

# User Manual

## U1000 Pro

Date: March 2025

Doc Version: 1.0

English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



For further details, please visit our Company's website  
[www.zkteco.com](http://www.zkteco.com).

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If there is any issue related to the product, please contact us.

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## About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

## About the Manual

This manual introduces the operations of U1000 Pro product.

All figures displayed are for illustration purposes only. Figures in this manual may not be exactly consistent with the actual products.

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# 1 Overview

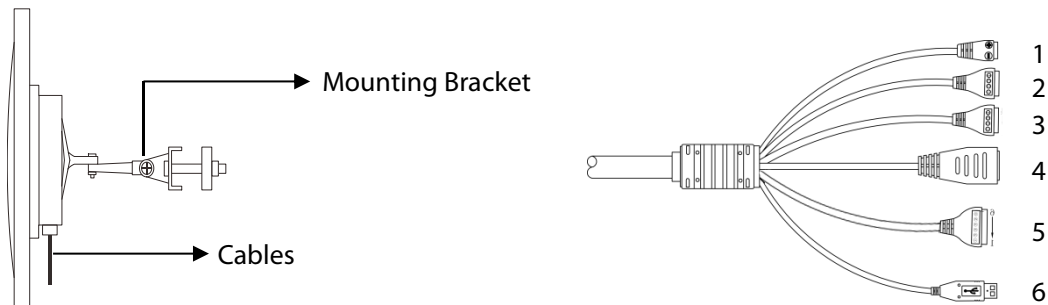
U1000 Pro is the latest third-generation UHF reader, featuring enhanced stability, an extended reading range, and quicker recognition. It utilizes a passive UHF card, making it suitable for vehicle and personnel management. It conforms to CE and FCC standards, awaiting further security certifications.



## Features

- U1000 Pro: UHF standalone reader terminal
- U1000F Pro is suitable for FCC: 902MHz-926MHz
- U1000E Pro is suitable for: 865MHz-868MHz
- Long reading distance
- Compatible with the Armatura One Security Platform & ZKBio CVSecurity
- Access control function
- IP66 protection level

## 2 Side View & Wiring



| No.          | PIN  | Description             |
|--------------|------|-------------------------|
| 1            | +12V | Power In                |
|              | GND  |                         |
| 2<br>(Green) | +12V | Power Out               |
|              | GND  |                         |
|              | IWD0 | Wiegand In              |
|              | IWD1 |                         |
| 3<br>(Black) | SEN  | Sensor, Button, Trigger |
|              | BUT  |                         |
|              | GND  |                         |
|              | TRIG |                         |
| 4            |      | Ethernet                |
| 5            | NO1  | Lock                    |
|              | COM1 |                         |
|              | NC1  |                         |
|              | NO2  | Lock                    |
|              | COM2 |                         |
|              | NC2  |                         |
| 6            |      | USB                     |

### 3 Specifications

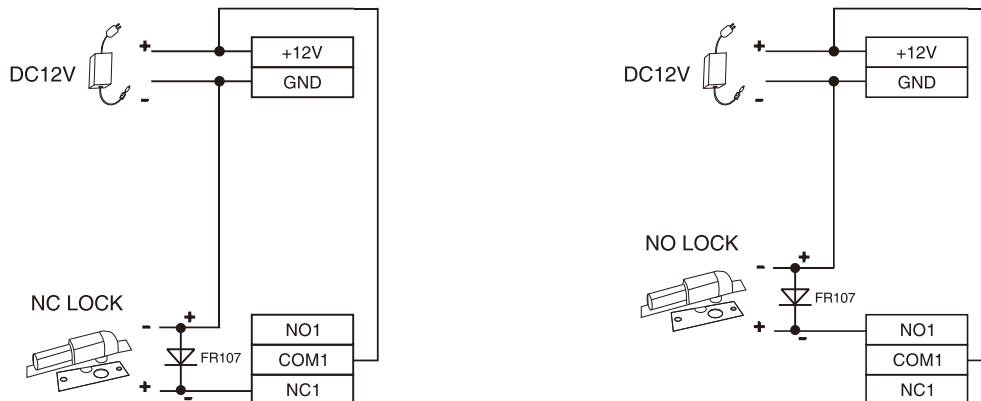
| Menu                       | Description                                                                 |
|----------------------------|-----------------------------------------------------------------------------|
| <b>General Information</b> |                                                                             |
| Card Capacity              | 100000 cards                                                                |
| Log Capacity               | 10,000 Transactions                                                         |
| Hardware Platform          | ZMM220                                                                      |
| Working Frequency          | F Series: 902MHz~926MHz<br>E Series: 865MHz~868MHz                          |
| Reading Distance           | 0-9m (Stable is 0-5m)                                                       |
| Communication              | TCP/IP                                                                      |
| Access Control Interface   | Wiegand in, RS485, 3rd Party Electric Lock, Door Sensor, Exit Button, Alarm |
| Access Control Functions   | Standard Access Functions, Anti-passback                                    |
| Antenna Gain               | 9dBi                                                                        |
| Output Power               | 10dBm-30dBm                                                                 |
| Maximum Power Consumption  | <2W                                                                         |
| Protection Level           | IP66                                                                        |
| Support Software           | ARMATURA ONE, ZKBio CVSecurity                                              |
| Working Voltage            | DC 9V - 12V                                                                 |
| Working Current            | 150mA (Always Reading)                                                      |
| Working Temperature        | -20℃ ~ +60℃                                                                 |
| Working Humidity           | <95% (25℃)                                                                  |
| Dimension                  | 309mm (±1.5)×309mm(±1.5)× 69.5mm(±1.0)                                      |

## 4 Device Connection

### 4.1 Lock Connection

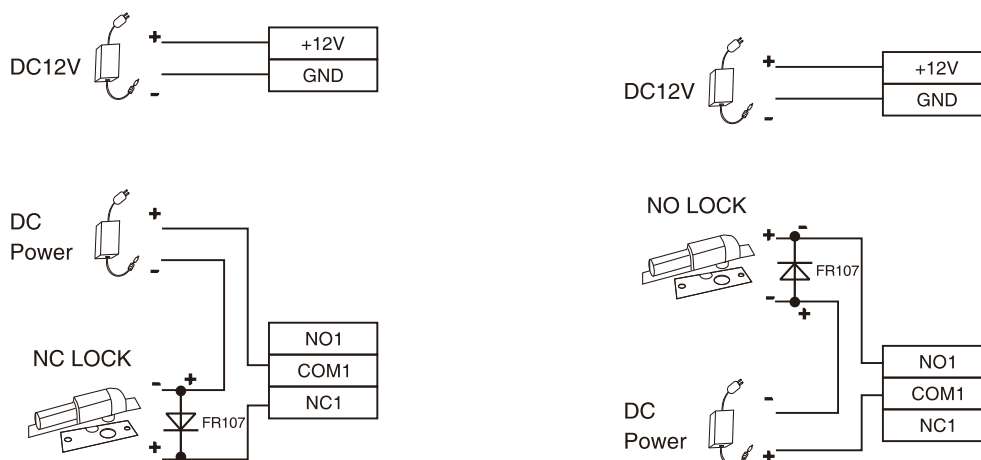
#### Shares Power with the Lock:

$U_{LOCK}=12V$ ,  $I \geq I_{Device} + I_{Lock}$  (The maximum operating current of the device is 100mA, and the rated current is 60mA); and the lock is near to the device.



#### Does not Share Power with the Lock:

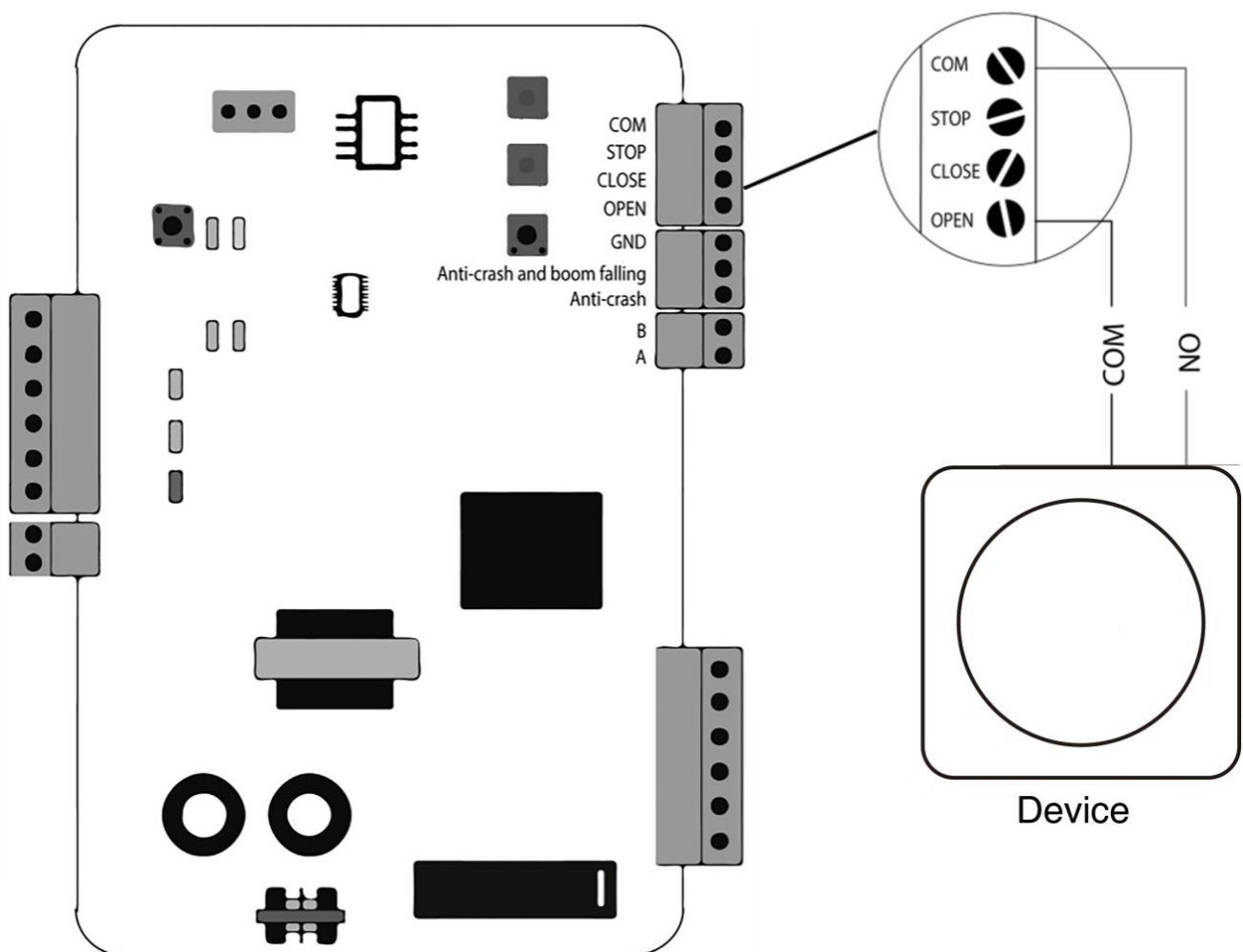
1. When  $U_{LOCK}=12V$ ,  $I < I_{Device} + I_{Lock}$  (The maximum operating current of device is 100mA, and the rated current is 60mA);
2. When  $U_{LOCK} \neq 12V$ ;
3. When the lock is far from the device.



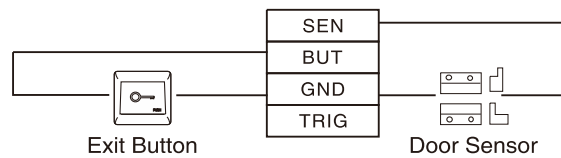
**Note:**

- The system supports NO LOCK and NC LOCK. The NO LOCK (normally open by power on) is connected to the NO terminal, and the NC LOCK is connected to the NC terminal.
- To prevent the generation of self-inductance EMF which would affect the system, when the electrical lock is linked to the Access Control System, it is required to connect one FR107 diode (equipped in the package, do not reverse the polarities) in parallel to release the self-inductance EMF.

## 4.2 Barrier Connection



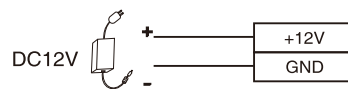
### 4.3 Connected with Other Parts



### 4.4 Connected with Power

Input DC12V,  $\leq 110\text{mA}$  ( $\leq 80\text{mA}$  standby)

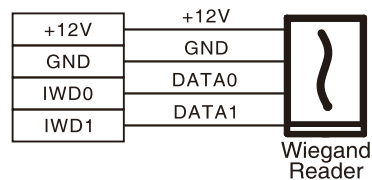
Positive is connected with +12V, and negative is connected with GND (do not reverse the polarities).



### 4.5 Wiegand Input

#### Wiegand Input

The device features Wiegand signal input capability, allowing it to connect with an independent card reader. When installed on each side of the door, they work together to control access and the lock.

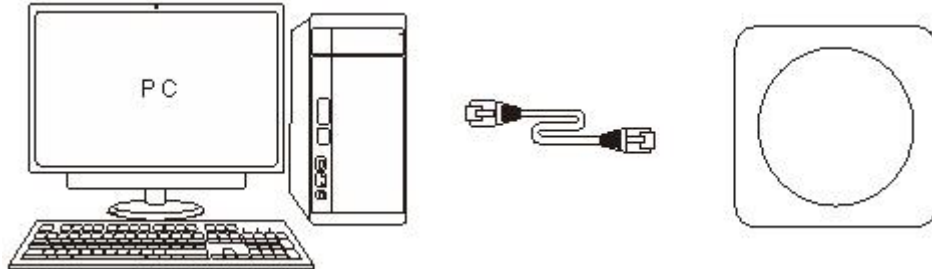


#### **Note:**

- Please keep the distance between the device and the Access Control or Card Reader less than 90 meters (Please use a Wiegand signal extender in a long distance or interference environment).
- To keep the stability of the Wiegand signal, connect the device and the Access Control or Card Reader in the same 'GND' in any case.

## 4.6 Connected with Computer

Connect the RJ45 port of the device to the computer's Ethernet port. The device is compatible with the Armatura One Security Platform & ZKBio CVSecurity.

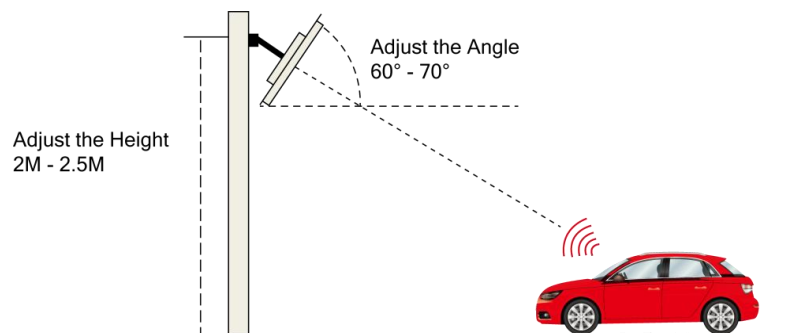


## 5 Installation Procedure

### 5.1 Install the Reader

The device uses the Hang Mounting method for installation. Please refer to the following chart for installation instructions. Mount the device on the bracket and adjust the angle according to the desired swing card effect.

#### Method A:

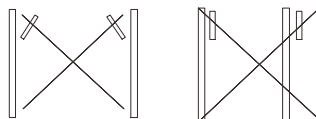


#### Method B:



#### **Note:**

- ⚠️ Avoid installing the integrated machine facing another.



- ⚠️ The detection distance of the integrated machine may vary depending on weather conditions such as rain, snow, or wind.



- ⚠️ The device should be away from strong magnetic field when working.

## 5.2 Install the UHF Card

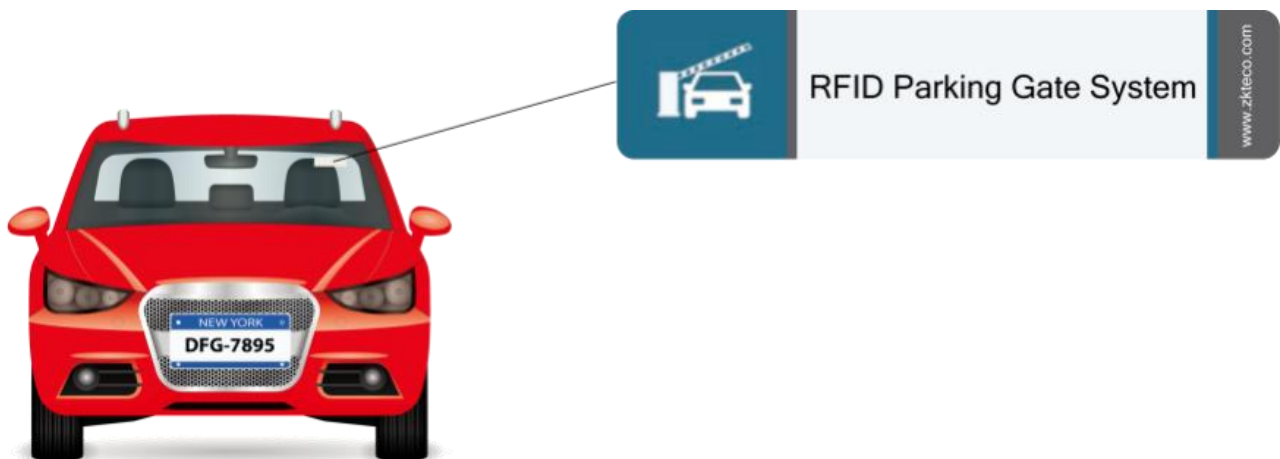
### UHF1-Tag9

UHF1-Tag9 is generally used in long distance access control management and long distance pedestrian crossing control management.

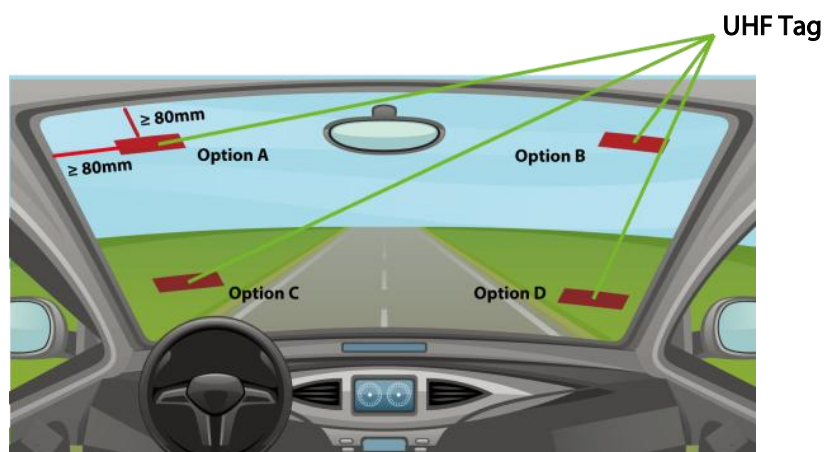


### UHF MiniTag

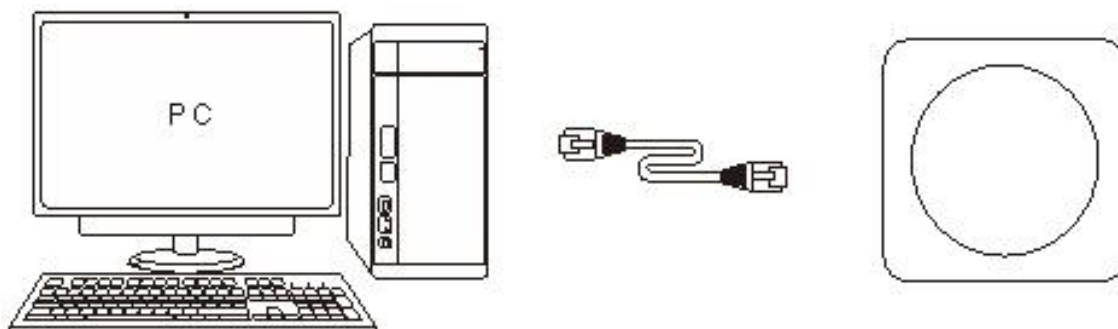
UHF-Mini Tag is also generally used in long distance fixed vehicle access management. It is pasted on the interior windshield of the car.



The distance between the UHF tag and the metal frame shall be 80 mm at least. The position of the tag/card in the vehicle is as follows:

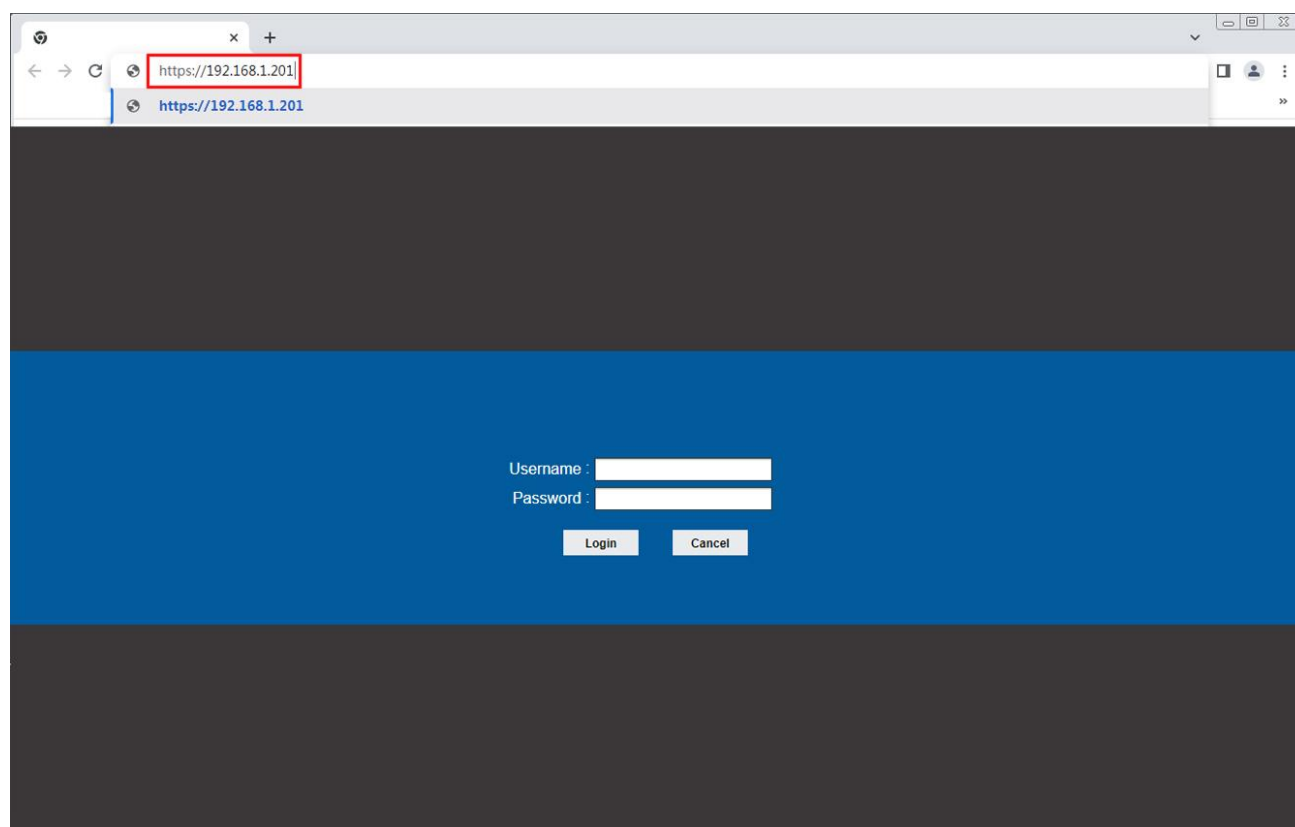


## 6 Software Configuration



### 6.1 Login

Enter the IP Address (default: 192.168.1.201) of the device in the address bar of a web browser. The address format should be **https://IP Address**. For example: <https://192.168.1.201>. Then enter the Username (default: admin) and password (default: 123456), as displayed in the below figure.



## 6.2 Live

After successful login, you will be directed to the **live** page. On the page, the left side displays real-time card information whenever the reader reads the card, and the right side displays basic information about the device.

| Live       |                     |                                 |              |     |               |             | admin   Logout                              |  |
|------------|---------------------|---------------------------------|--------------|-----|---------------|-------------|---------------------------------------------|--|
| Live Event |                     |                                 |              |     |               |             | Device Information                          |  |
| ID         | Time                | Event                           | CardNo       | PIN | Event Address | Verify Type |                                             |  |
| 245687     | 2024-04-17 10:18:14 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   | Device Name: U1000 Pro                      |  |
| 245686     | 2024-04-17 10:18:12 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   | Firmware Ver: AC Ver 4.7.8 3033 Apr 11 2024 |  |
| 245685     | 2024-04-17 10:18:10 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   | Online Status: Offline                      |  |
| 245684     | 2024-04-17 10:18:08 | Verification Success            | 11d9f (HEX)  | 11  | 1             | Only Card   |                                             |  |
| 245683     | 2024-04-17 10:18:05 | The swipe interval is too short | (HEX)        | 0   | 1             | Other       |                                             |  |
| 245682     | 2024-04-17 10:18:04 | Verification Success            | 11d9f (HEX)  | 11  | 1             | Only Card   |                                             |  |
| 245681     | 2024-04-17 10:18:02 | Verification Success            | 11d9f (HEX)  | 11  | 1             | Only Card   |                                             |  |
| 245680     | 2024-04-17 10:17:58 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245679     | 2024-04-17 10:17:56 | Verification failed             | 2b32ca (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245678     | 2024-04-17 10:17:54 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245677     | 2024-04-17 10:17:52 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245676     | 2024-04-17 10:17:50 | The swipe interval is too short | (HEX)        | 0   | 1             | Other       |                                             |  |
| 245674     | 2024-04-17 10:17:48 | The swipe interval is too short | (HEX)        | 0   | 1             | Other       |                                             |  |
| 245673     | 2024-04-17 10:17:47 | Verification Success            | 11d9f (HEX)  | 11  | 1             | Only Card   |                                             |  |
| 245672     | 2024-04-17 10:17:43 | Verification Success            | 11d9f (HEX)  | 11  | 1             | Only Card   |                                             |  |
| 245671     | 2024-04-17 10:17:39 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245670     | 2024-04-17 10:17:37 | Verification failed             | 2b32ca (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245669     | 2024-04-17 10:17:35 | Verification Success            | 11d9f (HEX)  | 11  | 1             | Only Card   |                                             |  |
| 245668     | 2024-04-17 10:17:33 | Verification failed             | 2b32ca (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245667     | 2024-04-17 10:17:31 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245666     | 2024-04-17 10:17:27 | Verification failed             | 2b43a6 (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245665     | 2024-04-17 10:17:25 | Verification Success            | 11d9f (HEX)  | 11  | 1             | Only Card   |                                             |  |
| 245664     | 2024-04-17 10:17:22 | The swipe interval is too short | (HEX)        | 0   | 1             | Other       |                                             |  |
| 245663     | 2024-04-17 10:17:21 | Verification Success            | 11d9f (HEX)  | 11  | 1             | Only Card   |                                             |  |
| 245662     | 2024-04-17 10:17:19 | Verification failed             | 2b32ca (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245661     | 2024-04-17 10:17:17 | Verification failed             | 2b32ca (HEX) | 0   | 1             | Only Card   |                                             |  |
| 245660     | 2024-04-17 10:17:15 | The swipe interval is too short | (HEX)        | 0   | 1             | Other       |                                             |  |

## 6.3 Setup

Click **[Setup]** in the navigation bar at the top of the page to enter the setup page. In this page, you can view or modify the functions and parameters of the device information, including Device Information, Time Settings, Data Management, Comm Configuration, Network Settings, User Management, Firmware Upgrade, Restore, Password Settings, UHF Reader Settings and Developer.

| Live                |  | Setup                      | Log | admin   Logout |  |  |  |
|---------------------|--|----------------------------|-----|----------------|--|--|--|
| Device Information  |  | Network Settings           |     |                |  |  |  |
| Time Settings       |  | IPv4                       |     |                |  |  |  |
| Data Management     |  | IP Address: 192.168.130.66 |     |                |  |  |  |
| Comm Configuration  |  | Subnet Mask: 255.255.255.0 |     |                |  |  |  |
| Network Settings    |  | Gateway: 192.168.130.1     |     |                |  |  |  |
| User Management     |  | DNS 1: 0.0.0.0             |     |                |  |  |  |
| Firmware Upgrade    |  | DNS 2:                     |     |                |  |  |  |
| Restore             |  | MAC: 00:17:61:03:C4:0B     |     |                |  |  |  |
| Password Settings   |  | Save                       |     |                |  |  |  |
| UHF Reader Settings |  |                            |     |                |  |  |  |
| Door Settings       |  |                            |     |                |  |  |  |
| IO Control          |  |                            |     |                |  |  |  |
| Developer           |  |                            |     |                |  |  |  |

### 6.3.1 Device Information

Click **[Device Information]** on the Setup.

The screenshot shows the 'Setup' page of the U1000 Pro device. The left sidebar contains a list of settings: Device Information (selected), Time Settings, Data Management, Comm Configuration, Network Settings, User Management, Firmware Upgrade, Restore, Password Settings, UHF Reader Settings, Door Settings, IO Control, and Developer. The main content area is titled 'Device Information' and is divided into three sections:

- Version Information:** Contains fields for Serial Number (RHH1240900021), Firmware Ver (AC Ver 4.7.8.3033 Apr 11 2024), and MCU Ver (V4.1.6.0).
- Device Information:** Contains fields for Device Name (U1000 Pro), Device Type (ACC), System Version (3.0.8.20211124), and Card Format (radio buttons for Decimal and Hexadecimal, with Hexadecimal selected). A 'Save' button is present.
- Capacity Information:** Contains fields for Maximum user count (100000), Maximum log count (100000), and Remaining capacity (99998).

#### Version Information

- 🔧 **Version Information:** Displays the basic parameters of the device, including serial number, firmware version, and MCU version.

#### Device Information

- 🔧 **Device Information:** Displays the device name, device type, and system version, and sets the card format.
- 🔧 Click **[Save]** after setting the parameters.

#### Capacity Information

- 🔧 Displays the maximum user count, remaining capacity, and maximum log count of the current device.

### 6.3.2 Time Settings

The Time Settings is used to set the system date and time. The user can choose to synchronize with the local system, or set the time manually. After setting the time as needed, [Save] users can click **[Save]** to apply the changes.

Click **[Time Settings]** on the Setup.

The screenshot shows the 'Time Settings' page. At the top, there are three tabs: 'Live', 'Setup' (selected), and 'Log'. On the right, there is a user profile icon labeled 'admin' and a 'Logout' button. On the left, a sidebar menu lists various settings: Device Information, Time Settings (selected), Data Management, Comm Configuration, Network Settings, User Management, Firmware Upgrade, Restore, Password Settings, UHF Reader Settings, and Door Settings. The main content area is titled 'Time and time zone settings'. It contains two input fields: 'Device Time' with the value '2024-04-17 10:53:11' and 'PC Time' with the value '2024-04-17 10:53:15'. Between these fields are two buttons: 'Timing' and 'Sync PC Time'. Below the 'PC Time' field is a 'Save' button.

- 🔧 **Set the time manually:** Enter the date and time manually and click **[Timing]** to save the changes.
- 🔧 **Synchronize with Local System:** Click **[Sync PC Time]**, and the time will be consistent with the local computer.
- 🔧 Click **[Save]** after setting the parameters.

### 6.3.3 Data Management

This option is used for the management of specific data such as allowlist. The user can import, export, and clear the data as needed to meet their requirements.

Click **[Data Management]** on the Setup.

The screenshot shows the 'Data Management' page. At the top, there are three tabs: 'Live', 'Setup' (selected), and 'Log'. On the right, there is a user profile icon labeled 'admin' and a 'Logout' button. On the left, a sidebar menu lists various settings: Device Information, Time Settings, Data Management (selected), Comm Configuration, Network Settings, User Management, Firmware Upgrade, Restore, Password Settings, UHF Reader Settings, and Door Settings. The main content area is titled 'User Data'. It contains a 'Data Type' dropdown menu set to 'Allowlist'. Below it is a 'File Path' section with a 'Browse' button and the text 'No file selected'. At the bottom, there are three buttons: 'Import Data', 'Export Data', and 'Clear Data'.

### 6.3.4 Comm Configuration

Push protocol allows to communicate with various software platforms. To use this feature, set the corresponding parameters here.

**Note:** Parameters in the POMS Configuration need to be set only when communicating with the Parking Operation and Maintenance System.

Click **[Comm Configuration]** on the Setup.

The screenshot shows the 'Comm Configuration' page. At the top, there are tabs for 'Live', 'Setup', and 'Log'. The 'Setup' tab is active. On the left, a sidebar lists various configuration options: Device Information, Time Settings, Data Management, Comm Configuration (highlighted), Network Settings, User Management, Firmware Upgrade, Restore, Password Settings, and UHF Reader Settings. The main content area is titled 'Push Configuration' and contains a 'Push Enable' checkbox (currently unchecked), a 'Server Address' text input field, and a 'Save' button. An example URL is provided: 'For Example: <http://192.168.160.136:8080/iclock/>'.

- 🔧 **Push Enable:** Select the check box to enable this feature.
- 🔧 **Server Address:** Enter the server address of the push configuration.
- 🔧 Click **[Save]** after setting the parameters.

### 6.3.5 Network Settings

Here, the user can view or set the device network parameters.

Click **[Network Settings]** on the Setup.

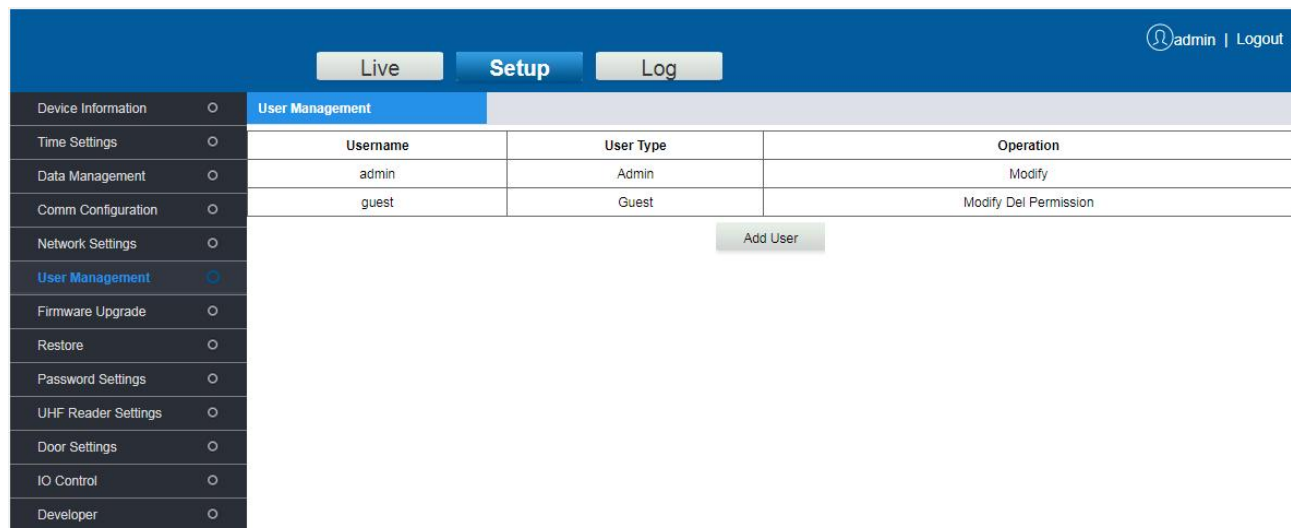
The screenshot shows the 'Network Settings' page. At the top, there are tabs for 'Live', 'Setup', and 'Log'. The 'Setup' tab is active. On the left, a sidebar lists various configuration options: Device Information, Time Settings, Data Management, Comm Configuration, Network Settings (highlighted), User Management, Firmware Upgrade, Restore, Password Settings, UHF Reader Settings, Door Settings, IO Control, and Developer. The main content area is titled 'IPv4' and contains several input fields: IP Address (192.168.130.66), Subnet Mask (255.255.255.0), Gateway (192.168.130.1), DNS 1 (0.0.0.0), DNS 2 (empty), and MAC (00:17:61:03:C4:0B). On the right, there are fields for HTTP Port (80) and TCP Port (14370). A 'Save' button is located at the bottom right of the configuration area.

- 🔧 **LAN:** Set the related parameters of the Local Area Network, including IP Address, Subnet Mask, Gateway, DNS, and MAC according to the actual situation.
- 🔧 **HTTP Port:** Enter the corresponding port (the default port number is 80).
- 🔧 **TCP Port:** Enter the corresponding port (the default port number is 14370).
- 🔧 Click **[Save]** after setting the parameters.

### 6.3.6 User Management

Modification preferences differ based on user roles, Administrators can modify the modification passwords and user types of all users. They can also add new users, delete users, and set user rights. Normal users can only modify their passwords and user types.

Click **[User Management]** on the Setup.



- Modify:** Modify the user password and user type.
- Del:** The administrator can delete all users in the user list.
- Permission:** Administrators can set permissions for normal users
- Add User:** Administrators can add new users.

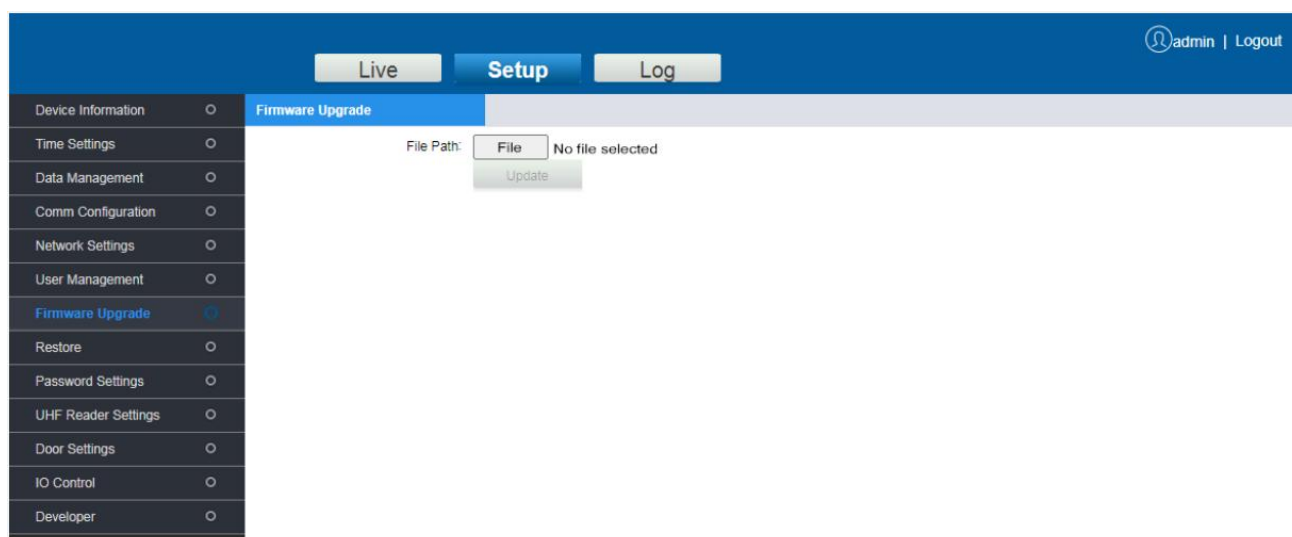
**Note:**

- a) Username, Password may consist of a to z, 0 to 9, underscores, and a single dot (.), 1 to 15 characters. Password is case-sensitive.
- b) When the username or password is modified, it is required to log in again to update the change.

### 6.3.7 Firmware Upgrade

To upgrade the device firmware, click **[Browse]** and select the firmware upgrade file in the format of .tgz, and click **[Update]**. After upgrading the firmware, restart the device.

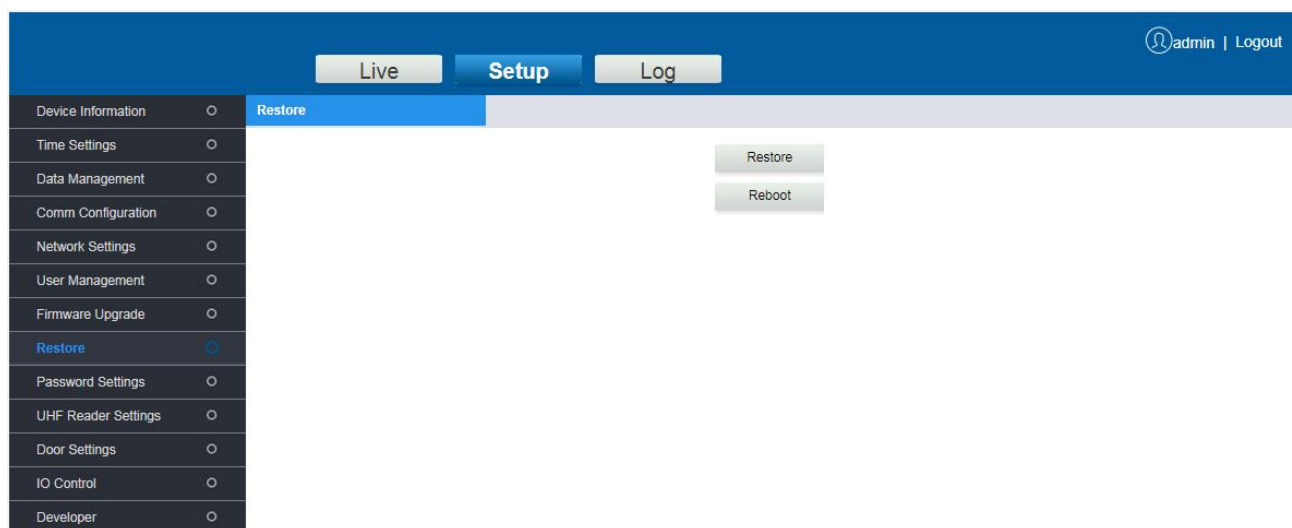
Click **[Firmware Upgrade]** on the Setup.



**Note:** Contact the corresponding technician for an upgrade package or remote upgrade support.

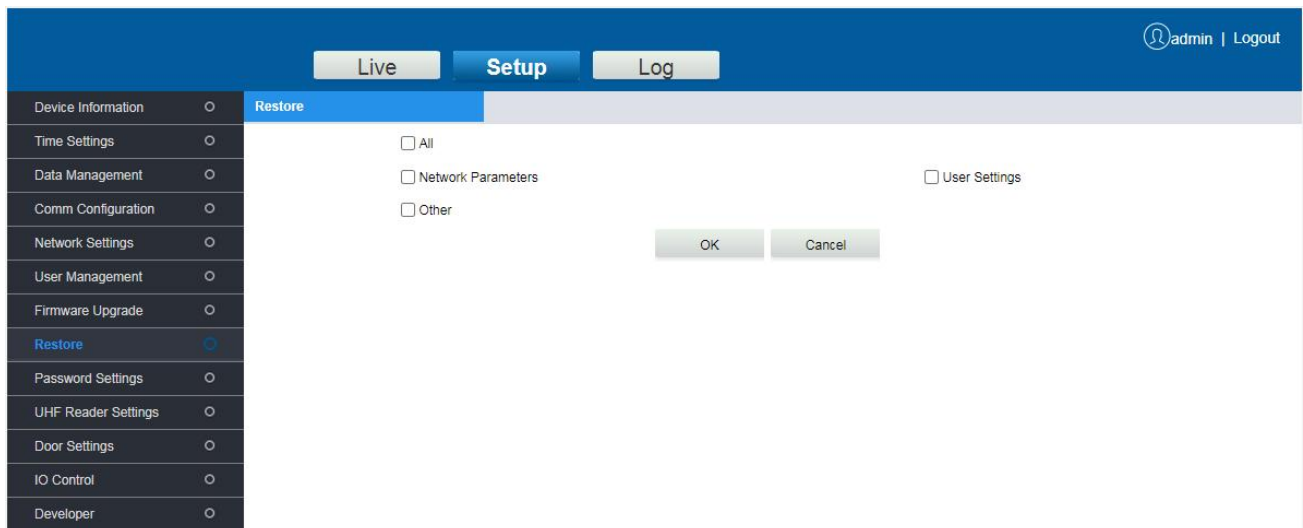
### 6.3.8 Restore

Click **[Restore]** on the Setup.



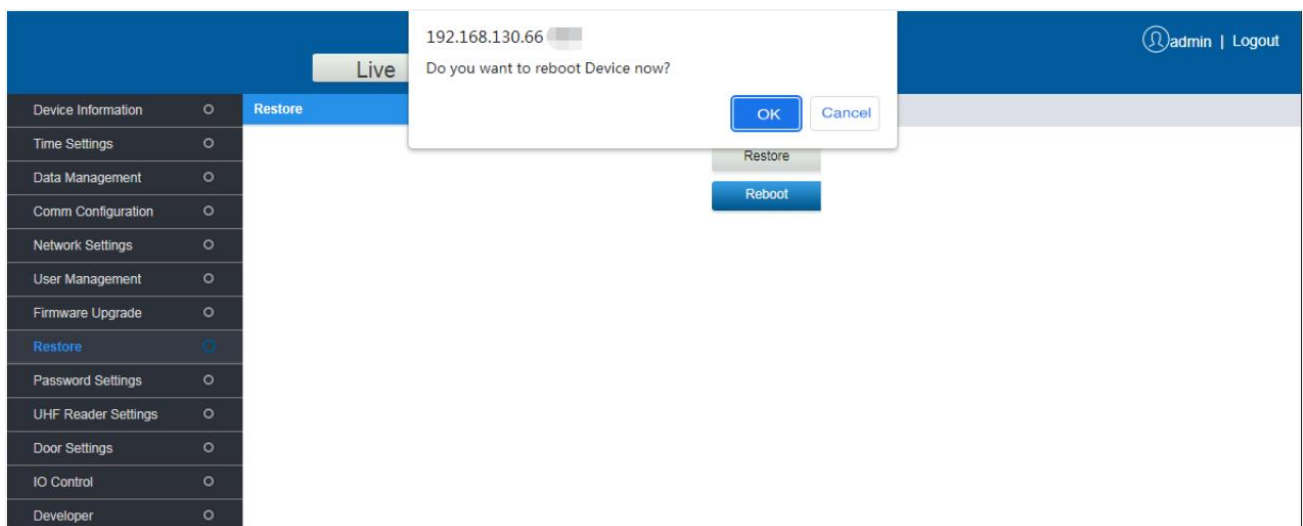
#### Restore

Restores the device parameter settings. With this function, all the settings of the device can be restored to factory default values. Click **[Restore]**, select the parameters to be restored, and click **[OK]**.



## Reboot

It restarts the system.



### 6.3.9 Password Settings

For security reasons, you can set passwords for Communication and Data on the device.

Click **[Password Settings]** on the Setup.

The screenshot shows the 'Password Settings' page within the 'Setup' menu. The left sidebar lists various settings, with 'Password Settings' highlighted. The main content area is divided into two sections: 'Communication Password' and 'Data Encryption'. Each section contains three input fields: 'Original Pwd:', 'Password:', and 'Confirm Pwd:', each with a red error message 'Enter a string of 3-6 characters!' (for Communication) or 'Enter a string of 8 characters!' (for Data Encryption). A 'Save' button is located below each section. The top navigation bar includes 'Live', 'Setup', and 'Log' buttons, and a user profile 'admin' with a 'Logout' link.

### 6.3.10 UHF Reader Settings

Click **[UHF Reader Settings]** on the Setup.

The screenshot shows the 'UHF Reader Settings' page within the 'Setup' menu. The left sidebar lists various settings, with 'UHF Reader Settings' highlighted. The main content area is titled 'Reader Settings' and contains various configuration options. On the left, there are dropdown menus for 'Version' (UR510S\_20240202\_V1.04), 'Power' (30 dBm), 'Wiegand Output Interval [2-10]' (2 \* 100ms), 'Poll Interval [0-25]' (0 s), 'Output Mode' (Read Always), 'Card Output Order' (Forward Output), 'LED' (On), and 'Reader Output Way' (Wiegand Mode). On the right, there are dropdown menus for 'Serial No.', 'Freq' (865000 KHz), 'Output Bit Count' (WG26), 'Beep' (On), 'Trigger Interval [1-255]' (1 s), 'Start Byte' (9), 'Standby Status' (Red), and 'Transmission Mode' (Ordinary Mode). A 'Save' button is at the bottom left, and a 'Factory Default' button is at the bottom right. The top navigation bar includes 'Live', 'Setup', and 'Log' buttons, and a user profile 'admin' with a 'Logout' link.

- Version:** Displays the version number of the device.
- Serial No:** Displays the serial number of the device.
- Power:** Set the power of the device, valid values of 7 to 30.
- Freq:** Set the frequency values, valid values of 865000 to 868000.
- Wiegand Output Interval [2-10]:** Sets the interval time between Wiegand output, valid values are 2 to 10.
- Output Bit Count:** Select the Wiegand output bit count for the device. The default Wiegand format is WG26, and it can be set as WG34, WG42, WG50, WG58, WG66, WG74, WG82, WG90, WG98.
- Poll Interval [0-25]:** Sets the poll interval time for the device, valid values of 0 to 25.

- 🔊 **Beep:** Enable/disable the sound when device reading the card.
- 🔊 **Output Mode:** Set the Wiegand output mode, either read always or read by trigger.
- 🔊 **Trigger Interval [1-255]:** Sets the trigger interval time for the device, valid values of 1 to 255.
- 🔊 **Card Output Order:** Sets the card output order of the device, either forward output or inverted output.
- 🔊 **Start Byte:** Sets the start byte when the device reads the card, valid values of 0 to 9.
- 🔊 **LED:** Enable/disable the LED of the device.
- 🔊 **Standby Status:** Sets the color of the LED when the device is in standby.
- 🔊 **Reader Output Way:** Displays the reader output way for the device.
- 🔊 **Transmission Mode:** Displays the transmission mode for the device.
- 🔊 Click **[Save]** after setting the parameters.
- 🔊 Click **[Factory Default]** to restore the device to factory parameters.

### 6.3.11 Developer

Click **[Developer]** on the Setup.

#### Telnet Settings

Whether to enable telnet function.

## Network Diagnosis

Tests whether you can ping the server.

The screenshot displays the U1000 Pro web interface. At the top, there is a blue header bar with 'Live', 'Setup', and 'Log' buttons. The 'Setup' button is highlighted. In the top right corner, there is a user profile icon labeled 'admin' and a 'Logout' link. On the left side, there is a dark sidebar with a list of navigation options: Device Information, Time Settings, Data Management, Comm Configuration, Network Settings, User Management, Firmware Upgrade, Restore, Password Settings, UHF Reader Settings, Door Settings, IO Control, and Developer. The 'Developer' option is currently selected. The main content area is divided into two sections: 'Telnet Settings' and 'Network Diagnosis'. The 'Network Diagnosis' section is expanded, showing a 'Ping' input field with the text 'www.baidu.com' and a blue 'Confirm' button. Below the input field, the 'Result' field displays the text 'ping: bad address 'www.baidu.com''. At the bottom of the main content area, there is a green banner with a white checkmark and the text 'Success'.

## 6.4 Log

Click **[Log]** in the navigation bar at the top of the page to enter the log page, the log is used to search the recording history. The user can filter the search list with options such as search type, start time, end time, and the number of log results per page. After selecting the criteria, click **[Search]** to related logs.

| <div> <div>admin   Logout</div> <div> <div>Live</div> <div>Setup</div> <div>Log</div> </div> </div> |       |                     |            |           |                                        |    |               |
|-----------------------------------------------------------------------------------------------------|-------|---------------------|------------|-----------|----------------------------------------|----|---------------|
| Log Search                                                                                          | Index | Log Time            | Operator   | Main Type | Log Theme                              | Ch | User Address  |
| Main Type: All                                                                                      | 1     | 2024-04-17 16:15:20 | admin      | Operation | Remote Login                           | 1  | 192.168.130.1 |
| Start Time: 2024-04-17                                                                              | 2     | 2024-04-17 15:08:45 | admin      | Operation | Delete user successful                 | 1  | 192.168.130.1 |
| End Time: 2024-04-17                                                                                | 3     | 2024-04-17 15:05:22 | admin      | Operation | Remote Login                           | 1  | 192.168.130.1 |
| Page No: 30                                                                                         | 4     | 2024-04-17 15:01:06 | admin      | Setup     | Successfully set UHF reader parameters | 1  | 192.168.130.1 |
| Search                                                                                              | 5     | 2024-04-17 15:00:19 | admin      | Operation | Successfully restore UHF reader        | 1  | 192.168.130.1 |
|                                                                                                     | 6     | 2024-04-17 14:58:29 | admin      | Operation | Device start                           | 1  |               |
|                                                                                                     | 7     | 2024-04-17 14:57:37 | admin      | Operation | Remote Reboot                          | 1  | 192.168.130.1 |
|                                                                                                     | 8     | 2024-04-17 14:57:14 | admin      | Setup     | Successfully set UHF reader parameters | 1  | 192.168.130.1 |
|                                                                                                     | 9     | 2024-04-17 14:56:56 | admin      | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 10    | 2024-04-17 14:56:30 | admin      | Setup     | Failed set UHF reader parameters!      | 1  | 192.168.130.1 |
|                                                                                                     | 11    | 2024-04-17 14:56:28 | admin      | Setup     | Failed set UHF reader parameters!      | 1  | 192.168.130.1 |
|                                                                                                     | 12    | 2024-04-17 14:00:47 | admin      | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 13    | 2024-04-17 14:00:39 | yangkaijin | Operation | Remote Logout                          | 1  | 192.168.130.1 |
|                                                                                                     | 14    | 2024-04-17 14:00:18 | yangkaijin | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 15    | 2024-04-17 14:00:03 | admin      | Operation | Remote Logout                          | 1  | 192.168.130.1 |
|                                                                                                     | 16    | 2024-04-17 13:43:11 | admin      | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 17    | 2024-04-17 13:43:04 | yangkaijin | Operation | Remote Logout                          | 1  | 192.168.130.1 |
|                                                                                                     | 18    | 2024-04-17 13:42:36 | yangkaijin | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 19    | 2024-04-17 13:42:25 | yangkaijin | Operation | Remote Logout                          | 1  | 192.168.130.1 |
|                                                                                                     | 20    | 2024-04-17 13:42:25 | yangkaijin | Operation | Modify user successful                 | 1  | 192.168.130.1 |
|                                                                                                     | 21    | 2024-04-17 13:41:19 | yangkaijin | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 22    | 2024-04-17 13:41:07 | admin      | Operation | Remote Logout                          | 1  | 192.168.130.1 |
|                                                                                                     | 23    | 2024-04-17 13:37:40 | admin      | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 24    | 2024-04-17 13:37:31 | yangkaijin | Operation | Remote Logout                          | 1  | 192.168.130.1 |
|                                                                                                     | 25    | 2024-04-17 13:37:15 | yangkaijin | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 26    | 2024-04-17 13:36:58 | admin      | Operation | Remote Logout                          | 1  | 192.168.130.1 |
|                                                                                                     | 27    | 2024-04-17 13:36:54 | admin      | Operation | Modify user successful                 | 1  | 192.168.130.1 |
|                                                                                                     | 28    | 2024-04-17 11:56:26 | admin      | Operation | Remote Login                           | 1  | 192.168.130.1 |
|                                                                                                     | 29    | 2024-04-17 11:56:20 | yangkaijin | Operation | Remote Logout                          | 1  | 192.168.130.1 |
|                                                                                                     | 30    | 2024-04-17 11:55:18 | yangkaijin | Operation | Remote Login                           | 1  | 192.168.130.1 |
| Total: 42 Records Current: 1 Page Page Down End Page Skip To 1 Page                                 |       |                     |            |           |                                        |    |               |

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