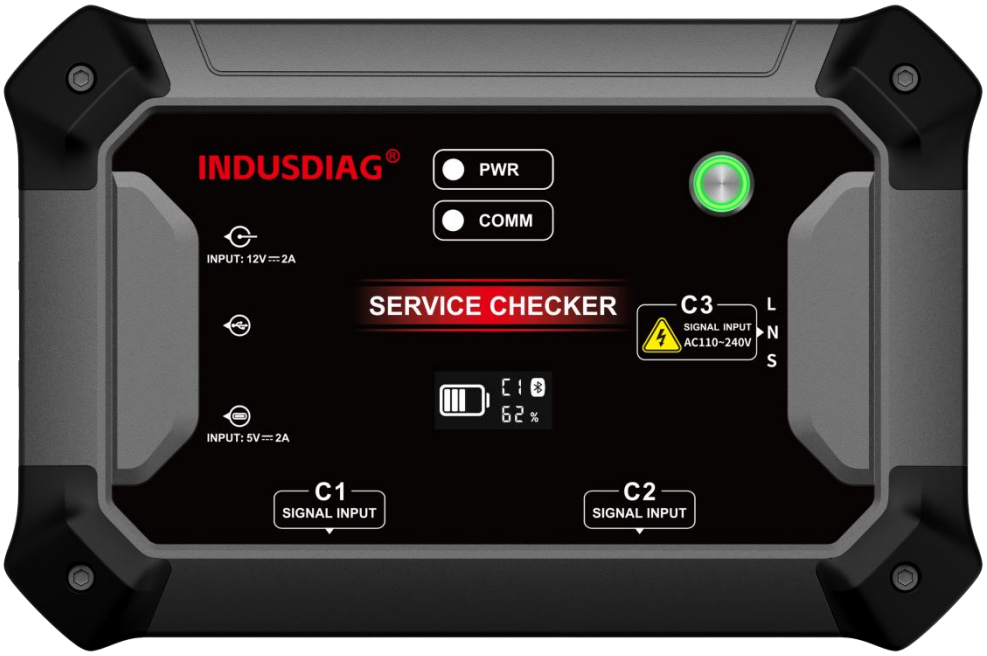


Fig. 2.1.1-1 Front View of the AC600 Service Checker

1）C1: Signal Input Port
2）C2: Signal Input Port / Module board driver / Adapter interface
3）C3: Signal Input Port (LNS Diagnostic Interface). Supports AC 110-240 V. Caution: High voltage is present during operation.
4）Type-C interface.
5）DC charging interface
6）USB communication interface
7）Power switch and indicator light
8）Power indicator light indicates whether the device is charging.
9）Communication indicator light
10）OLED display – shows battery level and connection state with the host computer

Caution: Do not charge when the tool temperature exceeds 50°C. Avoid exposure to direct sunlight. The following abnormal conditions may occur under certain operating scenarios.

1）When the ambient temperature exceeds 50°C and the tool is not connected to a power source, the power indicator will turn off, but the OLED display will continue to show the battery state-of-charge normally.

2）When the ambient temperature exceeds 50°C and the tool is connected to a power source, the power indicator will blink, but the OLED display will continue to show the battery state-of-charge normally.
3）When no battery is installed and the tool is connected to a power source, the power indicator blinks regardless of whether the tool is on or off. After startup, the OLED display shows a "×" in the battery icon, but the state-of-charge percentage is displayed normally.
4）When the battery is faulty and the tool is connected to a power source, the power indicator blinks regardless of whether the tool is on or off. After startup, the OLED display shows a "×" in the battery icon, but the state-of-charge percentage is displayed normally.

2.1.2 Power Supply

The diagnostic tool can be powered by:
1) An internal rechargeable battery
2) DC12V power supply
The AC600 Service Checker can be powered by its internal rechargeable battery, which provides up to 8 hours of operation when fully charged. The device can also be powered directly via an DC12V power adapter. When connected, the DC12V adapter can recharge the internal battery.

2.1.3 Accessories

Different configurations include different accessories. Some functions require specific accessories to operate. For more information or to place an order, please contact our customer service department or an authorized dealer. Below is the complete list of harnesses compatible with the AC600 Service Checker.

Part Name	Description
A001	4-meter DB9 main cable
A002	4-in-1 RS485 adapter cable
A003	2-in-1 adapter cable for Daikin HVAC systems
A004	Adapter cable for LG HVAC systems
A005	Adapter cable for TCL HVAC systems
A006	Adapter cable for McQuay HVAC systems
A007	Adapter cable for Samsung HVAC systems

A008	3-in-1 adapter cable
A009	Jump-1
A010	Jump-2
A011	Jump-3
A012	Jump-4
A021	Low-voltage 4-pin adapter cable for Midea HVAC systems
A022	2-in-1 Adapter Cable for Toshiba HVAC Systems
A023	Adapter Cable for Midea V4+ Systems
A024	Adapter Cable for Midea V4+ Systems

2.1.4 Specifications

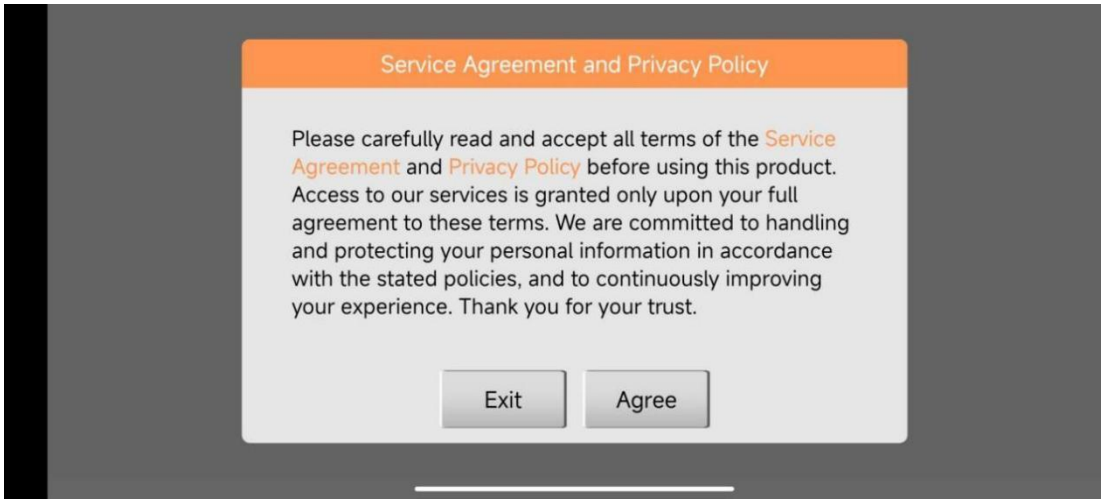
Operating System	Windows 10 and above, Android 8.0 and above
Processor	STM32F407ZGT6
Battery	3500 mAh, Polymer Lithium-Ion
Display	0.96-inch OLED, Monochrome (Black & White)
Display Resolution	128 x 64 pixels
Wireless Connectivity	Bluetooth 5.0 and above
Operating Temperature	-10 ℃ to 55 ℃ (14 ℉ to 131 ℉)
Storage Temperature	-20 ℃ to 70 ℃ (-4 ℉ to 158 ℉)
Weight	About 0.75 kg
Dimensions	176 mm x 115 mm x 31.7 mm
Warranty	1-year hardware warranty; software upgrades: TBC (effective from date of manufacture)

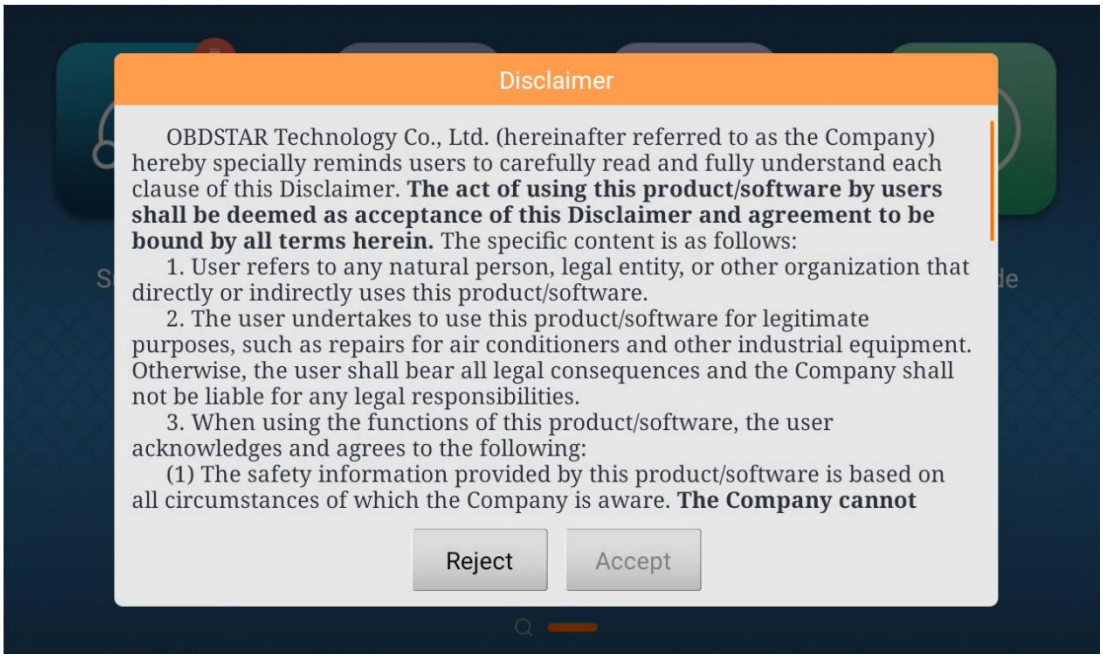
3 Android App - Device User Guide

Before using the AC600 Service Checker, please ensure that the built-in battery is sufficiently charged or that the device is connected to a DC power source (refer to the Power Supply section for details). The Android diagnostic app can be downloaded from INDUSDIAG product official website. (https://www.indusdiag.com/)

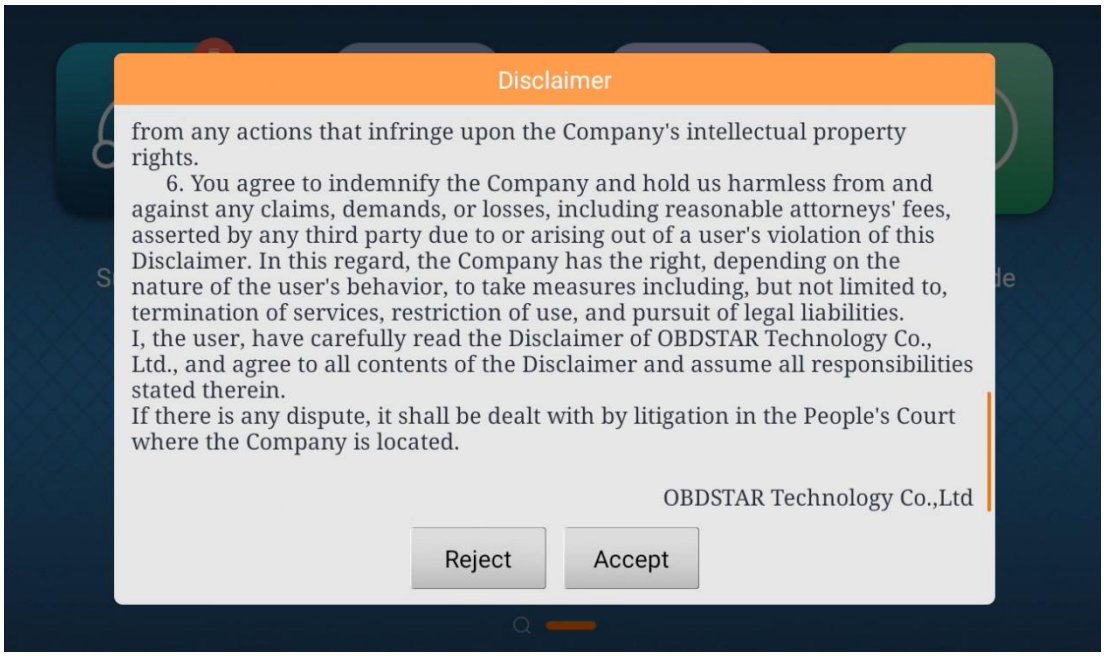
3.1 Power On

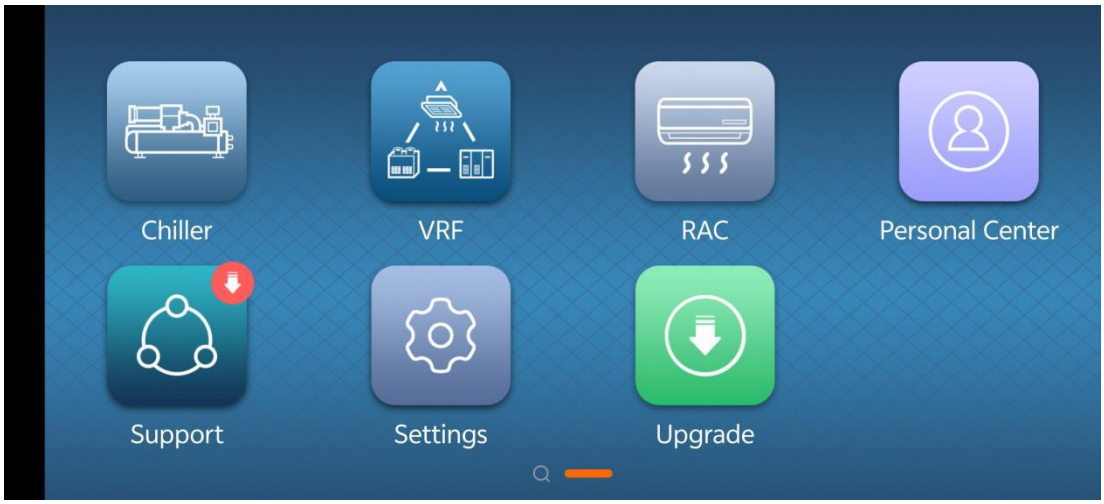
Press and hold the **[Power]** button located at the top-right corner of the front panel of the diagnostic tool for approximately 3 seconds to turn it on. The indicator light above the button will illuminate, indicating that the device has powered on successfully. Upon first launch, a popup titled "Service Agreement and Privacy Policy" will appear. Tap the links to view the detailed information. After reviewing, tap **[Agree]** to proceed. The system will then display a "Disclaimer" window. To exit the app, tap the **[Exit]** button.





Swipe the screen to read the Disclaimer in full. After completed, tap **[Accept]** to proceed. The system will then display the AC600 Program menu. (Tap **[Reject]** to exit the application.)



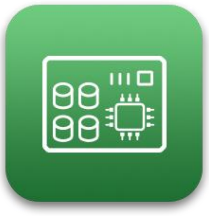


3.2 AC600 Program

Users can select and run different programs from the AC600 Program menu. The table below provides a brief description of each AC600 program. Please tap to select the program you wish to run.

Note: The list below is not exhaustive and is subject to the actual software downloaded.

Table 3.2 Android App – AC600 Programs

Program Name	Icon	Description
VRF		It supports comprehensive system data monitoring, centralized control via the communication bus, and brand-specific parameter configuration for multi-split air conditioning systems from various manufacturers.
Chiller		Includes whole unit diagnosis, wired controller operation, and specific parameter setting functions for screw chillers, centrifugal chillers, maglev chillers, and other types.
Module Board Driver		Enables independent driving of module boards to validate functionality after repair.

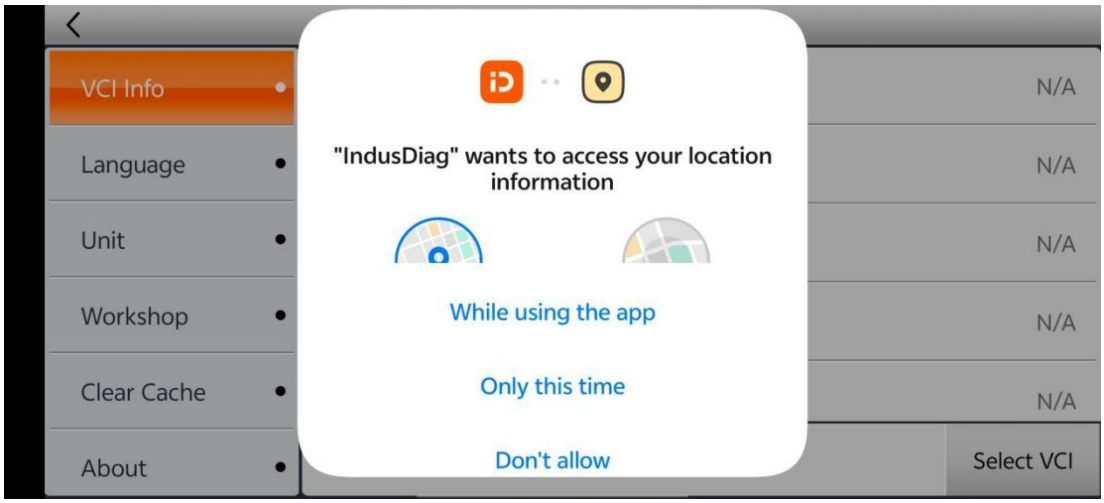
IDU/ODU Simulator		It supports using the AC600 to simulate either an indoor unit to test the outdoor unit or an outdoor unit to test the indoor unit—enabling rapid fault isolation.
Service Code Query		Used to calculate and generate secure access passwords.
RAC		Residential split-type AC diagnostics.
Personal Center		To view personal account information, etc.
Upgrade		Upgrades your applications and updates your diagnostic software.
Support		Allows you to view the manual and FAQs, and to upload logs.
Settings		Allows you to view the device serial number, select the device-to-Android connection method, set the application language, units, and workshop information, and more.

3.3 Connecting the Device and Application

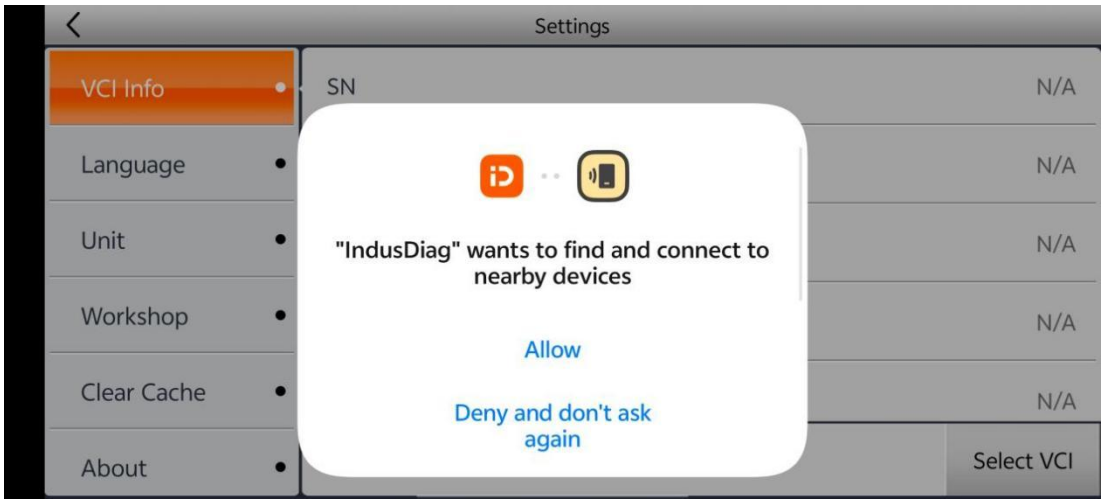
1) When connecting the device for the first time, go to **[Settings]** > **[VCI Info]**, and tap **[Select VCI]**. A prompt titled "Permissions Required" will appear, requesting access to Bluetooth.



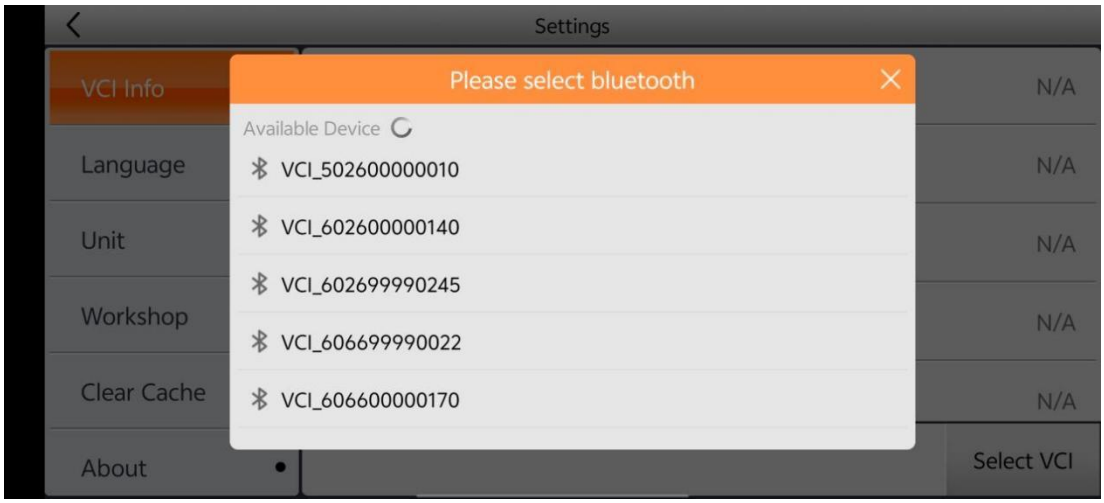
2) Tap **[Set up]**, and the system will display a dialog asking for location access permission. If you tap **[Cancel]**, you will remain on the Settings page, and the device will be unable to connect to the diagnostic application.



3) Tapping **[Allow using the app]** or **[Only this time]** will trigger a prompt asking for permission to find and connect to nearby devices. If you tap **[Don't allow]**, the Settings page will display the message: "Please grant [Location Access] and [Bluetooth] permissions to enable VCI Bluetooth scanning and connection!"



4) With Bluetooth enabled, after tapping **[Allow]**, tap **[Select VCI]** to open the Bluetooth device selection window. The system will begin scanning for nearby devices and display a list of found devices. If you tap **[Deny and don't ask again]**, the Settings page will display the message: "Please grant [Location Access] and [Bluetooth] permissions to enable VCI Bluetooth scanning and connection!"

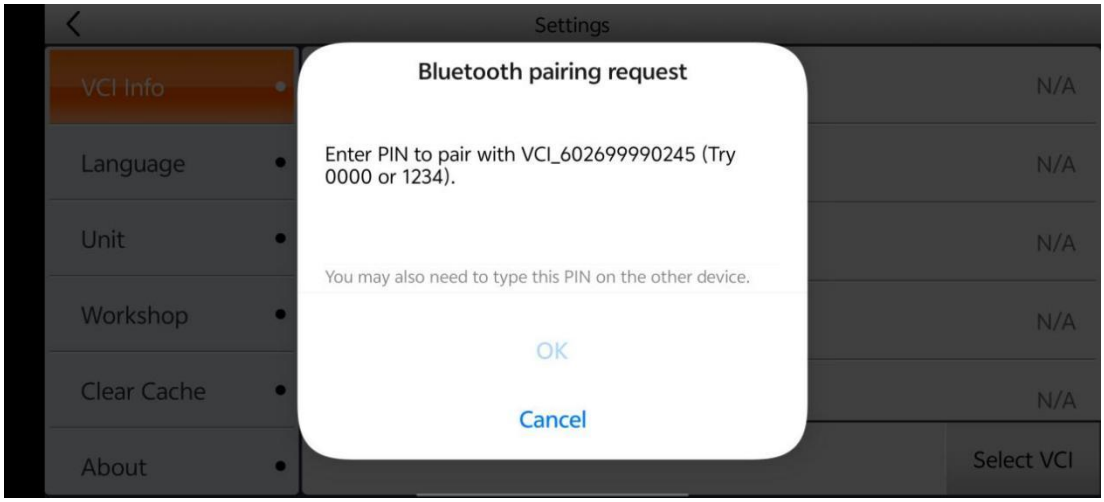


If Bluetooth is not yet turned on, a system prompt will appear asking whether to enable or disable Bluetooth.



5) During the initial pairing process, select the Bluetooth device whose name matches your

VCI's serial number from the scanned device list. For example, if your device's SN is 602600000245, choose the Bluetooth device named VCI_602600000245. Then a Bluetooth pairing request window will appear. Enter the required information as prompted and tap **[OK]**. A "Please wait a moment" loading spinner will appear. If you tap **[Cancel]**, the Settings page will display the message: "Bluetooth pairing canceled".

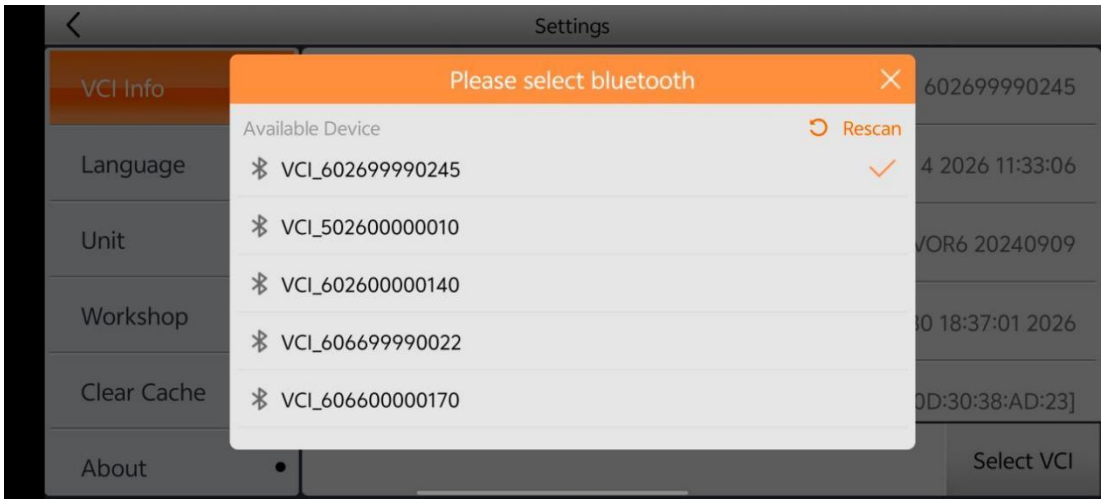




6) Once connected, the screen will display "VCI connected".



Tap **[Select VCI]**. As shown in the figure below, it indicates a successful connection.



Note: Devices that have been previously paired will automatically reconnect the next time they are used.

3.4 Power Off

Before turning off the AC600 Service Checker, you must terminate all air conditioner communication sessions. Forcing a shutdown during active communication may cause malfunctions in the control modules of certain air conditioning units. Please exit the diagnostic application before powering off the device.

To power off the device:

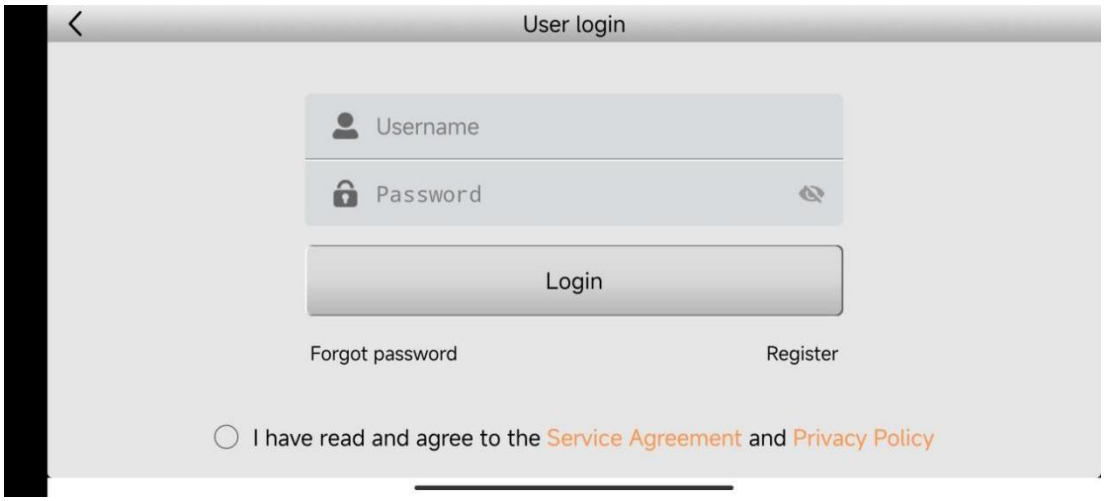
1) Press and hold the **[Power]** button for 3 seconds.

3.5 Personal Center

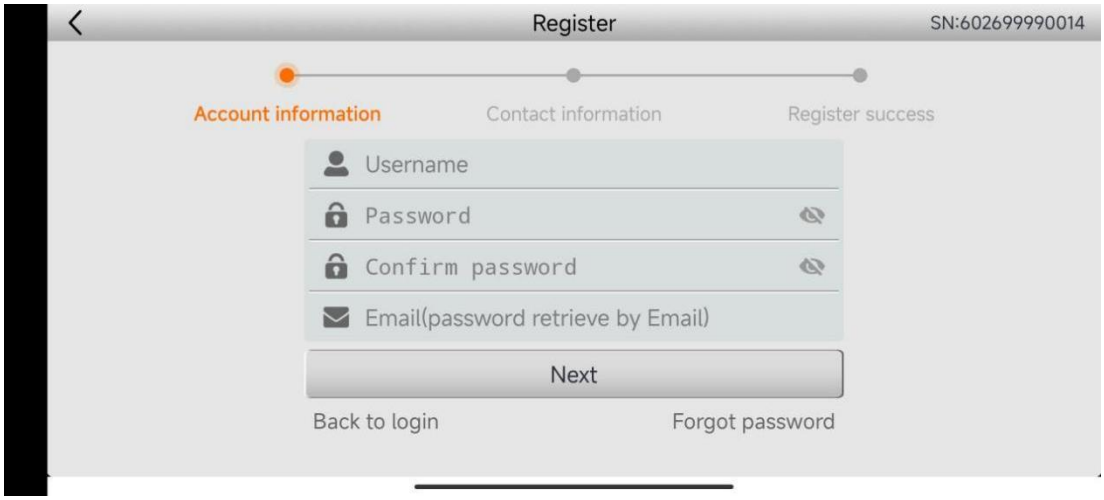
New users are required to register an account in the "Personal Center" before logging in to “Upgrade” and downloading software.

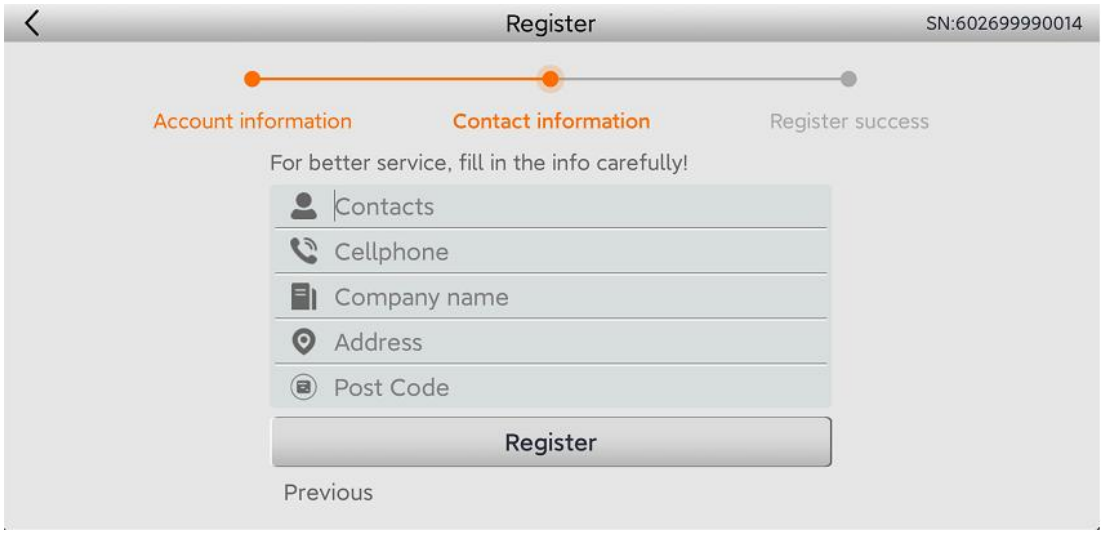
3.5.1 User Registration

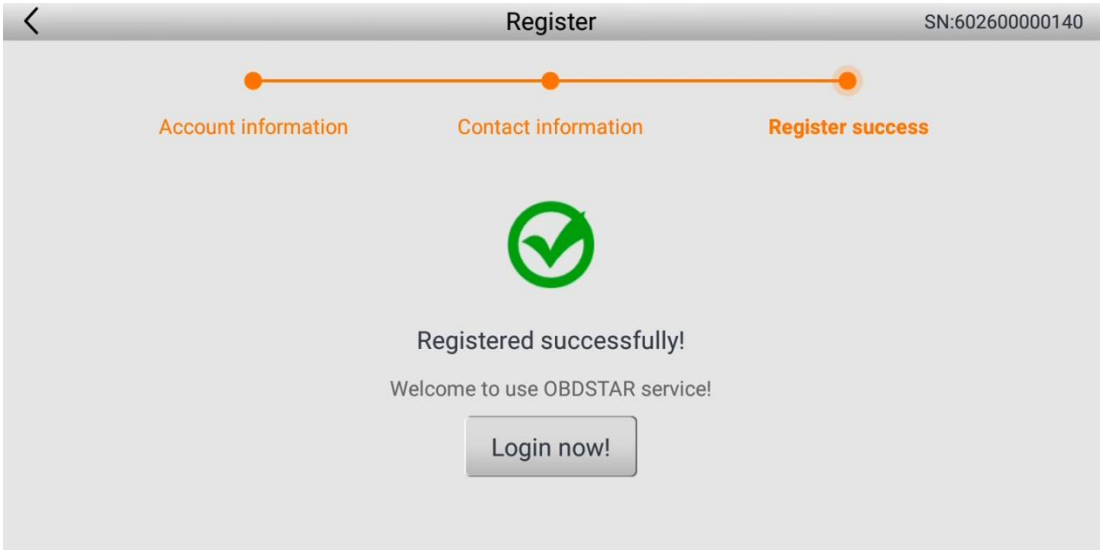
Tapping the **[Personal Center]** icon displays the login screen.



Tap the **[Register]** button in the lower right corner and proceed to the user registration interface.

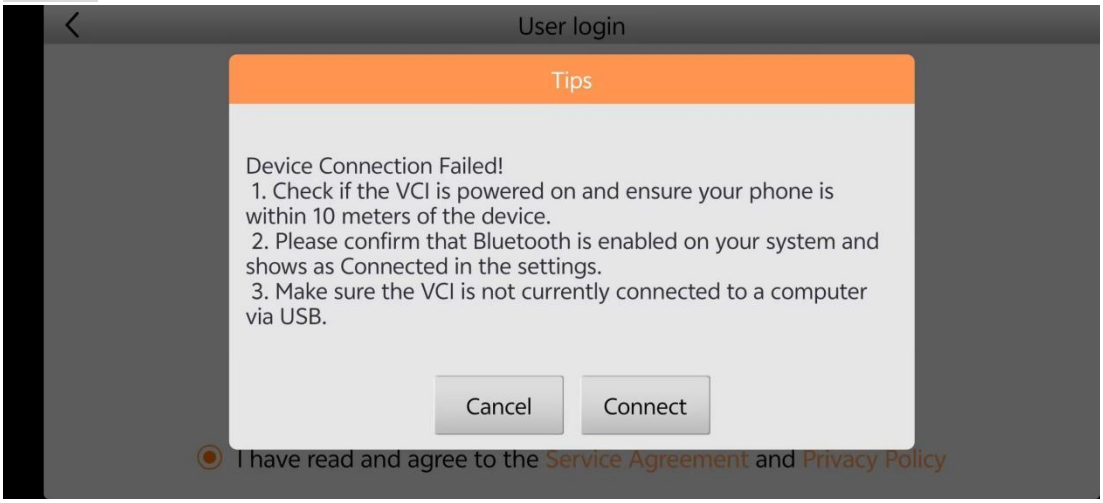






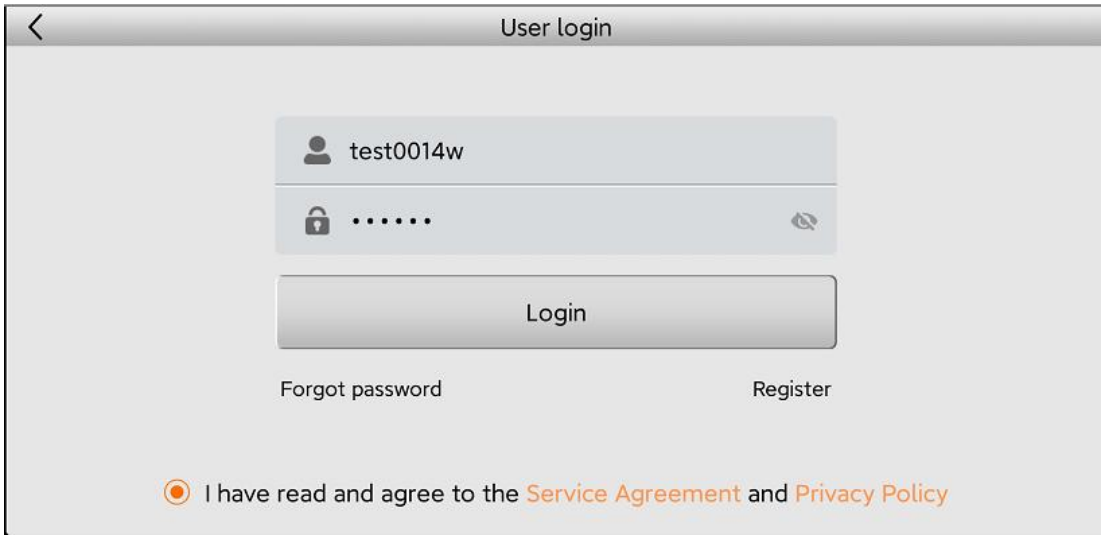
Fill in the required registration information. Once completed, you'll see a “Registered successfully!” message. Tap **[Login now!]** to continue.

Note: Please ensure the application is connected to the device before registration. Otherwise, a "Device Connection Failed!" prompt, as shown in the figure below, will appear.

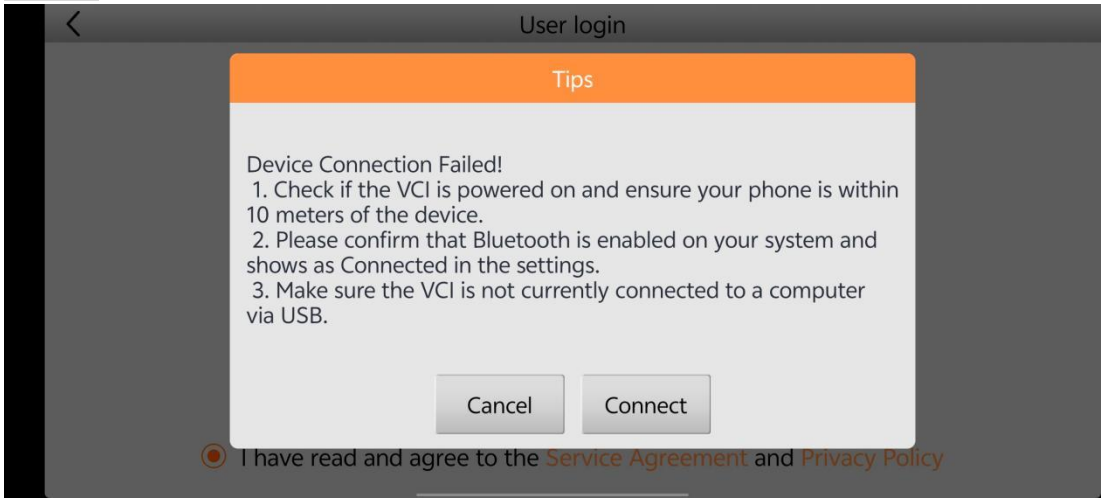


3.5.2 User Login

If you are already registered, enter your account and password, check the box for "I have read and agree to the Service Agreement and Privacy Policy", then tap **[Login]**.



Note: Please ensure the application is connected to the device before logging in. Otherwise, a "Device Connection Failed!" prompt, as shown in the figure below, will appear.

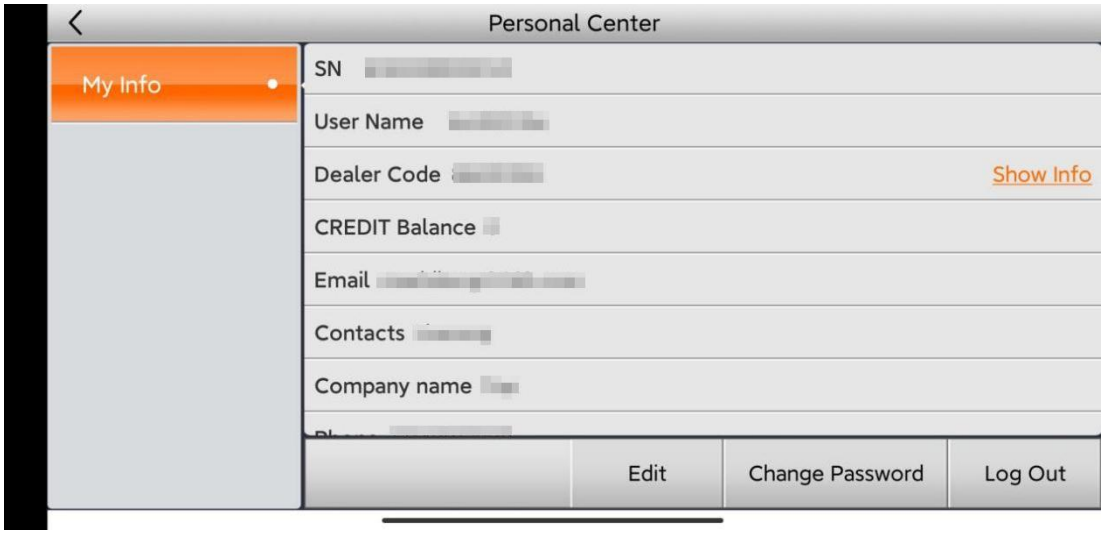


If you forget your password, tap **[Forgot password]** on the login screen to go to the password recovery page. Enter the required information to reset your password.

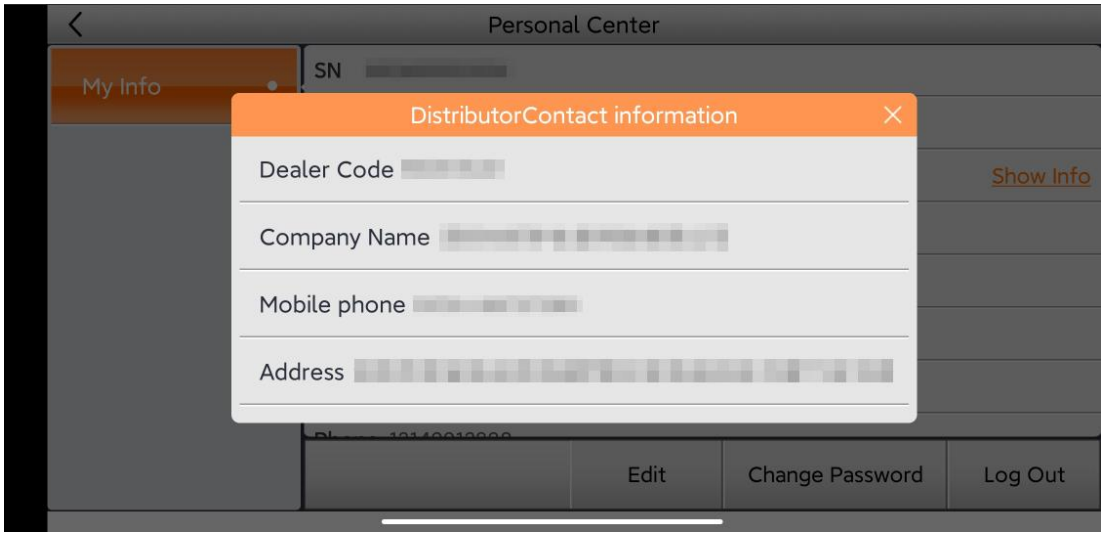


3.5.3 My Info

After logging in, the user's basic information is displayed, and contact details or password can be updated.



Tap **[Show Info]** in the "Dealer Code" field to see the contact details of the device's assigned dealer.



Tap **[Edit]** at the bottom of the My Info screen to update your personal contact details.



Tap **[Change Password]** at the bottom of the My Info screen to modify your password.



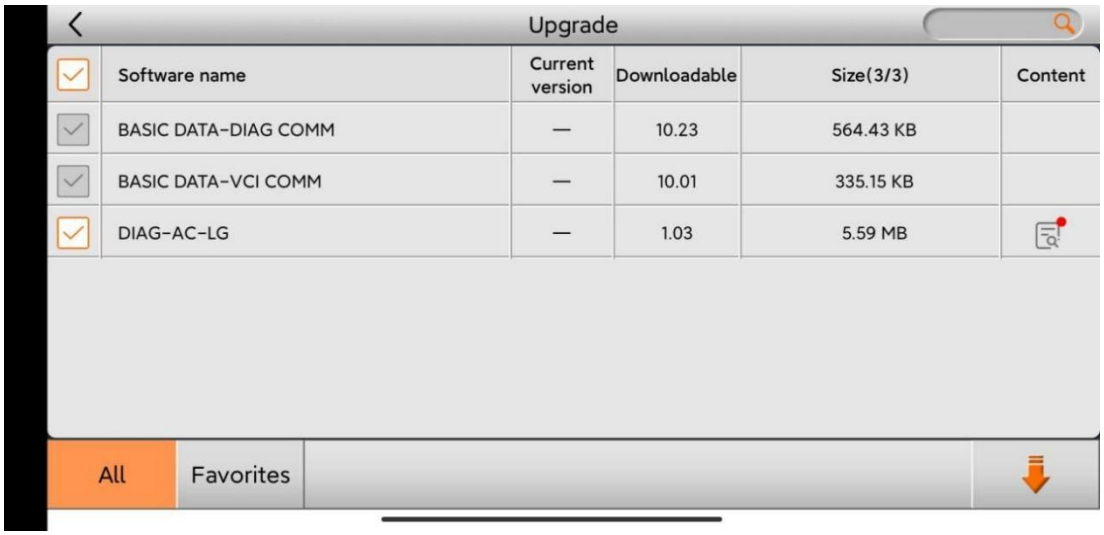
3.6 Upgrade

Users can download essential diagnostic data, air conditioning diagnostic software, data packages, and other required files through this feature module.

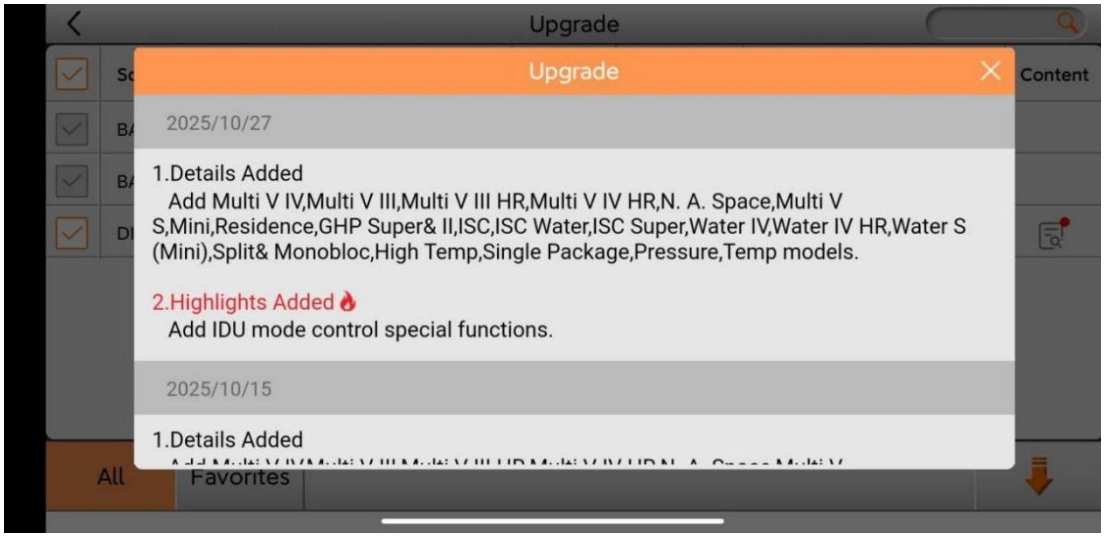
Follow the steps below to use it.

1) Log in to your account before using the Upgrade feature. (Refer to Section 3.6, Personal Center, for registration and login instructions.) After logging in, go to the Upgrade main screen, where all available updates are displayed. By default, all upgradable software items are selected. To deselect an optional item, tap the orange check box next to the software name. Grayed-out checkboxes indicate mandatory software that must be upgraded and cannot be deselected. If you only want to upgrade software from your Favorites (items you frequently use and have saved), tap the **[Favorites]** button in the lower-left corner, then select the desired software. After selecting the software to upgrade, tap the **Upgrade button** in the lower-right corner to begin the upgrade process. When the list contains many items, use the **search bar** in the upper-right

corner to quickly find specific software by entering keywords or letters.



2) On the Upgrade main screen, the last column displays the upgrade content for each software item. Tap the icon button corresponding to a specific software entry to view details about its version update.

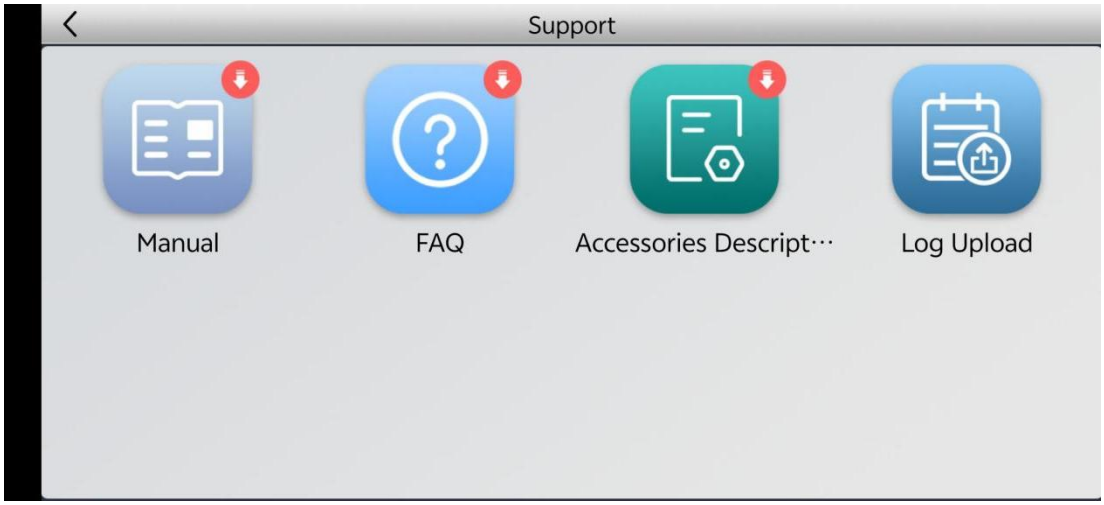


3) If you tap the Upgrade button in the lower-right corner again while an upgrade is in progress, a pop-up message will appear: "Downloading, please try again after the download finishes." Once a software item has finished downloading, a **checkmark icon** will appear in **column 5** of that row to indicate completion.



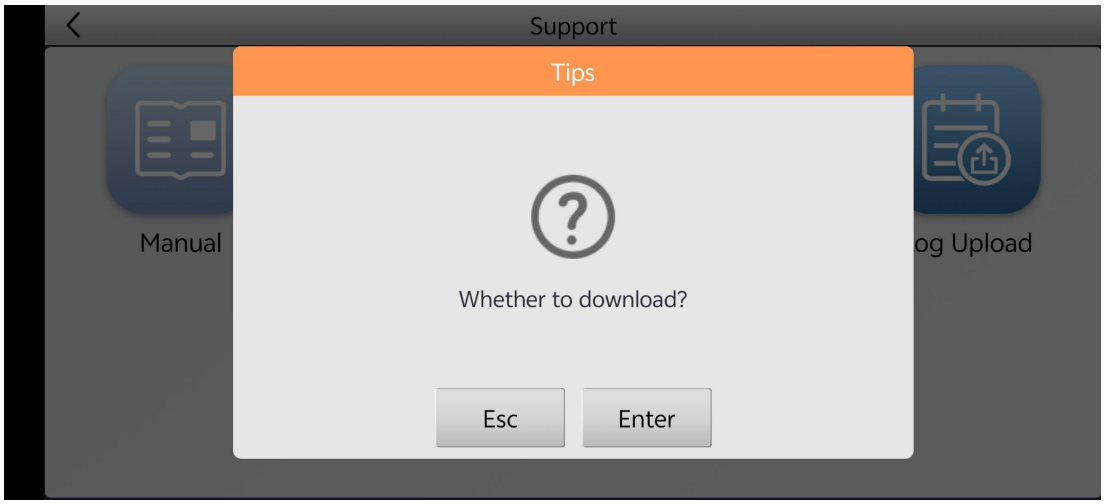
3.7 Support

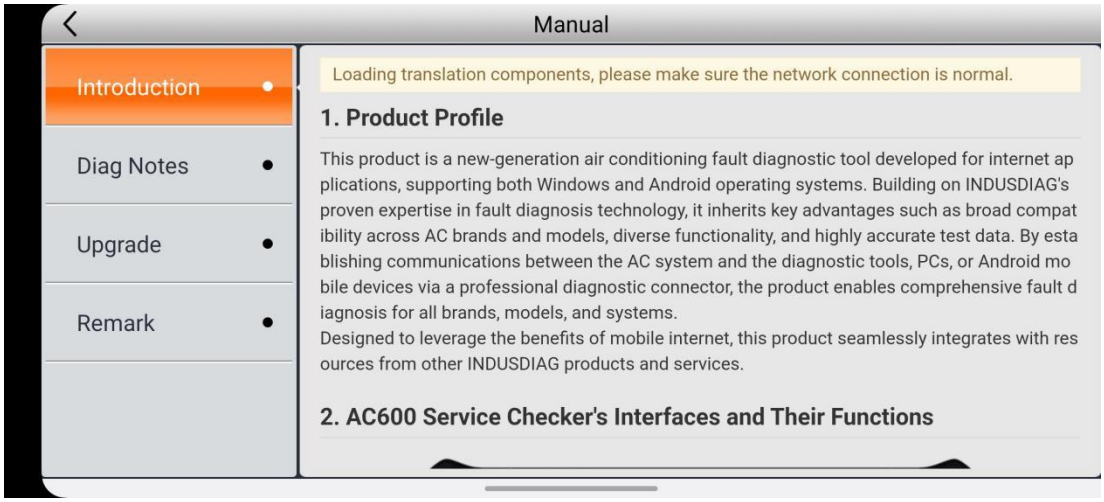
This module includes the following sub-modules: Manual, FAQ, Accessories Description, and Log Upload. The main Support page is shown in the figure below.



3.7.1 Manual

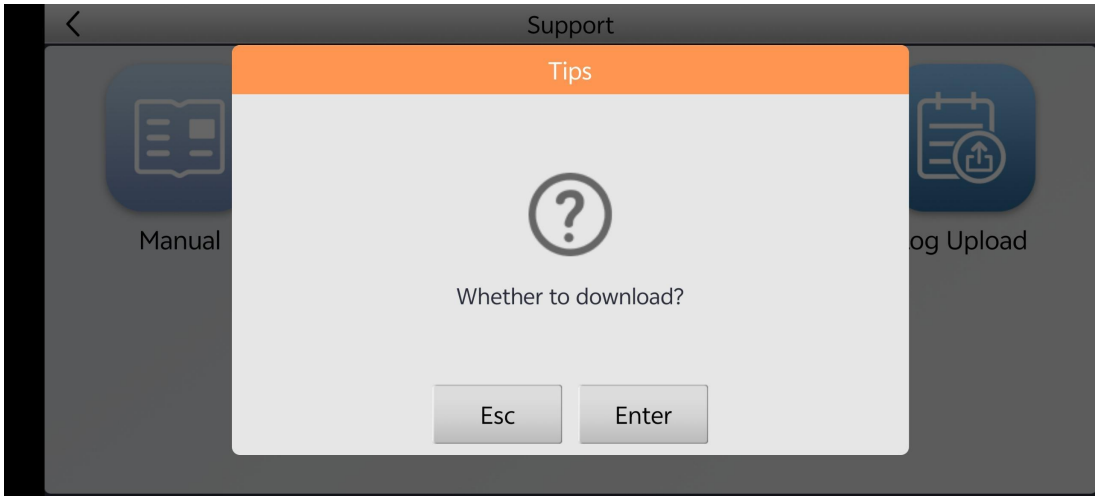
For first-time use, a download prompt will appear after tapping **[Manual]** on the Support main page. Download the manual to view its contents.

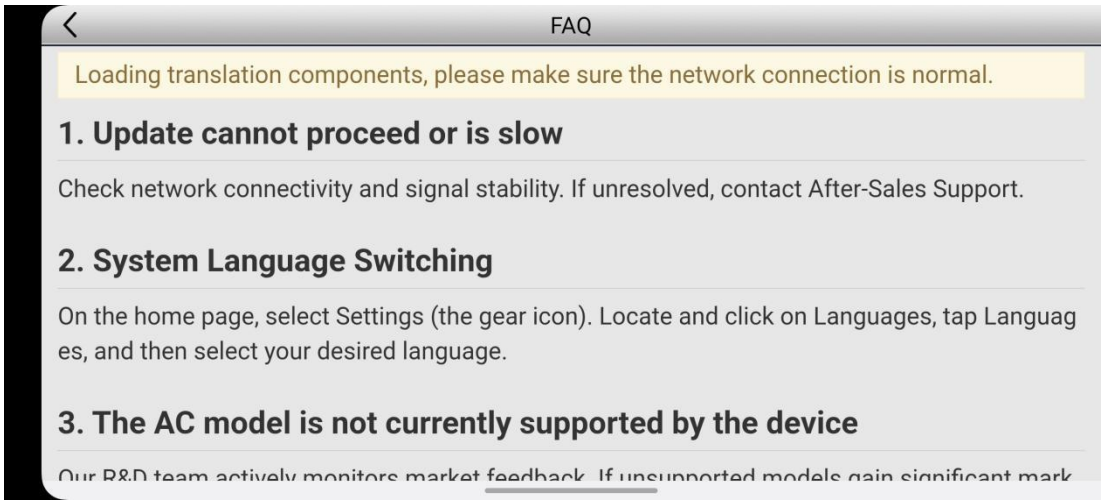




3.7.2 FAQ

For first-time use, a download prompt will appear after tapping **[FAQ]** on the Support main page. Download the FAQ to view its contents.





3.7.3 Accessories Description

For first-time use, a download prompt will appear after clicking **[Accessories Description]** on the Support main page. Download the Accessories Description to view its contents.



3.7.4 Log Upload

After selecting the **[Log Upload]** on the Support main page, the user can see the screen shown in the figure below. Tap **[Upload]** to upload your log.



3.8 Settings

This module includes the following sub-modules: VCI Info, Language, Units, Workshop, Clear Cache, and About.

3.8.1 VCI Info

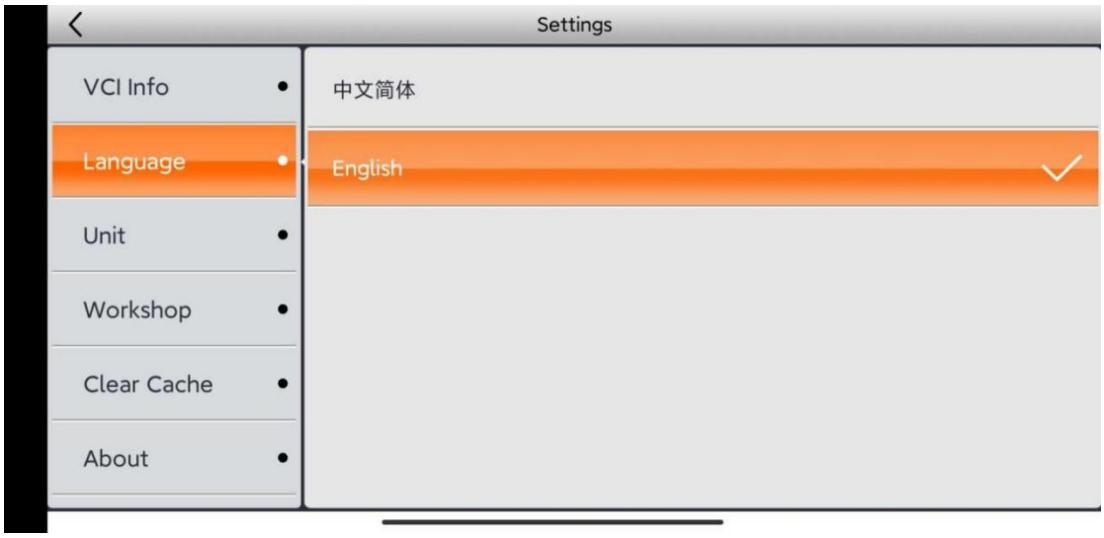
The user can see the page as shown in the figure below after tapping on **[Settings]** on the AC600 Program page.
VCI information contains serial number (SN), firmware version, hardware version, software version, and Bluetooth state.



3.8.2 Languages

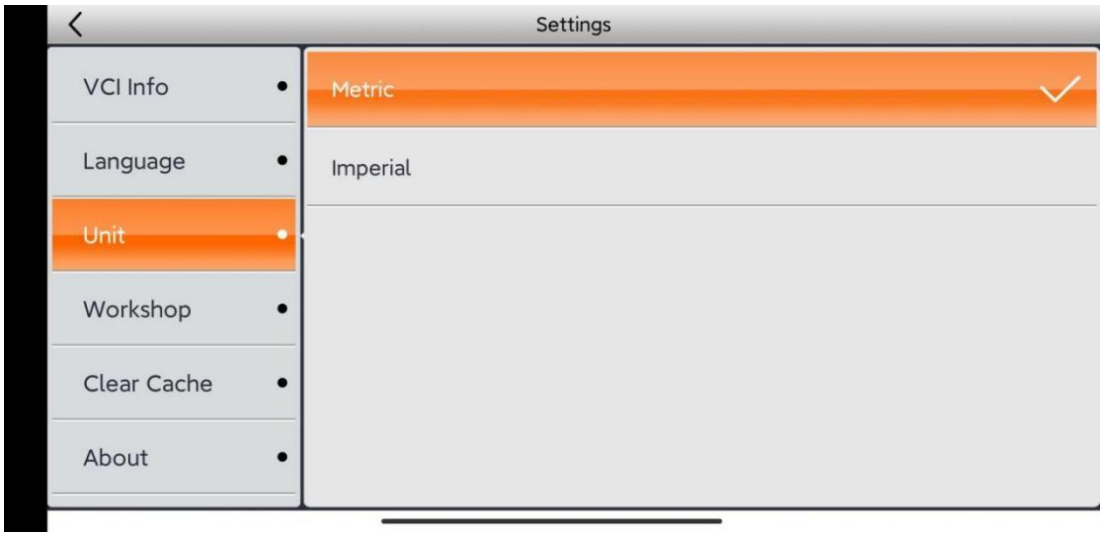
Tap **[Language]** on the Settings screen to view the language selection menu (see illustration

below). Choose from the languages supported by the device.



3.8.3 Units

Tap **[Unit]** in Settings to choose between **[Metric]** and **[Imperial]**. The selected unit system will apply across all device functions.



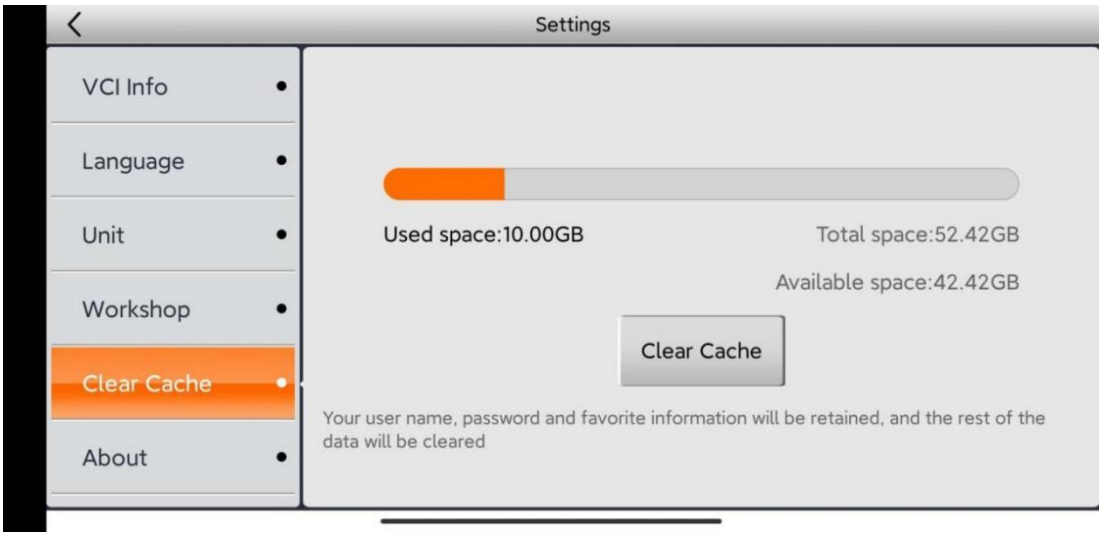
3.8.4 Workshop

When users tap **[Workshop]** on the Settings main screen, the screen shown below appears. Users can enter or update their workshop details here.



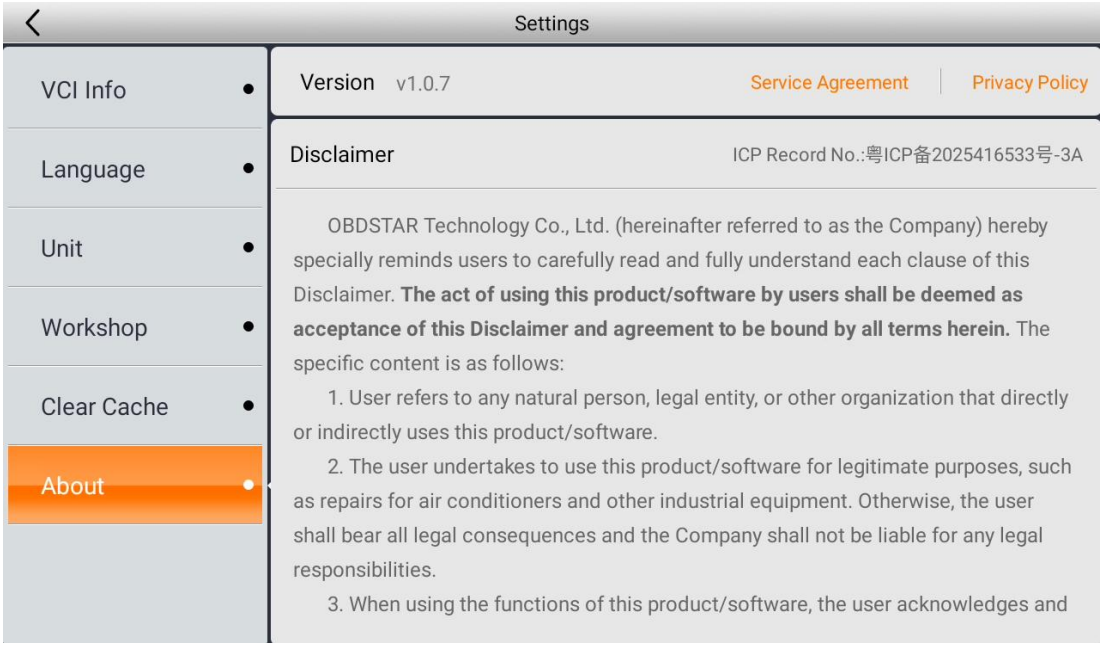
3.8.5 Clear Cache

When users tap **[Clear Cache]** on the Settings screen, the interface shown below appears. If your device freezes due to insufficient storage space, try tapping **[Clear Cache]** to resolve the issue.



3.8.6 About

Tap **[About]** in the Settings menu to access detailed version information and disclaimer.



3.9 Diagnostic Operations

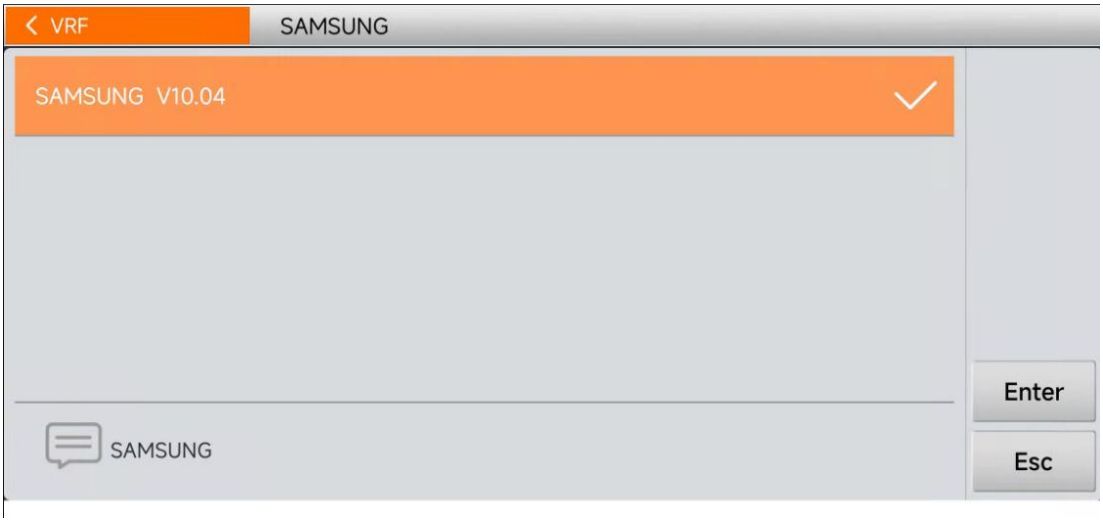
The diagnostic application establishes a data connection with the air conditioner via the main test cable. Once connected, it can retrieve AC unit information, display fault codes and historical faults, monitor real-time operating data, and perform special functions such as parameter settings and bus control.

3.9.1 Diagnostic Procedure

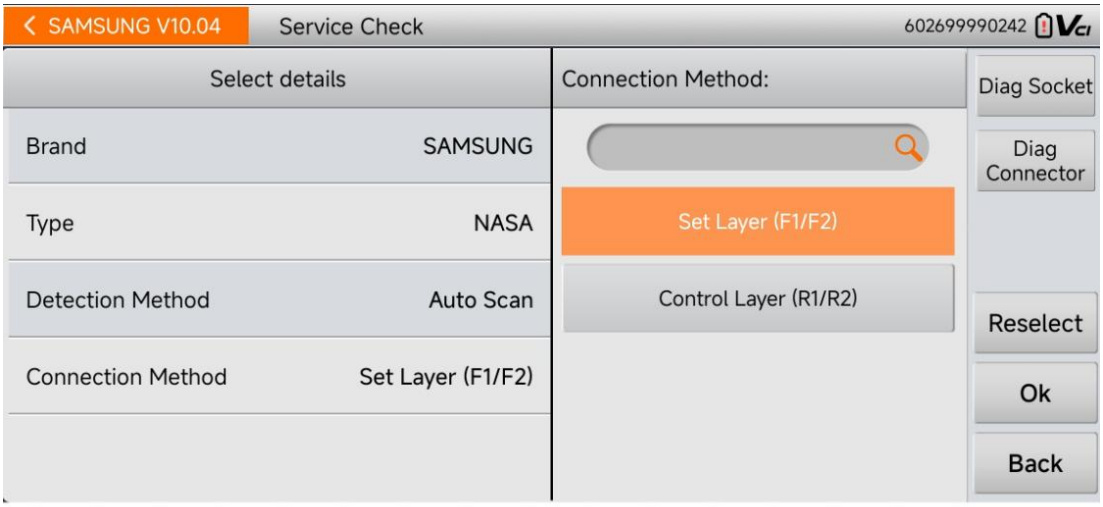
The AC600 diagnostic software supports a wide range of HVAC equipment from multiple brands, including multi-split VRF systems, large central air conditioning systems, and residential split-type air conditioners.
Example. Multi-Split Air Conditioner – SAMSUNG .
Below is the main interface for multi-split system diagnosis:



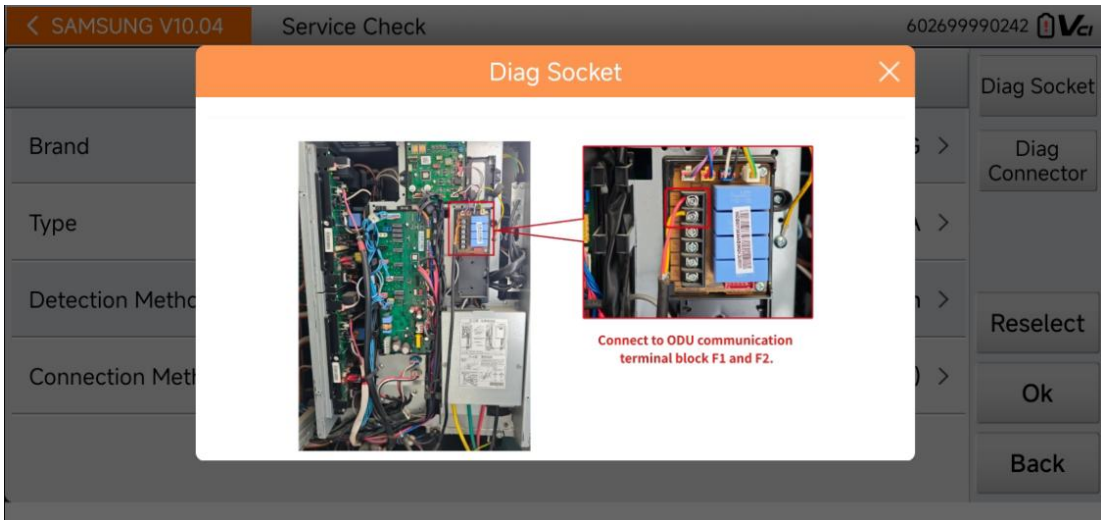
Tap the **[SAMSUNG]** brand to access the air conditioner diagnostic screen:

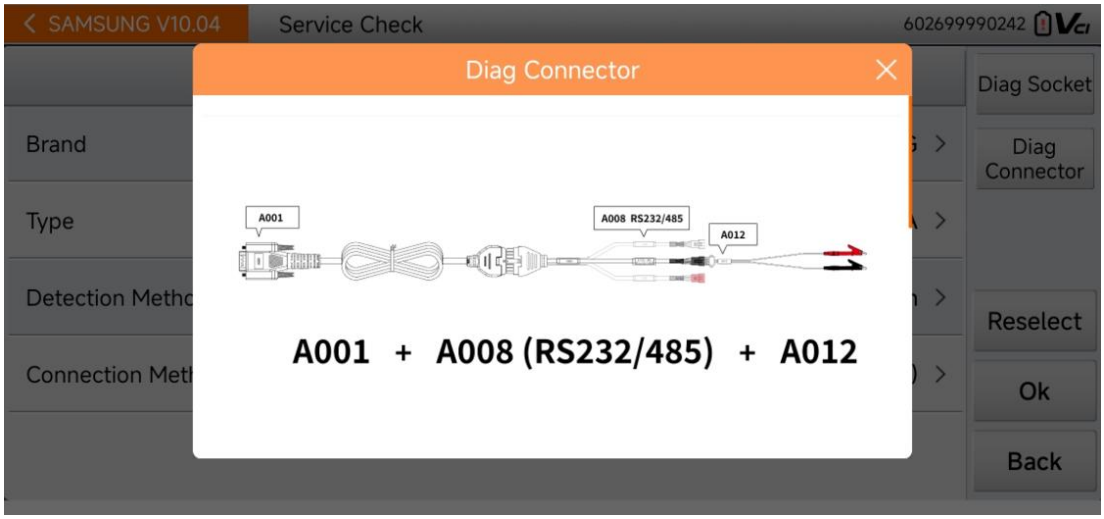


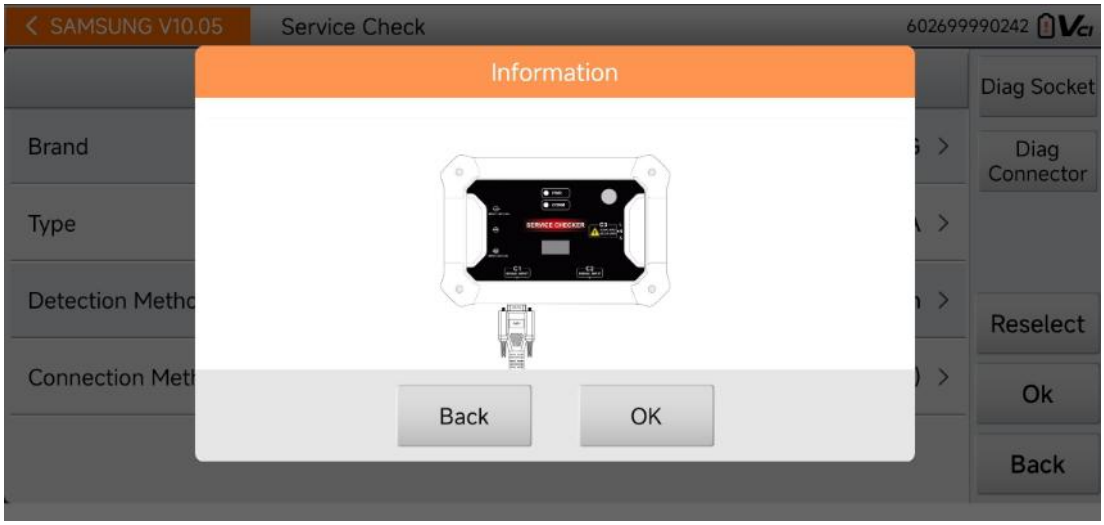
Tap **[Enter]** to go to the diagnosis interface, where you can select the type (as shown below):



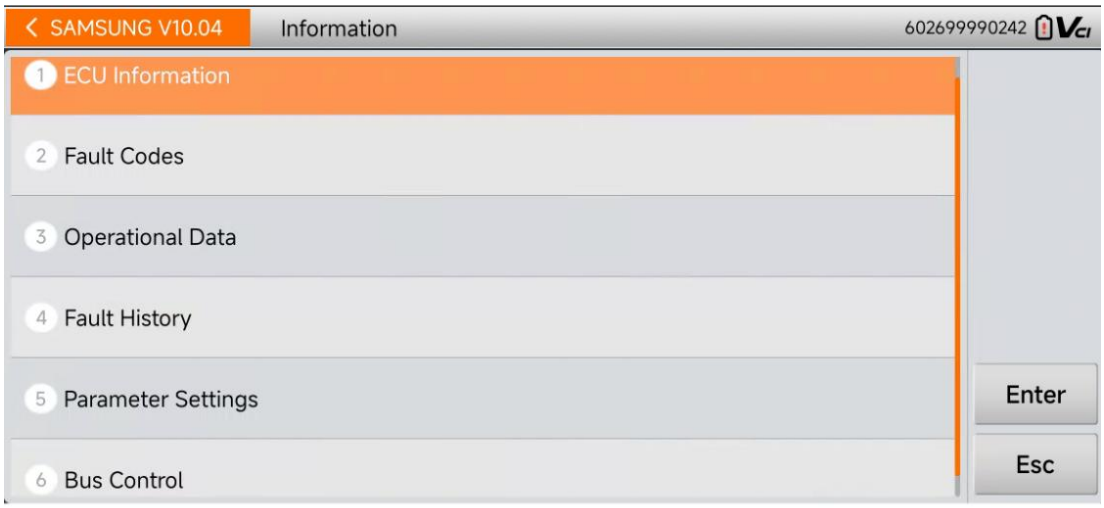
Select the appropriate diagnostic type to proceed. If reference materials are available, press the button on the right to view the diag socket location or diag connector type.



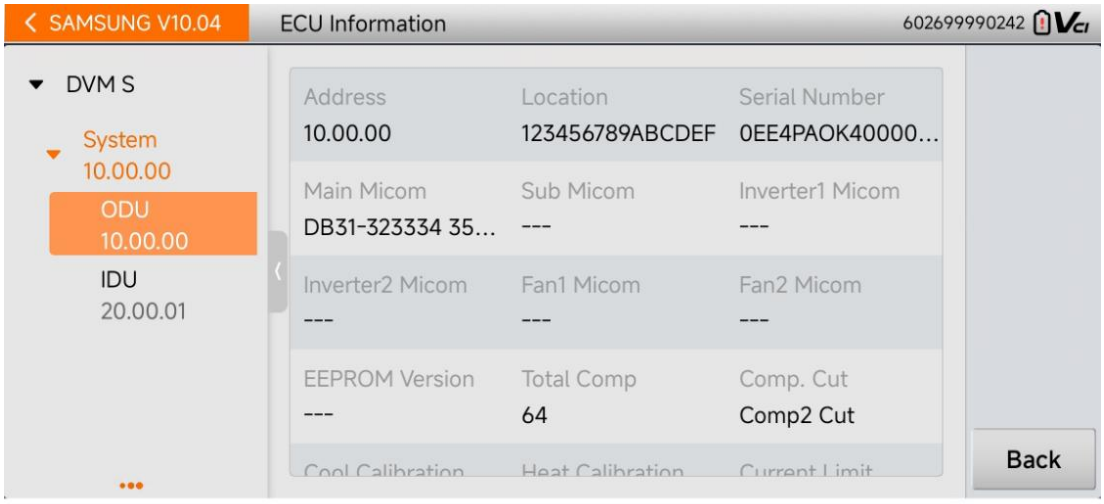




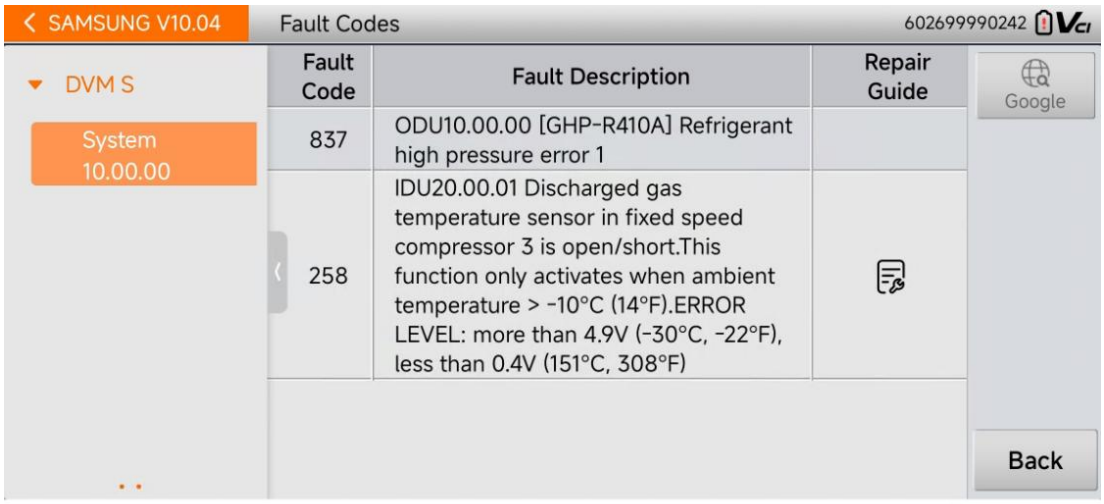
After selecting the desired diagnostic type, tap **[OK]** to proceed to the function menu.



Tapping **[ECU Information]** displays basic parameters for the selected air conditioner model. Use the left-side menu to switch between indoor and outdoor unit parameters (see illustration below).

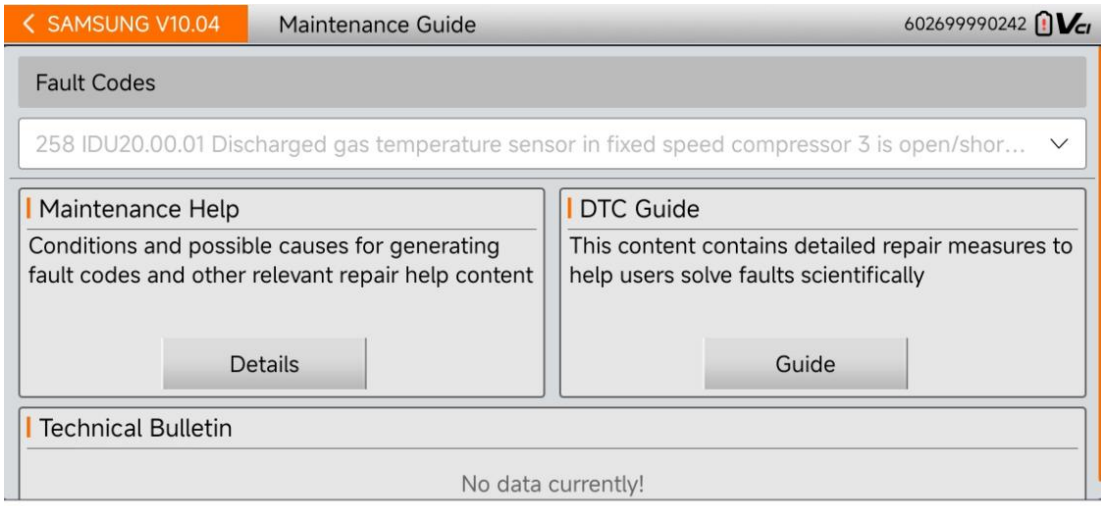


Tap **[Fault Codes]** to view fault codes and their status (see illustration below).

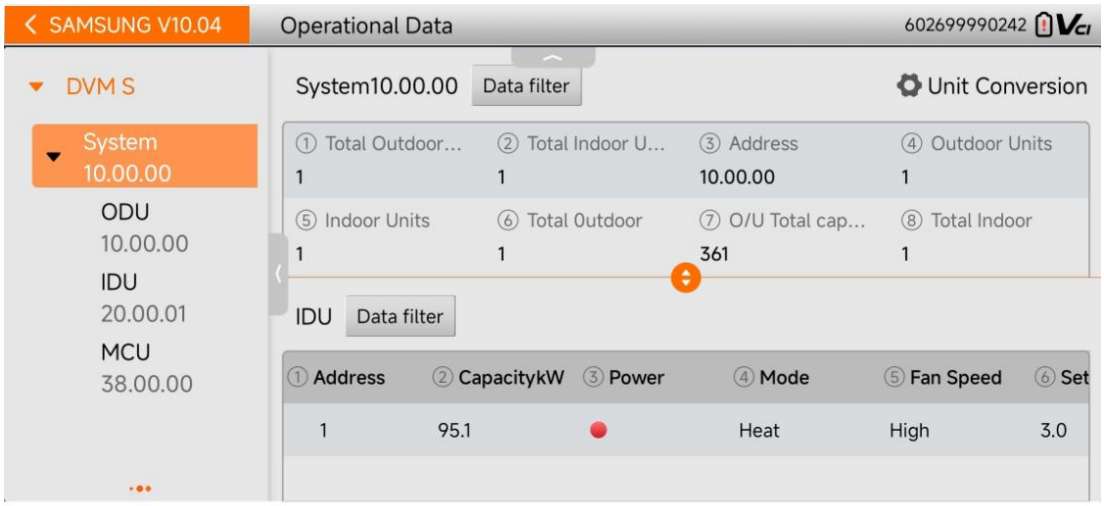


Tap **[Maintenance Guide]** to access Maintenance Help and DTC Guide for the detected

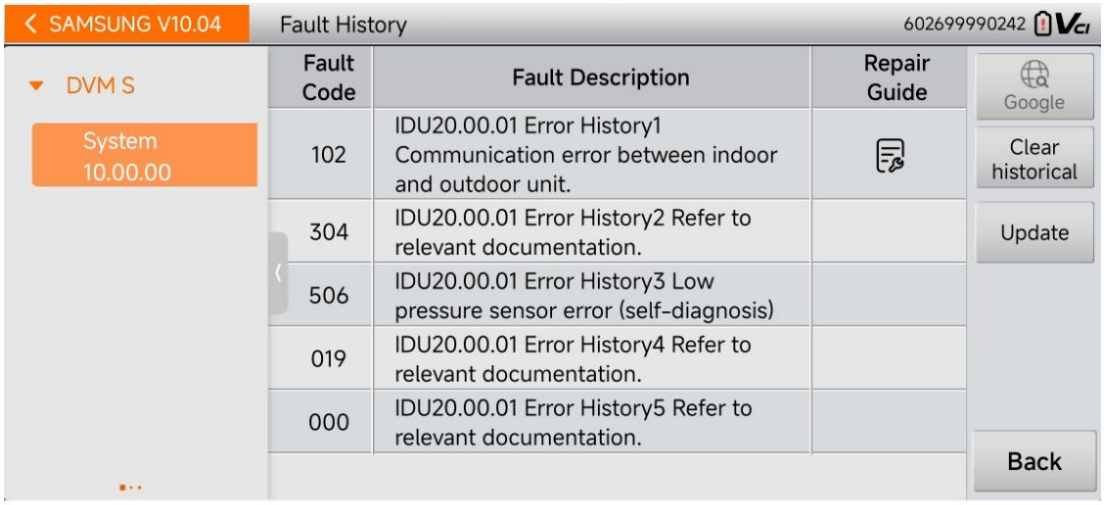
fault codes (see illustration below).



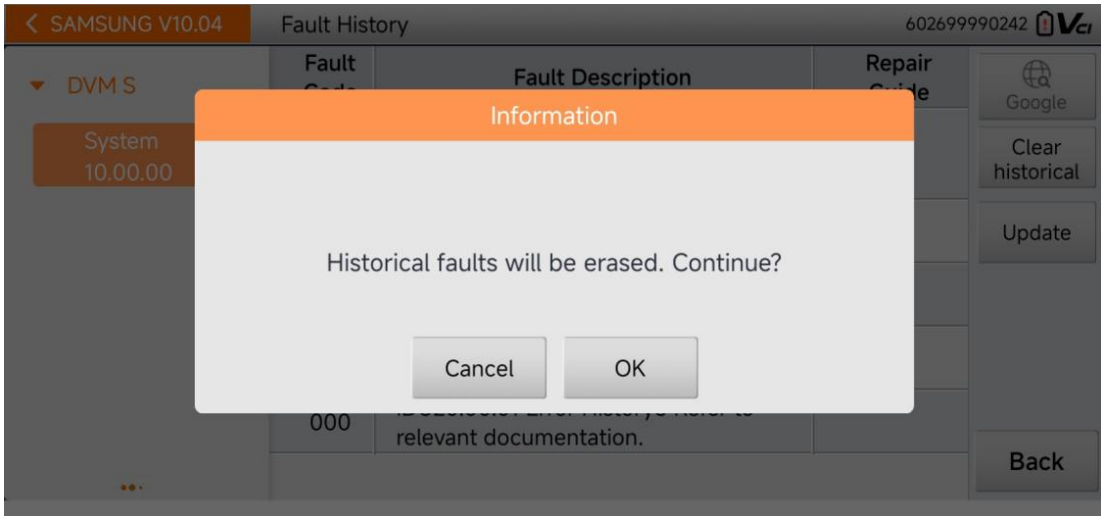
Tap **[Operational Data]** to monitor real-time operational parameters. Switch between indoor and outdoor unit data displays using the left-side menu (see illustration below).



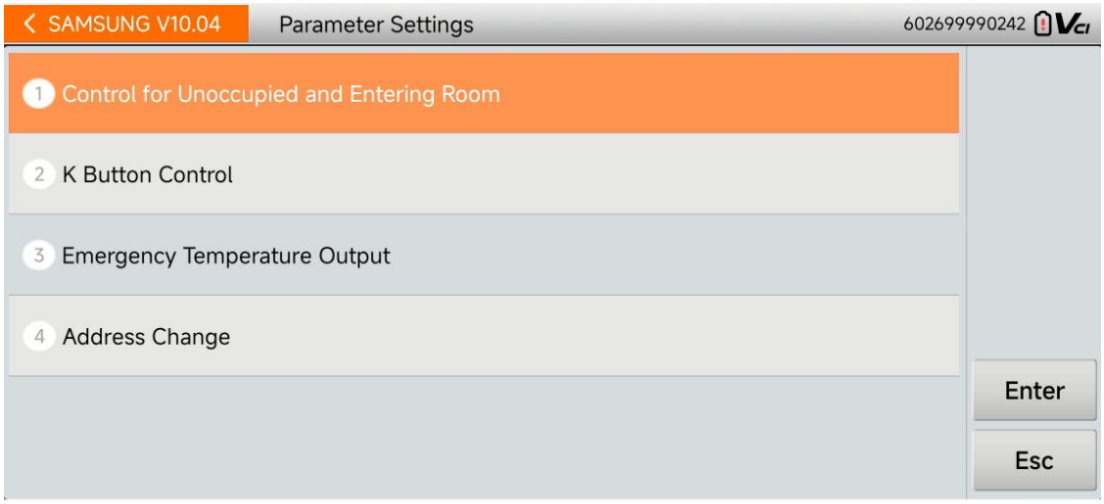
Tap **[Fault History]** to view a list of past faults, including fault names and occurrence timestamps (see illustration below).



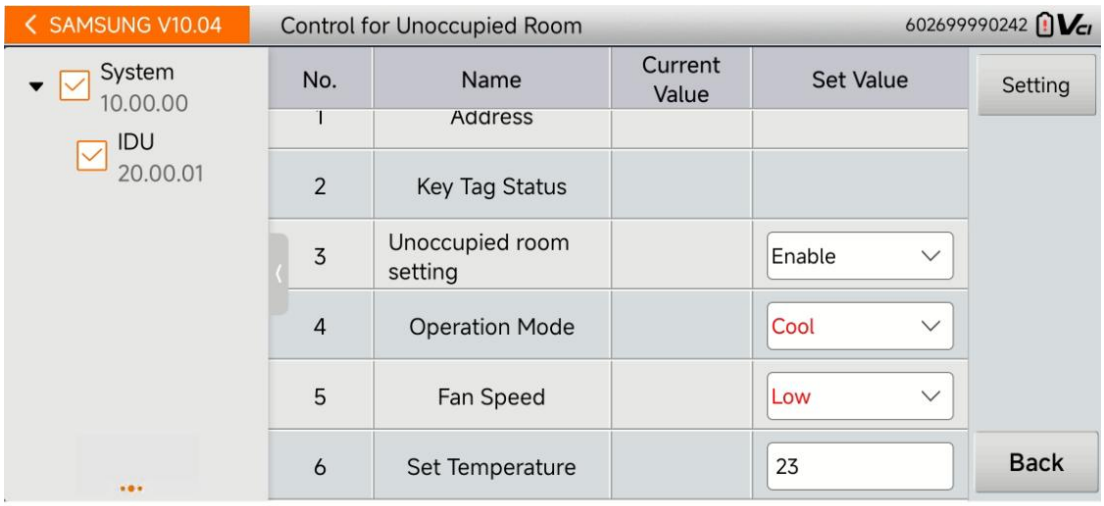
Tap the **[Clear Historical]** button on the right side to erase recorded historical faults (see illustration below).



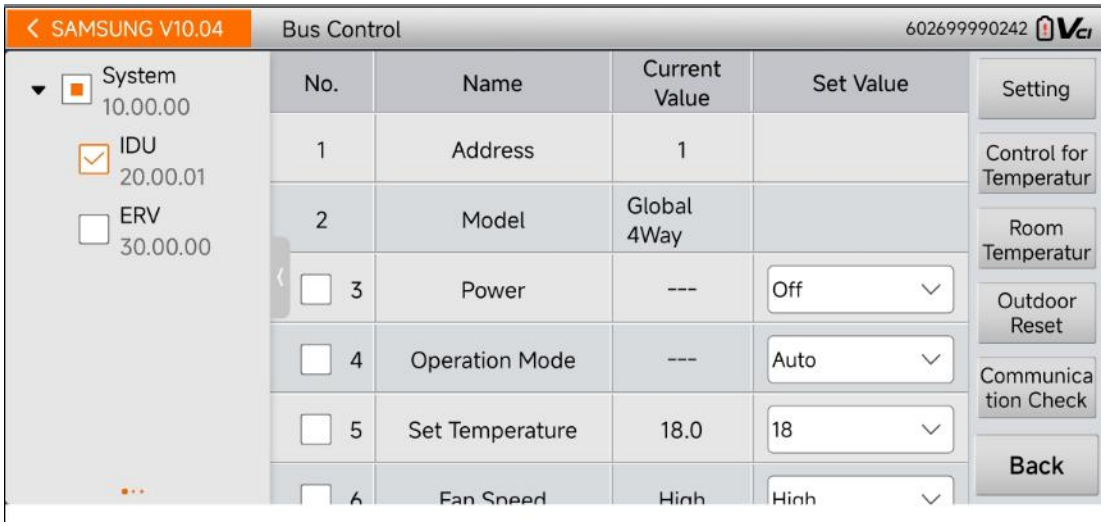
Tap **[Parameter Settings]** to adjust and configure system parameters. Available functions include:



Control for Unoccupied Room Example: Allows modification of the operation mode and other functional settings (see illustration below).



Tap **[Bus Control]** to control indoor unit operating modes and other functions. Specific parameters are displayed as shown below.



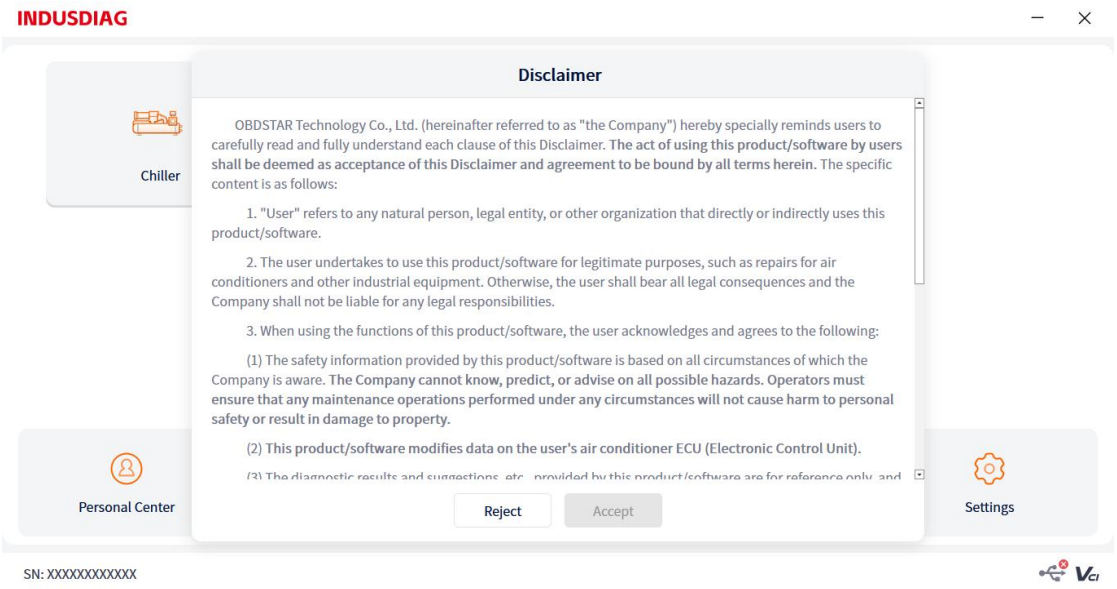
Note: Before exiting or closing the diagnostic application, you must first exit the diagnostic operation interface and terminate all communication between the AC600 Service Checker and the air conditioner. Communication interruption may damage the air conditioner's main board. Therefore, ensure that the main cable is securely connected to both the AC600 Service Checker and the air conditioner, and confirm that all diagnostic communications have been terminated before disconnecting the diagnostic cable or powering off the device.

4 PC-Side - Device User Guide

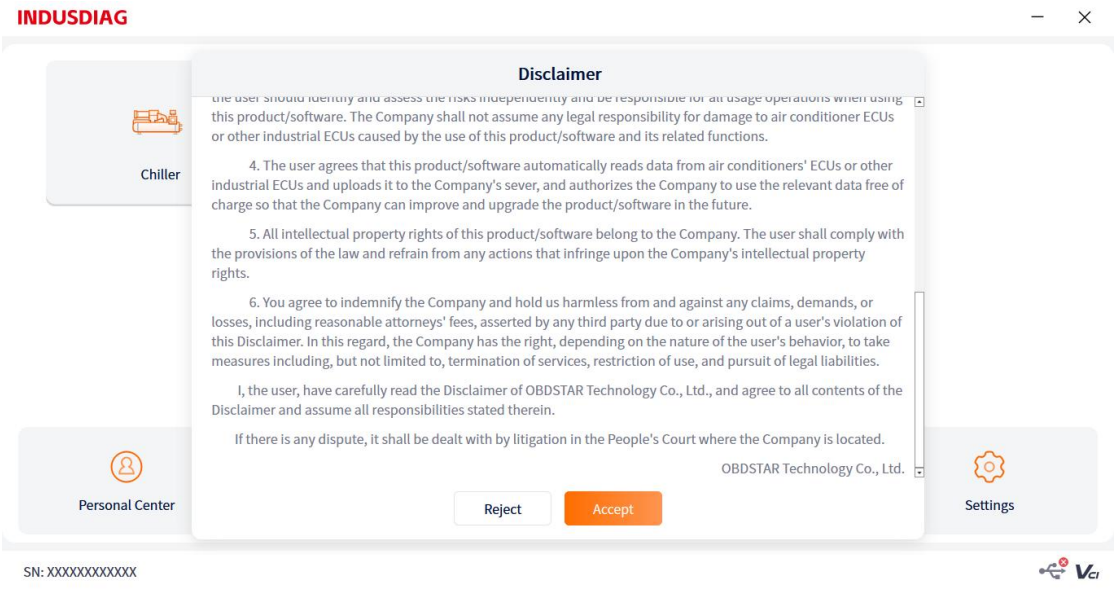
Before using the AC600 Service Checker, please ensure that the built-in battery is sufficiently charged or that the device is connected to a DC power source (refer to the Power Supply section for details). The PC diagnostic software can be downloaded from the INDUSDIAG product official website. (https://www.indusdiag.com/)

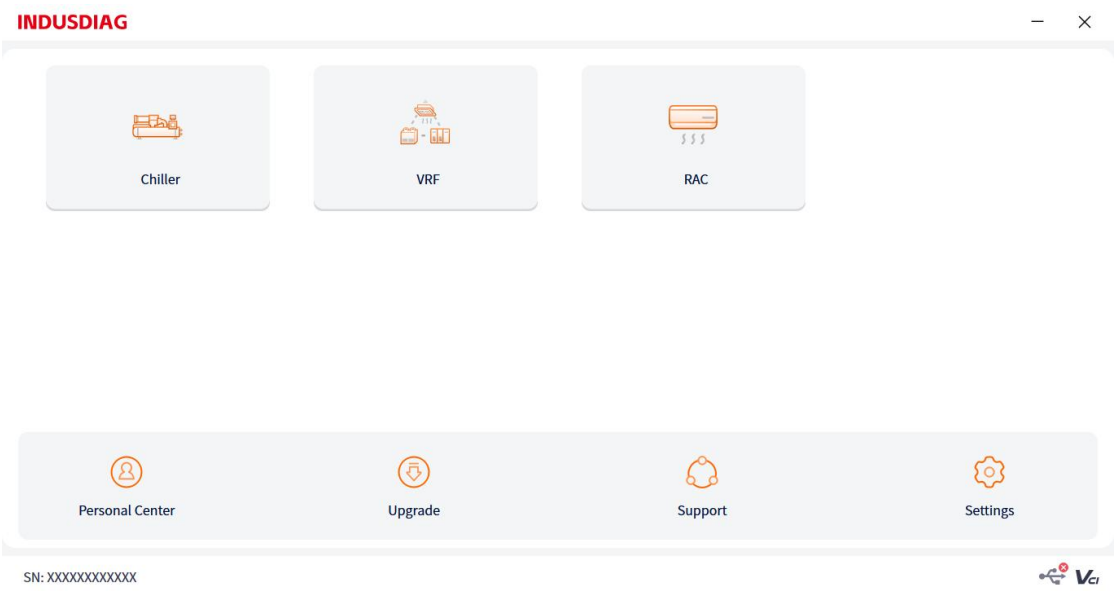
4.1 Power On

Press and hold the **[Power]** button located at the upper right corner of the front panel of the AC600 Service Checker for approximately 3 seconds to turn on the device. The indicator light on the button will illuminate, indicating that the device is powered on. Then, open the AC600 Program on your PC. The system will automatically display the Disclaimer window.



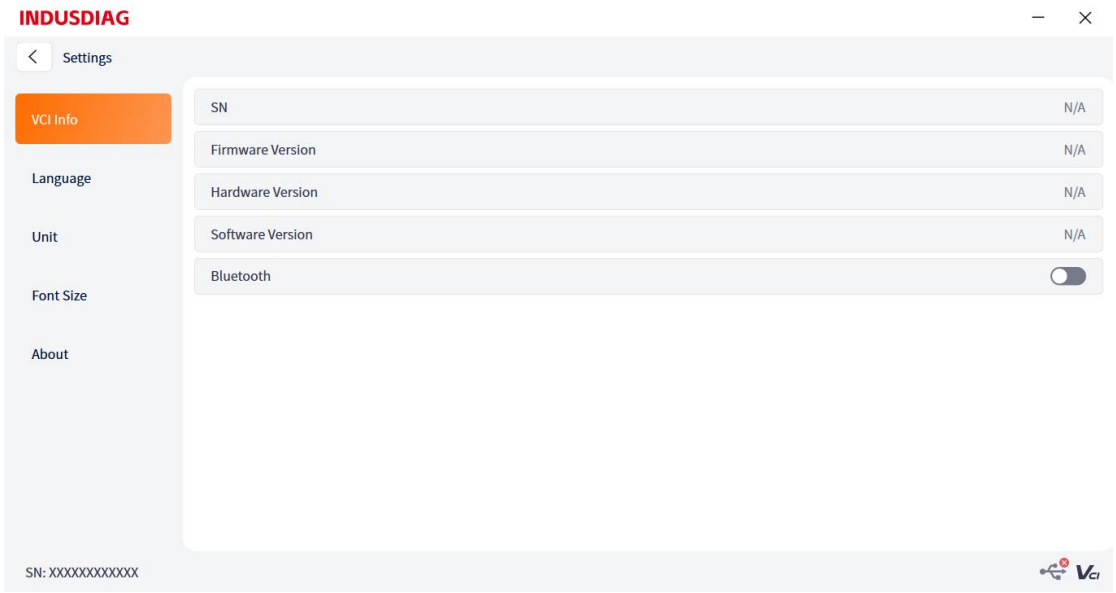
Swipe the screen to read the Disclaimer in full. Once completed, tap **[Accept]** to proceed—the system will then display the AC600 Program menu. (Tap **[Refuse]** to exit the software.)





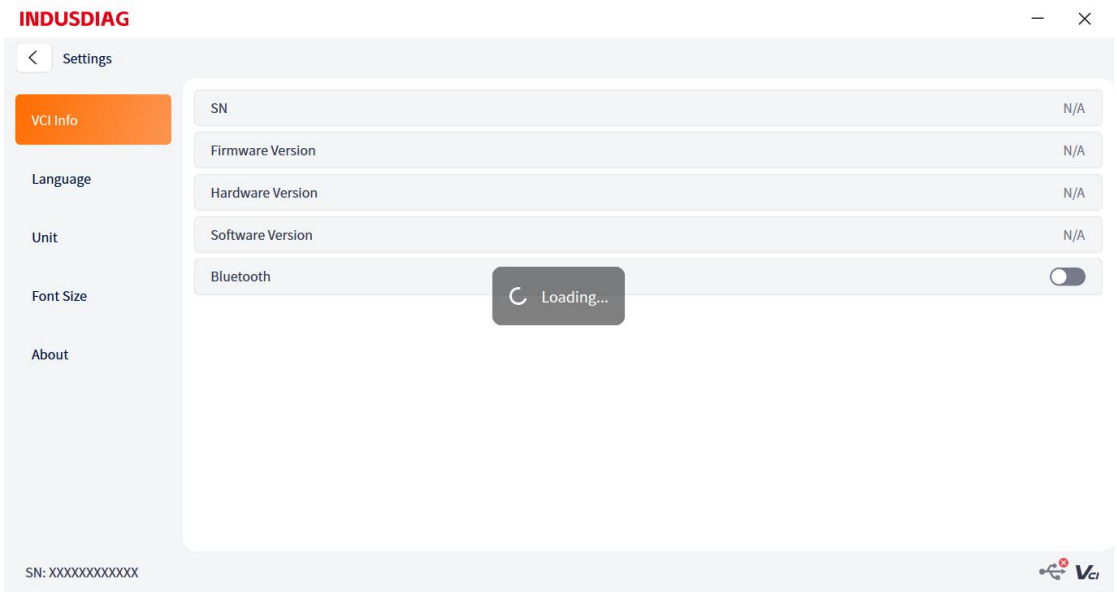
4.2 Connecting the Device and Application

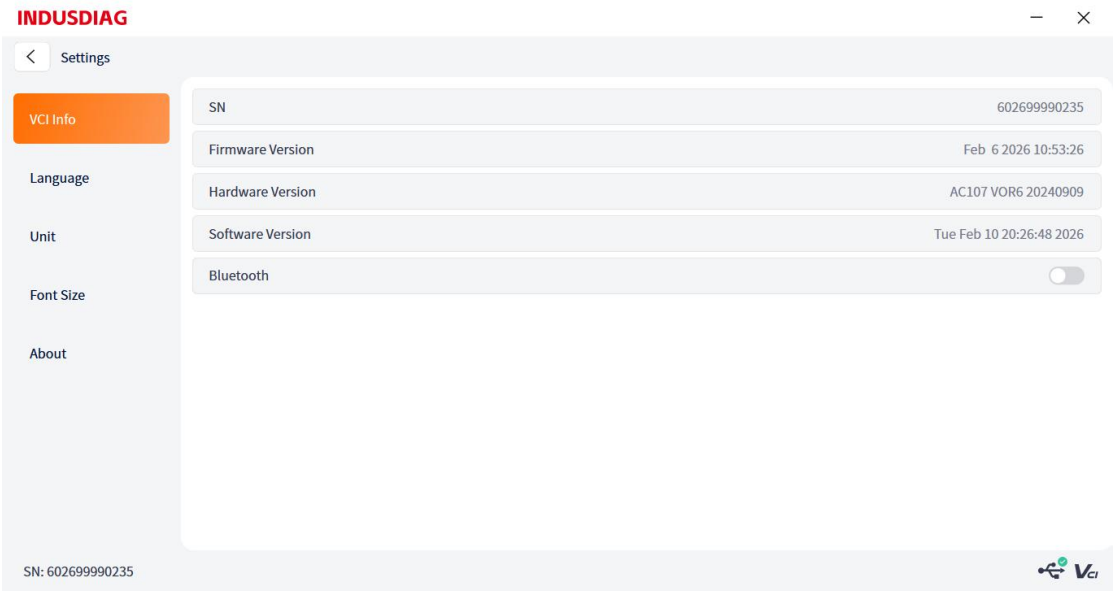
The diagnostic software requires a USB or Bluetooth connection to establish communication between the device and the PC for data transmission. To proceed, click **[Settings]** to access the VCI Info interface, where two connection options — USB Connection and Bluetooth Connection—are displayed.



4.2.1 USB Connection

Connect the device to the PC using a USB cable. Press the device's power button to turn it on. Once connected, you can view detailed information in the VCI settings.





4.2.2 Bluetooth Connection

Connect the Bluetooth adapter to the PC. Power the device using either the power cable or a USB cable, then press the power button to turn it on. In the VCI Info interface, click **[Bluetooth]**. The system will then display a list of available Bluetooth devices for pairing.



Select the Bluetooth device whose name matches your VCI's serial number. For example, if your device's SN is 602699990235, choose the Bluetooth device named VCI_602699990235 and click **[Connect]**. Upon successful connection, detailed device information will be displayed.



Note: When the icon in the lower-right is , the connection type is USB. When the icon in the lower-right is , the connection type is Bluetooth.

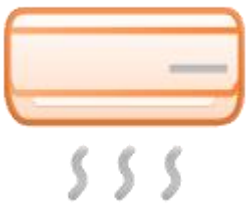
4.3 AC600 Program

Users can select and run different programs from the AC600 Program menu. The table below

provides a brief description of each AC600 program. Please tap to select the program you wish to run.

Note: The list below is not exhaustive and is subject to the actual software downloaded.

Table 4.2 PC-Side AC600 Programs

Program Name	Icon	Description
VRF		It supports comprehensive system data monitoring, centralized control via the communication bus, and brand-specific parameter configuration for multi-split air conditioning systems from various manufacturers.
Chiller		Includes whole unit diagnosis, wired controller operation, and specific parameter setting functions for screw chillers, centrifugal chillers, maglev chillers, and other types.
Module Board Driver		Enables independent driving of module boards to validate functionality after repair.
IDU/ODU Simulator		It supports using the AC600 to simulate either an indoor unit to test the outdoor unit or an outdoor unit to test the indoor unit—enabling rapid fault isolation.
Service Code Query		Used to calculate and generate secure access passwords.
RAC		Residential split-type AC diagnostics.

Personal Center		To view personal account information, etc.
Upgrade		Upgrades your applications and updates your diagnostic software.
Support		Allows you to view the product description and FAQs, and to upload logs.
Settings		Used to view the device serial number, select the connection method between the device and the PC, set the application language, units, and the font size, and view version information and the disclaimer.

4.4 Power Off

Before turning off the AC600 Service Checker, you must terminate all air conditioner communication sessions. Forcing a shutdown during active communication may cause malfunctions in the control modules of certain air conditioning units. Please exit the diagnostic application before powering off the device.

To power off the device:

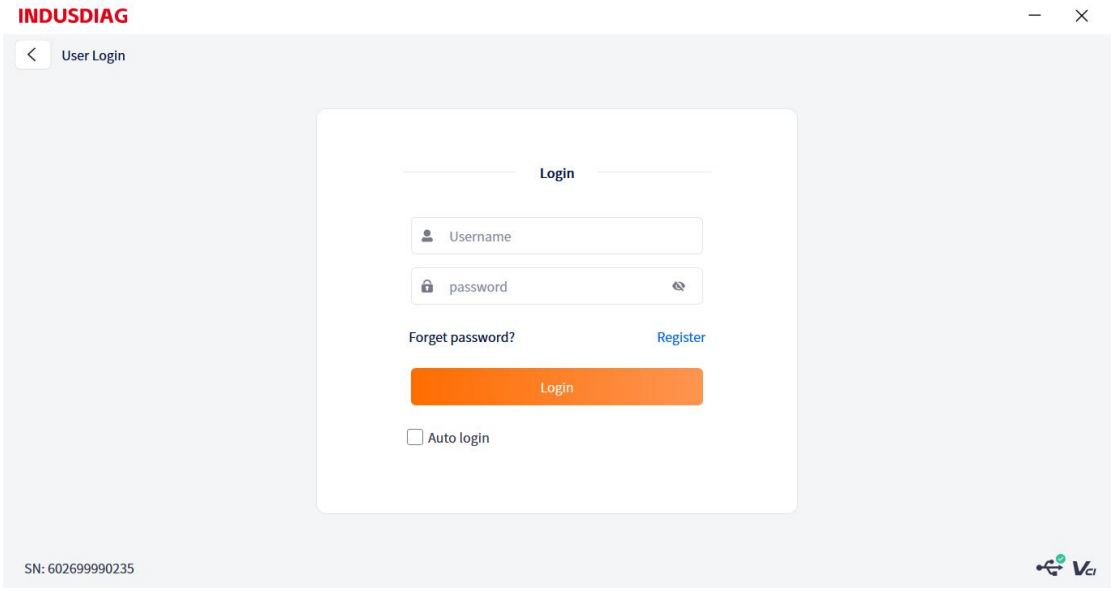
1) Press and hold the **[Power]** button for 3 seconds.

4.5 Personal Center

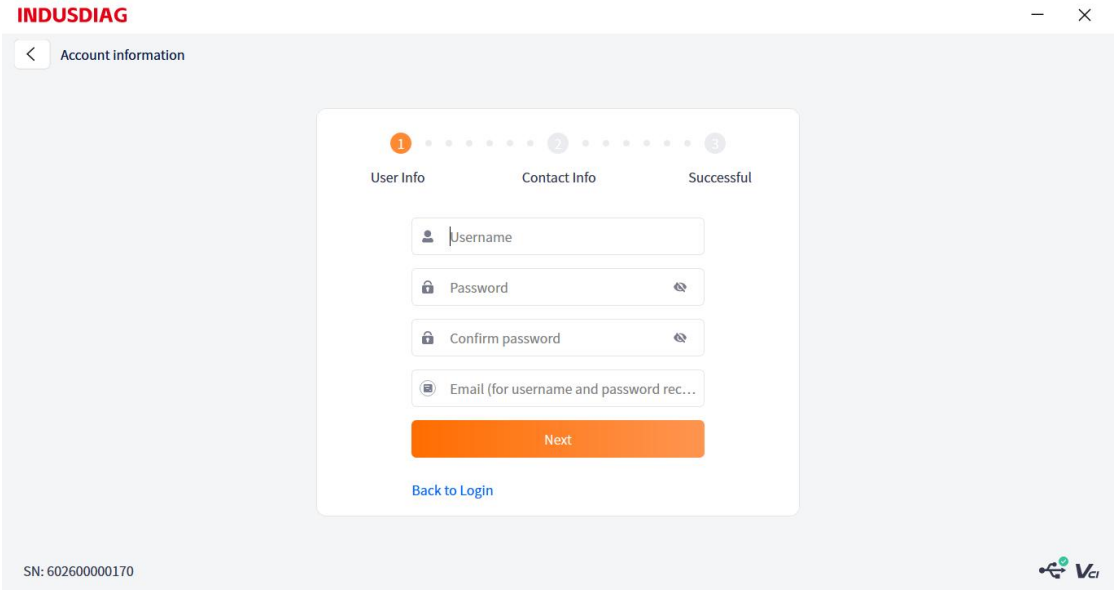
4.5.1 User Registration

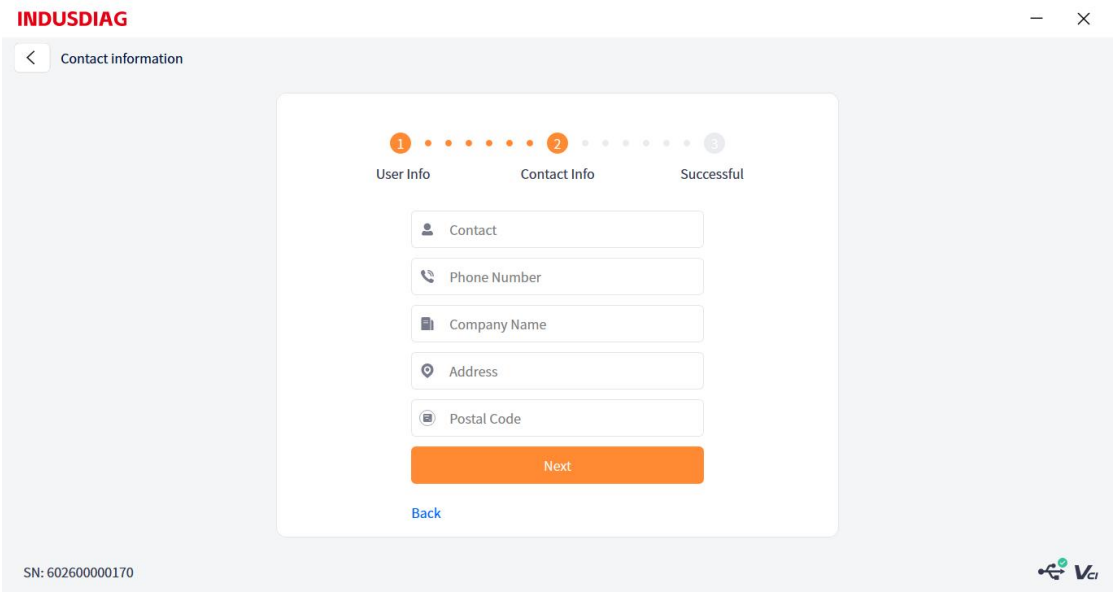
Procedure:

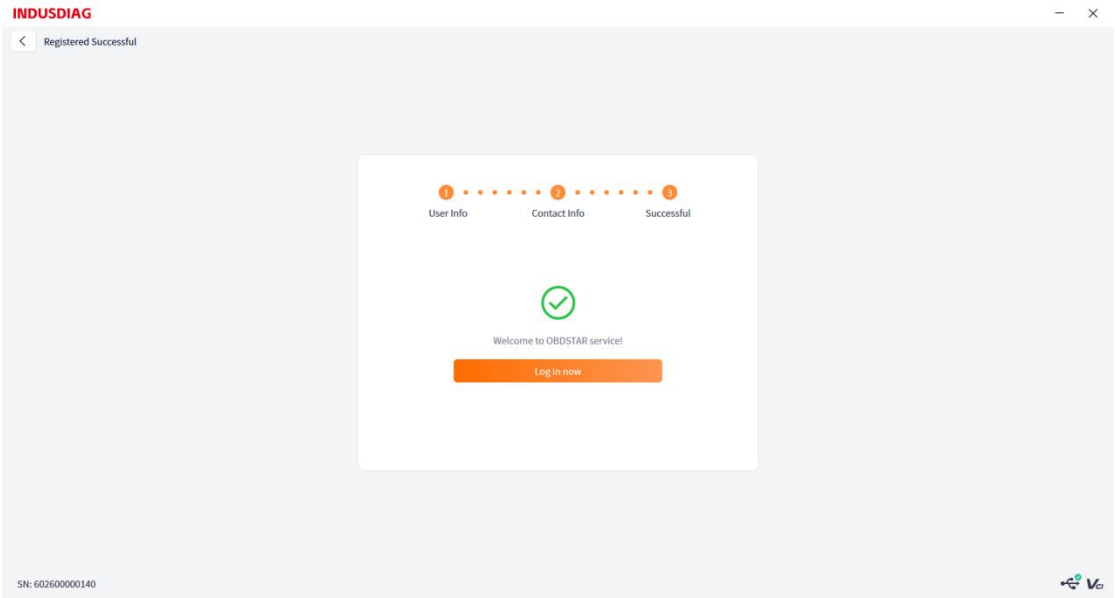
Clicking the **[Personal Center]** icon displays the login screen.



Click the **[Register]** button in the lower right corner and proceed to the user registration interface.



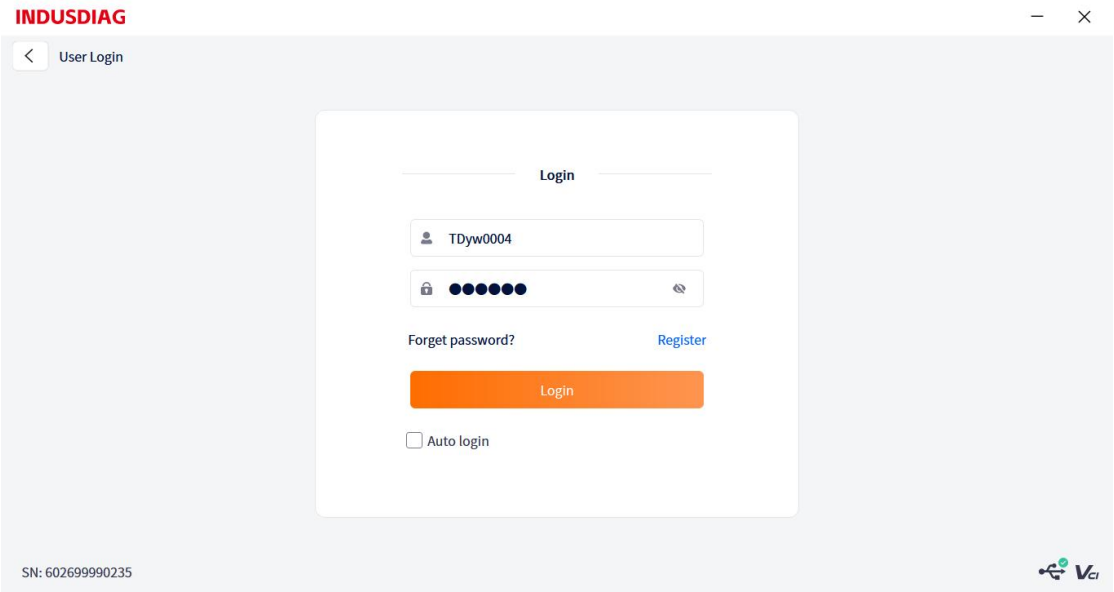




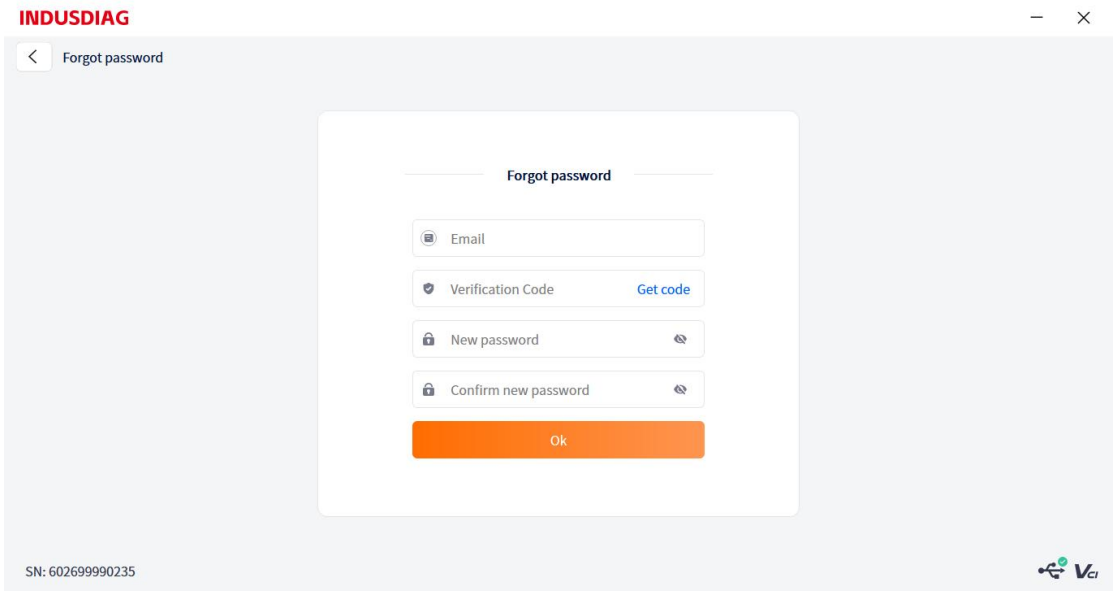
Fill in the required registration information. Once completed, you'll see a success message. Click **[Log in now]** to continue.

4.5.2 User Login

If you are already registered, enter your account and password, then click **[Login]**.

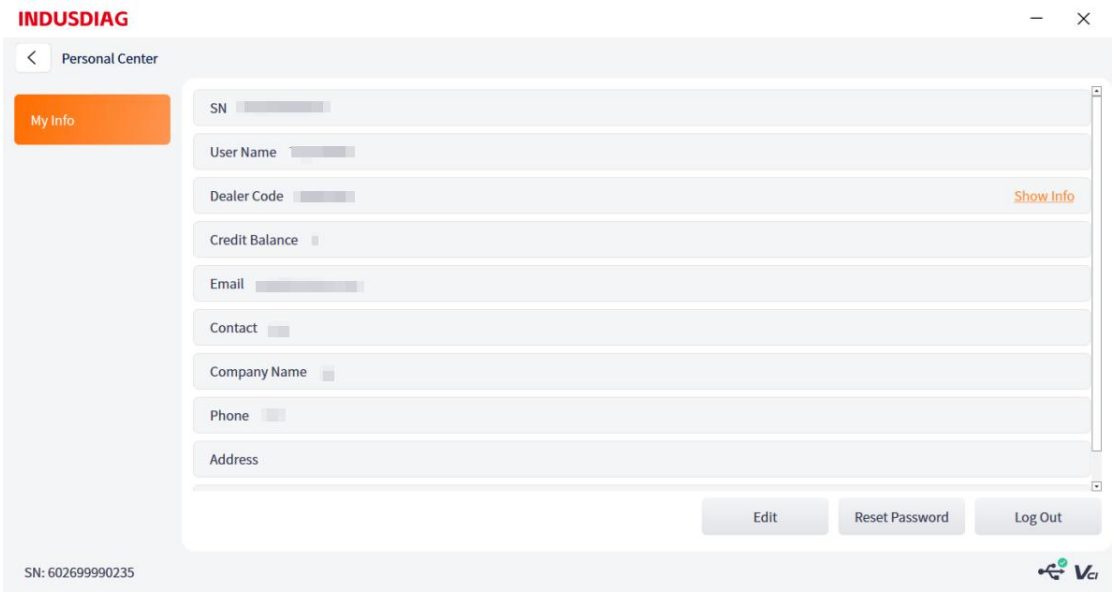


If you forget your password, click **[Forget password?]** on the login screen to go to the password recovery page. Enter the required information to reset your password.

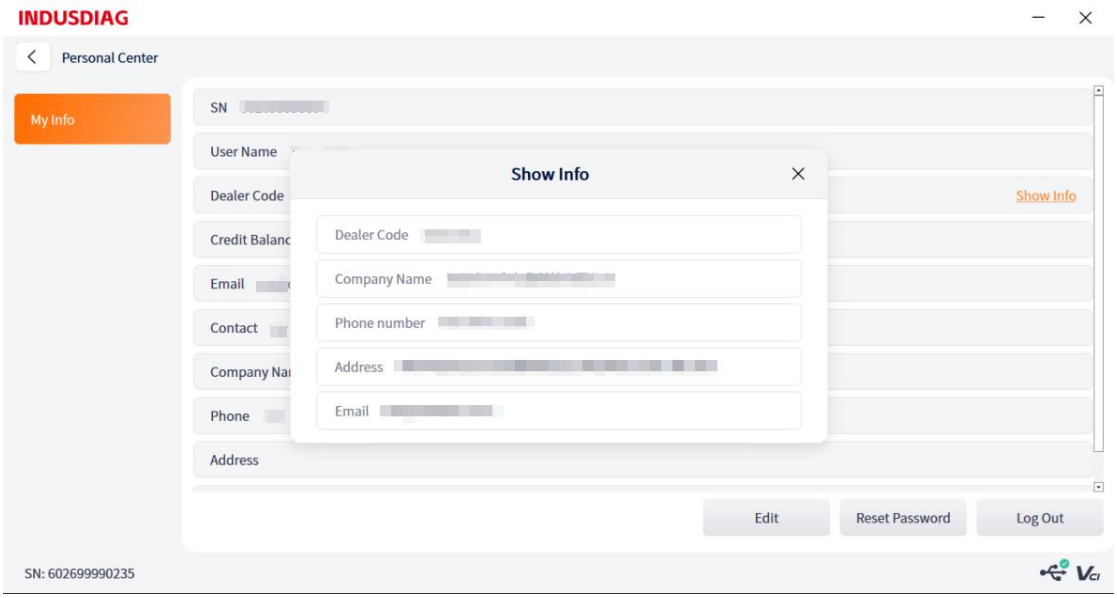


4.5.3 My Info

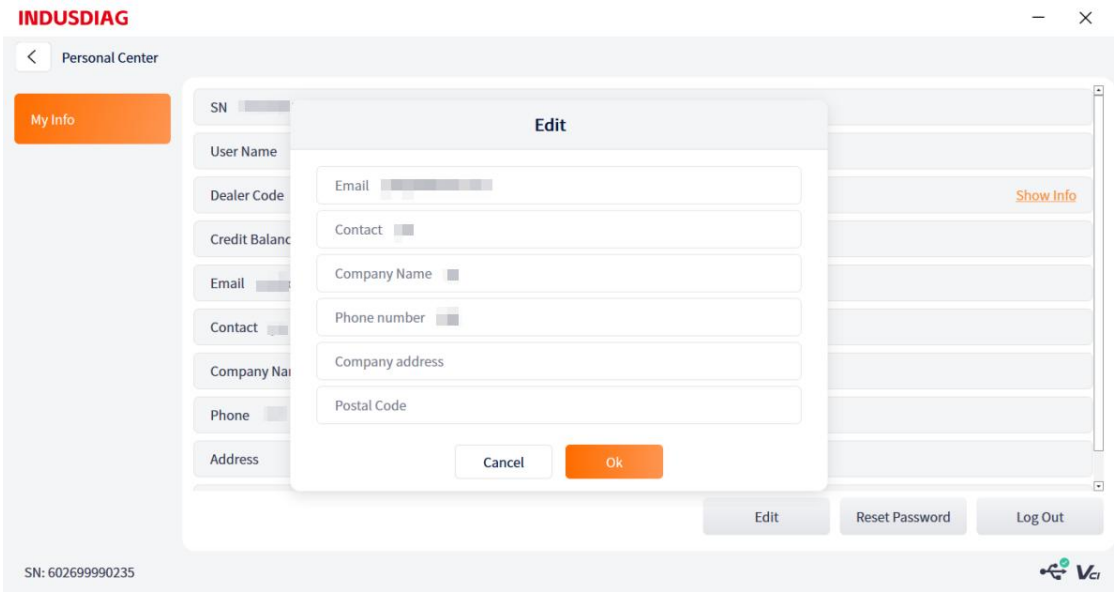
After logging in, the user's basic information is displayed, and contact details or password can be updated.



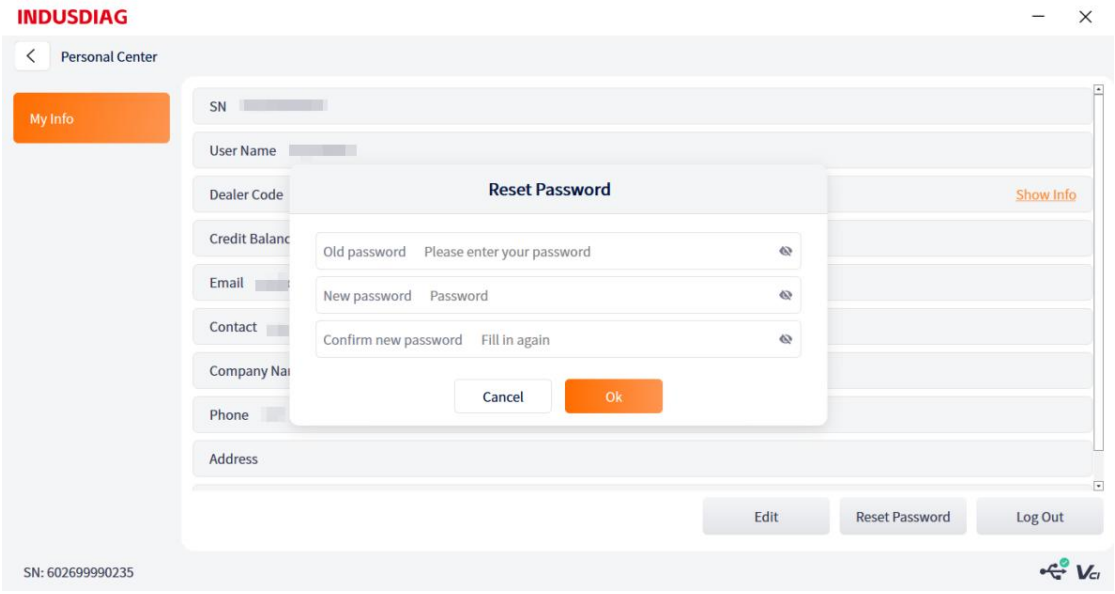
Click **[Show Info]** in the "Dealer Code" field to see the contact details of the device's assigned dealer.



Click **[Edit]** at the bottom of the My Info screen to update your personal contact details.



Click **[Reset Password]** at the bottom of the My Info screen to modify your password.



4.6 Upgrade

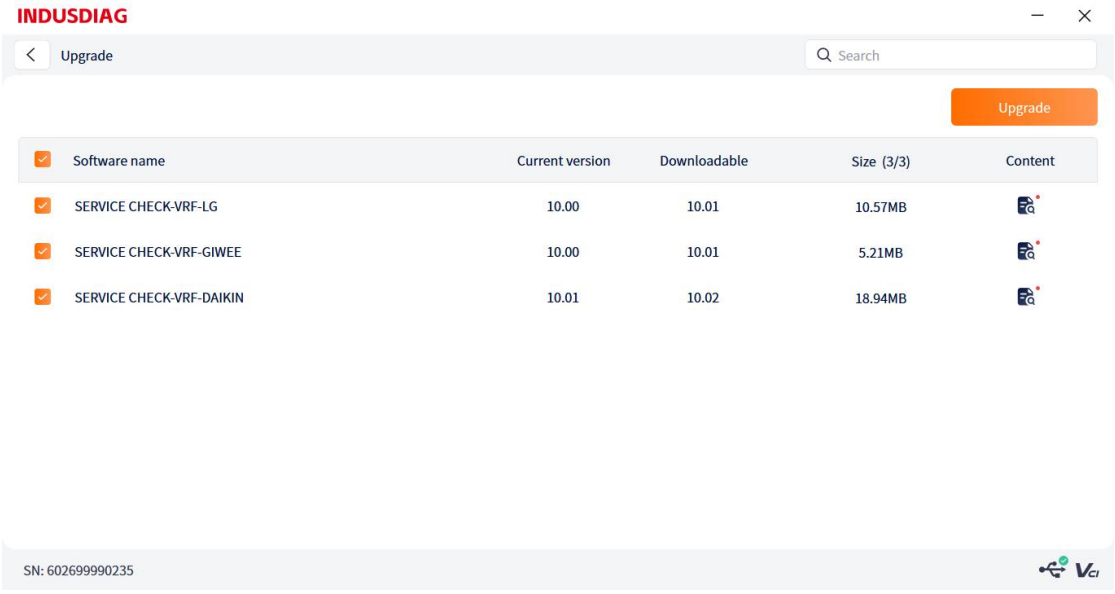
Users can download essential diagnostic data, air conditioning diagnostic software, data packages, and other required files through this feature module.

Follow the steps below to use it.

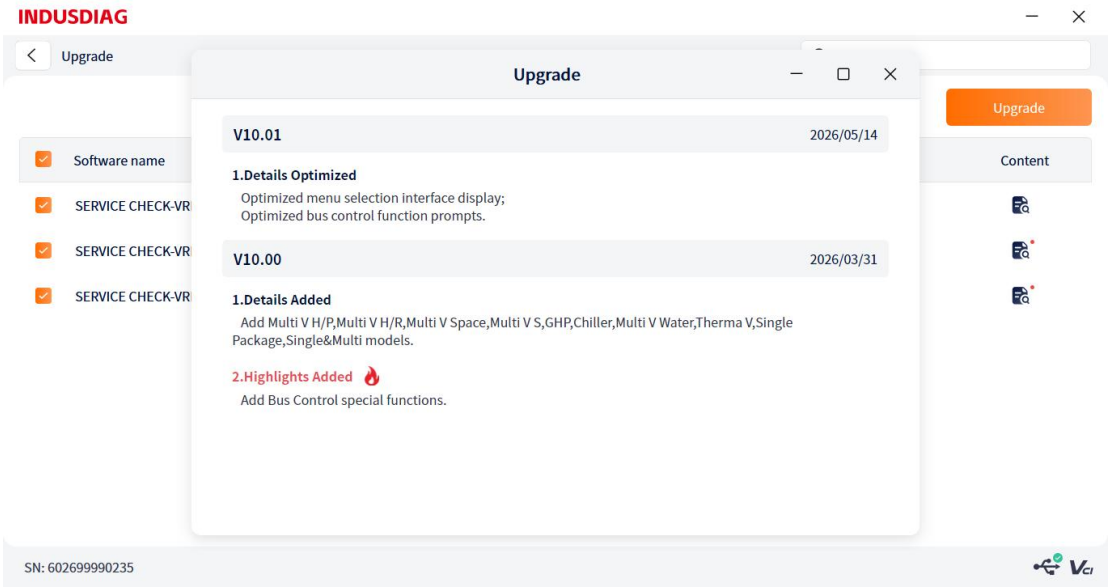
1) Log in to your account before using the Upgrade feature. (Refer to Section 3.6, Personal Center, for registration and login instructions.) After logging in, go to the Upgrade main screen, where all available updates are displayed. By default, all upgradable software items are selected. To deselect an optional item, click the orange check box next to the software name. Grayed-out checkboxes indicate mandatory software that must

be upgraded and cannot be deselected. After selecting the software to upgrade, click the upgrade button Upgrade in the upper-right corner to begin the upgrade process.

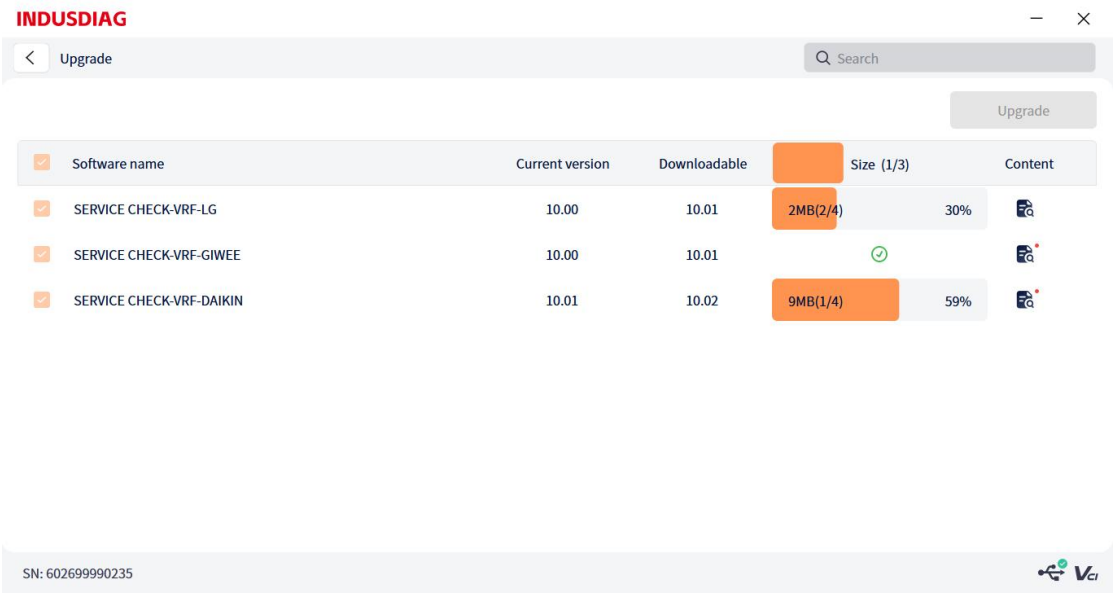
When the list contains many items, use the search bar in the upper-right corner to quickly find specific software by entering keywords or letters.



2) On the Upgrade main screen, the last column displays the upgrade content for each software item. Click the icon button corresponding to a specific software entry to view details about its version update.

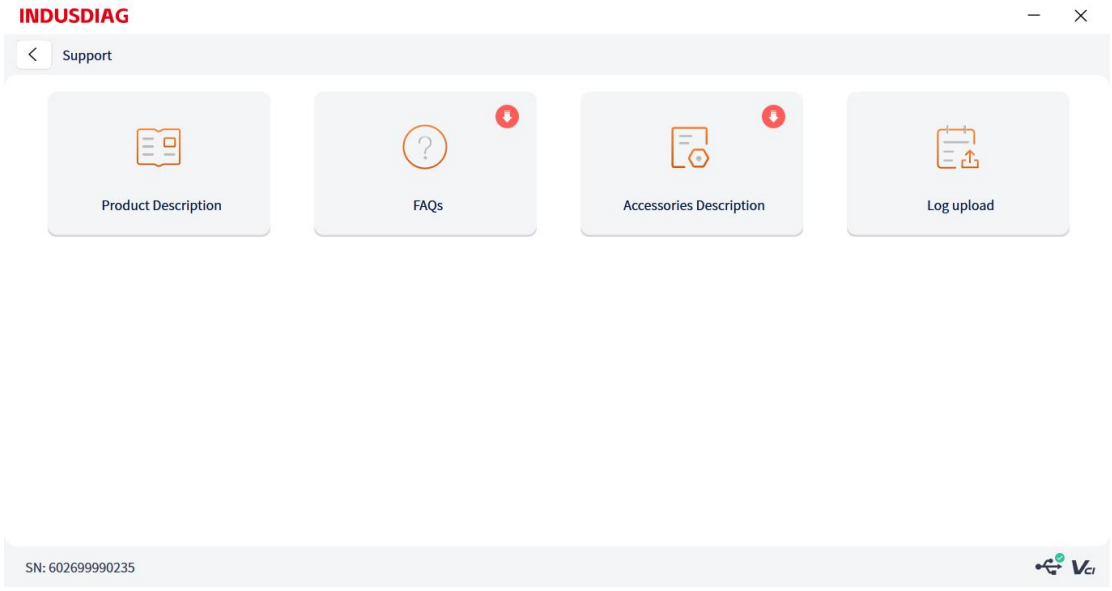


3) Once a software item has finished downloading, a checkmark icon will appear in column 5 of that row to indicate completion.



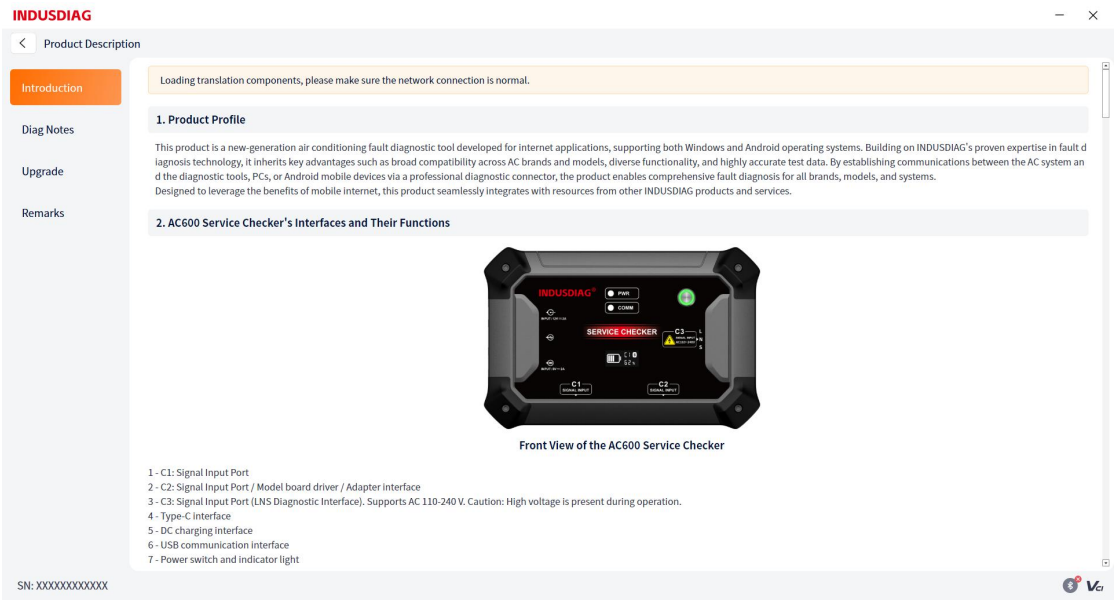
4.7 Support

This module includes the following sub-modules: Product Description, FAQs, Accessories Description, and Log Upload. The main Support page is shown in the figure below.



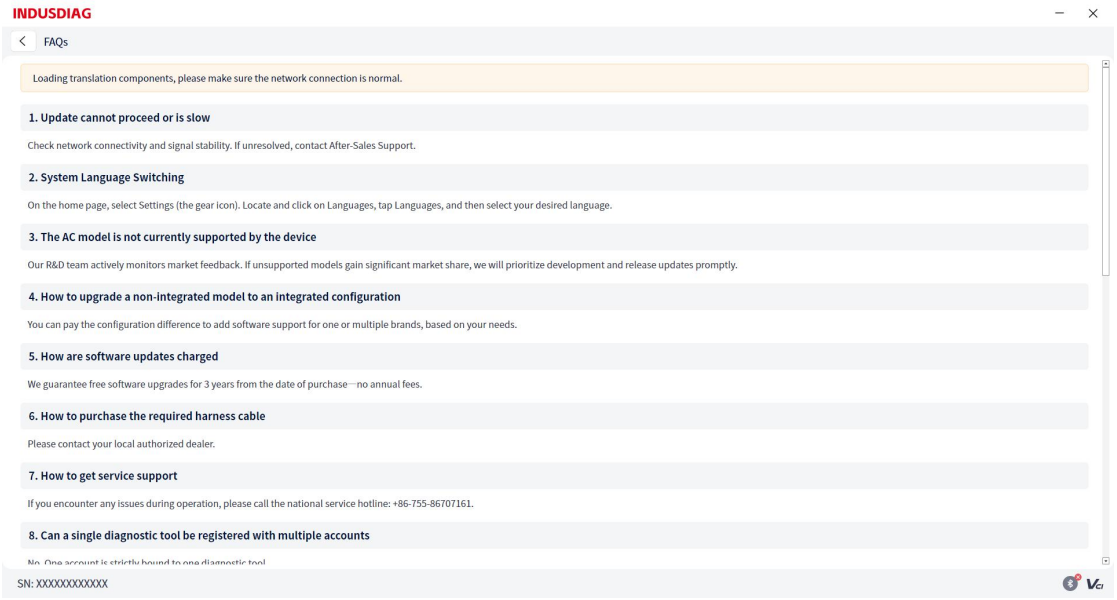
4.7.1 Product Description

For first-time use, a download prompt will appear after clicking **[Product Description]** on the Support main page. Download the manual to view its contents.



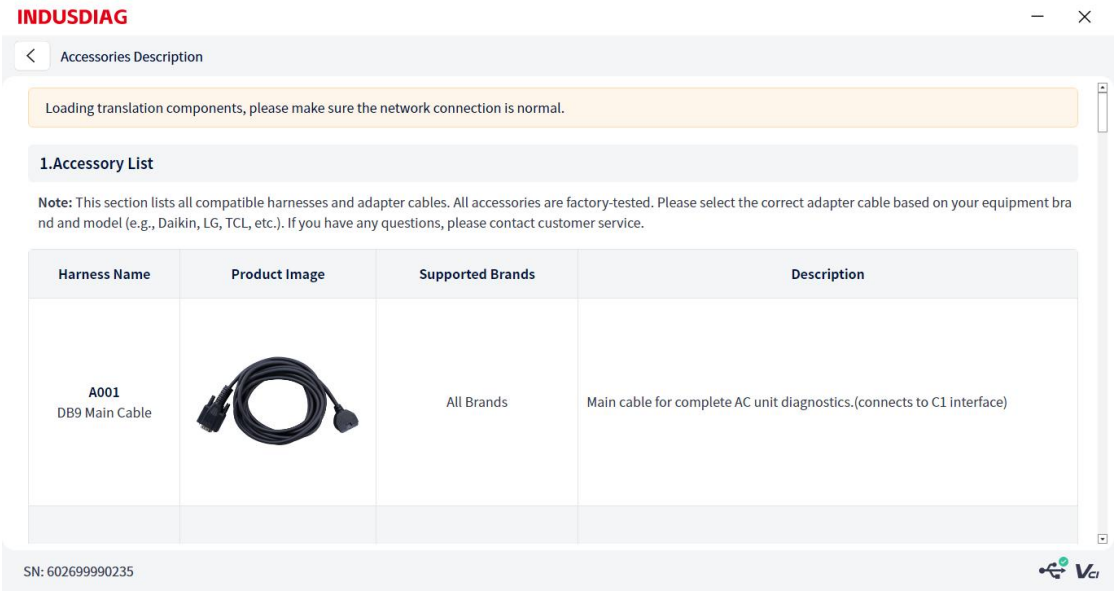
4.7.2 FAQs

For first-time use, a download prompt will appear after clicking **[FAQs]** on the Support main page. Download the FAQ to view its contents.



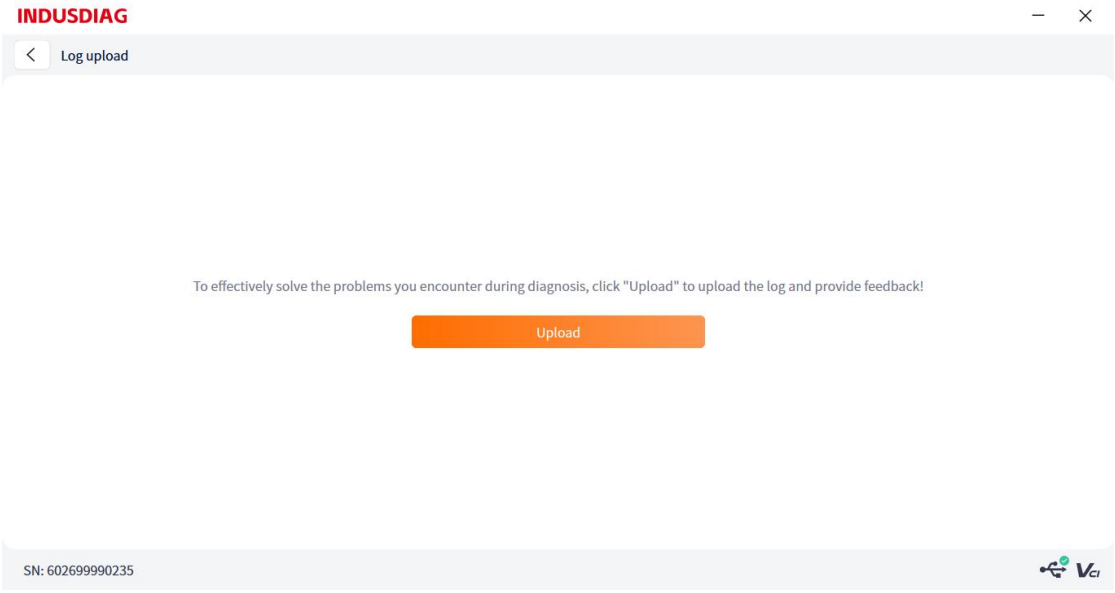
4.7.3 Accessories Description

For first-time use, a download prompt will appear after clicking **[Accessories Description]** on the Support main page. Download the Accessories Description to view its contents.



4.7.4 Log Upload

After clicking the **[Log Upload]** on the Support main page, the user can see the screen shown in the figure below. Click **[Upload]** to upload your log.

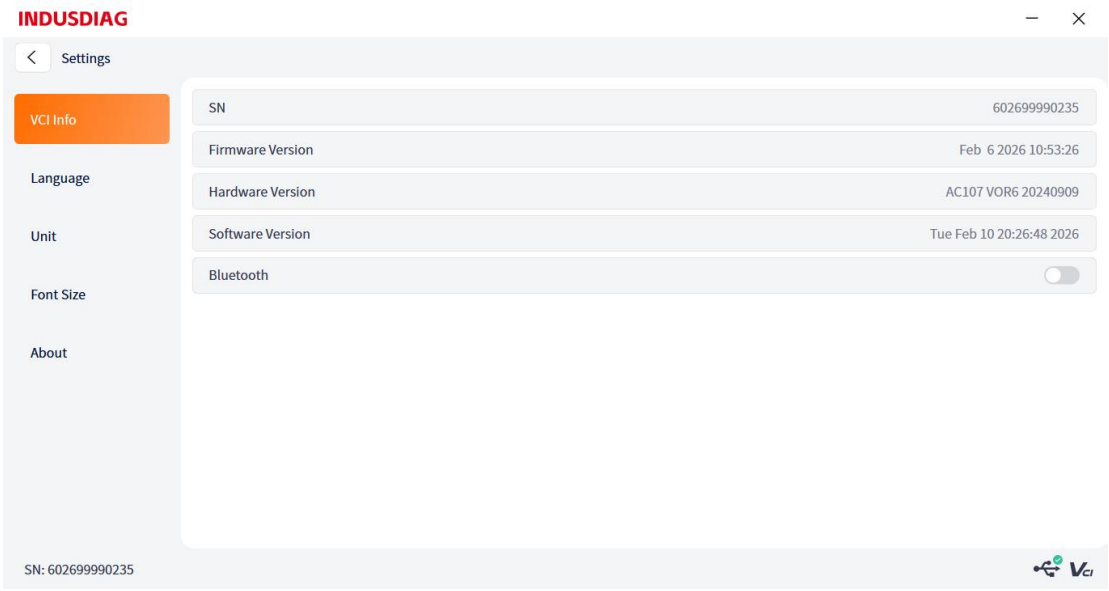


4.8 Settings

This module includes the following sub-modules: VCI Info, Languages, Units, Font Size, and About.

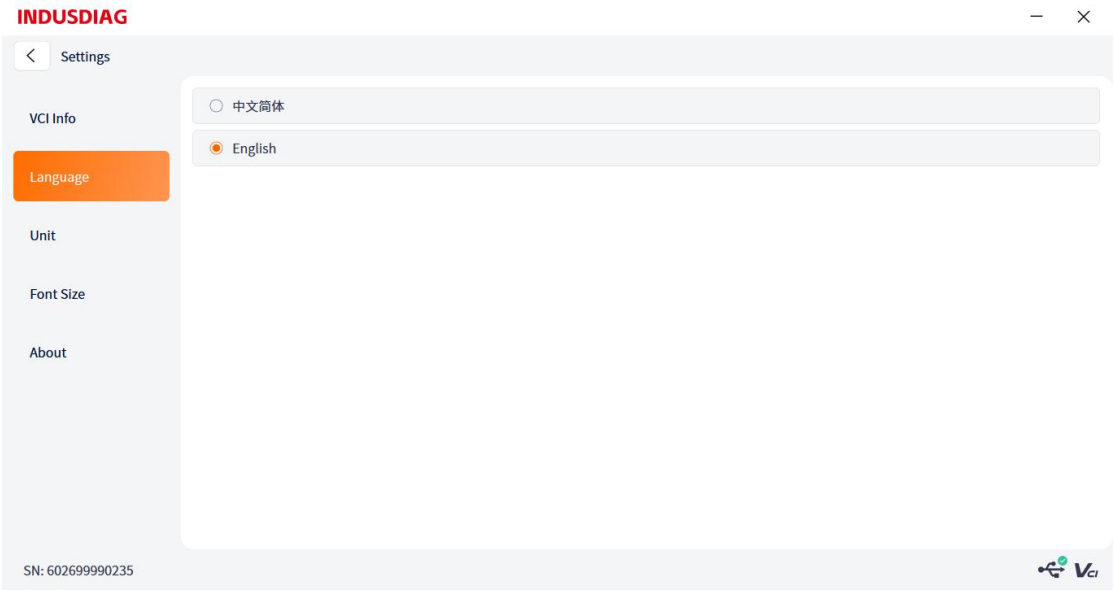
4.8.1 VCI Info

The user can see the page as shown in the figure below after clicking **[Settings]** on the AC600 Program page.
VCI Information contains serial number (SN), firmware version, hardware version, software version, and connection methods.



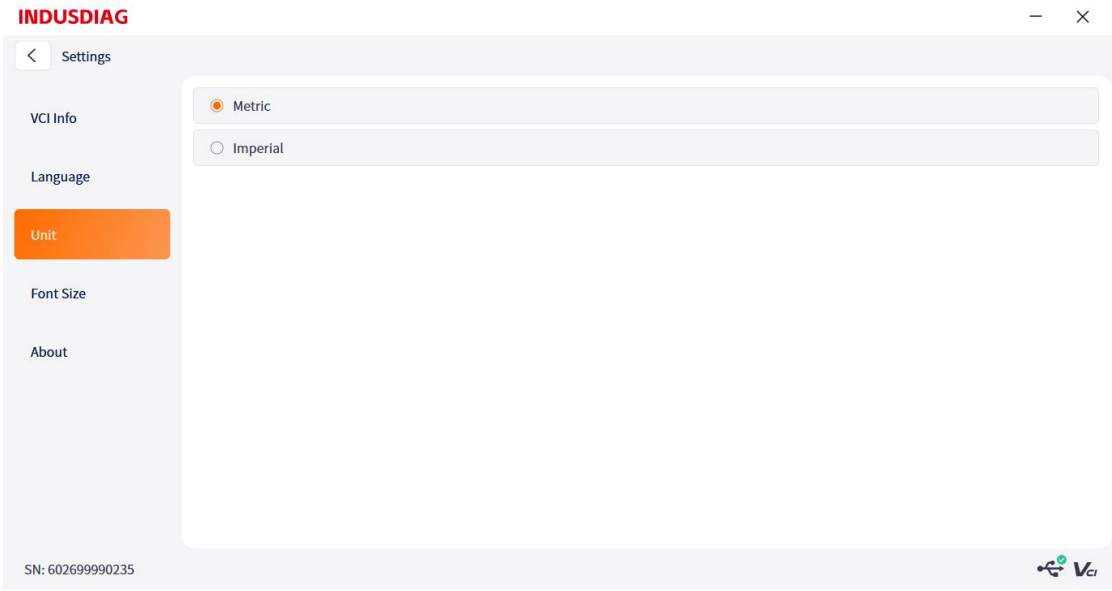
4.8.2 Languages

Click **[Language]** on the Settings screen to view the language selection menu (see illustration below). Choose from the languages supported by the device.



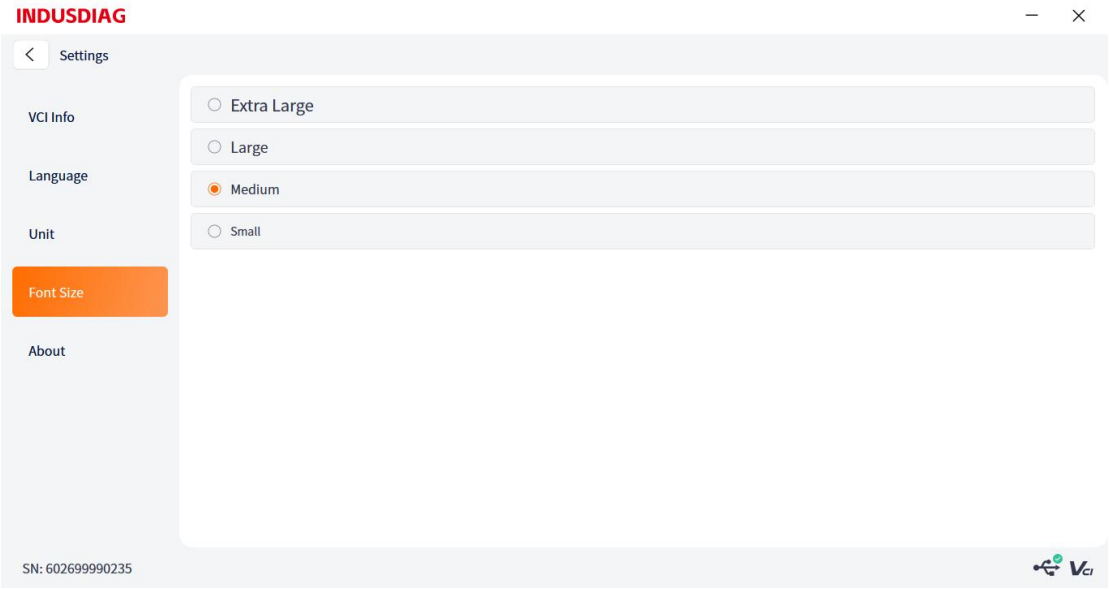
4.8.3 Units

Click **[Unit]** in Settings to choose between **[Metric]** and **[Imperial]**. The selected unit system will apply across all device functions.



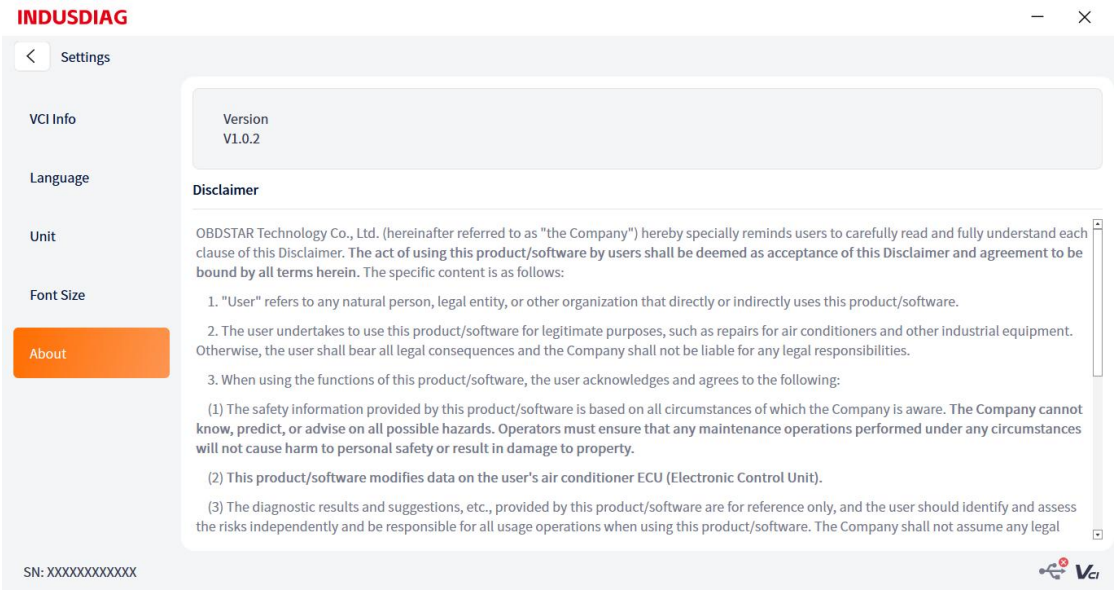
4.8.4 Font Size

On the main settings page, click **[Font Size]** to view and adjust the available font size options.



4.8.5 About

Click **[About]** in the Settings menu to access detailed version information and disclaimer.

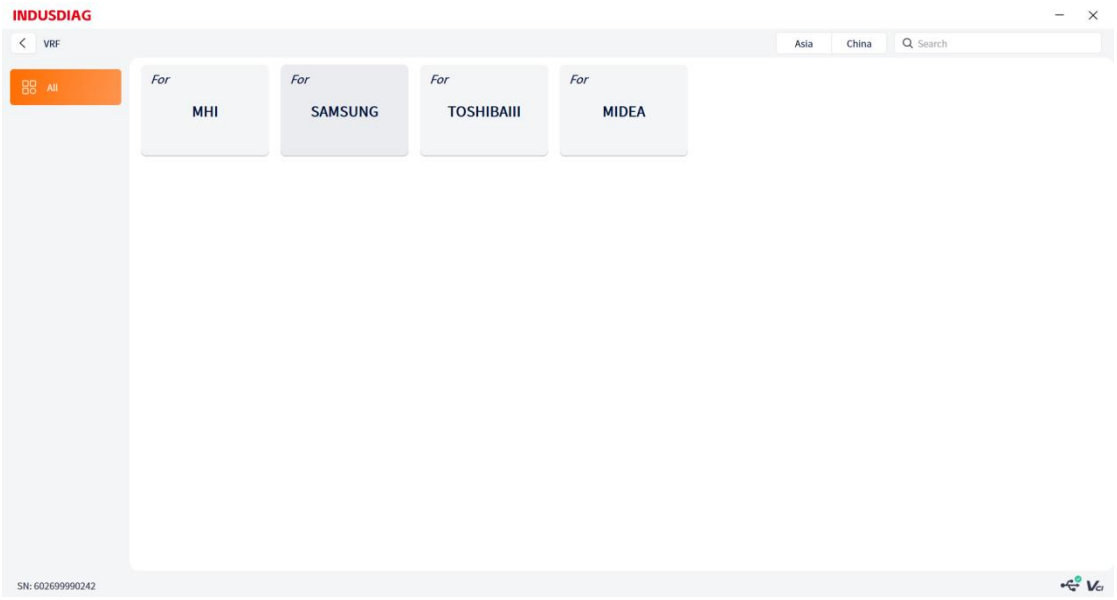


4.9 Diagnostic Operations

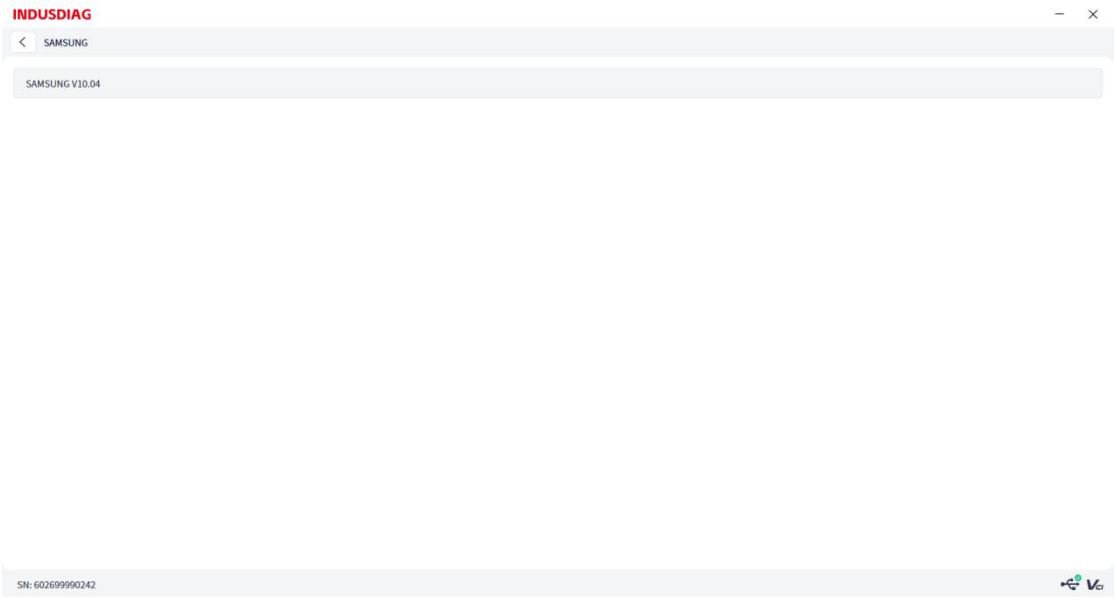
The diagnostic program establishes a data connection with the air conditioner via the main test cable. Once connected, it can retrieve AC unit information, display fault codes and historical faults, monitor real-time operating data, and perform special functions such as parameter settings and bus control.

4.9.1 Diagnostic Procedure

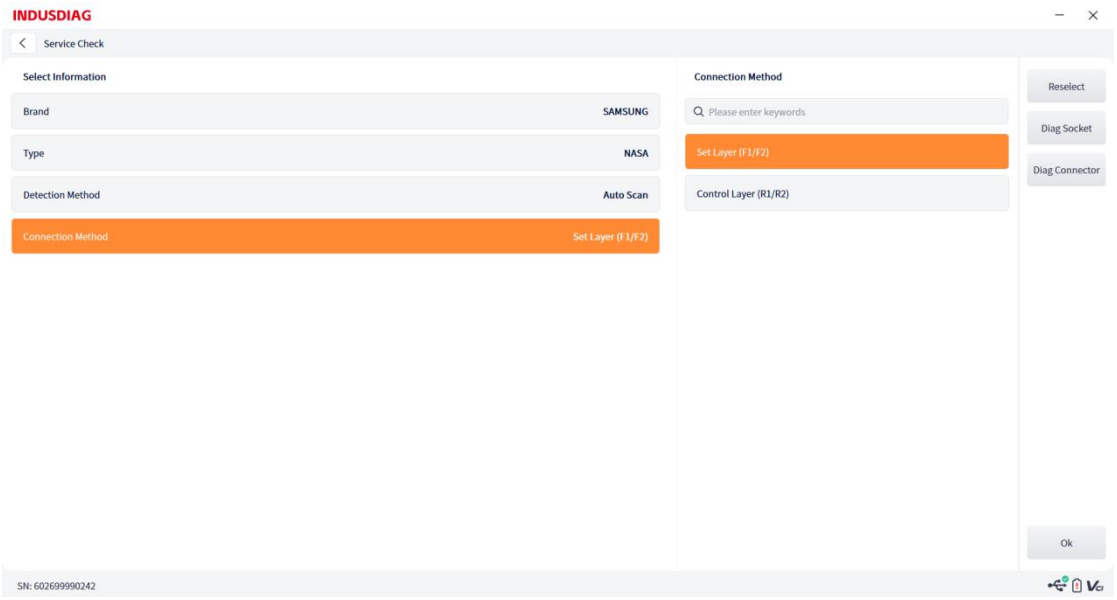
The AC600 diagnostic software supports a wide range of HVAC equipment from multiple brands, including multi-split VRF systems, large central air conditioning systems.
Example: Multi-Split Air Conditioner – SAMSUNG
Below is the main interface for multi-split system diagnosis:



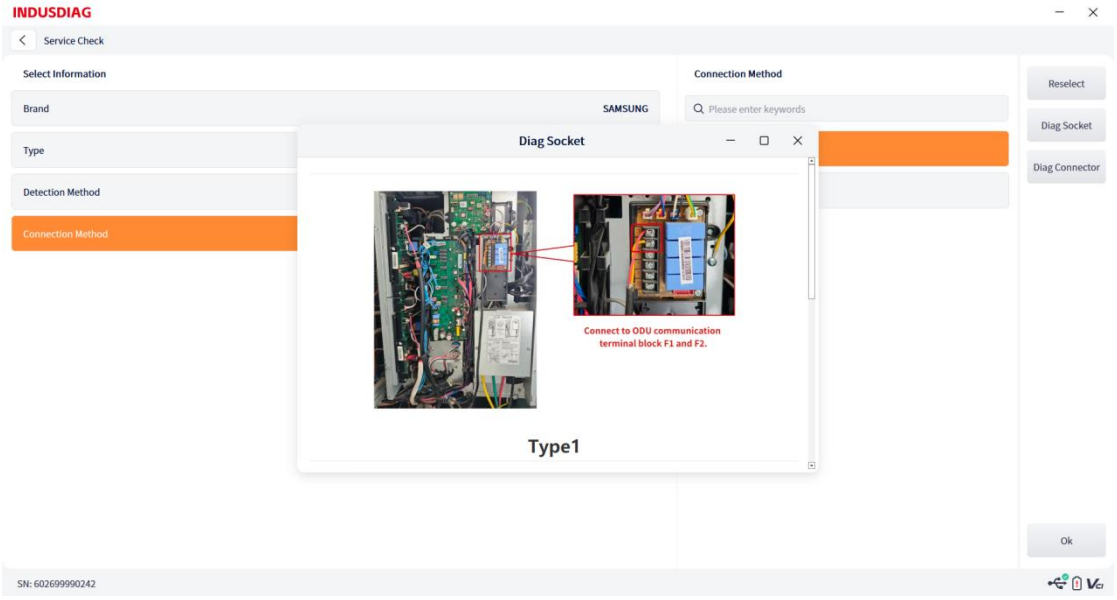
Click the **[SAMSUNG]** brand to access the air conditioner diagnostic screen:

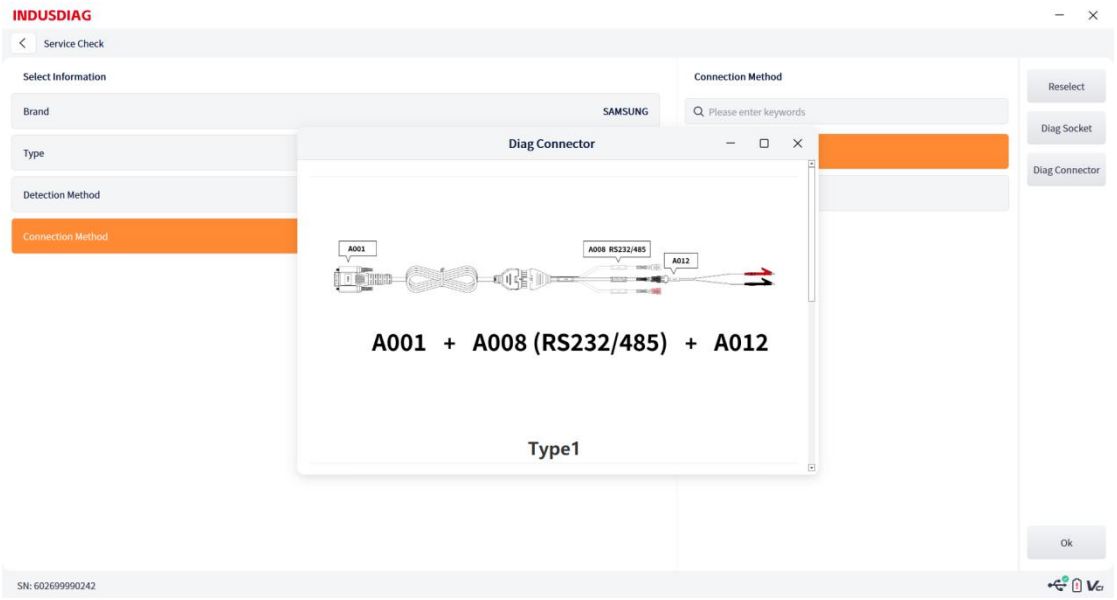


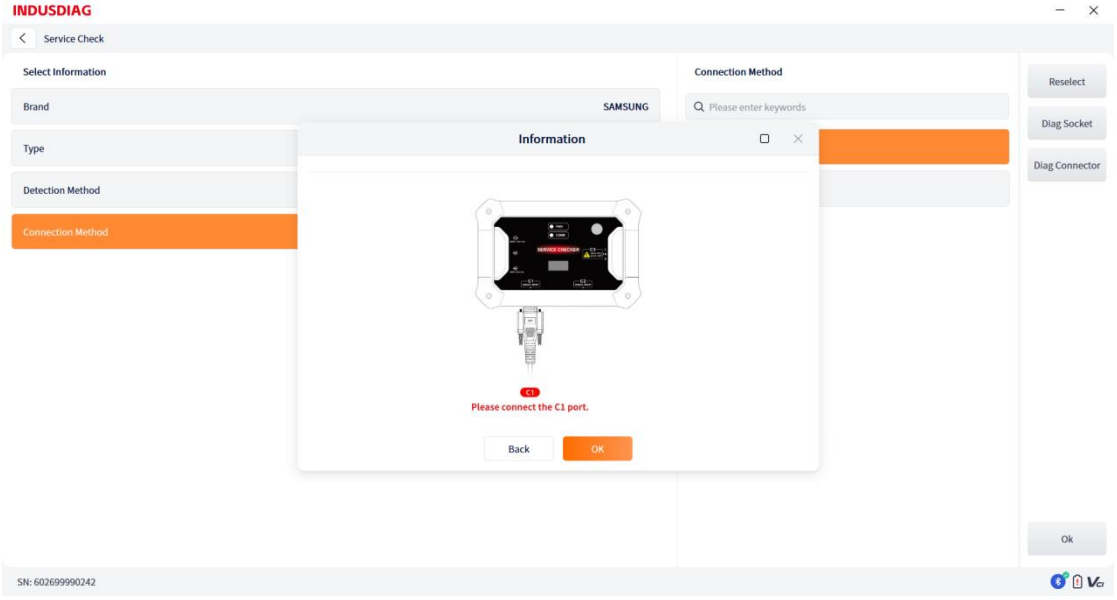
Click to go to the diagnosis interface, where you can select the corresponding type (as shown below):



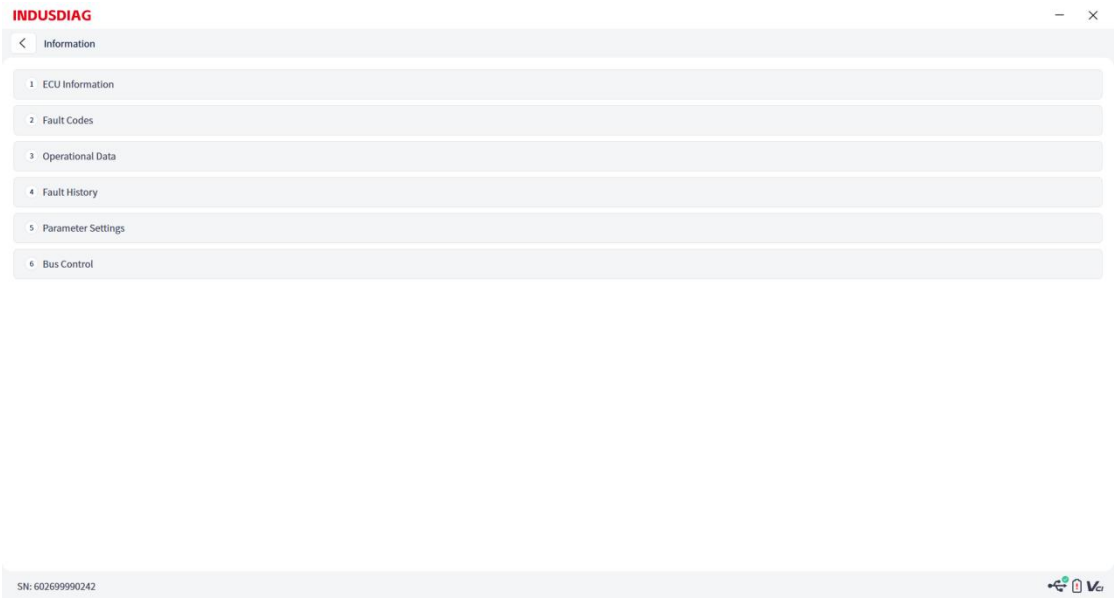
Select the appropriate diagnostic type to proceed. If reference materials are available, press the button on the right to view the diag socket location or diag connector type.



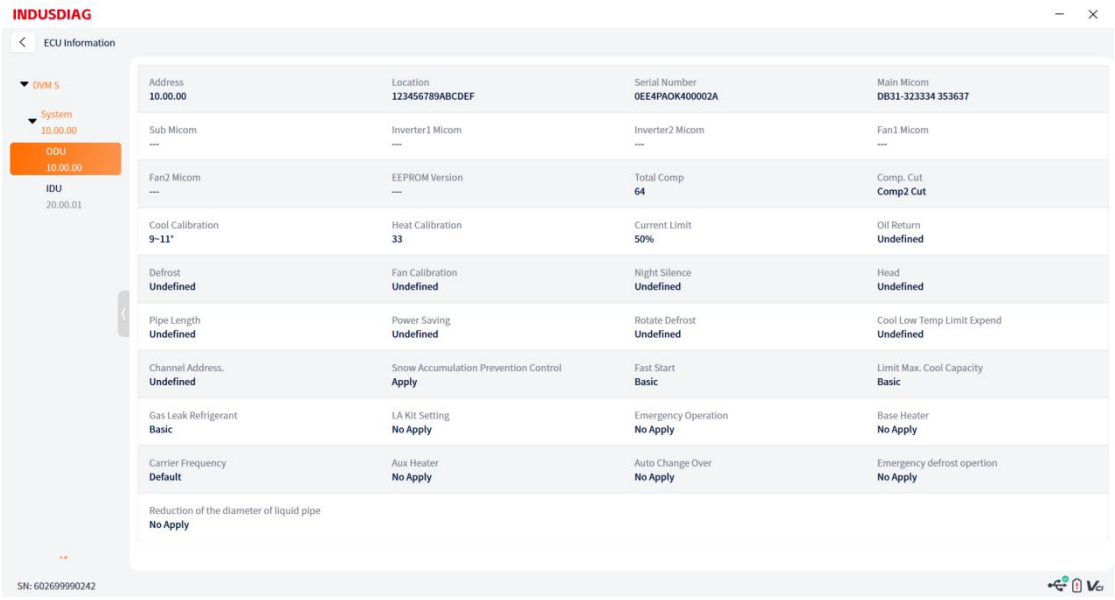




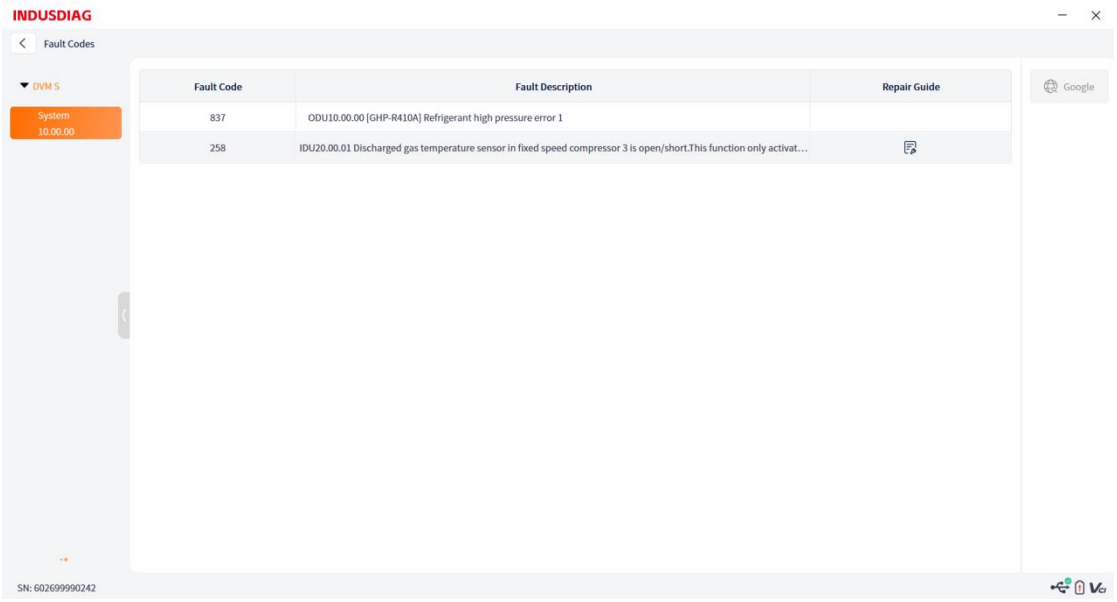
After selecting the desired diagnostic type, click **[OK]** to proceed to the function menu.



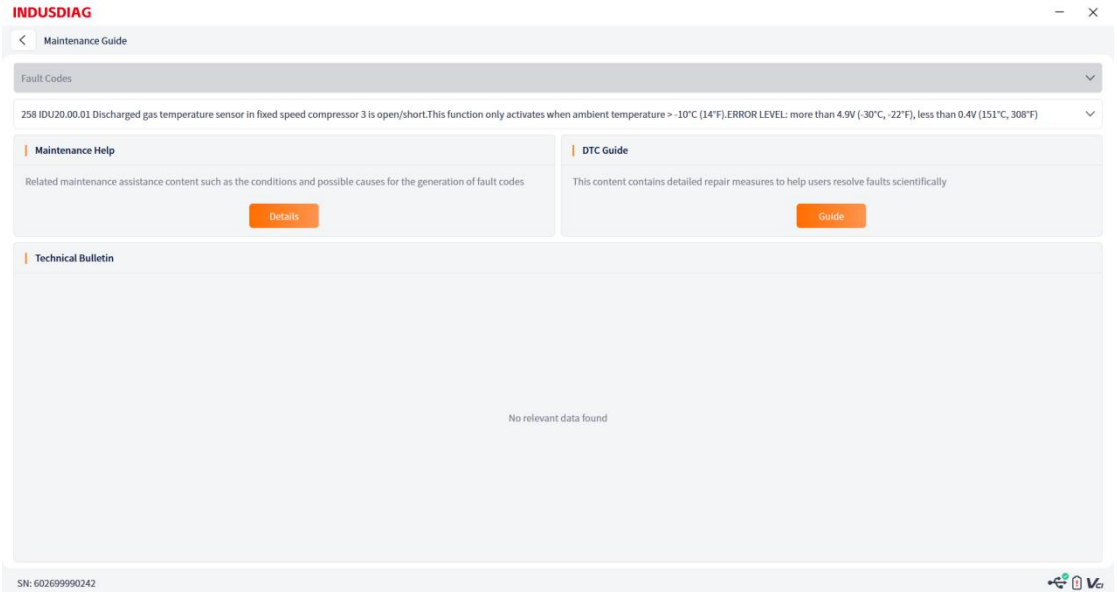
Clicking **[ECU Information]** displays basic parameters for the selected air conditioner model. Use the left-side menu to switch between indoor and outdoor unit parameters (see illustration below).



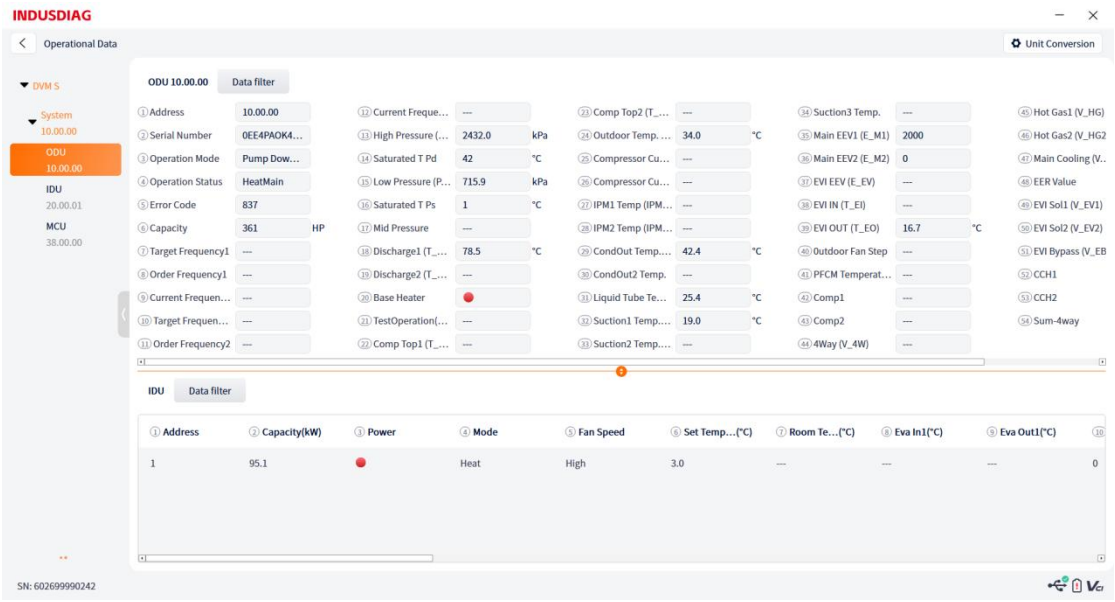
Click **[Fault Codes]** to view current fault codes and their status (see illustration below).



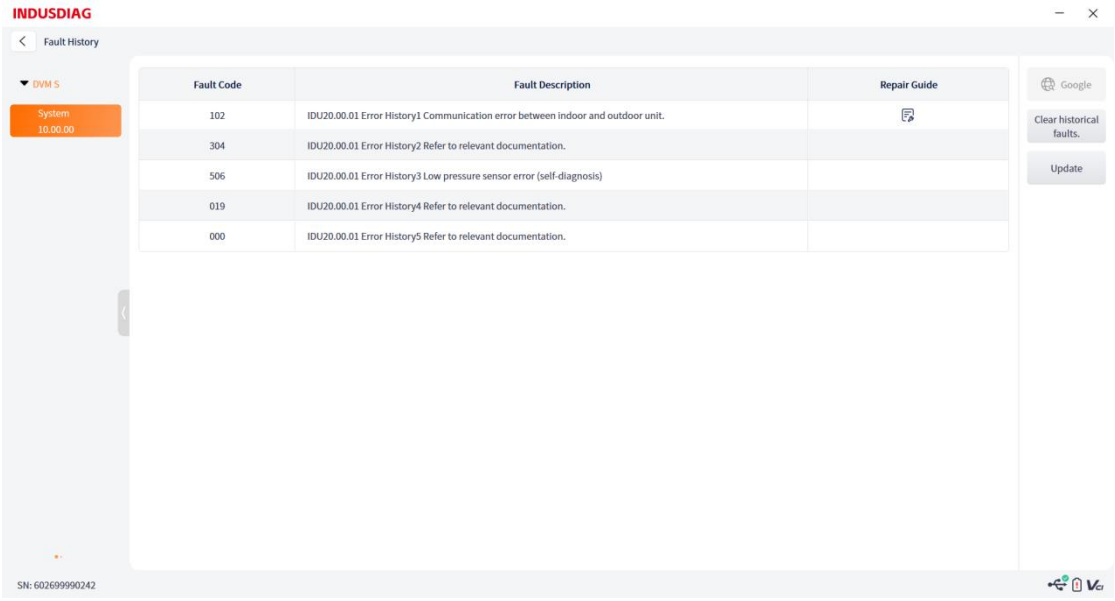
Click **[Maintenance Guide]** to access repair and troubleshooting guidance for the detected fault codes (see illustration below).



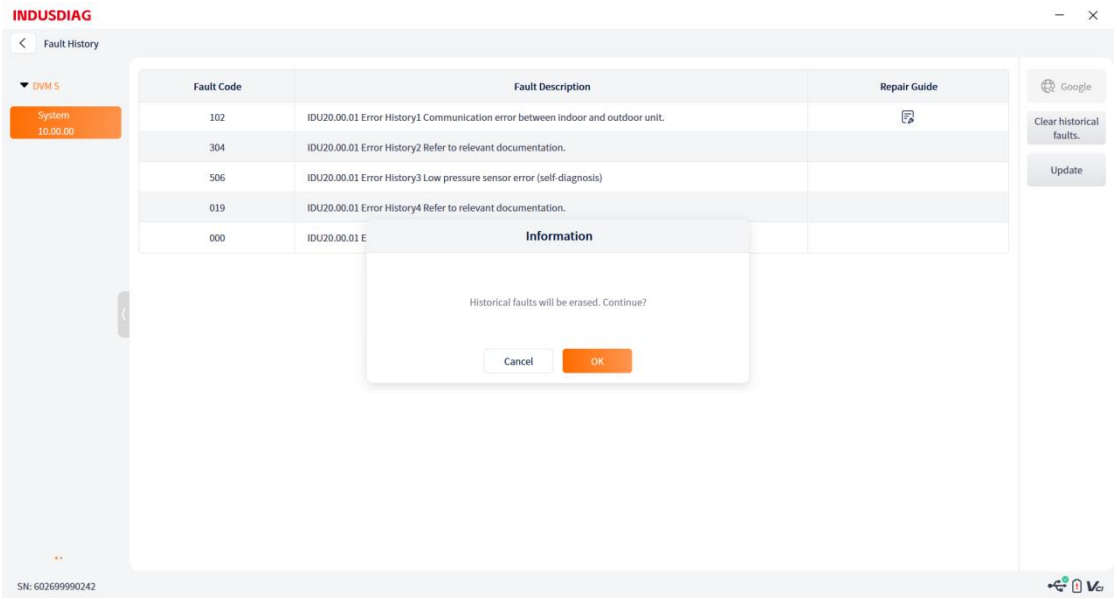
Click **[Operational Data]** to monitor real-time operational parameters. Switch between indoor and outdoor unit data displays using the left-side menu (see illustration below).



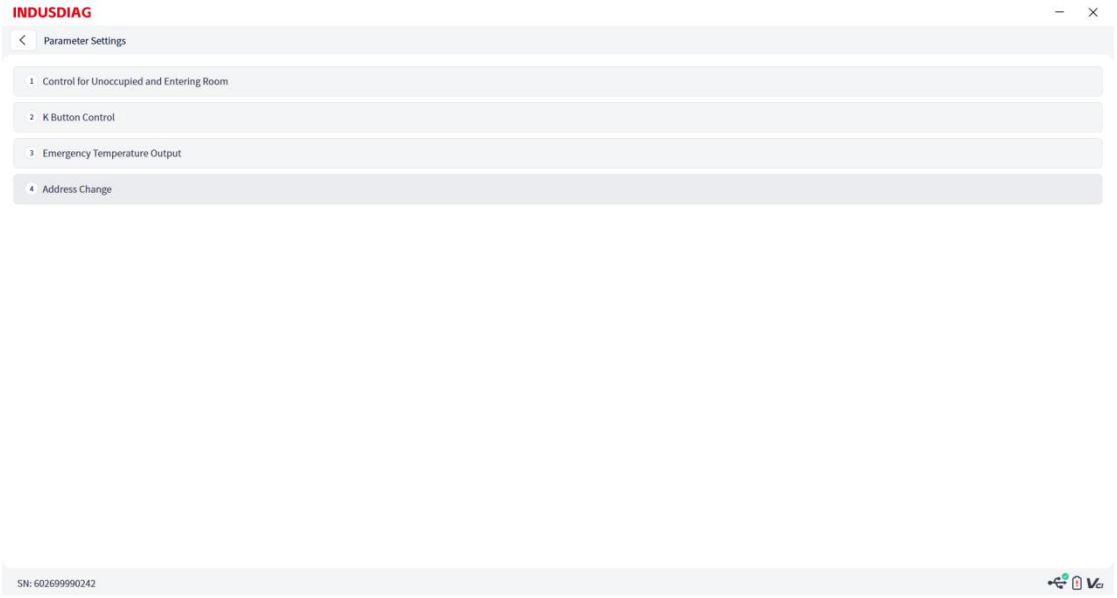
Click **[Fault History]** to view a list of past faults, including fault names and occurrence timestamps (see illustration below).



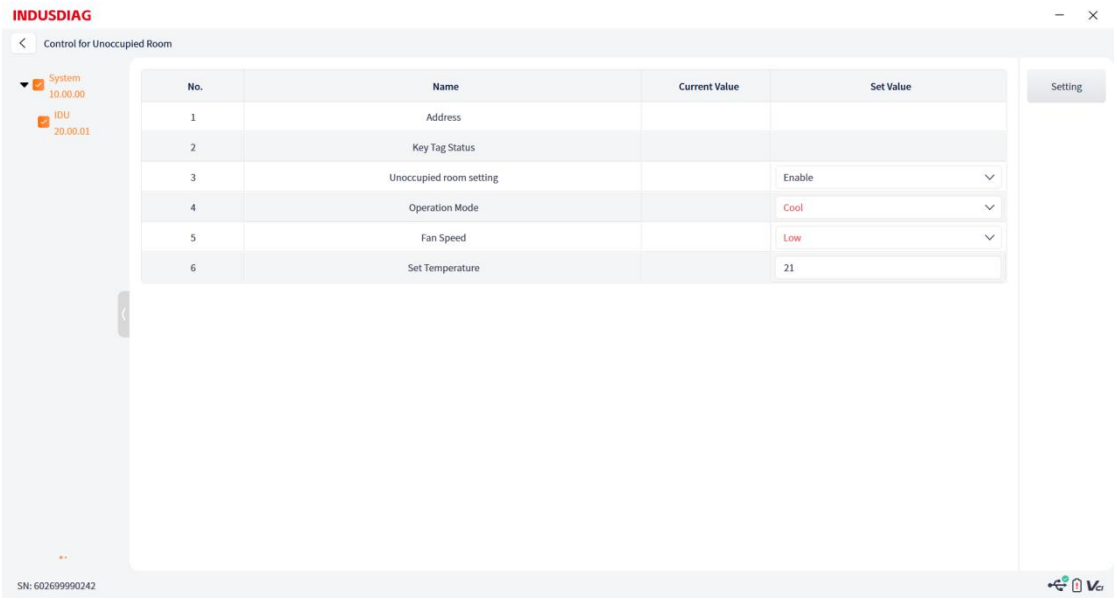
Click the **[Clear historical faults.]** button on the right side to erase recorded historical faults (see illustration below).



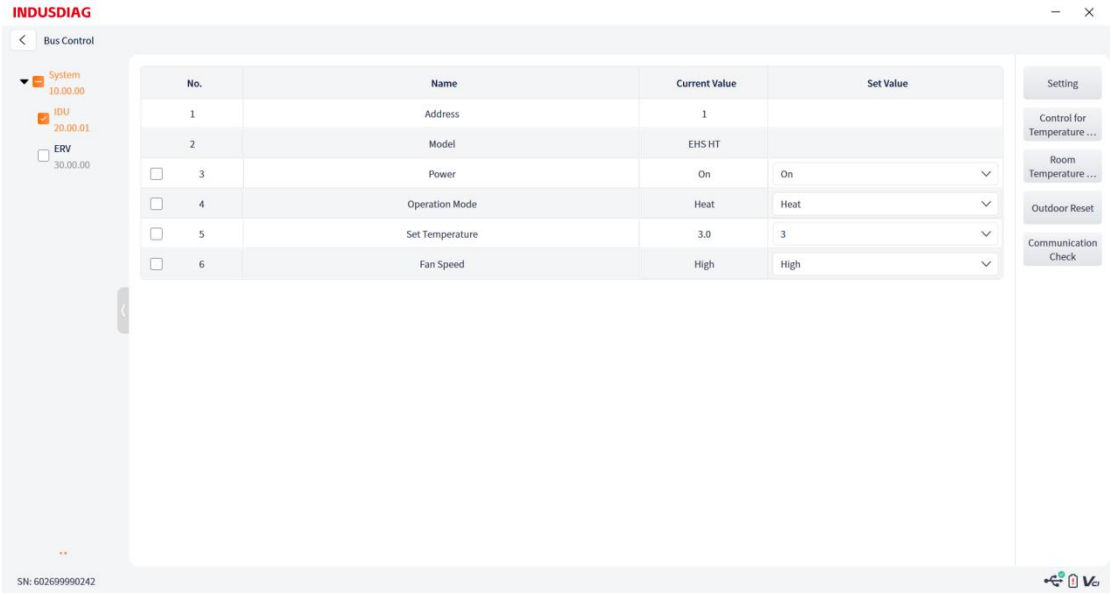
Click **[Parameter Settings]** to adjust and configure system parameters. Available functions include:



Control for Unoccupied Room Example: Allows modification of the operation mode and other functional settings (see illustration below).



Click **[Bus Control]** to control indoor unit operating modes and other functions. Specific parameters are displayed as shown below.



Note: Before exiting or closing the diagnostic application, you must first exit the diagnostic operation interface and terminate all communication between the AC600 Service Checker and the air conditioner. Communication interruption may damage the air conditioner's main board. Therefore, ensure that the main cable is securely connected to both the AC600 Service Checker and the air conditioner, and confirm that all diagnostic communications have been terminated before disconnecting the diagnostic cable or powering off the device.

5 Maintenance and Care

Keep the device and its accessories dry. Do not use external heating devices such as microwaves to dry them.

Avoid subjecting the device and its accessories to strong impacts or vibrations, as this may damage the equipment or cause the battery to catch fire or explode.
Do not store the device or its accessories in areas with extremely high or low temperatures, as this may result in equipment, battery, or charger malfunctions, fire, or explosion. When the temperature is below 0 °C, battery performance may be reduced.
Do not clean the device or its accessories with harsh chemicals, solvents, or strong detergents. Before cleaning or performing maintenance, turn off the device and disconnect the charger.
Do not disassemble the device or its accessories yourself. If you do, the device and accessories will no longer be covered under the manufacturer's warranty.
If the device collides with a hard object or suffers strong external impact causing the screen to crack or break, do not touch or attempt to remove any broken pieces. Immediately stop using the device and contact an authorized service center as soon as possible.

6 Using the Battery and Charger

When charging is complete or not in use, disconnect the charger from the device and unplug it from the power outlet.
Do not allow metal objects or conductors to come into contact with both terminals of the battery or touch the battery terminals, as this may cause a short circuit, overheating, and result in burns or other personal injury.
Do not place the battery or device near heating appliances such as microwaves, ovens, or radiators.
When the device is powered by a power adapter, the applicable altitude is determined by the accompanying adapter. The device is suitable for tropical environmental conditions; maintain the ambient temperature between -20 °C and 70 °C. When the device is powered by the battery, operate it within an ambient temperature range of -10 °C to 40 °C. Do not use the device outside these temperature ranges, as extreme temperatures may cause malfunctions. Battery overheating may cause an explosion.
Do not disassemble or modify the battery, as this may result in leakage, overheating, fire, or rupture.
If the battery leaks, avoid contact between the substance and skin or eyes. If contact occurs, immediately rinse thoroughly with clean water and seek medical attention.
If the charger's power cord is damaged, discontinue use immediately to prevent electric shock or fire.
Never throw the battery into fire, as this may cause it to catch fire or explode.
Follow local regulations for disposing of the device, battery, and accessories, and support recycling. Do not discard them as ordinary household waste.

7 Ordering Information

Replaceable parts and optional accessories can be ordered directly from the Company's

authorized dealers. Please specify the following when placing an order:
Quantity required
Part number
Part name

8 Customer Service Center

If you encounter any issues during operation, please call the national service hotline: +86-755-86707161.
When the device requires repair, please return it to OBDSTAR Technology Co., Ltd. along with your purchase invoice and a description of the issue. If the device is under warranty, repairs will be provided free of charge. However, if the device is out of warranty, a repair fee will apply, and return shipping charges will be collected.
OBDSTAR Technology Co., Ltd. After-Sales Service Address:
Floor 2, Building B3, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Subdistrict, Bao'an District, Shenzhen, 518000, China

9 Warranty

One-Year Limited Warranty
OBDSTAR Technology Co., Ltd. (hereinafter referred to as "OBDSTAR") warrants to the original retail purchaser of this product that, for a period of one year from the date of delivery, if the product or any component becomes defective due to material or workmanship under normal use, resulting in device failure, OBDSTAR will, upon proof of purchase, repair or replace it free of charge—with a new or refurbished part—at its discretion.
OBDSTAR shall not be liable for any incidental or consequential damages resulting from misuse, improper operation, or incorrect installation of the device. Some countries or states do not allow limitations on the duration of implied warranties; therefore, the above limitations may not apply to you.
This warranty does not cover the following:
a. Products damaged as a result of abnormal use, unusual conditions, accidents, mishandling, negligence, unauthorized modifications, improper use, incorrect installation or repair, or improper storage.
b. Products whose physical or electronic serial numbers have been removed, altered, or defaced.
c. Damage caused by exposure to high temperatures or extreme environmental conditions.
d. Damage resulting from connecting to or using accessories or other products not approved or authorized by the Company.
e. Defects in the product's appearance, decorative items, ornamental or structural components such as frames and non-functional parts.
f. Products damaged by external causes such as fire, dirt, sand, leaking batteries, blown fuses,

theft, or misuse of power source.