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**Intelligent Temperature and Humidity Data Analysis System**

**ZCLOG Analysis**

**User Manual**

Version: 2.3

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# Before use

1. The display resolution of the computer running this software should not be lower than 1280 ×800. If the current resolution of the computer is lower than 1280 ×800 , it will cause inconvenience to the human-computer interaction during operation. To ensure the excellent interface interaction quality, please adjust the display resolution of the computer to 1280 ×800 or above .

2. This software requires the support of auxiliary software such as Zhice 298 series temperature and humidity recorder, USB to COM communication driver, Office text editing tool (Microsoft Office 2010 or above), PDF reader and Founder font library . Please install these necessary auxiliary software as required before starting this software.

3. Before use, please read this manual carefully and follow the instructions in the manual; during use, click the [Help] button on the interface with the left mouse button to get timely help.

4. In this manual, items enclosed by "" indicate menus, items enclosed by [] indicate buttons, and → indicates continuous actions.

5. This software contains relevant settings for compliance verification functions, including FDA compliance settings, sterilization verification parameter settings and other functions.

6. This software uses the login name + password method for permission management and security protection. Please change your own password after the first login and remember it. If you have other needs, please contact us.

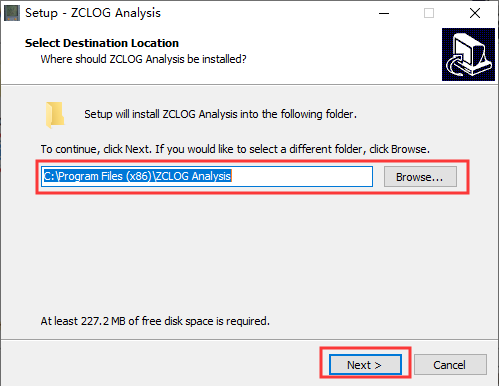
# Software Installation and Uninstallation

## 1.1 Software Installation

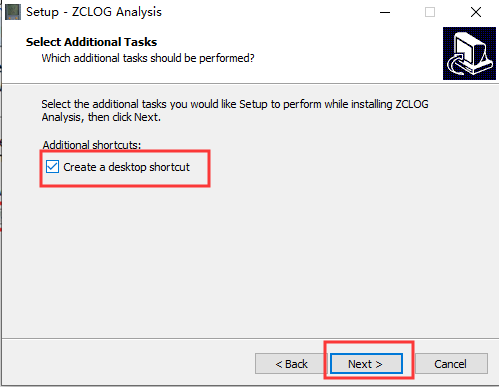
### ZCLOG Analysis Program Installation

System support: xp, Win 7, Win10 (Note: except Win10 Professional Edition).

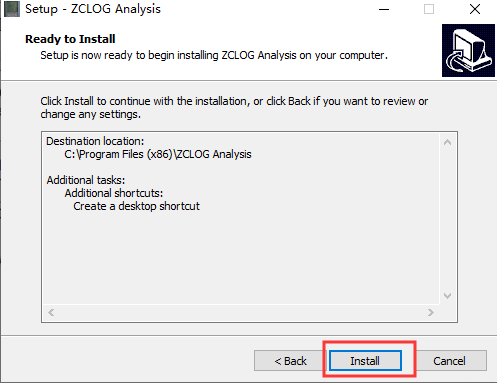
Find the " ZCLOG Analysis setup.exe " program, double-click it and the following figure will appear . The file directory can be modified or the default can be used, then click 'Next'!



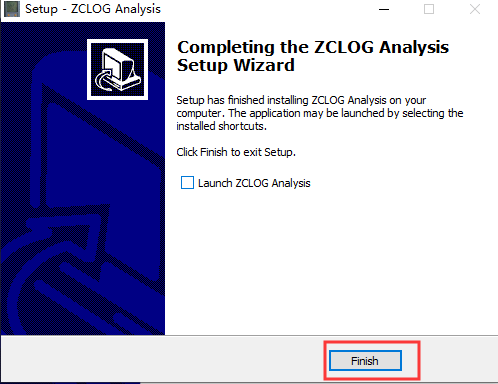
It is recommended to check the "Create desktop icon" option, then "Next";



Select "Install" to install;



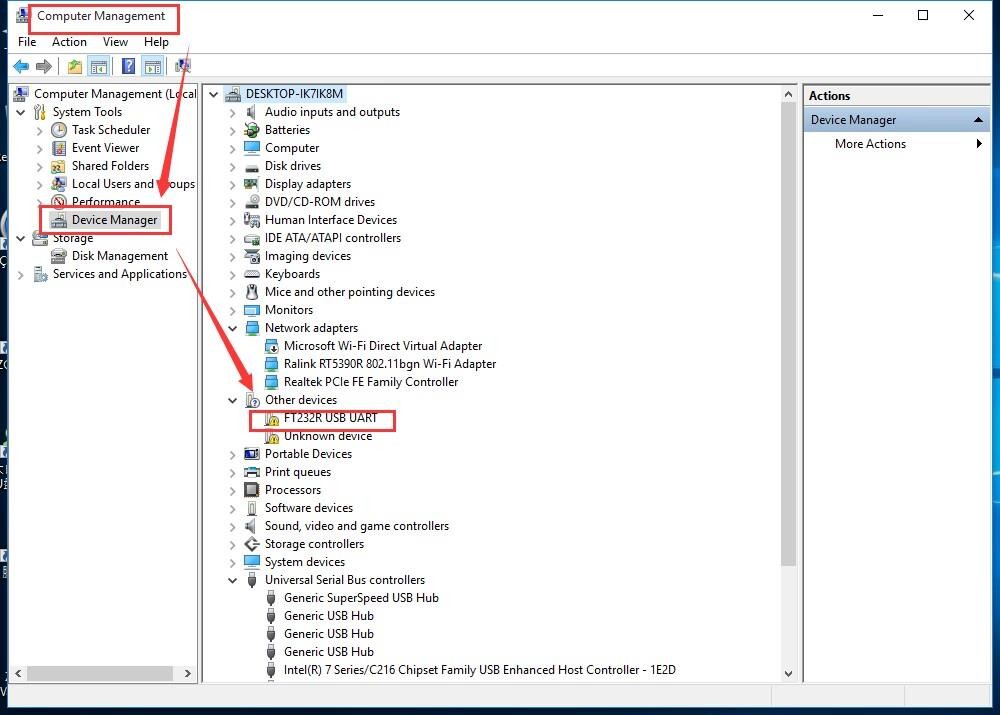
After the dialog box below pops up, click "Finish" and the installation of the main software program is completed.



Finally, before using the software, you need to install the driver of the 298 recorder. The driver file name is "298 series recorder communication driver.rar", which can be downloaded from our official website. After downloading, unzip it to the specified folder directory for backup. Please connect the 298 device to the computer using a communication cable. When using it for the first time, open the computer's device manager and check the "port" information. You can see the "FT232R USB UART" as shown in the figure below.

**Step1:** Unpack the adapter and install necessary components;

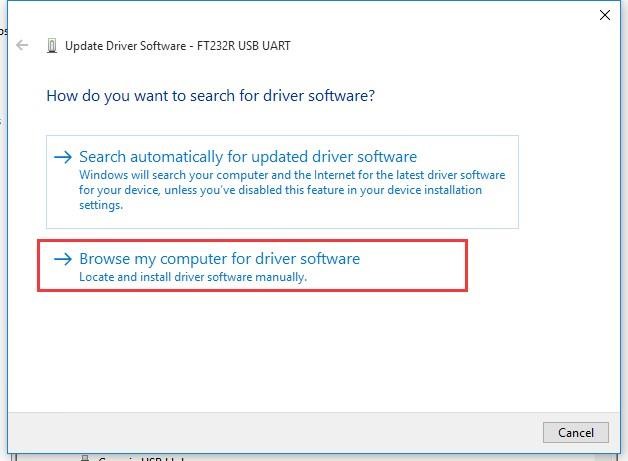
**Step2:** Use the USB communication cable of the adapter to connect the USB port of the computer and the port of the adapter. When the adapter driver is not installed for the first time, the "FT232R USB UART" identifier as shown in the following picture will be displayed in the device manager of the computer.

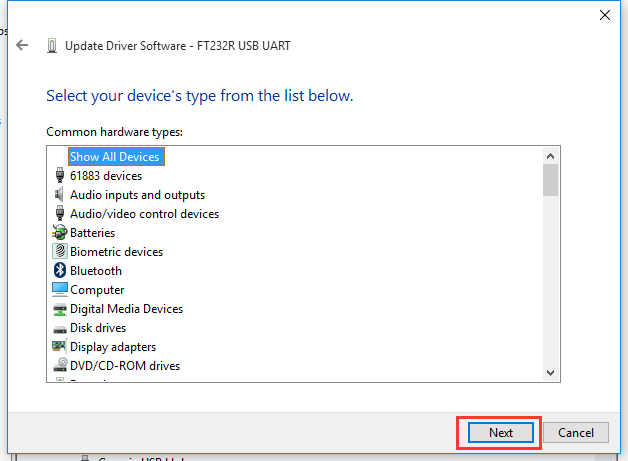
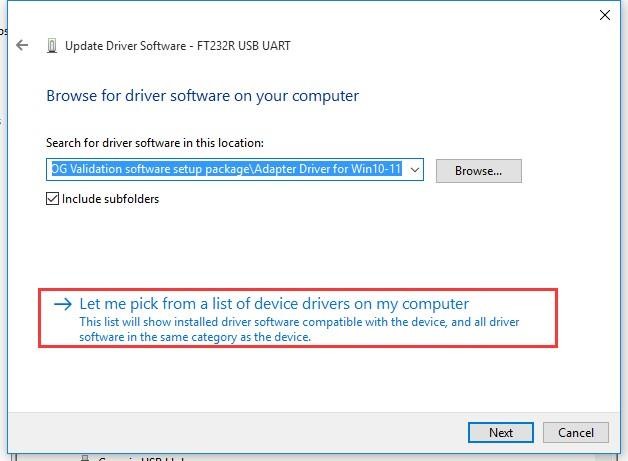


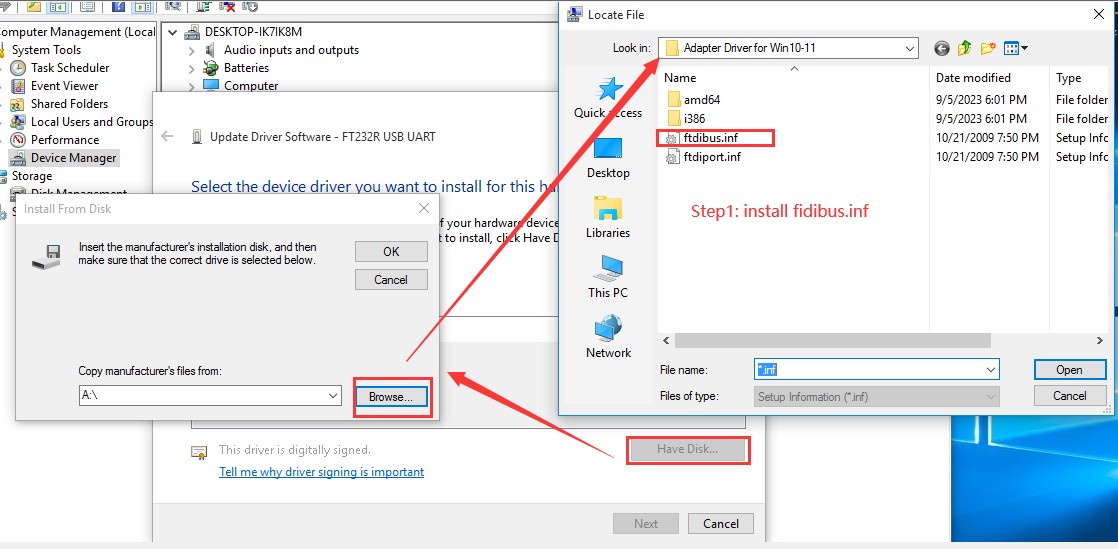
**Step3:** Insert the USB flash drive into the USB port of the computer, browse and find the driver folder in the installation USB flash drive according to your computer operating system;

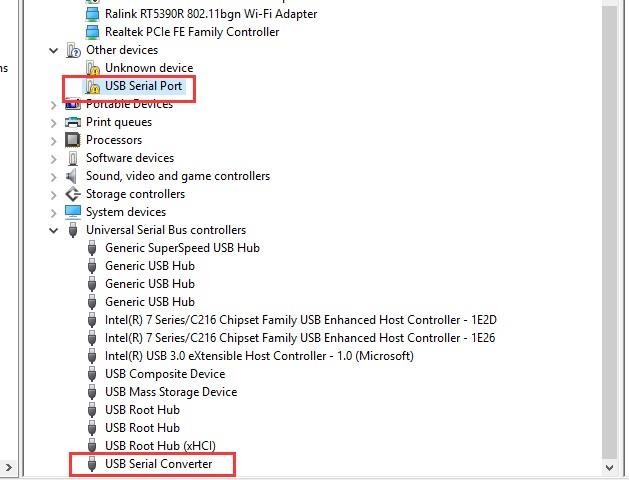


**Step4:** In the interface of device manager, right-click "FT232R USB UART" and select "Update Hardware driver" to find the driver in step3. First install "ftdibus.inf",



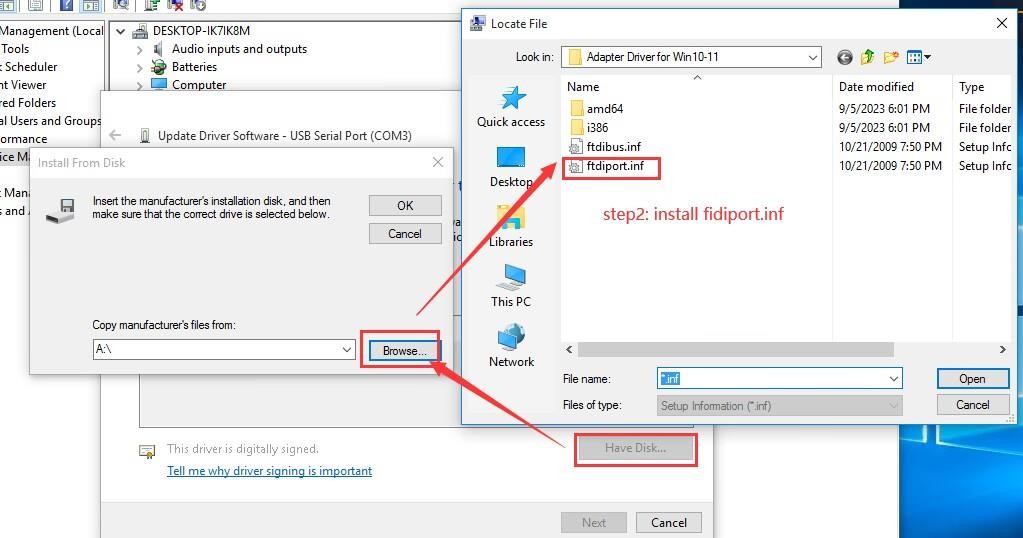


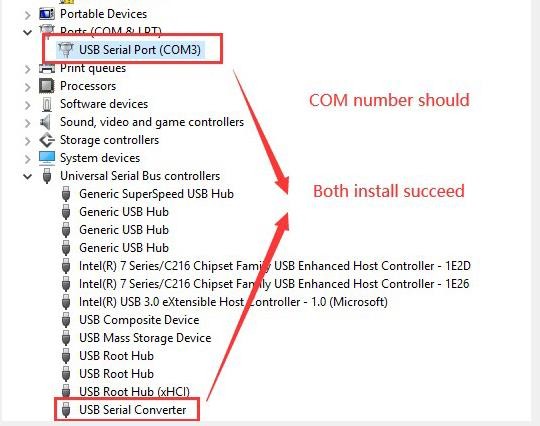




Close the dialog box after the prompt is successful, and the device Manager interface will refresh, as shown below!

**Step5**: Repeat step4 after successful installation, update the driver, install "ftdiport.inf", after successful setting the device manager to correctly identify the adapter model as shown in the following figure.





Additional note: The driver of the adapter contains two parts, the device manager interface corresponding to the "universal bus controller" and "port", the corresponding driver files of these two hardware parts are the "ftdibus.inf" and "ftdiport.inf" two files in the driver folder, So the driver of the adapter is divided into the above two parts when installing, and finally only the two parts are successfully installed, on behalf of the adapter driver installation complete. Ordinary users in the first installation of the driver may encounter installation failure, you can contact us in time.

## 1.2 Software Uninstallation

### 1.2.1 Uninstalling ZCLOG Analysis

"Control Panel" - "Programs" - "Program Uninstall", find " **ZCLOG Analysis** ", right-click and select "Delete/Uninstall".



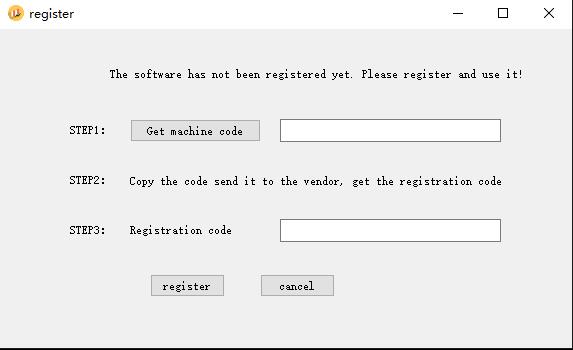
Note: This uninstallation process will not uninstall related components added during installation. If you need to uninstall related components, uninstall each component separately.

Note: The recorders and models supported by this software are as follows

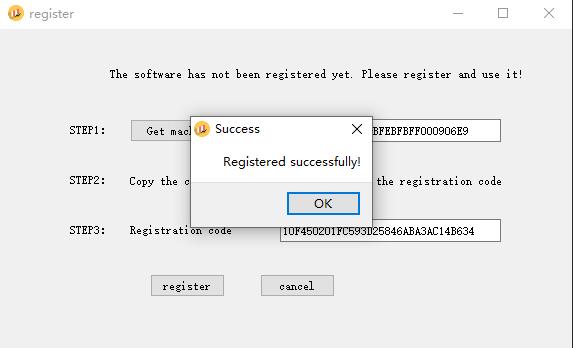
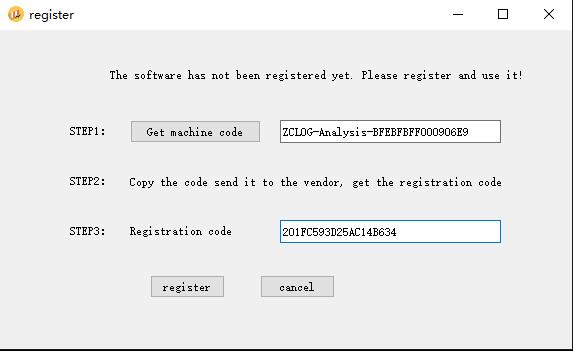
Temperature and humidity recorder model: 298 temperature and humidity recorder

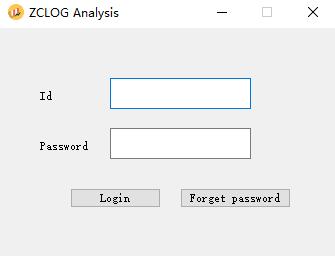
# Login and function module introduction

Run the software ( if you did not check 'Create desktop shortcut' during installation, you need to find ZCLOG Analysis from the Start menu --> All Programs) , and the registration window shown below will appear:

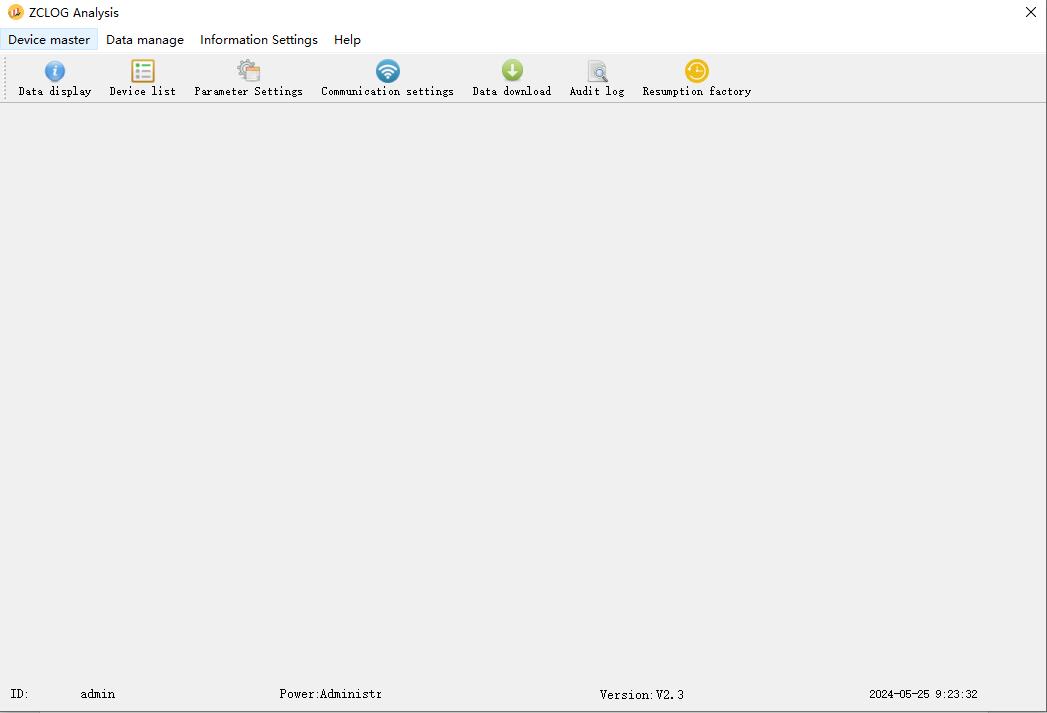


Click Get Machine Code and copy the machine code and send it to our company to get the registration code. After getting it, paste it into this interface and click Register. It will prompt that the registration is successful. As shown in the figure below:

After clicking Register, the initial window shown below appears:



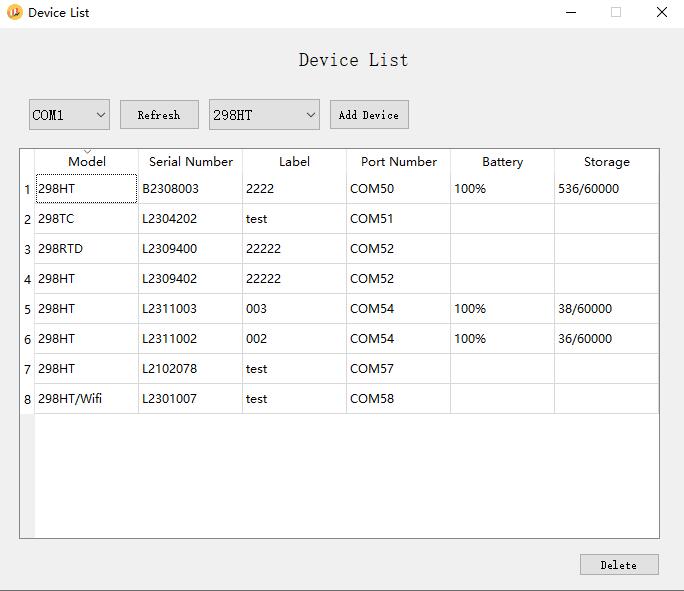
After entering the correct account and password (the default user name is admin and the password is 1) , enter the main interface of the software. The software is mainly divided into four functional modules: device management - data management - information settings - help. Each module has its own corresponding functions. The center of the software is the main interface, and the information bar below is the current logged-in user, logged-in user permissions, software version number and current time.



## 2.1 Device Management

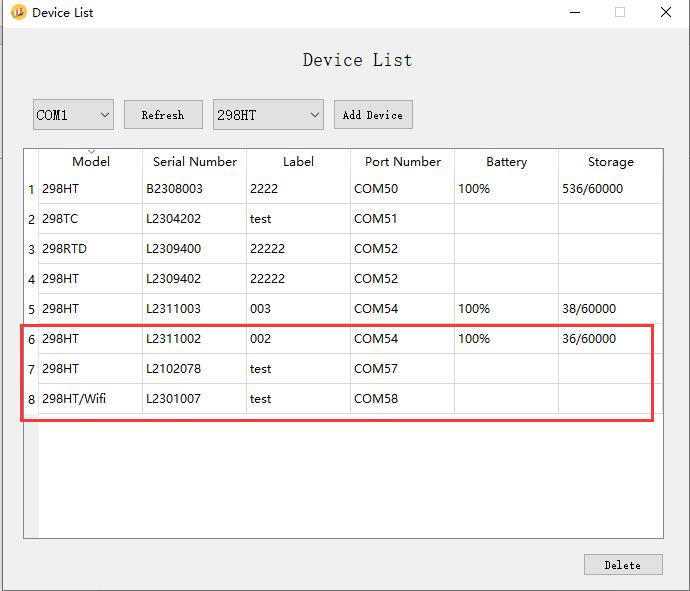
### 2.1.1 Equipment List

When using all recorders for the first time, you need to enter 'Device Management' 🡪'Device List' to register the device information. The initial interface is as shown below:



设备类型

Select the port number of the current device in the drop-down box on the upper left corner, and click Add Device. Two types of devices can be added: 298HT and 298HT/Wifi . If the serial port number is correct, a message box will pop up to prompt that the connection is successful. Do you want to add the device? Click 'Yes' and the device will be automatically added to the device list. Click 'No' to exit. If the serial port number is incorrect, a pop-up window warning of connection failure will pop up. Reselect the correct serial port number to add it. The following figure shows the interface after successful addition.



If you need to delete an added device, select the device to be deleted, click the Delete button, and select Yes in the pop-up confirmation box to delete it.

### 2.1.2 Parameter settings

Enter 'Device Management' 🡪'Parameter Settings' to set the operating parameters of the recorder. Select the recorder to be set in the device list above and enter the corresponding information in the information box below.

Probe type: temperature (dual channel), temperature and humidity (integrated);

Temperature unit: ℃\℉;

Temperature upper and lower limits: Set the temperature limit. When the temperature exceeds the limit, the recorder will flash a red light to prompt;

Humidity upper and lower limits: Set the humidity limit. When the limit is exceeded, the recorder will flash a red light to prompt;

Start time: After checking, you can set the recorder to start collecting at a specified time. When you need to set a batch of recorders to collect at the same time, it is recommended to check this function to set the scheduled collection.

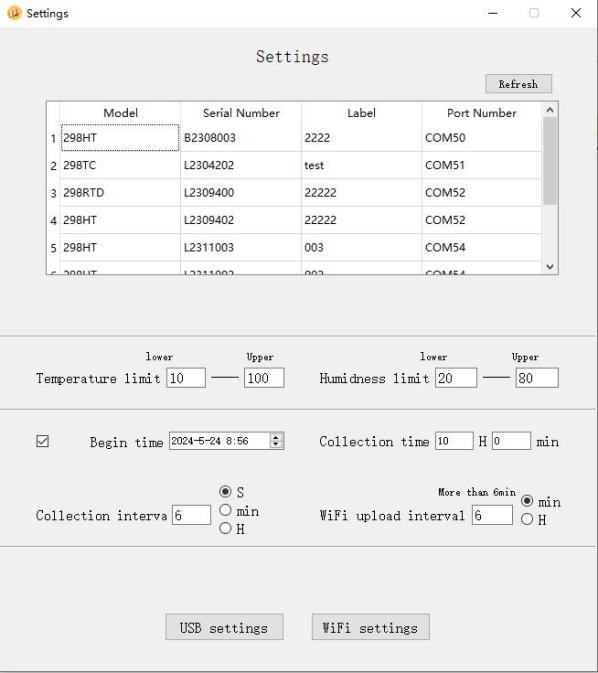
Collection duration: A single channel of the recorder allows a maximum of 30,000 sets of data to be set, so the software here will determine whether the set duration exceeds the limit based on the collection duration and collection interval.

Collection interval: 6S to 240H;

USB settings: For data loggers connected via USB, after entering the relevant parameters, click the "USB settings" button to start setting the parameters for the selected data logger.

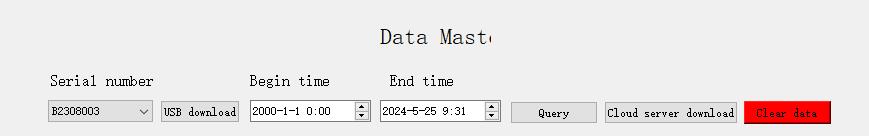
Wi-Fi Cloud Settings: For communication via Wi-Fi, after entering the parameters, click the "Wi-Fi Cloud Settings" button to start setting the parameters for the selected recorder.

To set up, you need to first connect to wifi in the communication settings menu in device management, and then return to parameter settings to set up wifi cloud, as shown below:

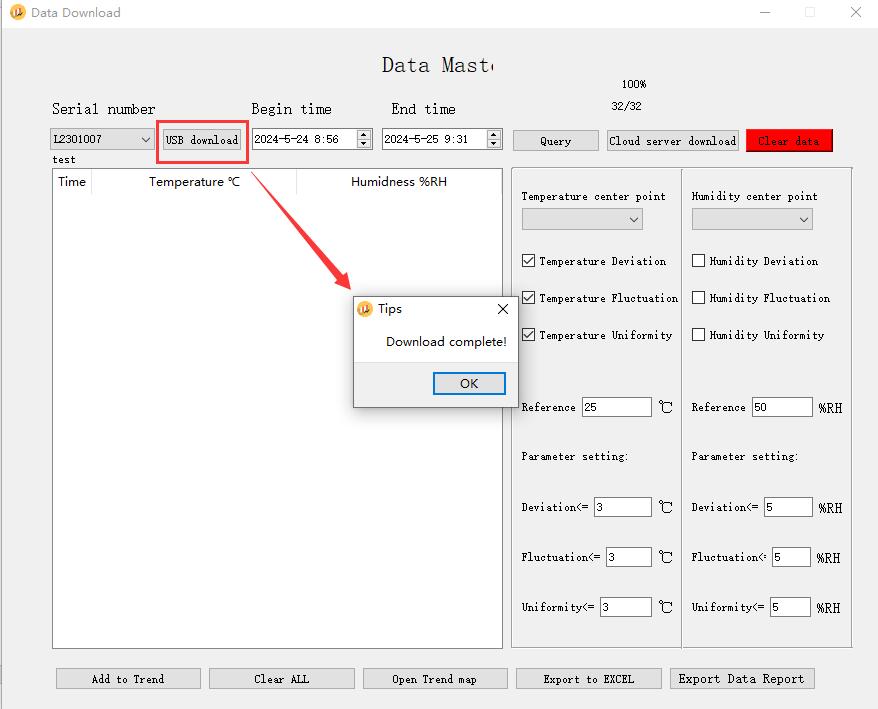


### 2.1.3 Data Download

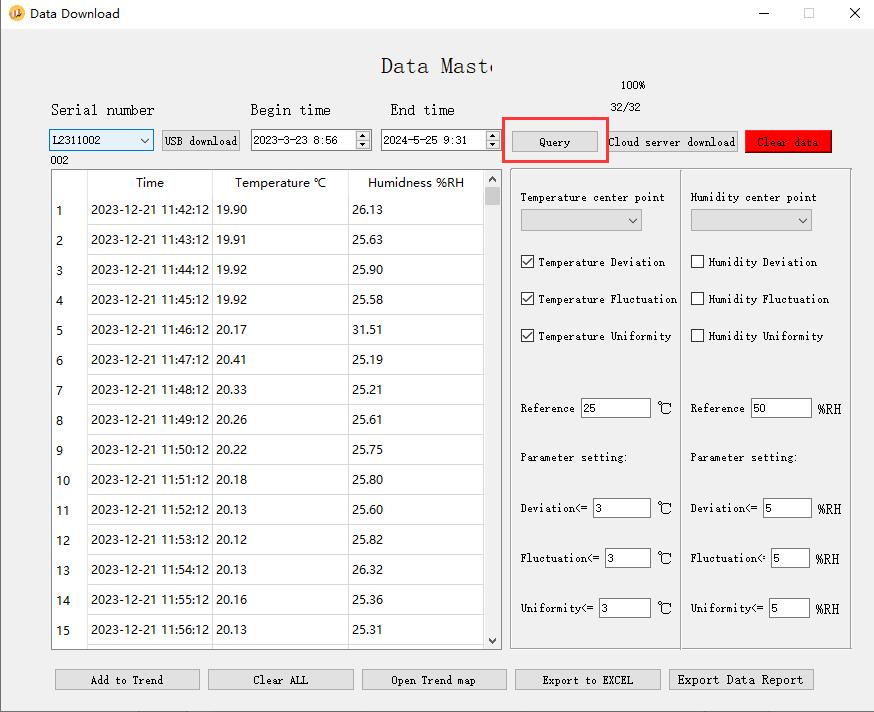
Enter 'Data Management' 🡪'Data Download' to download and view the data collected by the recorder via USB and cloud server.



After selecting the serial number, serial port number, and start and end time, click Download. After the download is complete, a prompt box will pop up indicating that the download is complete (downloading takes a certain amount of time depending on the amount of data, so please wait patiently for the prompt box to appear before operating).



Click the View button and the interface will display the corresponding data.



The collected data can be displayed in the form of a trend chart, or multiple recorder data can be combined and displayed in one trend chart interface (to display multiple recorder data, the start time of the recorder data needs to be consistent). The specific operations are:

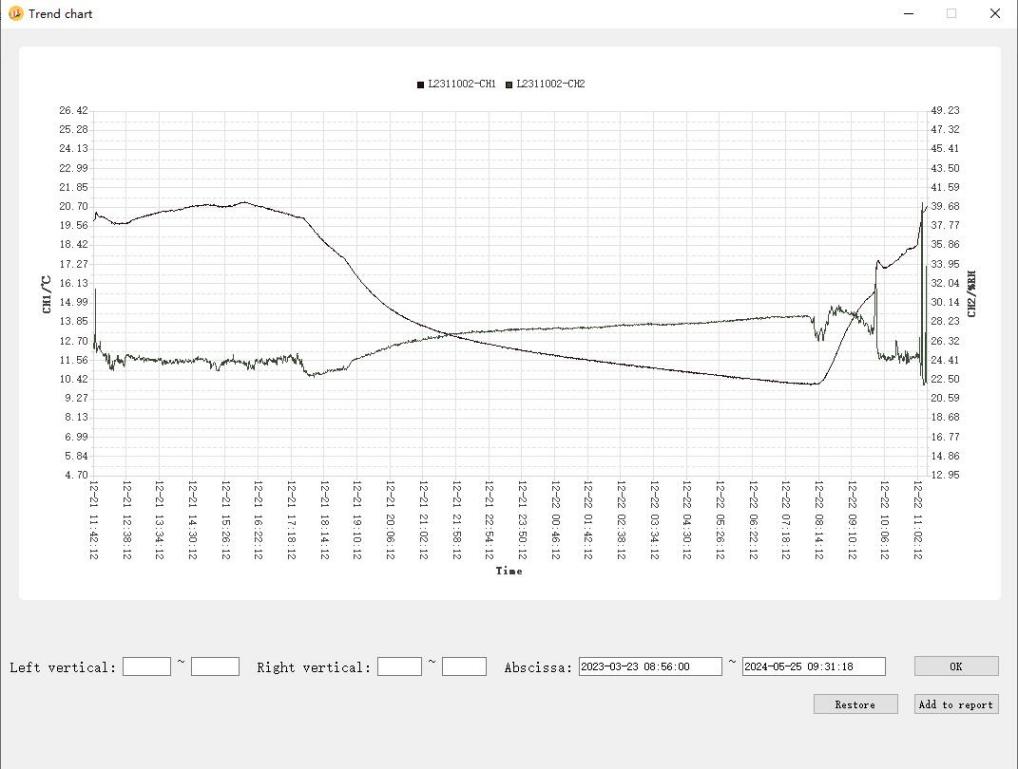
1. Select the recorder to be downloaded from the drop-down box and click Download. After the download is successful, the software will first save the data to the database;

2. To query data, you can set the start and end time of the query data. If you do not set it, all queries will be displayed in the list below by default;

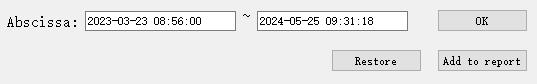
3. If you need to export the report, first click the "Merge to Report" button. If you have multiple recorders and need to merge the data, also click "Merge to Report" after selecting the corresponding recorder and then export it.

4. Open the trend chart. If you want to display the trend chart in the report, please click the "Insert into Report" button. This trend chart is drawn with dual coordinate axes and lines of different colors. The left side represents the data of channel 1, and the right side represents the data of channel 2. The lower coordinate axis is the time axis, and there is a line color description at the top. You can view the line data according to the line color description.

Trend chart operation: The mouse wheel controls the zooming in and out of the trend chart. The mouse wheel up will zoom in, and the mouse wheel down will zoom out. The keyboard arrow keys control the movement of the trend chart up, down, left, and right, so that you can more conveniently view a certain section of data. Click the restore button to restore the trend chart to the starting state.



If you only want to view the trend chart of a certain period of data, you can directly enter the start and end time to view it, as shown below:

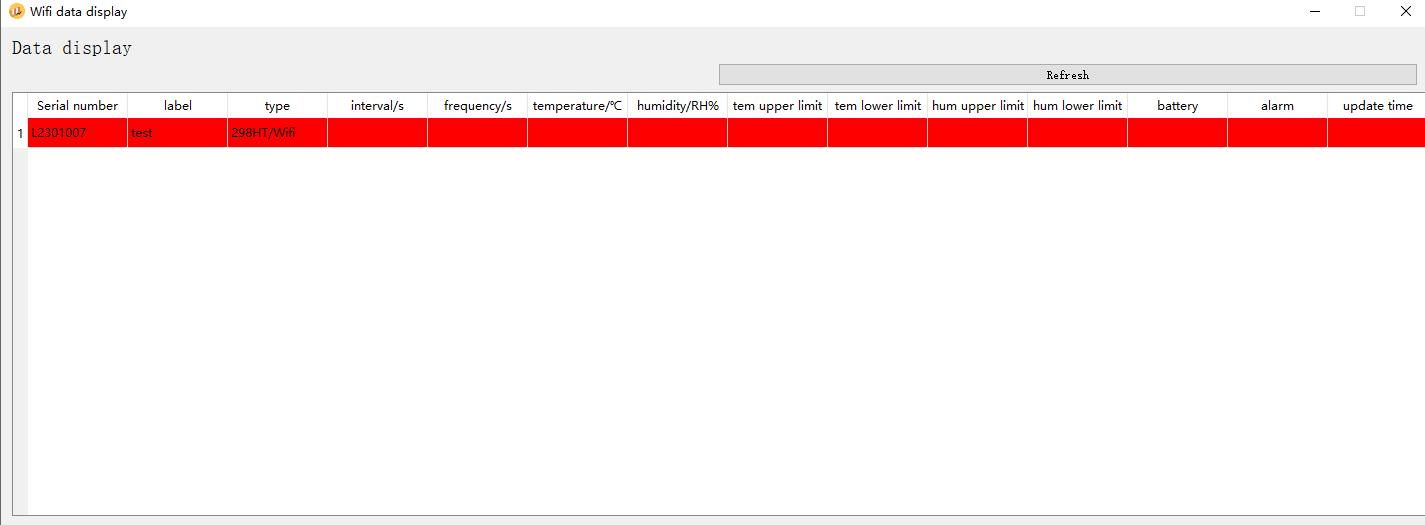
5. Export

You can specify the file location and export the file in PDF format. The data cannot be modified, which further ensures data security and reliability. Report export: When you need to export the browsed data to a report, first specify the recorder and start and end time in the data download interface, click View to browse to the specified data, and then click Add to Trend Chart - Open Trend Chart - Insert to Report (the report will lack the trend chart image if this step is not performed), then click the Export button in the data download interface, select the location to save and the file name, click OK and wait, and the pop-up prompt box for successful export indicates that the export is successful and can be viewed in the saved location.

### 2.1.4 Data Display

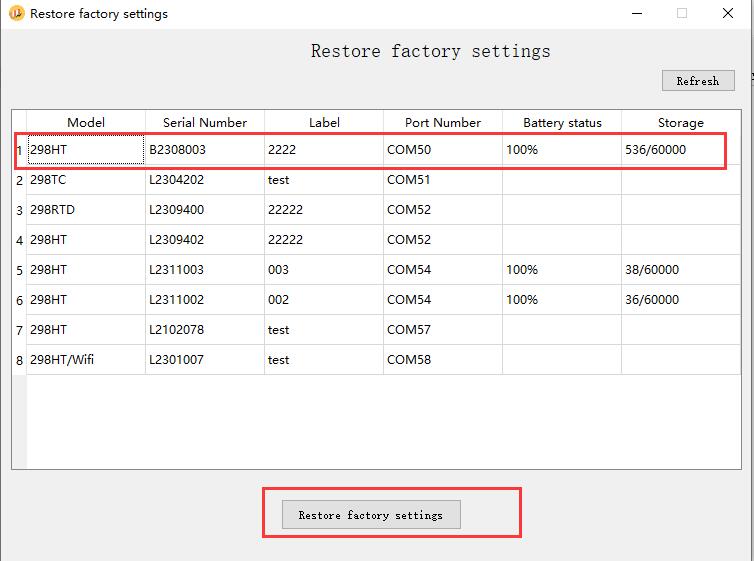
Enter 'Device Management' 🡪'Data Display', the software will automatically obtain the current status of the wifi version recorder from the server and display it , mainly including device information, temperature and humidity information, the set upper and lower limits of temperature, as well as the highest and lowest temperatures, the number of alarms exceeding the limit and other data.

This interface is only used to intuitively display the information of the connected recorder and no operation is required.



### 2.1.5 Factory Reset

Click the 'Factory Restore' button , the software will enter the factory restore interface, for the recorder to restore factory settings. Select the device to be restored in the device list bar above, and click the factory restore button to restore the currently connected recorder to factory settings (use with caution ) .



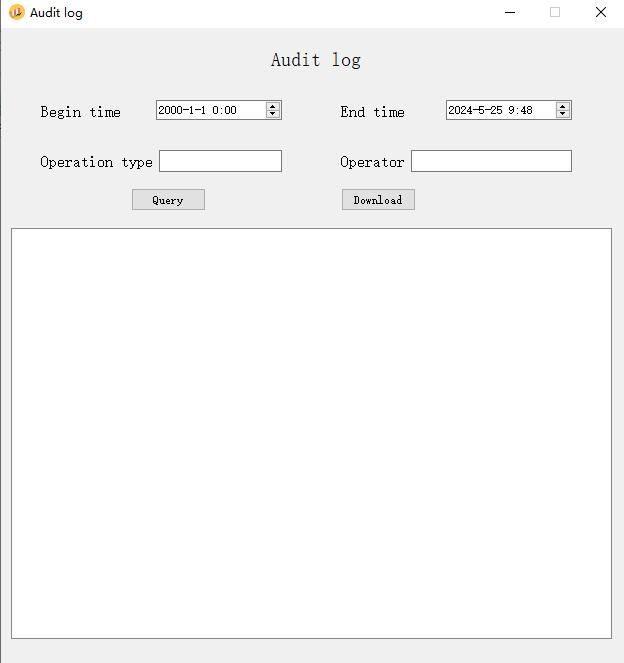
### 2.1.6 Communication Settings

This function is for WIFI recorders. First select the serial port number, enter the wifi name and password, and click OK.



### 2.1.7 Audit Log

This function records the operations performed by the user in this software and makes them available for viewing. Click the 'Audit Log' button to enter the audit log interface, select the start and end time of all logs to view, and perform precise searches based on operation types and operators (operation types include login, parameter settings, information settings, etc.). If left blank, the default search is all.



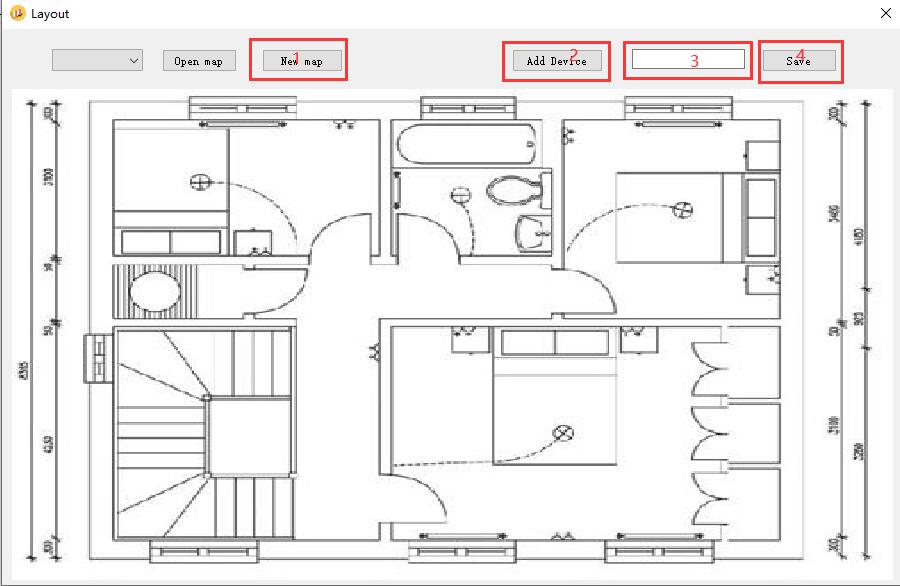
Download: You can export the log records to a specified location in PDF format.

## 2.2 Data Management

### 2.2.1 Layout diagram

Enter 'Data Management' 🡪'Layout Map' to enter the layout map interface, which intuitively displays the placement of recorders in the form of pictures.

If you need to create a new layout diagram, click the New Layout Diagram button, select the layout image, click Confirm to set the layout image as the background, enter the layout diagram project name in the pop-up text box, and click Save. If you need to add equipment, click the Add Equipment button, a mini equipment image will appear in the upper left corner of the interface, click and drag the equipment image to the appropriate position with the left mouse button, and click Save. If you need to add multiple devices, repeat the Add Equipment-Save operation. The software can only add one device by clicking Add Equipment once. New equipment can be added only after it is placed correctly and saved.



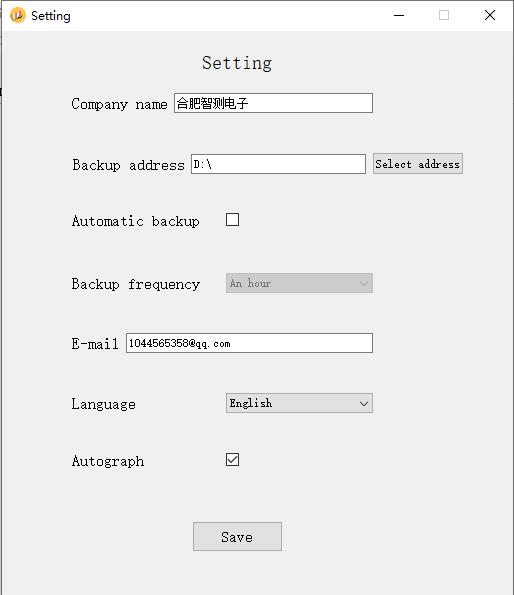
After entering the project name and saving it, you can add devices by looping 2-4.

If you need to open a saved layout diagram, select the layout diagram you want to open from the drop-down box in the upper left corner. After opening it, you can add devices by looping 2-4.

## 2.3 Information Settings

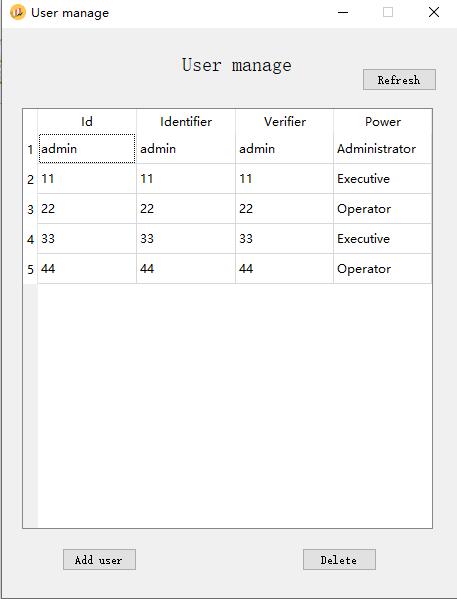
### 2.3.1 System Settings

Through 'Information Settings' - 'System Settings', you can set system parameters, including company name, automatic backup and interface Chinese and English switching. The company name will be displayed in the report data header. Automatic backup means that the system automatically backs up data according to the set path and period to prevent data loss. If you need to automatically back up data, check the automatic backup selection box, select the backup location and backup period, and the system will automatically back up data according to the settings. The interface at the bottom switches between Chinese and English (after setting, you need to restart the main interface of the software to take effect)



### 2.3.2 User Management

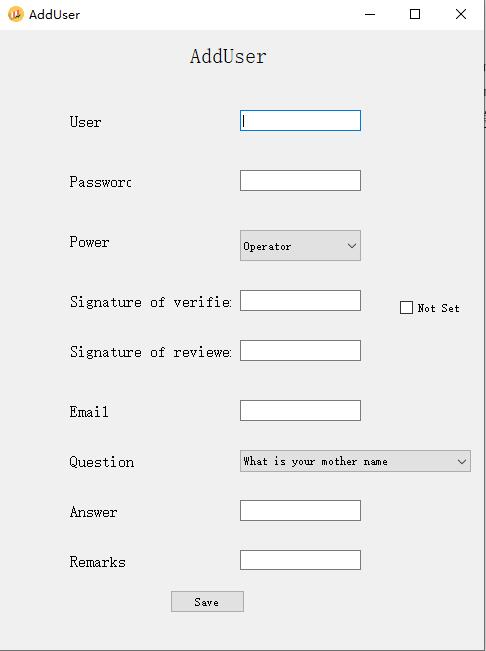
You can enter the user management interface through 'Information Settings'-'User Management', as shown in the figure



In the middle of the interface is a user list box showing all current users. Administrators can delete a user by selecting the user and clicking the Delete button, modify the user information by double-clicking the user, or click Add User to add a new user. Supervisors can modify and delete non-administrator users, while ordinary users can only modify their own user information.

Delete user: Select the user to be deleted and click the Delete button to delete it.

Add user: Click the Add User button to enter the Add User interface, as shown in the figure:



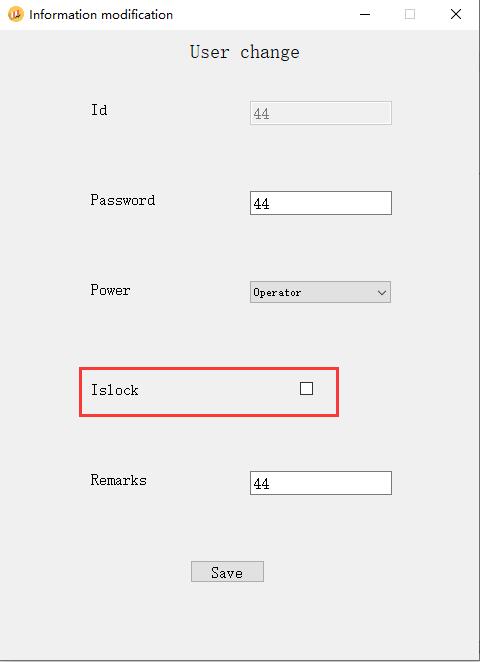
The figure shows the information required to add a user. Note:

1. Administrators can grant all permissions to users, but supervisors cannot grant administrator permissions.

2. The signature of the verifier and the signature of the reviewer will be automatically added to the report signature when the report is exported.

3. The hint question will be used when you click Retrieve Password on the login interface if you forget your password.

Modify user information: Double-click the user to modify the selected user's information. Only part of the information can be modified, not all of it. As shown in the figure



The administrator can choose to lock the user and prohibit the user from logging in.

Each user password is valid for 180 days. You can reset the password by changing the password. If the password expires, you can contact the administrator to change the password and unlock it.

## 2.4 Help

### 2.4.1 Help Documentation

Click Help Document to view the software manual.

### 2.4.2 Contact Us

If you encounter any problems during the installation and use of the software, please feel free to contact our company.

Hefei Zhice Electronics Co., Ltd.

Website: <http://www.zhice-elec.com/> & <https://www.zhicetemptech.com/>

Customer service QQ: 3241802098

Product consultation: 400-1898661 Service hotline: 0551-62550504

Email:info@zhice-elec.com

Company address: Building D7, D12, Science and Technology Industrial Park, No. 168 Xiangzhang Avenue, Hefei Hi-tech Zone