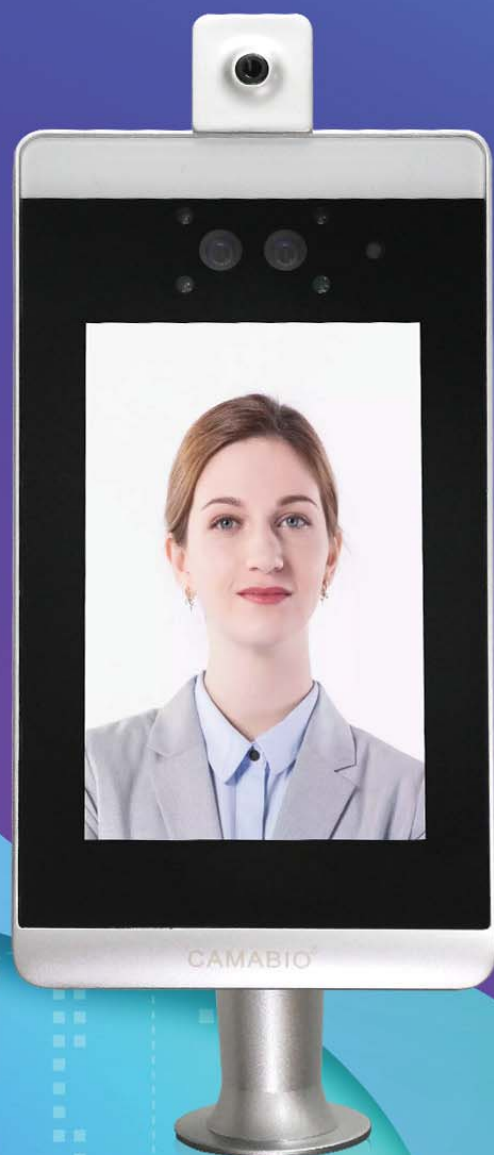


# CAMABIO®

## ***Face Recognition Access Control Terminal***



Touchless Pass Through Makes Access More Convenience and Hygiene

**CAMA Biometrics**  
**CAMA-GA200T Product Brochure**

# Content

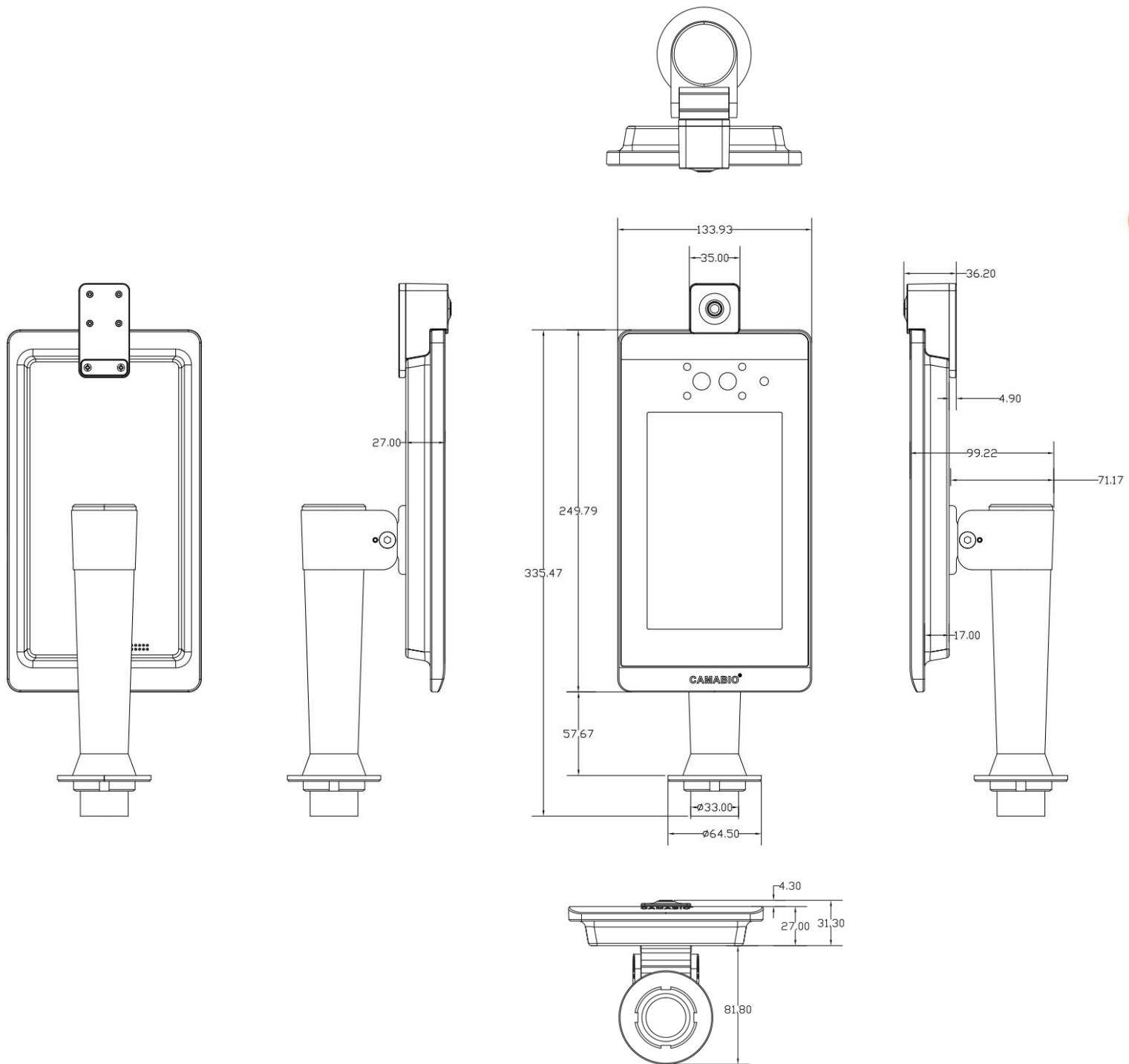
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# 1. Description

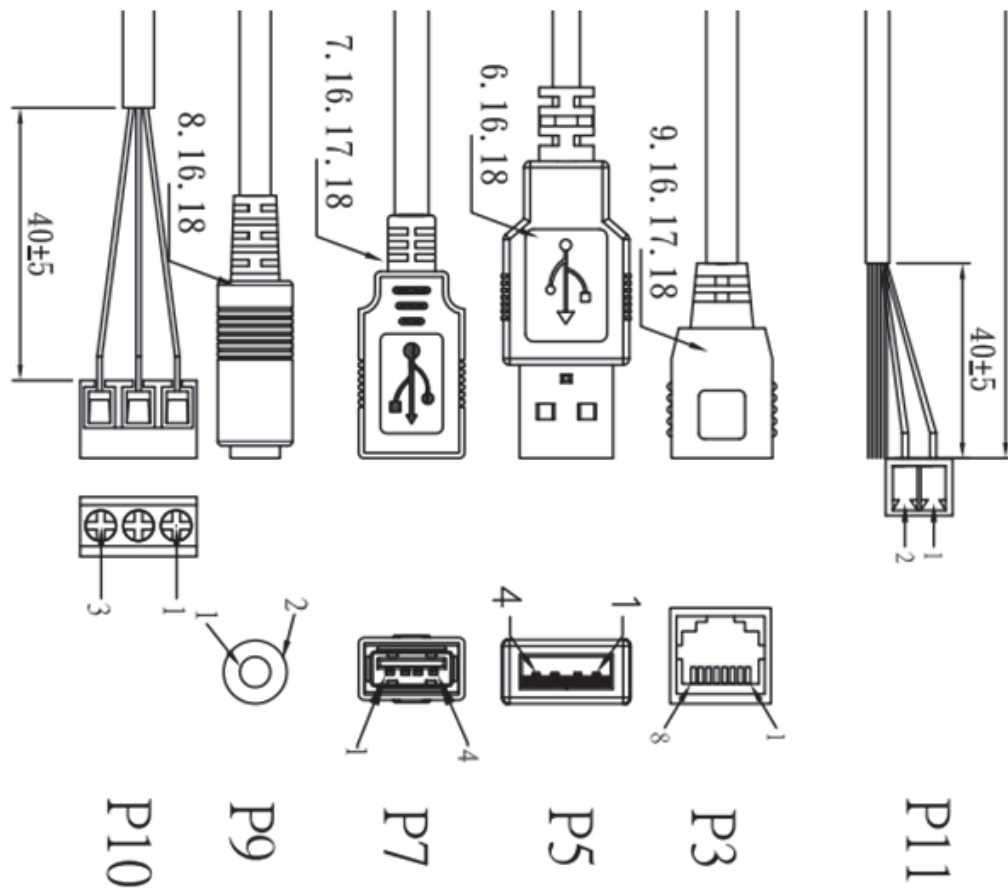
## 1.1 Description

CAMA-GA200 is a safe and convenient visible face recognition access control device. Based on newest CAMABIO face recognition algorithm, it will be easy for customers to manage building or office's access and attendance. It can be widely used for school, industrial park, government, company office, exhibition center, train station, airport, etc.

## 2. Hardware Structure



### 3. Serial Port Details



P11:RS485 Serial port line

White:485B

Yellow:485A

Brown:+5V

Black:GND

Red:Serial port 1TX

Green:Serial port 1RX

Blue:+3.3V

P3:Ethernet port

P5:USB 2.0 male

P7:USB 2.0 female

P9:Power supply DC 5.5\*2.0mm female,Connect to 9V/2A adaptive power supply

P10:Relay connector base

Red:Always off

White:COM

Green:Always on

## 4. Function

### 4.1 Device Startup

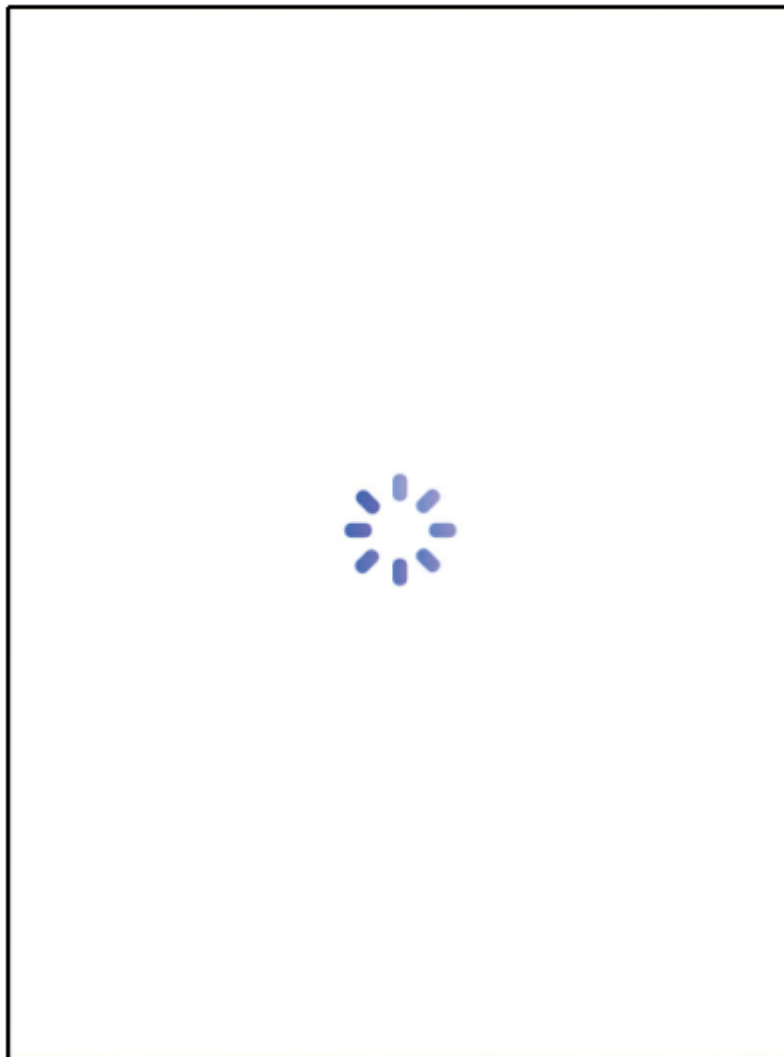
a) Plug in and switch on (Pic. 1)



( Pic. 1 )

## 4. Function

b) Device enters Loading interface. (Pic. 2)



(Pic. 2 )

## 4. Function

c) Device enters Standby interface. (Pic. 3)



( Pic. 3 )

Notice:

Location display: Show the binding location information of device.

Device status: Real time display of current running status of device.

## 4. Function

### 4.2 Menu

#### 4.2.1 Device Password

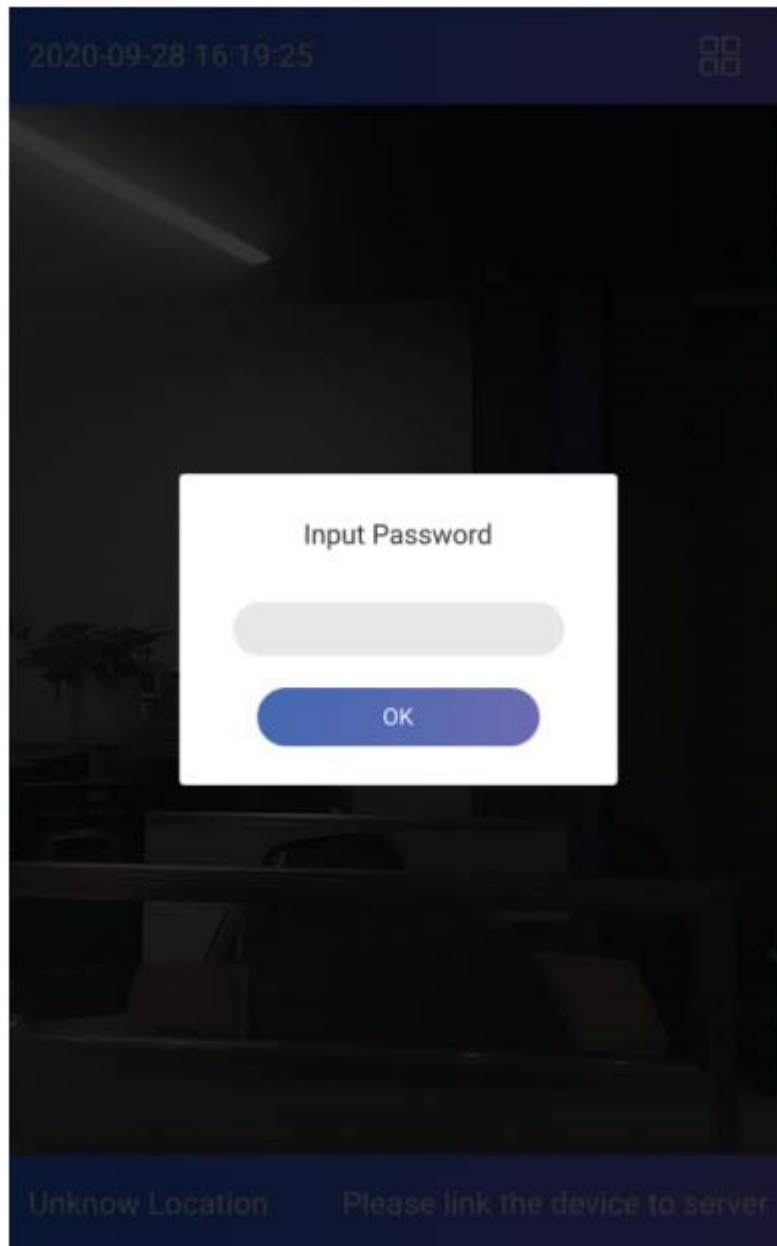
a) Touch “Menu” button. (Pic. 4)



( Pic. 4 )

## 4. Function

b) Please input “cama123456” and enter Menu interface. (Pic. 5)

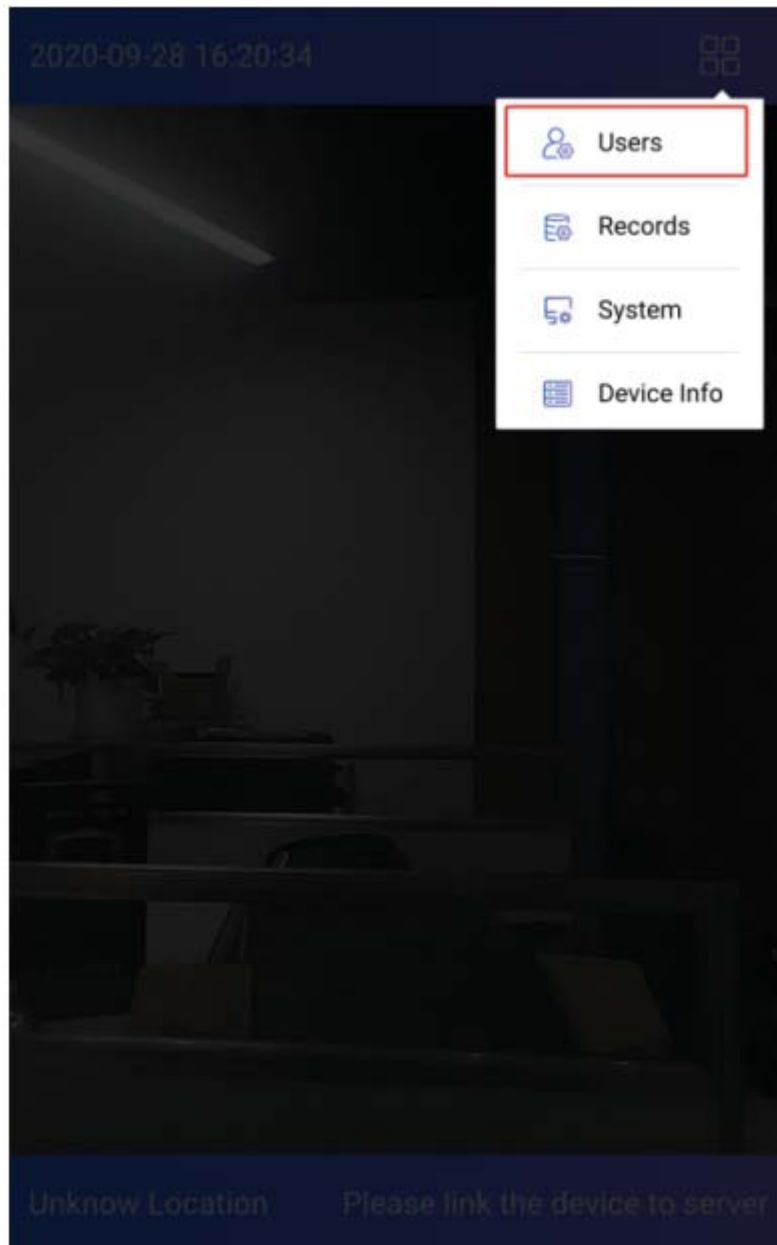


( Pic. 5 )

## 4. Function

### 4.2.2 Users Management

a) Please touch “Users” button and enter Users Management interface. (Pic. 6)



( Pic. 6 )

## 4. Function

### 4.2.2.1 Add Users

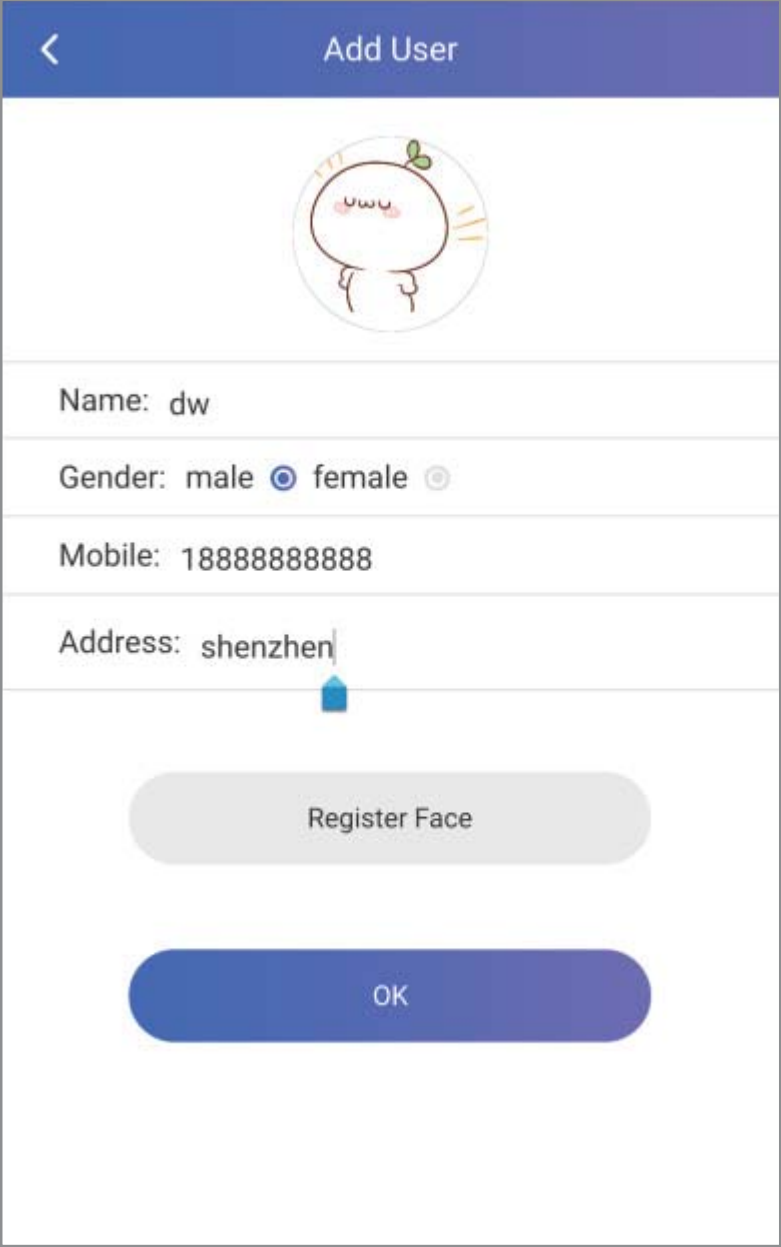
a) Please touch “Add” button and enter Add Users interface. (Pic. 7)



( Pic. 7 )

## 4. Function

b)Please fill in Name、Gender、Phone no. 、Address information, etc.. (Pic. 8)

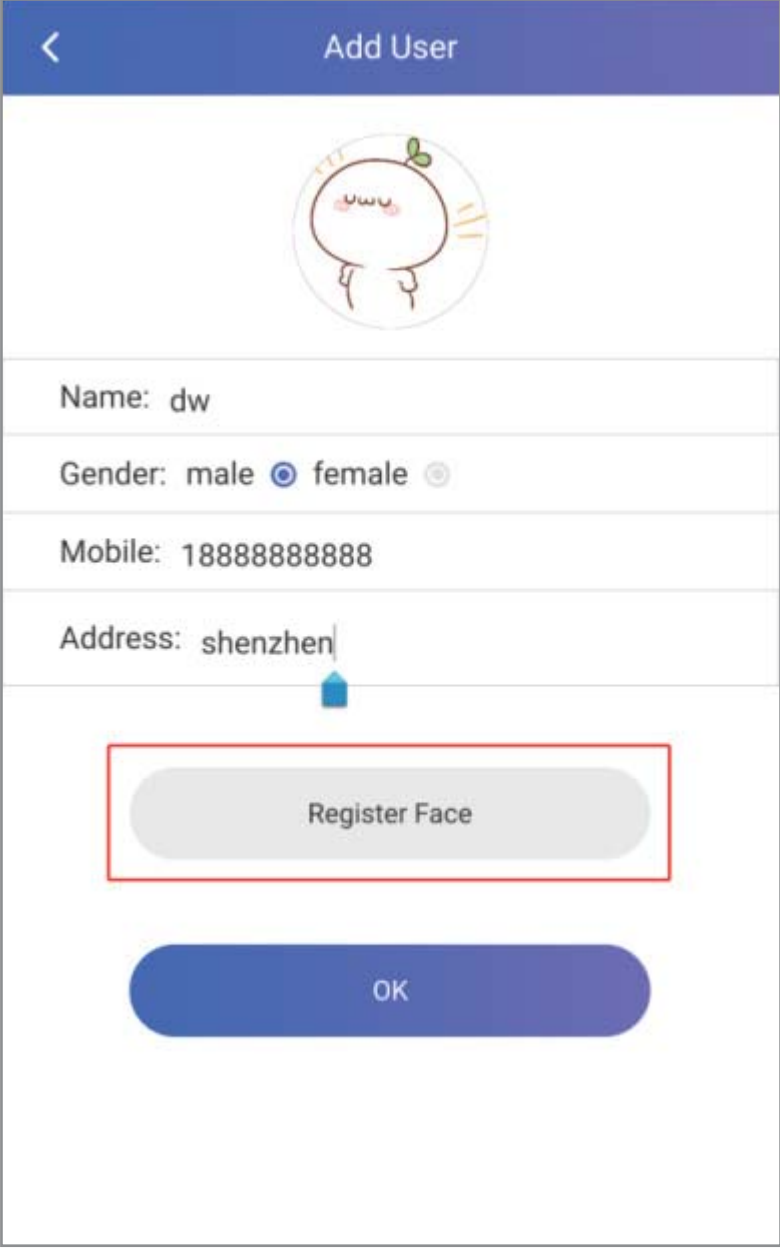


The screenshot shows a mobile application interface for adding a user. At the top is a blue header bar with a back arrow on the left and the text "Add User" in the center. Below the header is a white area containing a circular profile picture of a cartoon character with a smiling face, rosy cheeks, and a small green bow on its head. Underneath the profile picture are four input fields, each with a label and a value: "Name: dw", "Gender: male" (with a selected radio button), "Gender: female" (with an unselected radio button), "Mobile: 18888888888", and "Address: shenzhen". A small blue cursor icon is positioned at the end of the address text. At the bottom of the form are two large, rounded buttons: a light gray button labeled "Register Face" and a blue button labeled "OK".

(Pic. 8 )

## 4. Function

c) Touch “Register Face” button and enters face register interface.  
(Pic. 9)

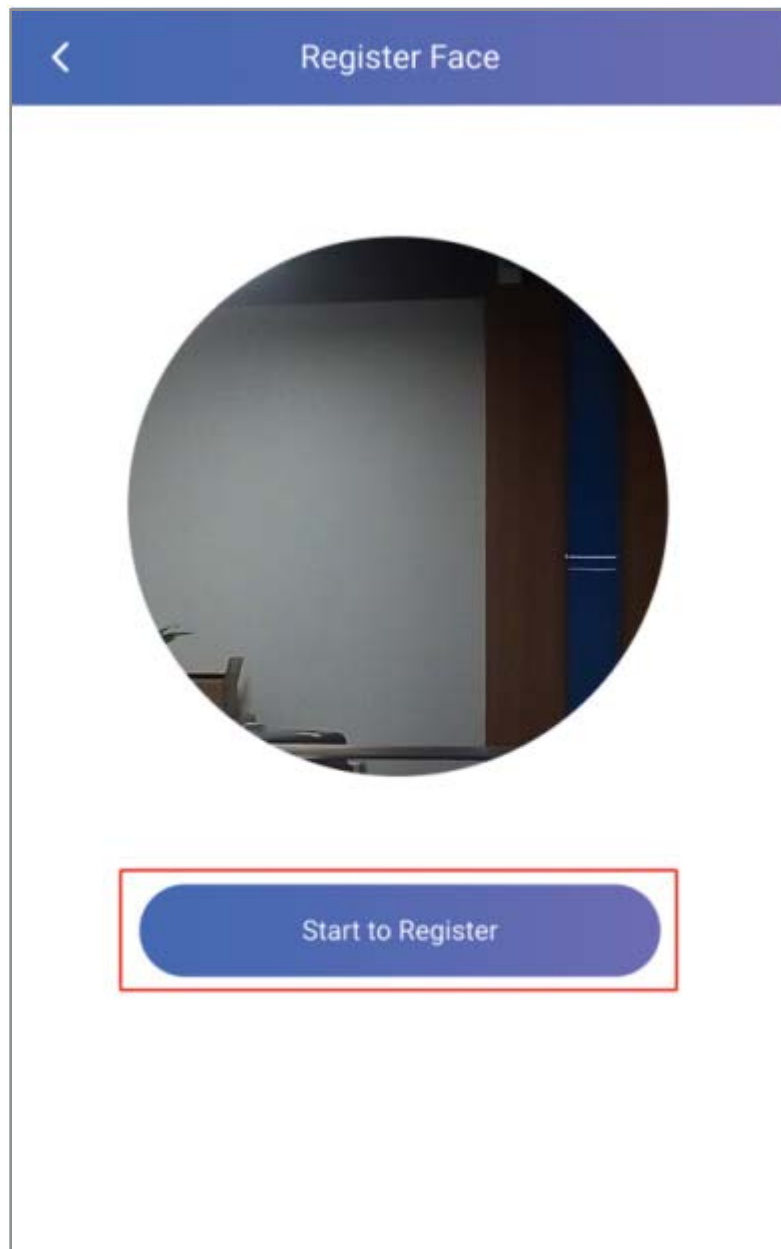


The screenshot displays a mobile application interface titled "Add User". At the top, there is a blue header bar with a back arrow on the left and the title "Add User" in the center. Below the header, there is a circular profile picture placeholder showing a cartoon character. The form consists of several input fields: "Name: dw", "Gender: male ☒ female ☐", "Mobile: 18888888888", and "Address: shenzhen". Below the address field, there is a blue house icon. At the bottom of the form, there are two buttons: a grey button labeled "Register Face" which is highlighted with a red rectangular border, and a blue button labeled "OK".

( Pic. 9 )

## 4. Function

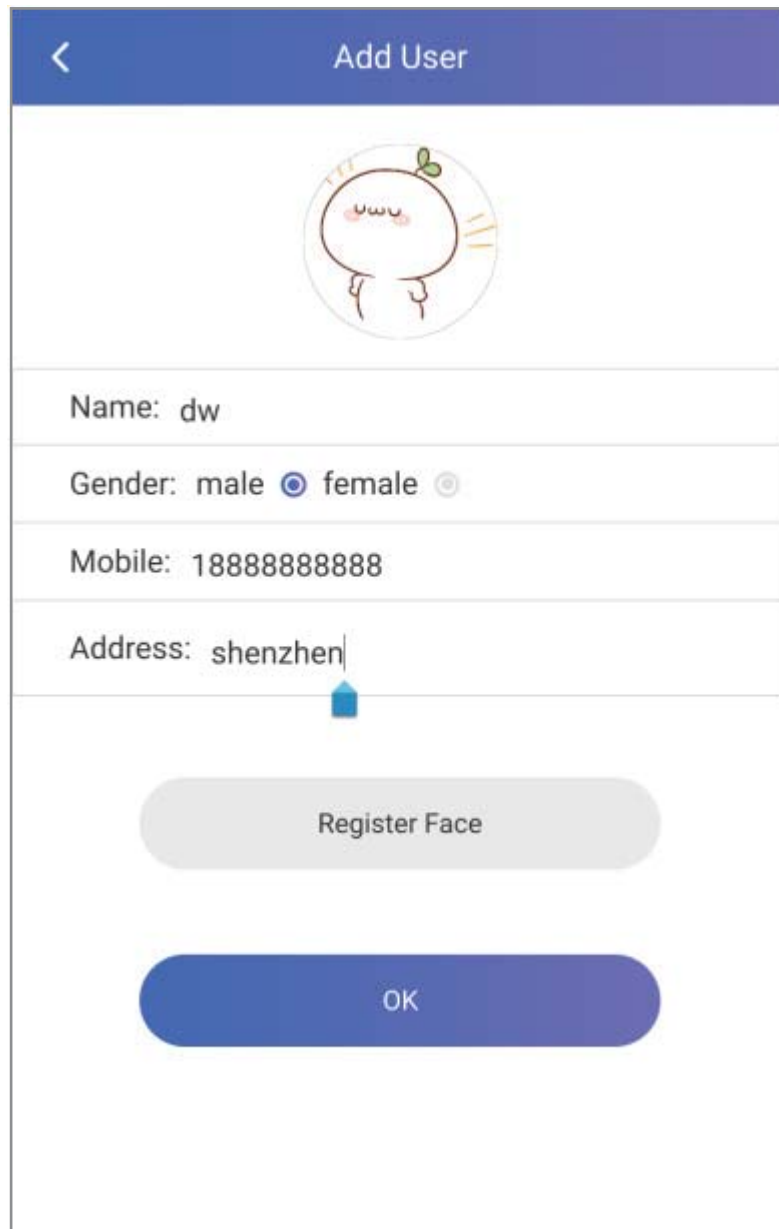
d) Please touch “Start to Register” button and place the face inside of circle, device will capture face automatically. (Pic. 10)



(Pic. 10)

## 4. Function

e) Please touch “OK” button, device will save this user information and return to Users Management interface. (Pic.11)



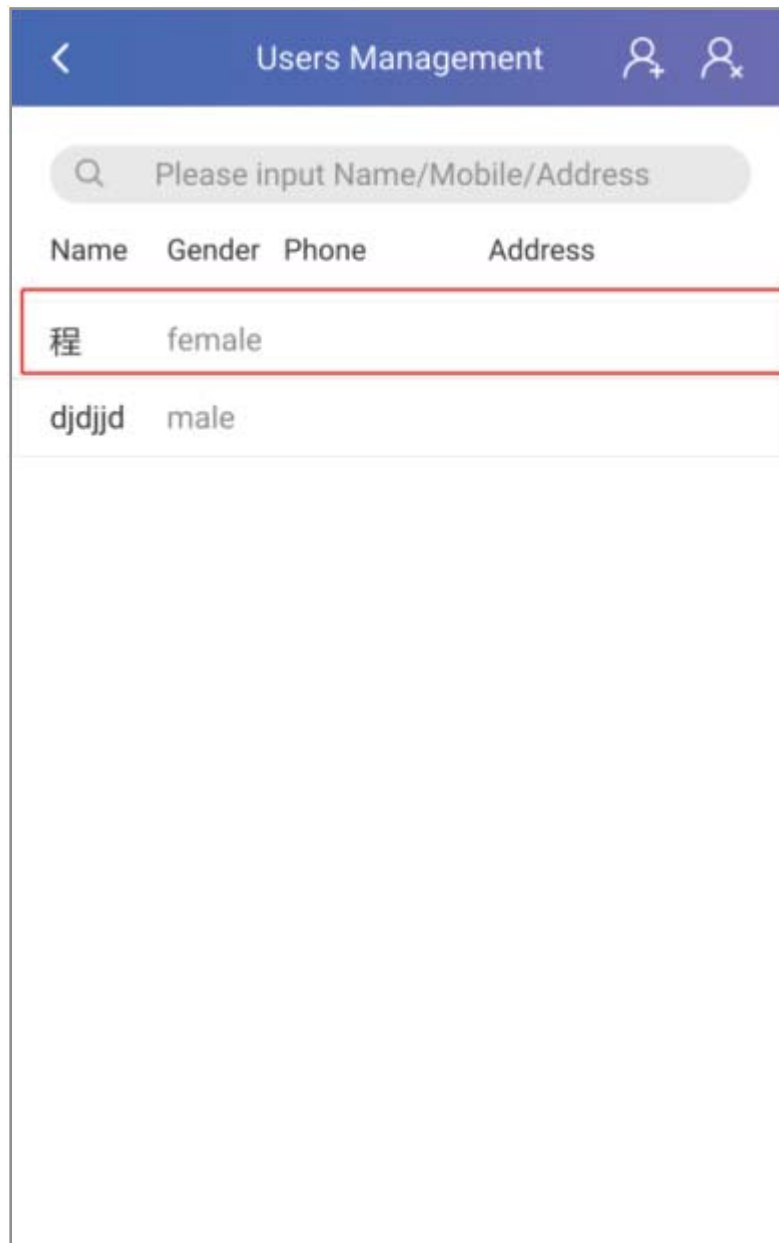
The screenshot displays a mobile application interface titled "Add User". At the top, there is a blue header bar with a back arrow on the left and the title "Add User" in the center. Below the header, there is a circular profile picture of a cartoon character with a green bow. The form contains the following fields: "Name: dw", "Gender: male" (selected with a blue radio button) and "female" (unselected with a grey radio button), "Mobile: 18888888888", and "Address: shenzhen". Below the address field, there is a blue house icon. At the bottom of the form, there are two buttons: a grey "Register Face" button and a blue "OK" button.

( Pic. 11)

## 4. Function

### 4.2.2.2 Modify Users

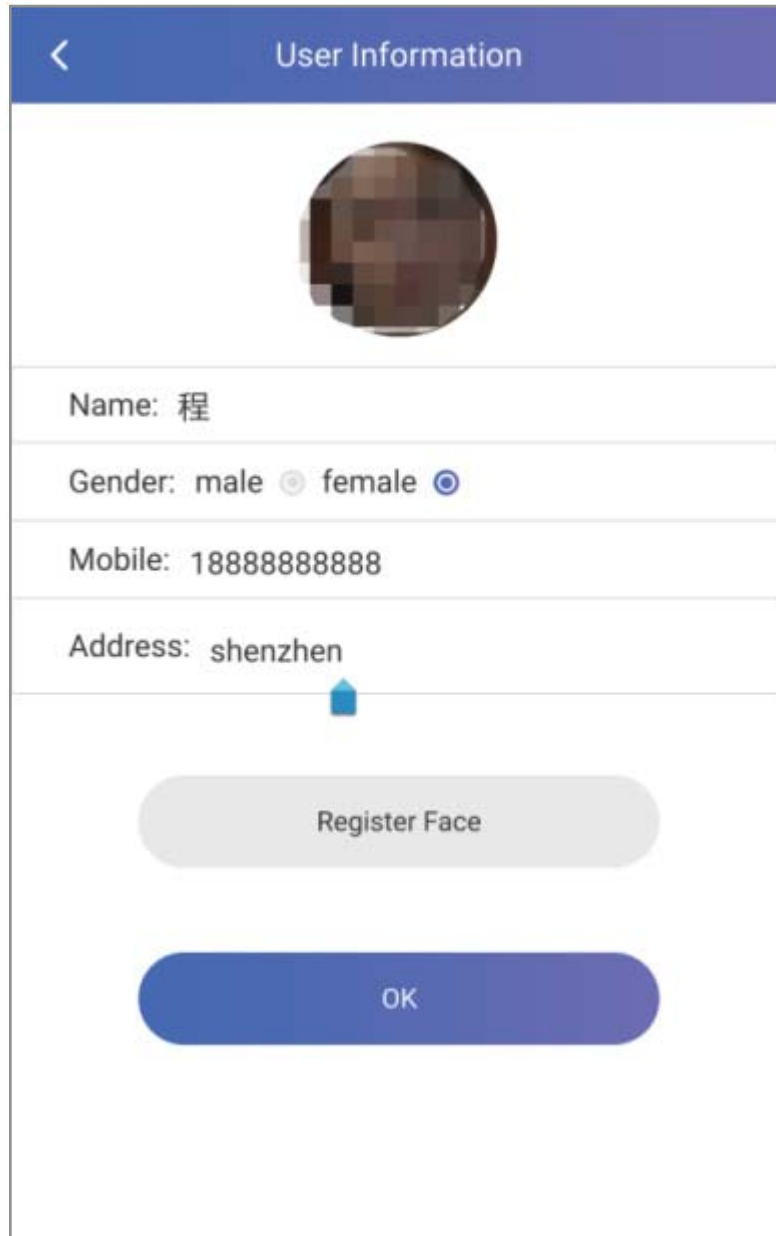
a) Choose the user which need to be modified and enter Users Details interface.(Pic.12)



( Pic. 12 )

## 4. Function

b) Modify users information also could support face re-registration.  
(Pic. 13)



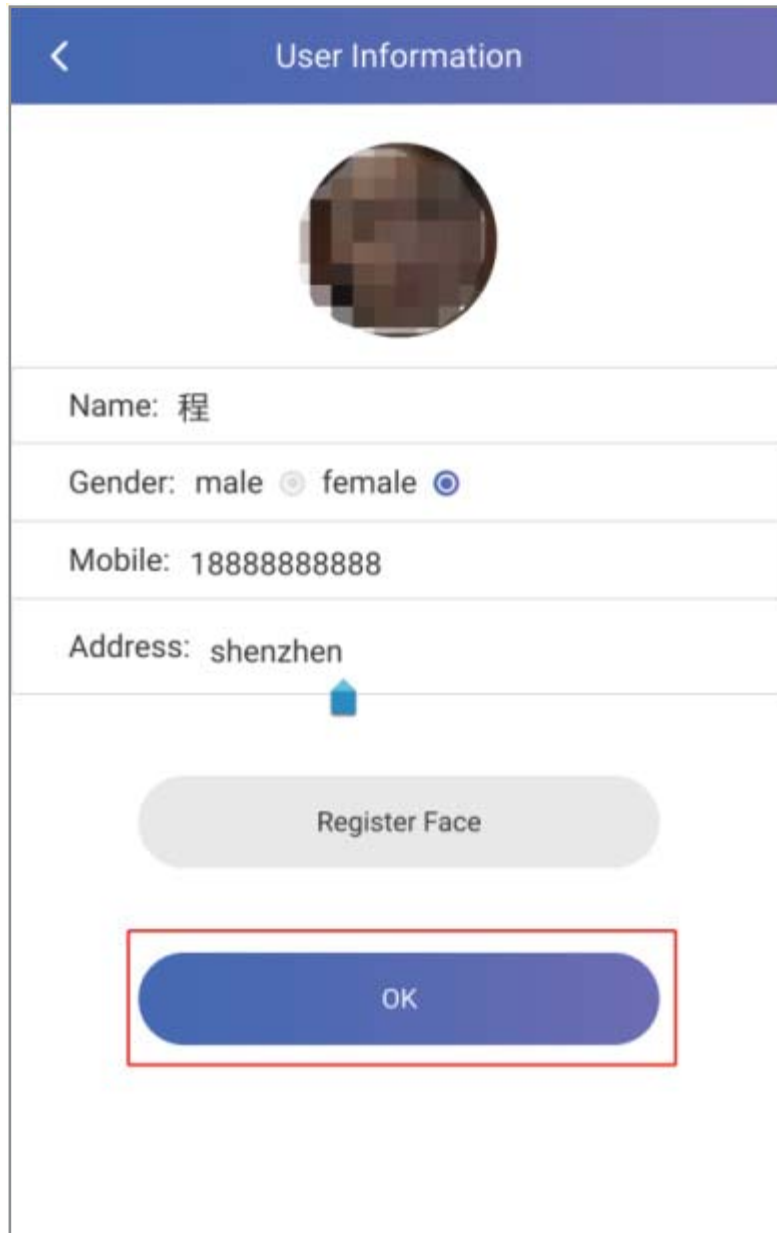
The image shows a mobile application interface for editing user information. At the top is a blue header bar with a back arrow and the title 'User Information'. Below the header is a circular profile picture placeholder. The form contains four input fields: 'Name: 程', 'Gender: male ☐ female ☒

|                                                                                     |                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| User Information                                                                    |                                                                    |
|    |                                                                    |
| Name:                                                                               | 程                                                                  |
| Gender:                                                                             | male <input type="radio"/> female <input checked="" type="radio"/> |
| Mobile:                                                                             | 18888888888                                                        |
| Address:                                                                            | shenzhen                                                           |
|  |                                                                    |
| <button>Register Face</button>                                                      |                                                                    |
| <button>OK</button>                                                                 |                                                                    |

( Pic. 13)

## 4. Function

c) Please touch “OK” button, device will save the modified information and return to Users Management interface. (Pic. 14)



The image shows a mobile application interface titled "User Information". At the top is a blue header bar with a back arrow and the title. Below the header is a circular profile picture placeholder. The form contains four rows of information: "Name: 程", "Gender: male" (selected) and "female" (unselected), "Mobile: 18888888888", and "Address: shenzhen". Below the address field is a small blue house icon. There are two buttons at the bottom: a grey "Register Face" button and a blue "OK" button. The "OK" button is highlighted with a red rectangular border.

|                                                                                     |                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| User Information                                                                    |                                                                    |
|    |                                                                    |
| Name:                                                                               | 程                                                                  |
| Gender:                                                                             | male <input checked="" type="radio"/> female <input type="radio"/> |
| Mobile:                                                                             | 18888888888                                                        |
| Address:                                                                            | shenzhen                                                           |
|  |                                                                    |
| <button>Register Face</button>                                                      |                                                                    |
| <div><button>OK</button></div>                                                      |                                                                    |

( Pic. 14 )

## 4. Function

### 4.2.2.3 Delete Users

Touch “Delete Users” button and enter Delete mode.(Pic. 15)



( Pic. 15 )

## 4. Function

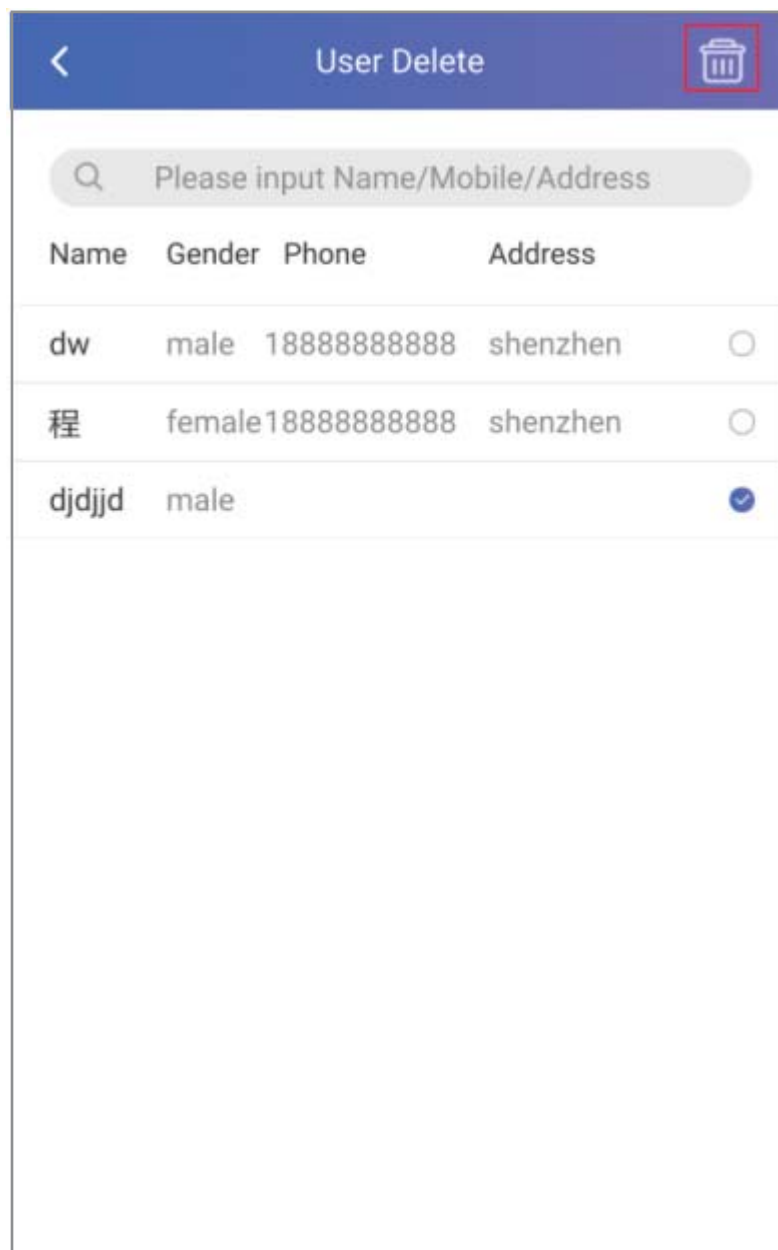
b) Select the users to be deleted. (Pic. 16)

| Name  | Gender | Phone       | Address  |                                  |
|-------|--------|-------------|----------|----------------------------------|
| dw    | male   | 18888888888 | shenzhen | <input type="radio"/>            |
| 程     | female | 18888888888 | shenzhen | <input type="radio"/>            |
| djdjd | male   |             |          | <input checked="" type="radio"/> |

( Pic. 16 )

## 4. Function

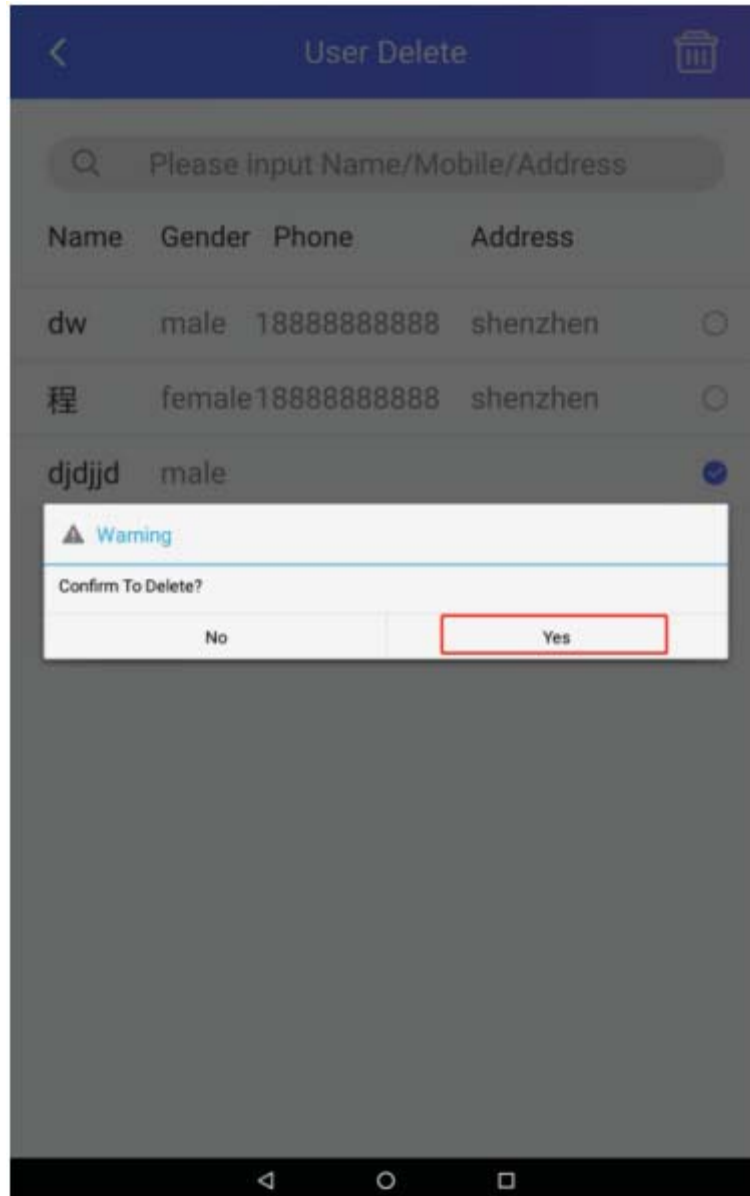
c) Touch “Delete” button. (Pic. 17)



( Pic. 17 )

## 4. Function

d) Touch “Yes” button, device will delete all the selected users.  
(Pic. 18)

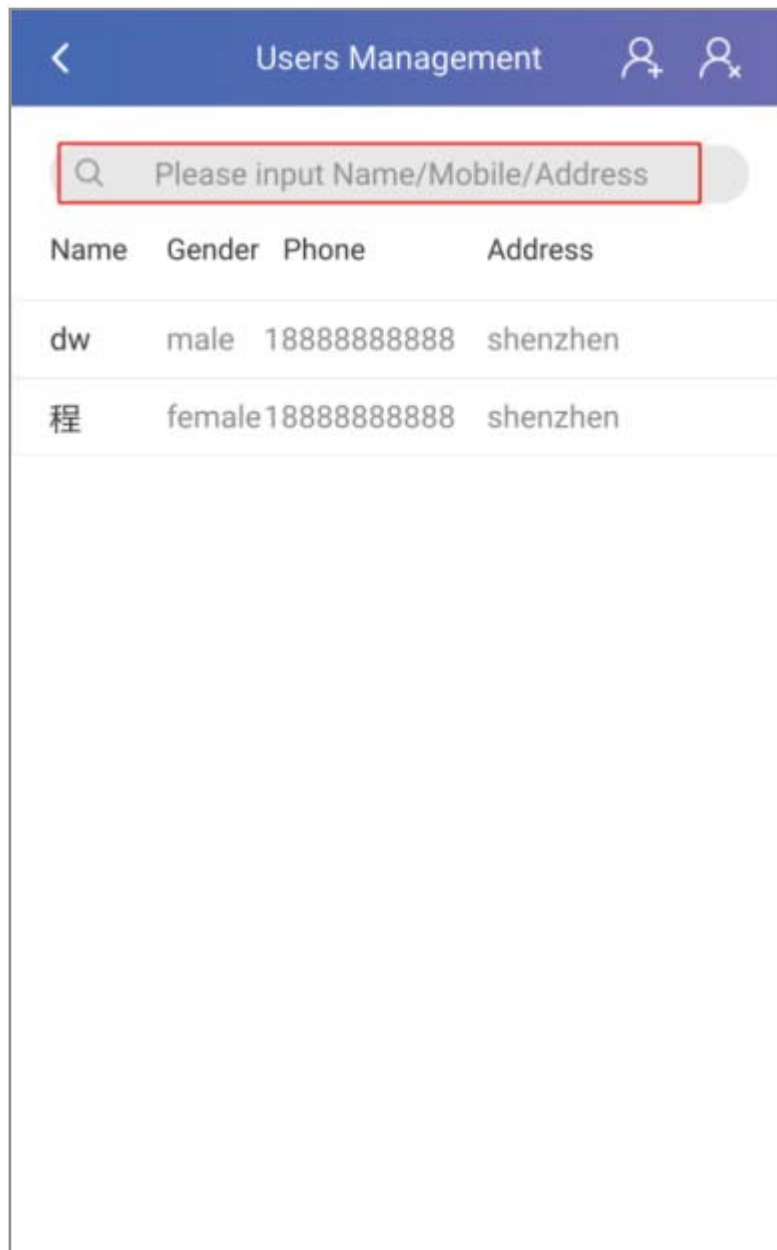


( Pic. 18 )

## 4. Function

### 4.2.2.4 Search Users

a) Please touch “Search Box”. (Pic. 19)



(Pic. 19 )

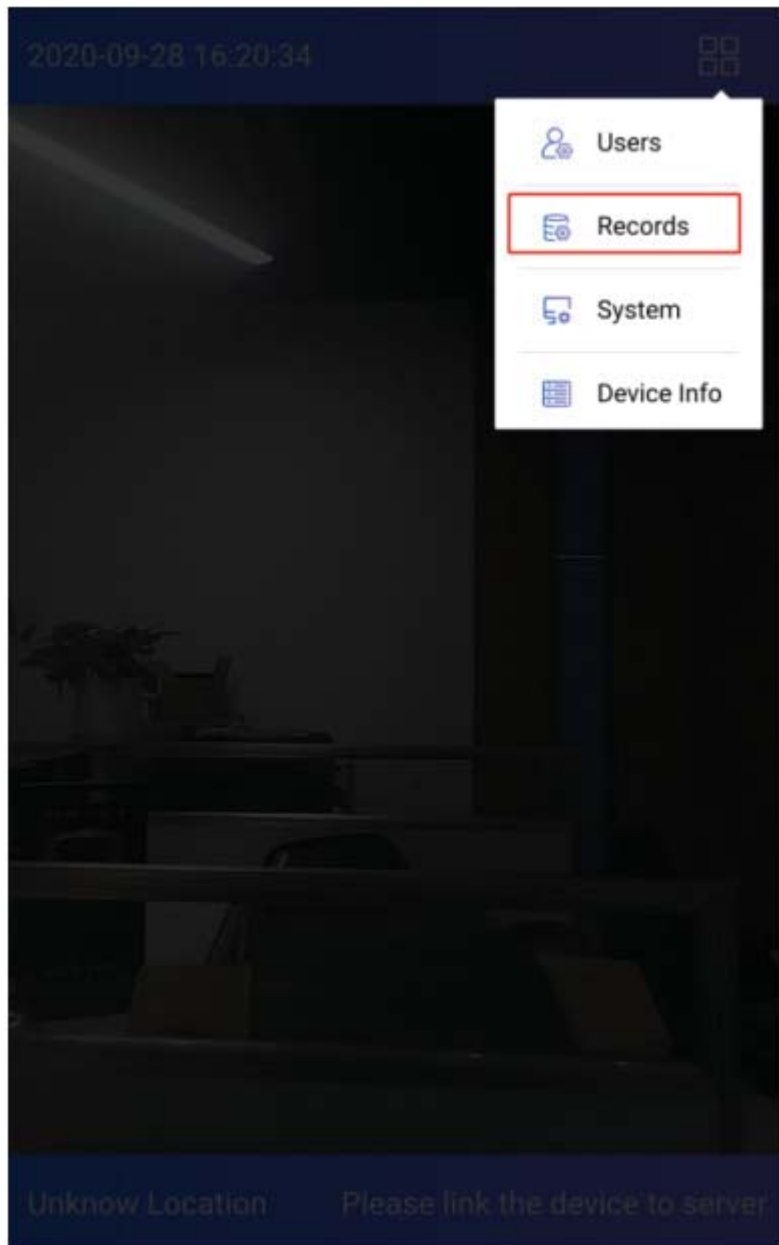
b) Support to input Name, Mobile and Address information.

## 4. Function

### 4.2.3 Records Management

#### 4.2.3.1 Records Query

a) Please touch “Records” button and enter Records Management interface. (Pic. 20)



( Pic. 20 )

## 4. Function

b)2000 records are displayed by default on Records Management interface. (Pic. 21)



The screenshot shows a mobile application interface titled "Records Manage". At the top is a blue header bar with a back arrow on the left, the title "Records Manage" in the center, and a share icon on the right. Below the header is a search bar with a magnifying glass icon and the placeholder text "Input Name/Time". The main content is a table with three columns: "No", "Name", and "Time". The table contains 15 rows of data. The first 10 rows have "No" 00007, "Name" 测试, and "Time" values ranging from 2020-10-21 09:10:01 to 2020-10-19 17:29:34. The next 3 rows have "No" 00005, "Name" 快乐, and "Time" values ranging from 2020-10-19 17:13:07 to 2020-10-19 16:32:43. The last row has "No" 00005, "Name" 快乐, and "Time" 2020-10-19 16:22:54.

| No    | Name | Time                |
|-------|------|---------------------|
| 00007 | 测试   | 2020-10-21 09:10:01 |
| 00007 | 测试   | 2020-10-19 17:58:39 |
| 00007 | 测试   | 2020-10-19 17:57:33 |
| 00007 | 测试   | 2020-10-19 17:57:29 |
| 00007 | 测试   | 2020-10-19 17:44:13 |
| 00007 | 测试   | 2020-10-19 17:35:20 |
| 00007 | 测试   | 2020-10-19 17:29:47 |
| 00007 | 测试   | 2020-10-19 17:29:38 |
| 00007 | 测试   | 2020-10-19 17:29:34 |
| 00005 | 快乐   | 2020-10-19 17:13:07 |
| 00005 | 快乐   | 2020-10-19 17:13:00 |
| 00005 | 快乐   | 2020-10-19 16:32:43 |
| 00005 | 快乐   | 2020-10-19 16:22:54 |

( Pic. 21 )

## 4. Function

### 4.2.3.2 Search Records

a) Touch Search Box. (Pic. 22)



The screenshot shows a mobile application interface titled 'Records Manage'. At the top, there is a blue header bar with a back arrow on the left and a share icon on the right. Below the header is a search bar with a magnifying glass icon on the left and the placeholder text 'Input Name/Time'. The search bar is highlighted with a red rectangle. Below the search bar is a table with three columns: 'No', 'Name', and 'Time'. The table contains 14 rows of data. The first 10 rows have 'No' values of 00007 and 'Name' values of '测试'. The next 3 rows have 'No' values of 00005 and 'Name' values of '快乐'. The last row has a partially visible 'No' value of 00005 and a partially visible 'Name' value of '快乐'. The 'Time' column contains timestamps for each record.

| No    | Name | Time                |
|-------|------|---------------------|
| 00007 | 测试   | 2020-10-21 09:10:01 |
| 00007 | 测试   | 2020-10-19 17:58:39 |
| 00007 | 测试   | 2020-10-19 17:57:33 |
| 00007 | 测试   | 2020-10-19 17:57:29 |
| 00007 | 测试   | 2020-10-19 17:44:13 |
| 00007 | 测试   | 2020-10-19 17:35:20 |
| 00007 | 测试   | 2020-10-19 17:29:47 |
| 00007 | 测试   | 2020-10-19 17:29:38 |
| 00007 | 测试   | 2020-10-19 17:29:34 |
| 00005 | 快乐   | 2020-10-19 17:13:07 |
| 00005 | 快乐   | 2020-10-19 17:13:00 |
| 00005 | 快乐   | 2020-10-19 16:32:43 |
| 00005 | 快乐   | 2020-10-19 16:22:54 |

( Pic. 22 )

b)Support to input Name and Time.

## 4. Function

### 4.2.3.3 Export Records

a) Please touch “Export Records” button. (Pic. 23)



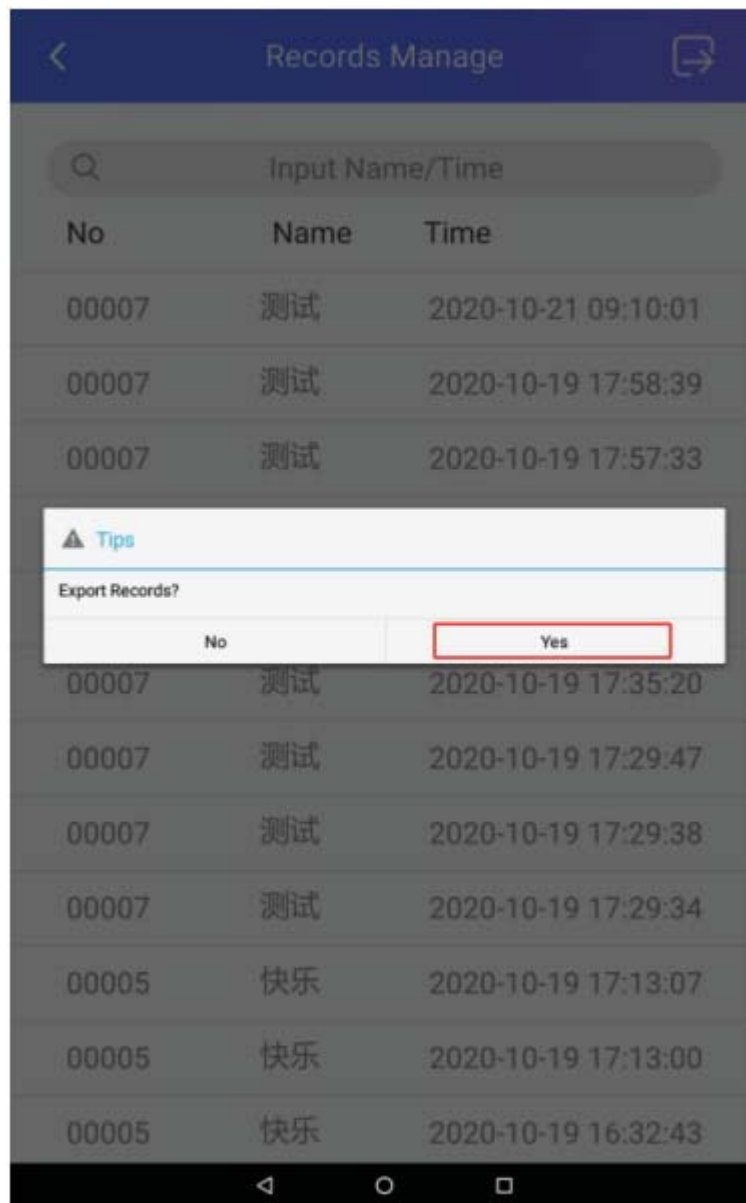
The screenshot shows a mobile application interface titled "Records Manage". At the top right, there is a red box highlighting an "Export Records" icon (a square with a right-pointing arrow). Below the title bar is a search bar with the placeholder text "Input Name/Time". The main content is a table with three columns: "No", "Name", and "Time". The table contains 14 rows of data. The first 10 rows have "No" 00007 and "Name" 测试. The next 3 rows have "No" 00005 and "Name" 快乐. The last row has "No" 00005 and "Name" 快乐. The "Time" column shows various timestamps.

| No    | Name | Time                |
|-------|------|---------------------|
| 00007 | 测试   | 2020-10-21 09:10:01 |
| 00007 | 测试   | 2020-10-19 17:58:39 |
| 00007 | 测试   | 2020-10-19 17:57:33 |
| 00007 | 测试   | 2020-10-19 17:57:29 |
| 00007 | 测试   | 2020-10-19 17:44:13 |
| 00007 | 测试   | 2020-10-19 17:35:20 |
| 00007 | 测试   | 2020-10-19 17:29:47 |
| 00007 | 测试   | 2020-10-19 17:29:38 |
| 00007 | 测试   | 2020-10-19 17:29:34 |
| 00005 | 快乐   | 2020-10-19 17:13:07 |
| 00005 | 快乐   | 2020-10-19 17:13:00 |
| 00005 | 快乐   | 2020-10-19 16:32:43 |
| 00005 | 快乐   | 2020-10-19 16:32:54 |

( Pic. 23 )

## 4. Function

b) Touch “Yes” button. (Pic. 24)



( Pic. 24 )

## 4. Function

c) Select the U disk route to be saved and touch “Save” button.  
(Pic. 25)

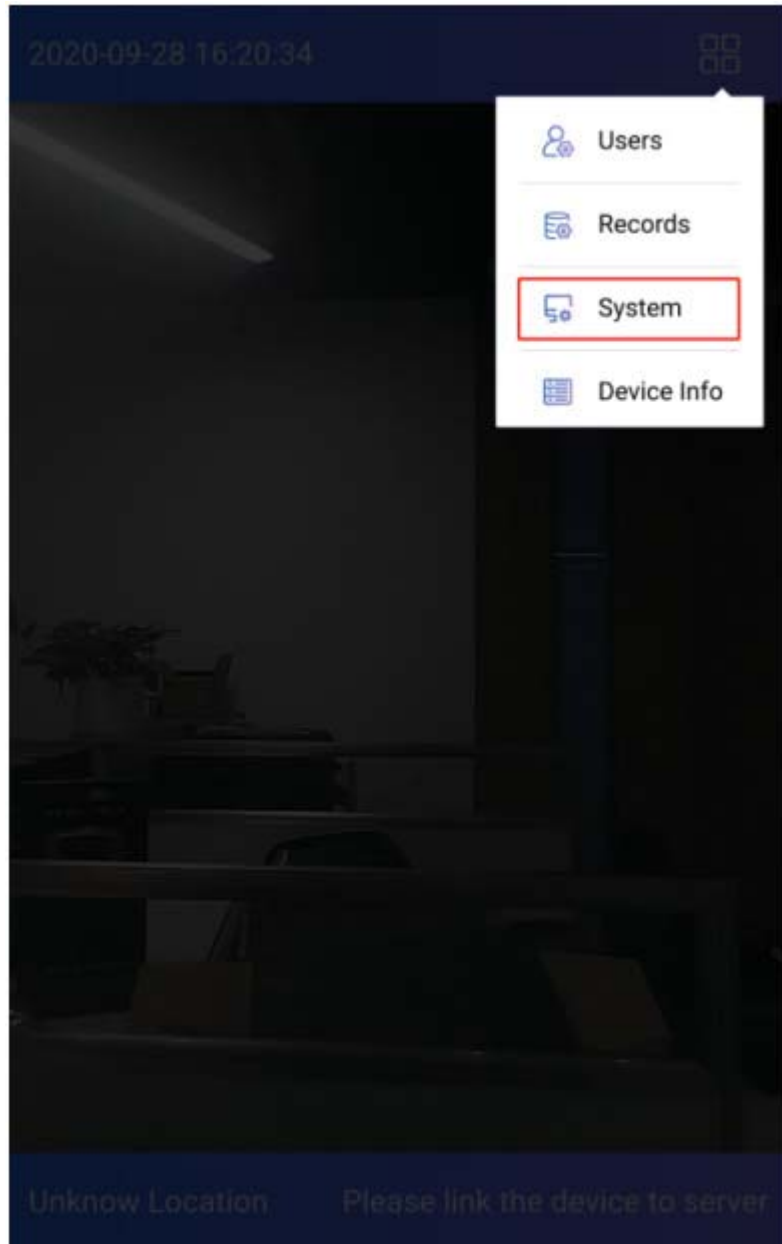


( Pic. 25 )

## 4. Function

### 4.2.4 System Settings

a) Please touch “System” button and enter System Settings interface. (Pic. 26)

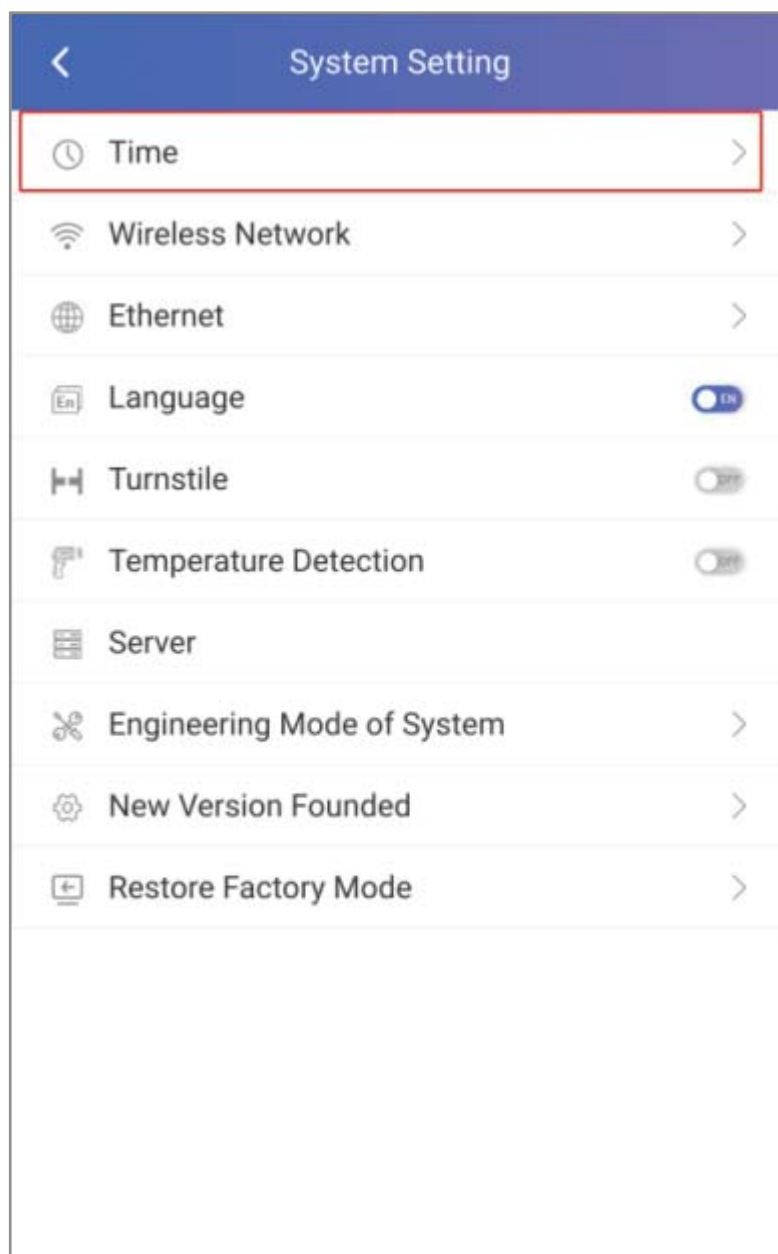


( Pic. 26 )

## 4. Function

### 4.2.4.1 Time

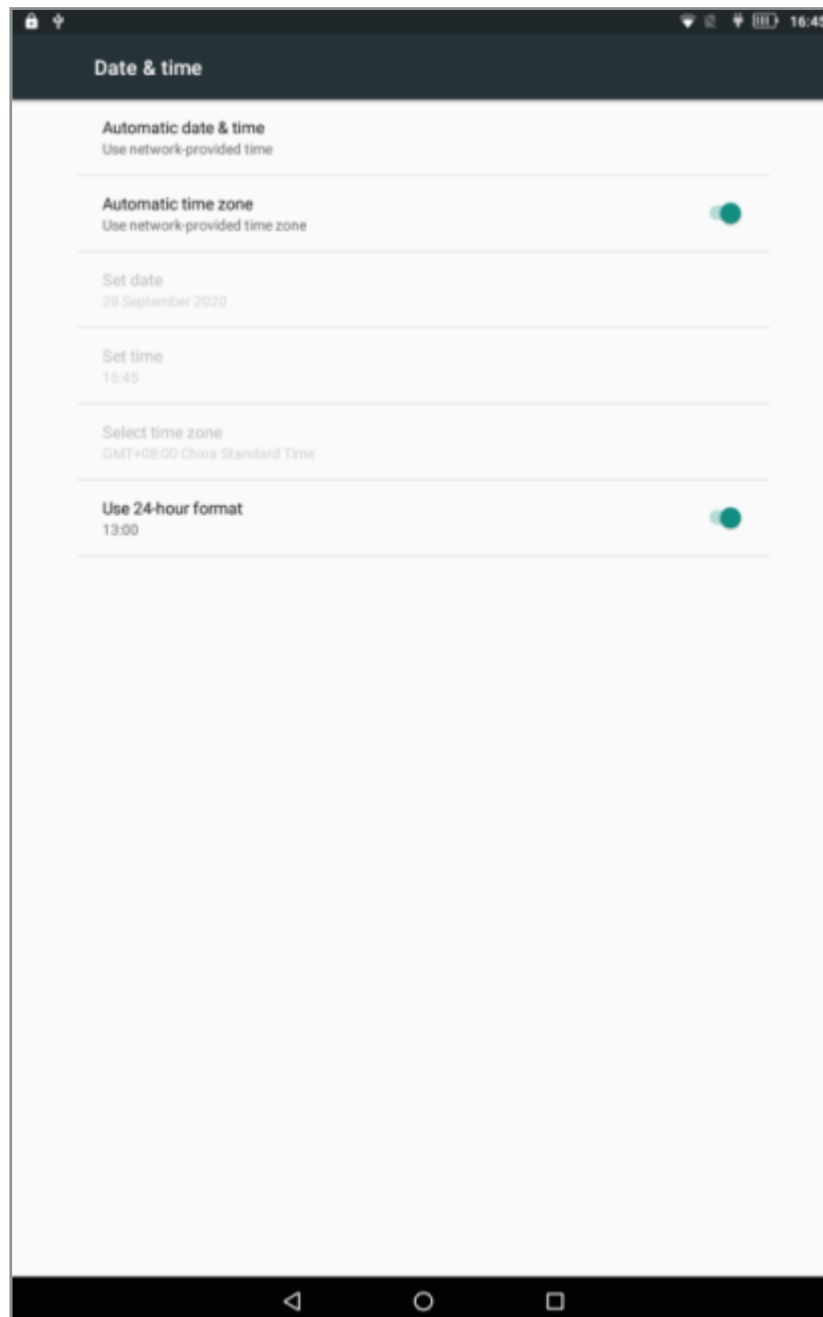
Please touch “Time” module and enter Time Setting interface. (Pic. 27)



( Pic. 27 )

## 4. Function

b)Support to set Date, Time, Time zone and Display format on Time & Date interface. (Pic. 28)

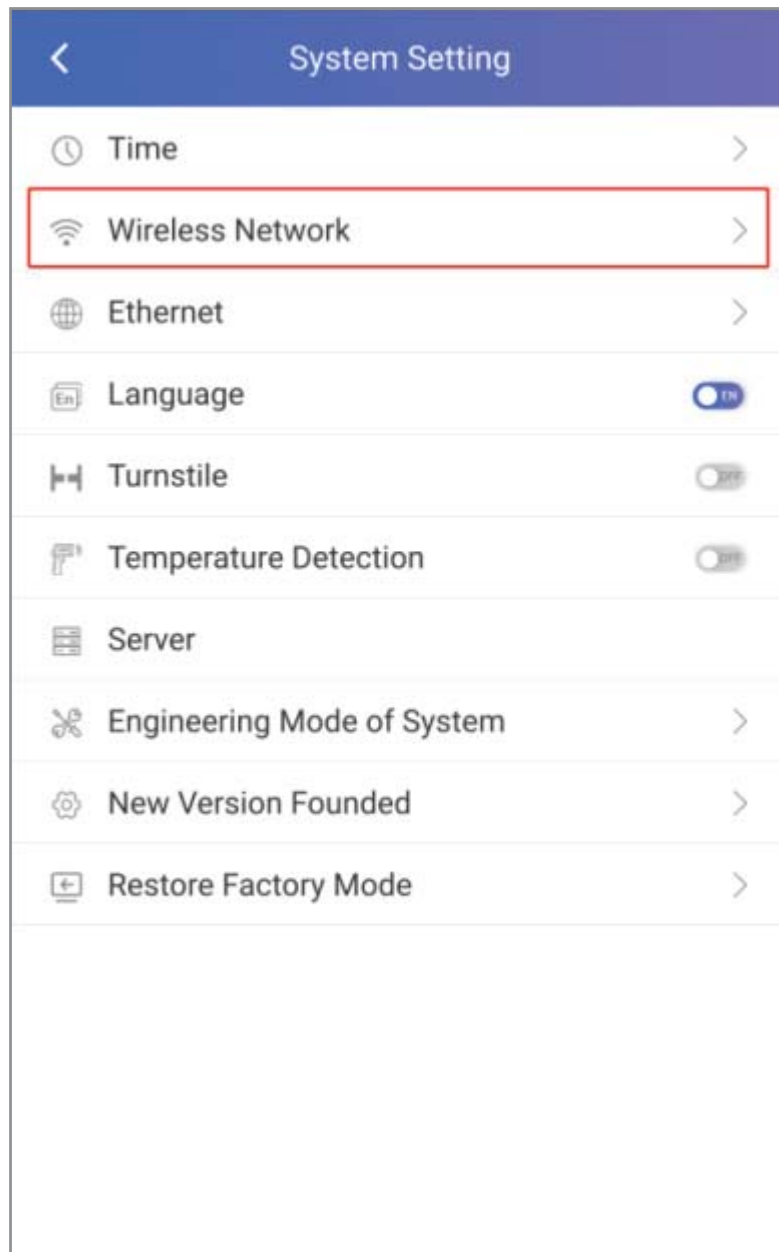


( Pic. 28 )

## 4. Function

### 4.2.4.2 Wireless Network

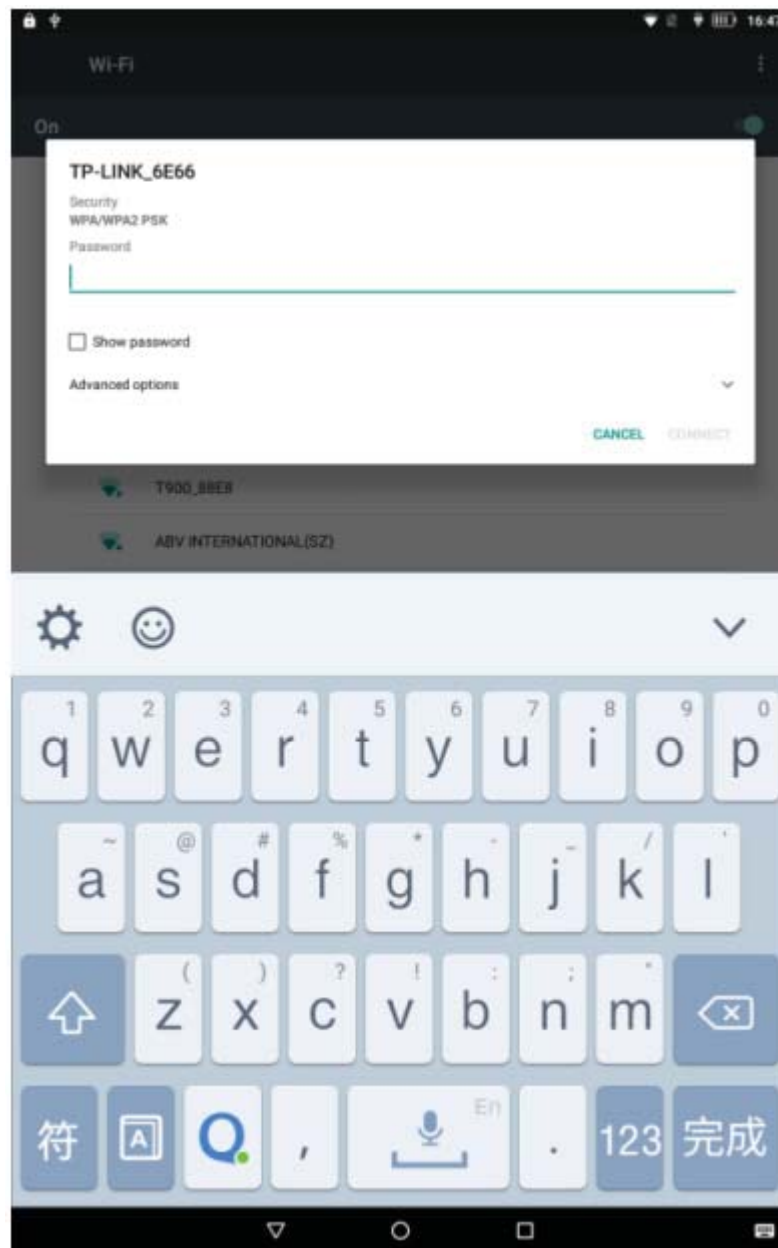
a) Please touch “Wi-Fi” and enter Wi-Fi setting interface. (Pic. 29)



( Pic. 29 )

## 4. Function

b) Touch Wi-Fi to be connected and input the password. (Pic. 30)

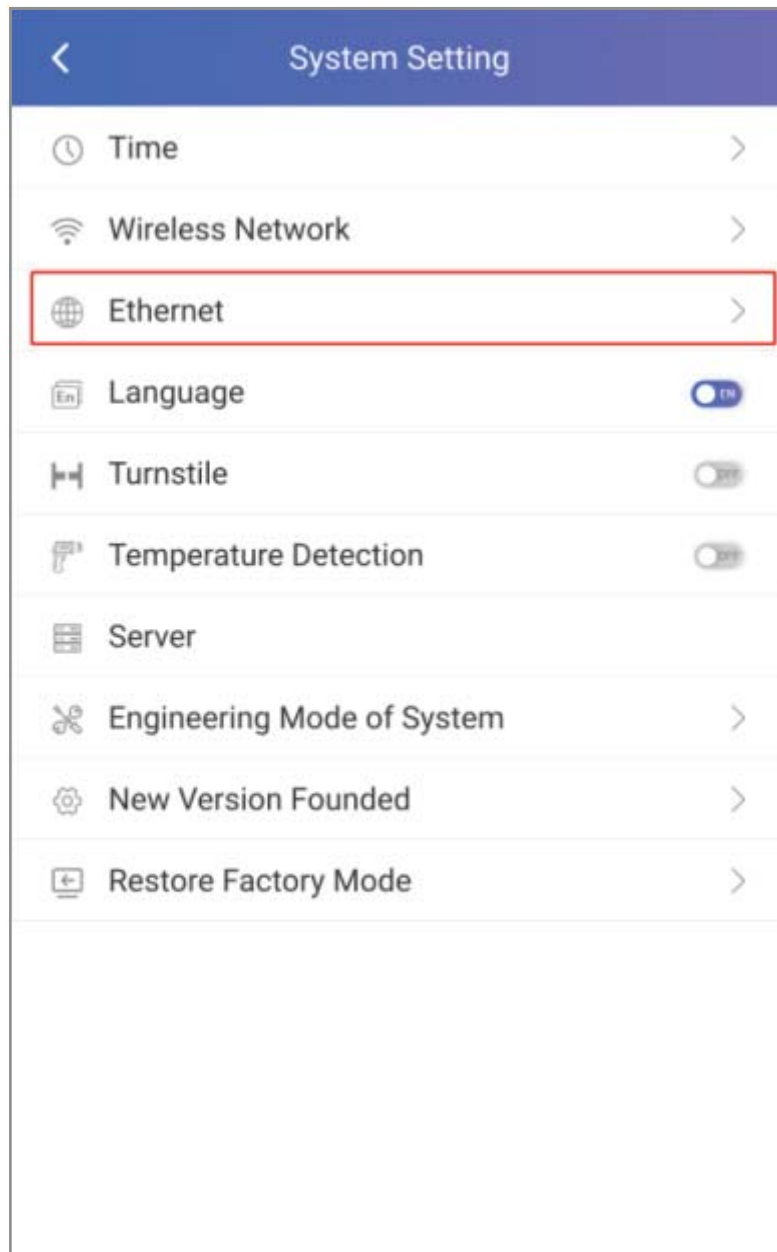


( Pic. 30 )

## 4. Function

### 4.2.4.3 Ethernet

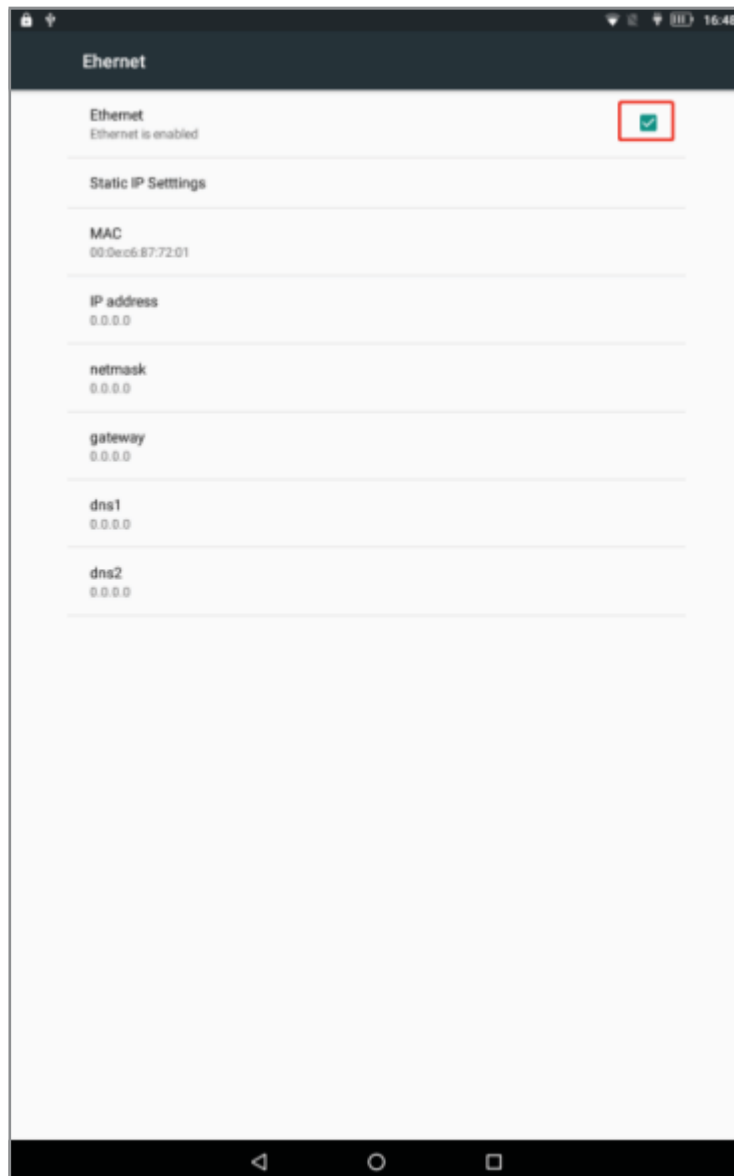
a) Please touch “Ethernet” and enter Ethernet Setting interface.  
(Pic. 31)



( Pic. 31 )

## 4. Function

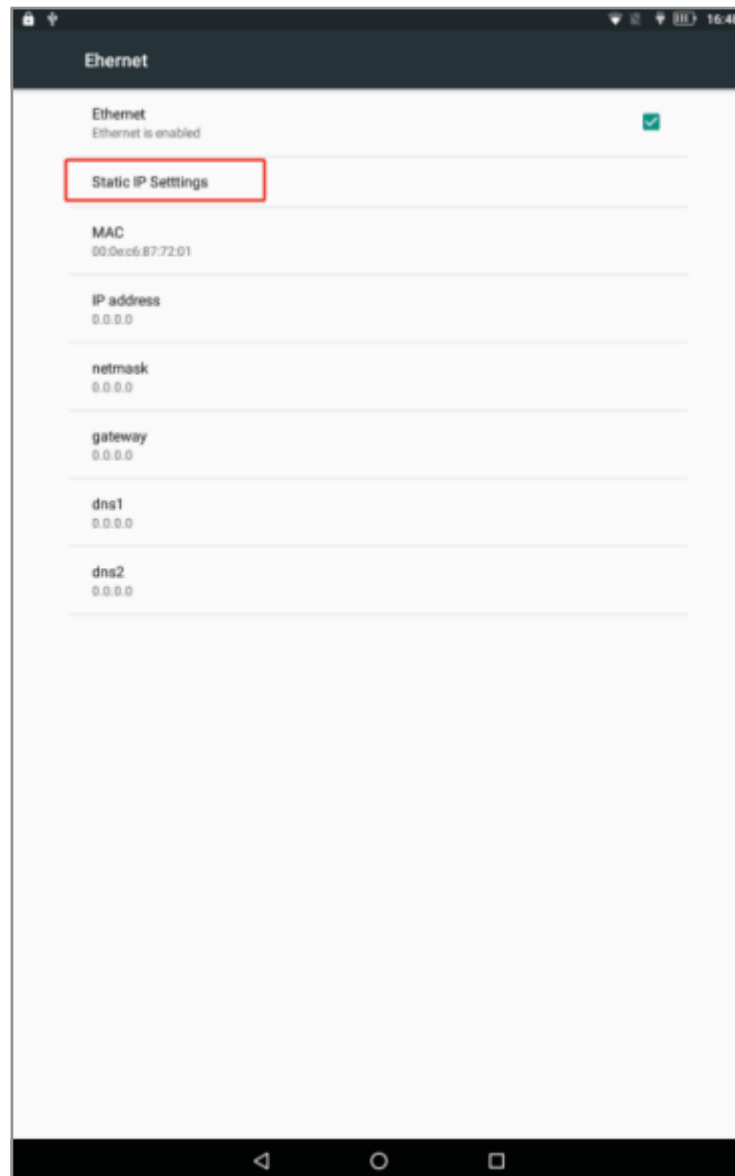
b) Select “Ethernet”, system will obtain Network configuration information automatically. (Pic. 32)



( Pic. 32)

## 4. Function

c) Touch “Static IP Settings”, able to input IP, Subnet Mask, Gateway and other Network configuration information . (Pic. 33)

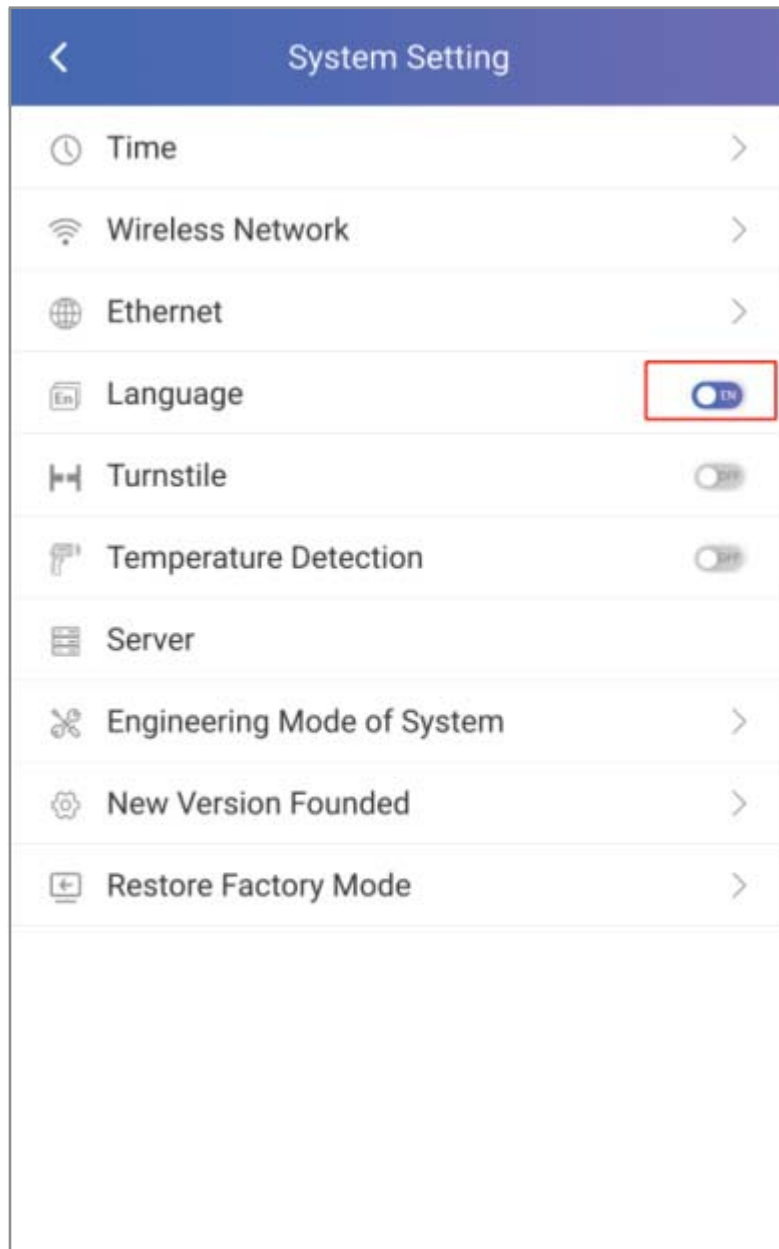


(Pic. 33 )

## 4. Function

### 4.2.4.4 Language

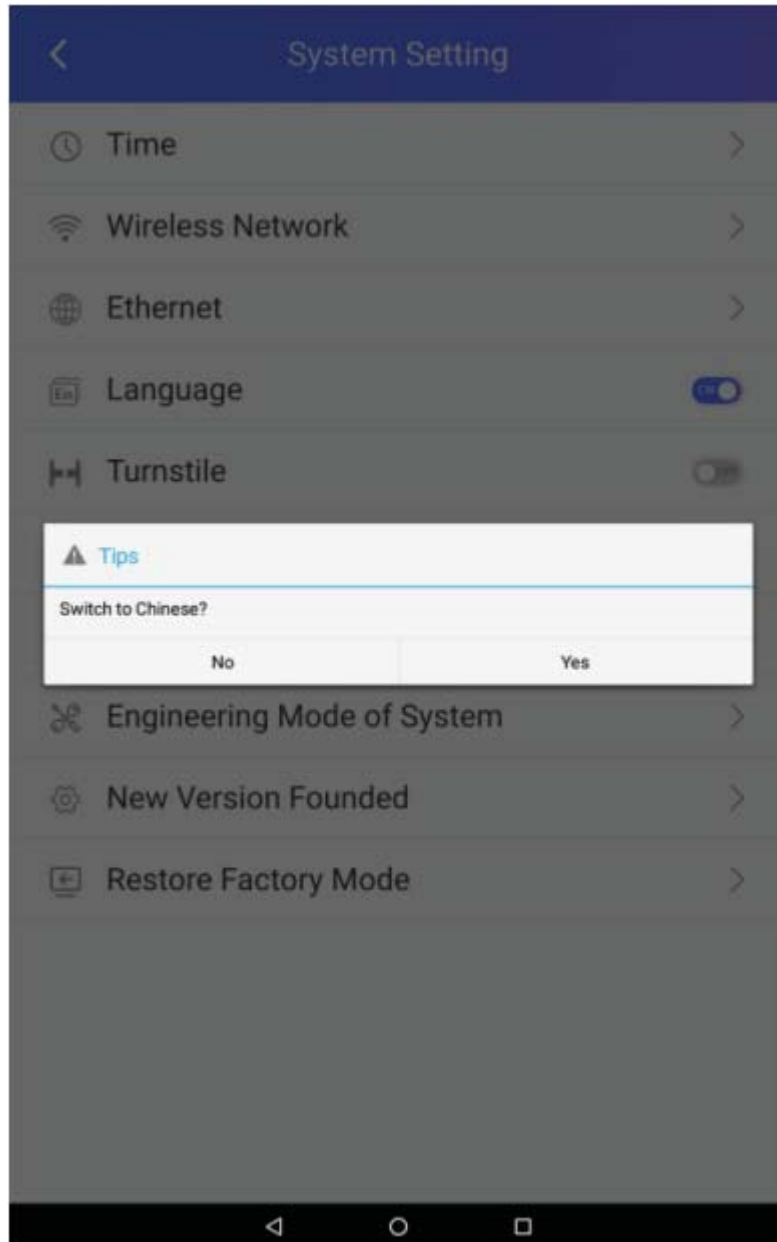
a) Please touch "Language" button to set English or Chinese. (Pic. 34)



(Pic. 34 )

## 4. Function

b) Touch “Yes” button, device will restart and switch to the language that you need. (Pic. 35)



( Pic. 35 )

## 4. Function

### 4.2.4.5 Turnstile

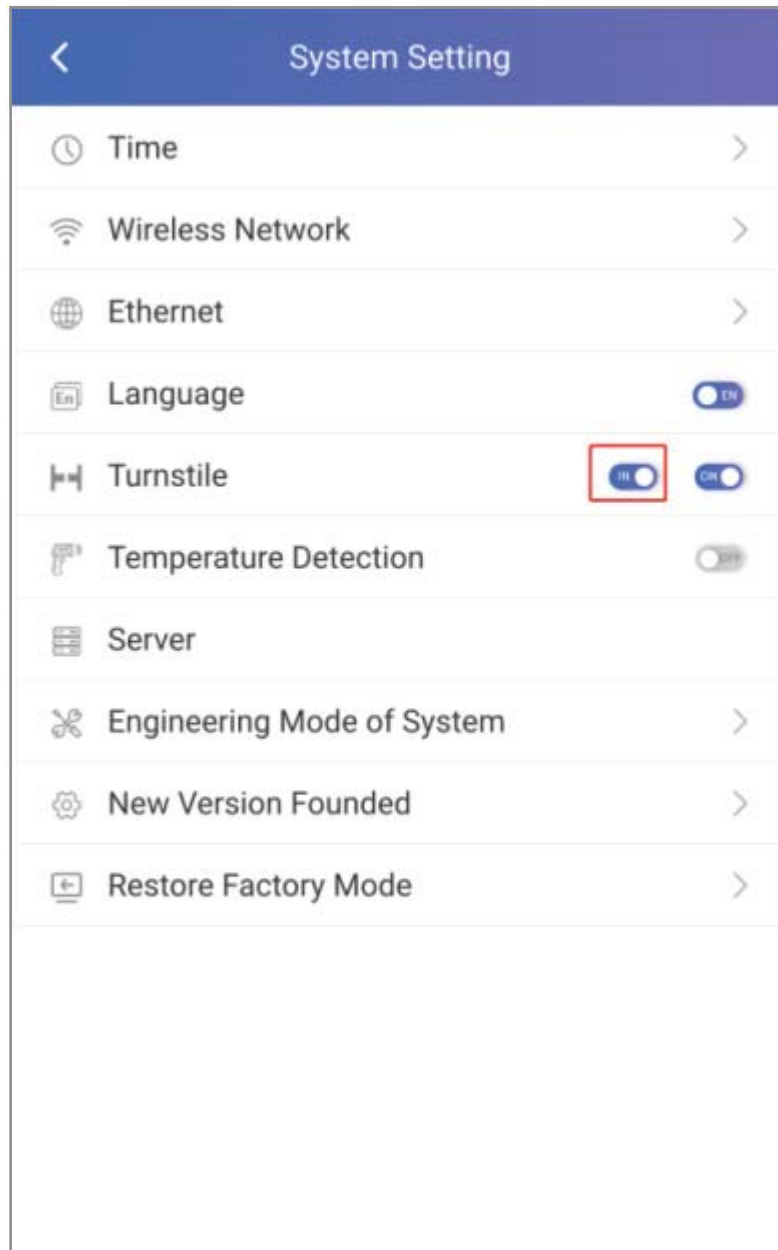
a) Please open “Turnstile” button, device will open turnstile channel after users verified successfully. (Pic. 36)



(Pic. 36)

## 4. Function

b) Touch “On” or “Off” button, able to set the opening direction of Turnstile. (Pic. 37)

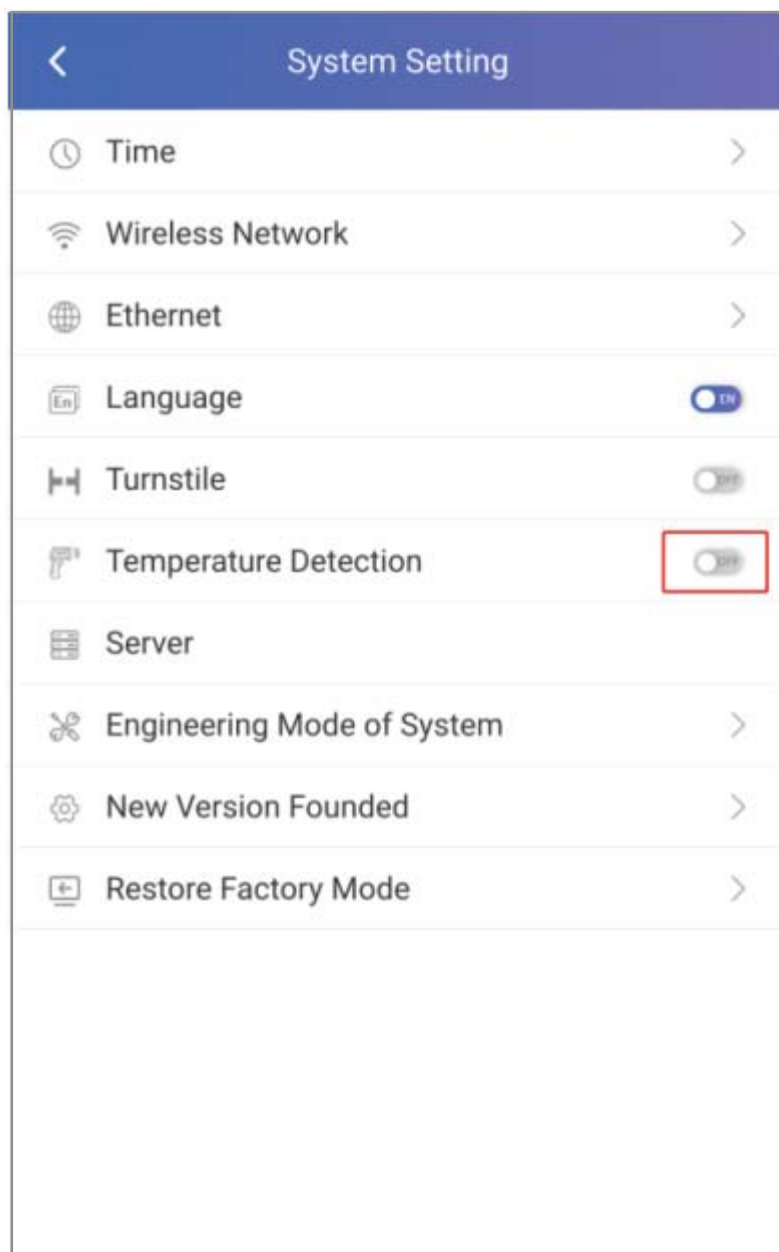


( Pic. 37 )

## 4. Function

### 4.2.4.6 Temperature Detection

a) Please open Temperature Detection function when device is matched with temperature module, device will detect the user's body temperature after the user verified successfully. (Pic. 38)

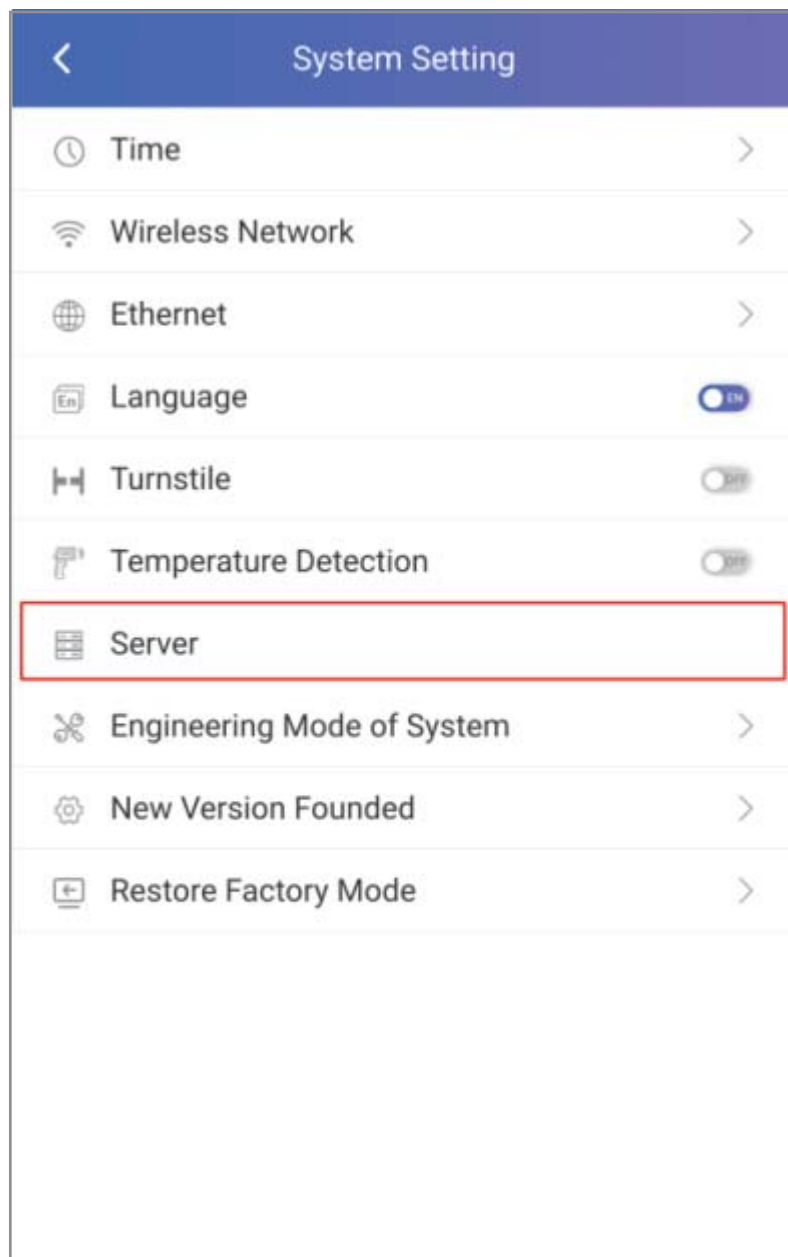


( Pic. 38 )

## 4. Function

### 4.2.4.7 Server

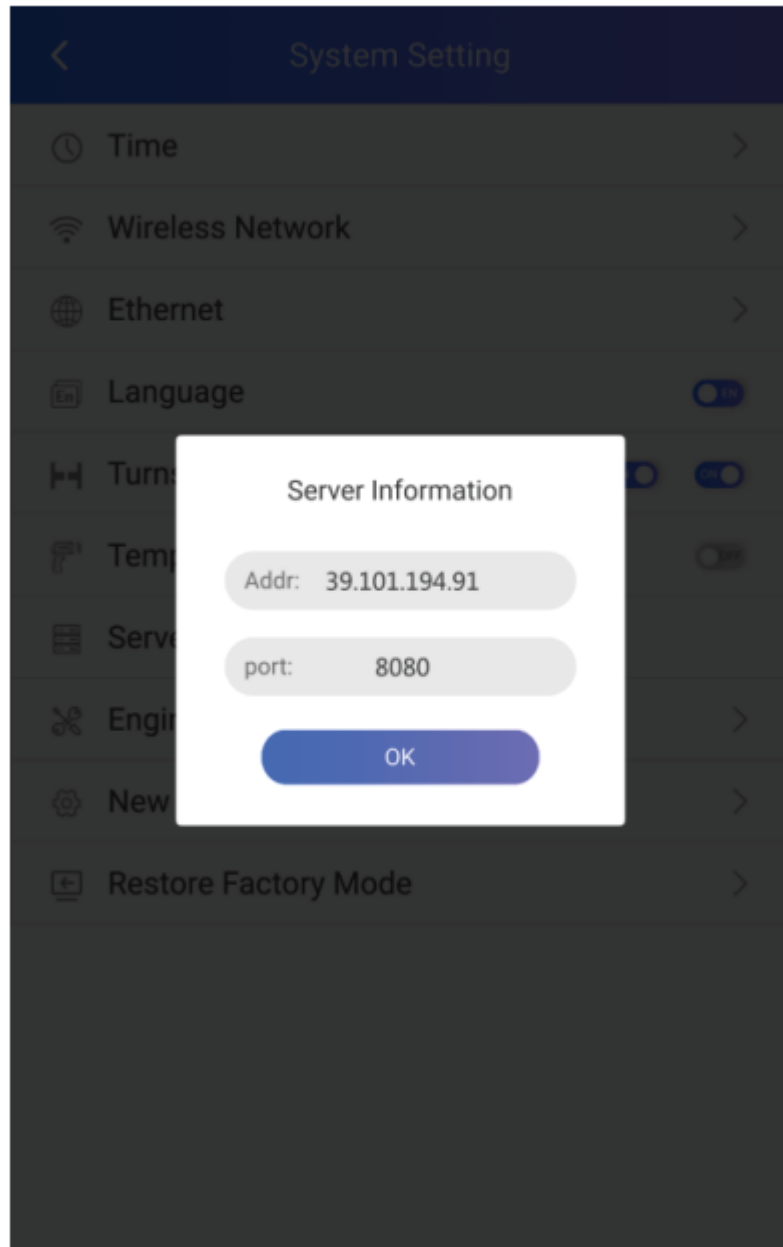
a) Please touch “Server” and enter Server setting interface. (Pic. 39)



(Pic. 39 )

## 4. Function

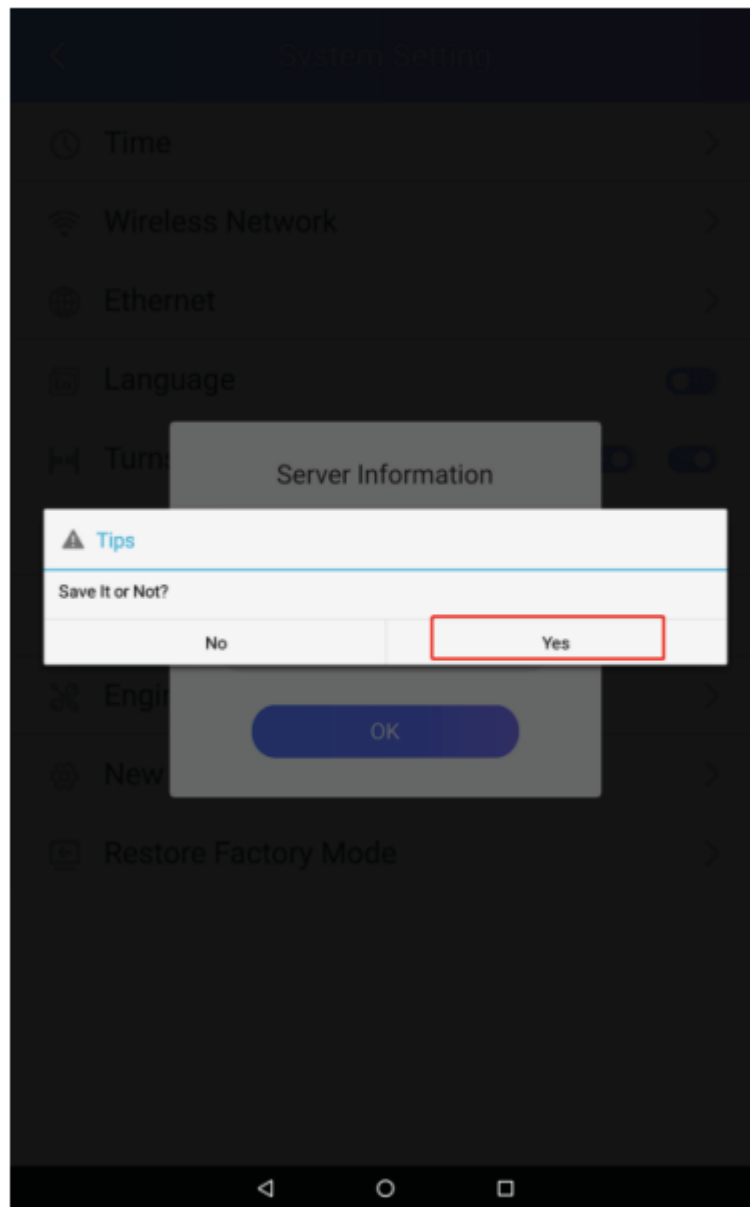
b) Touch “OK” button after input input Server address and port info.(Pic. 40)



(Pic. 40)

## 4. Function

c) Touch “Yes” button, device will save Server information and will connect Server automatically after Wi-Fi connected. (Pic. 41)



( Pic. 41 )

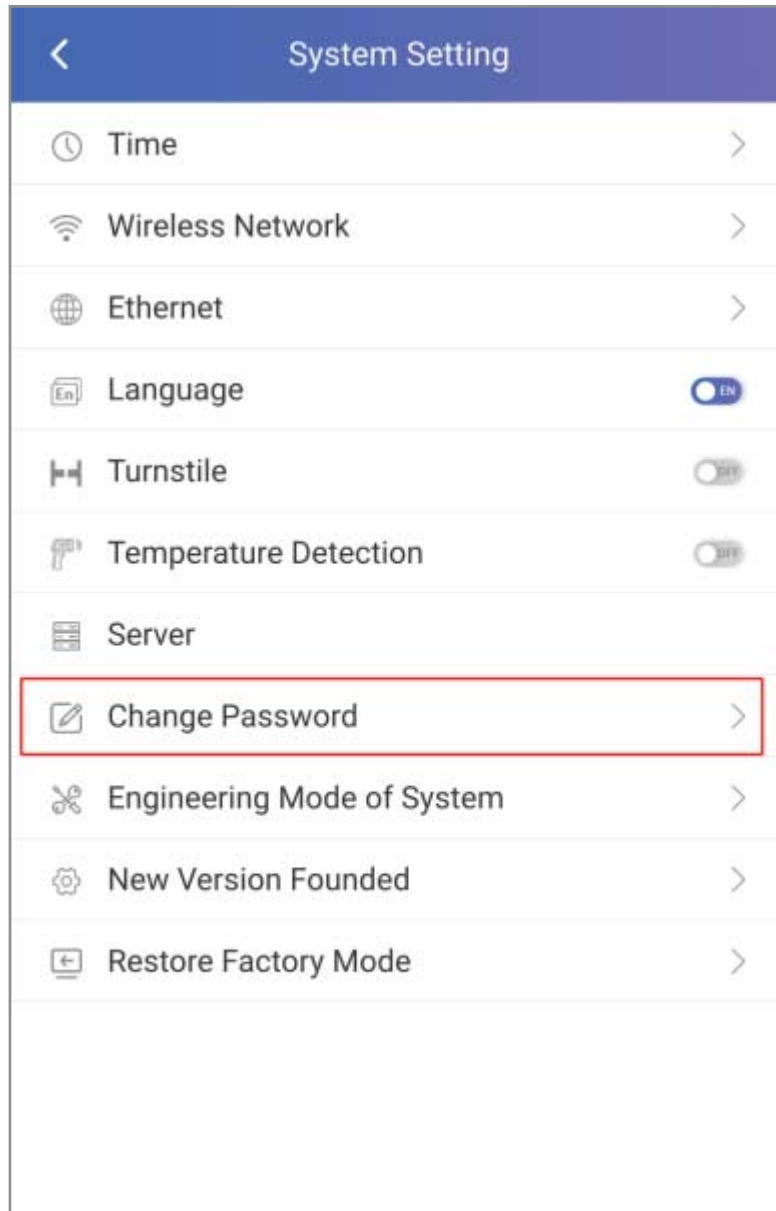
Notice:

If the device have been registered on Server, device will clear the saved datas once change the server information.

## 4. Function

### 4.2.4.8 Change Password

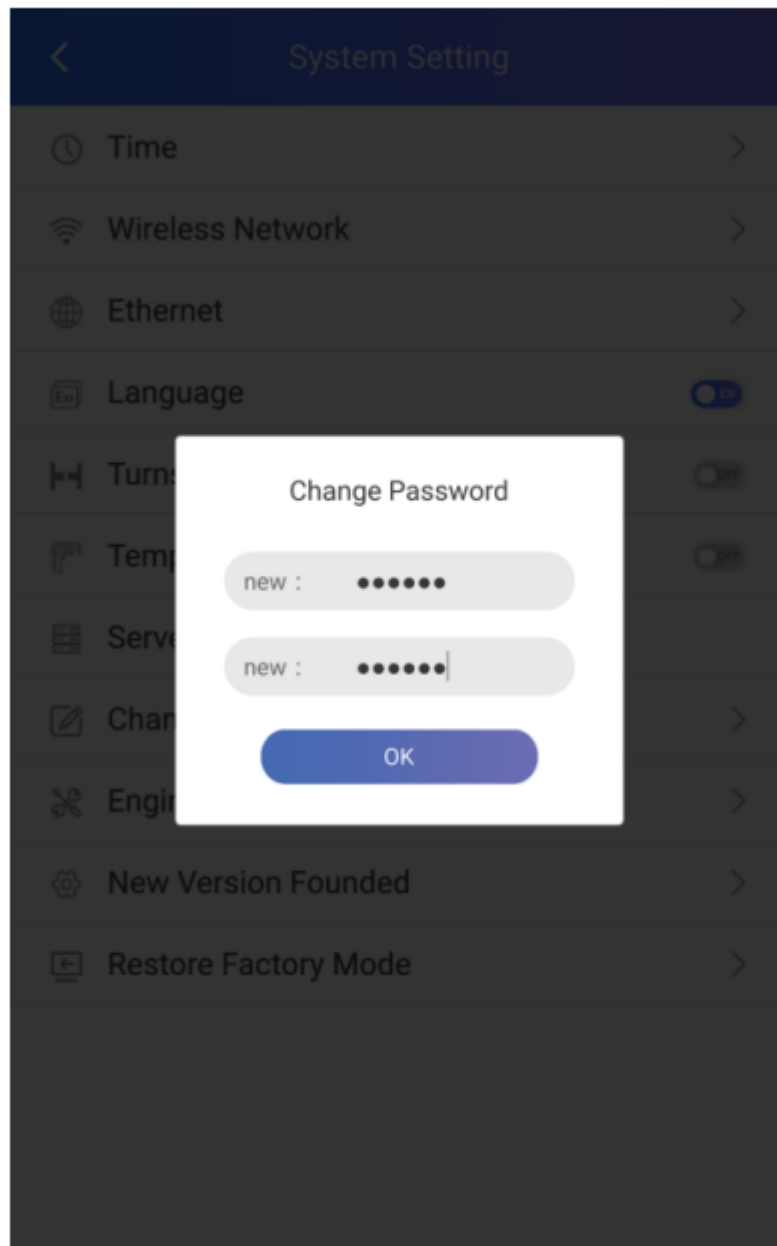
a) Please touch “Change Password”. (Pic. 42)



(Pic. 42)

## 4. Function

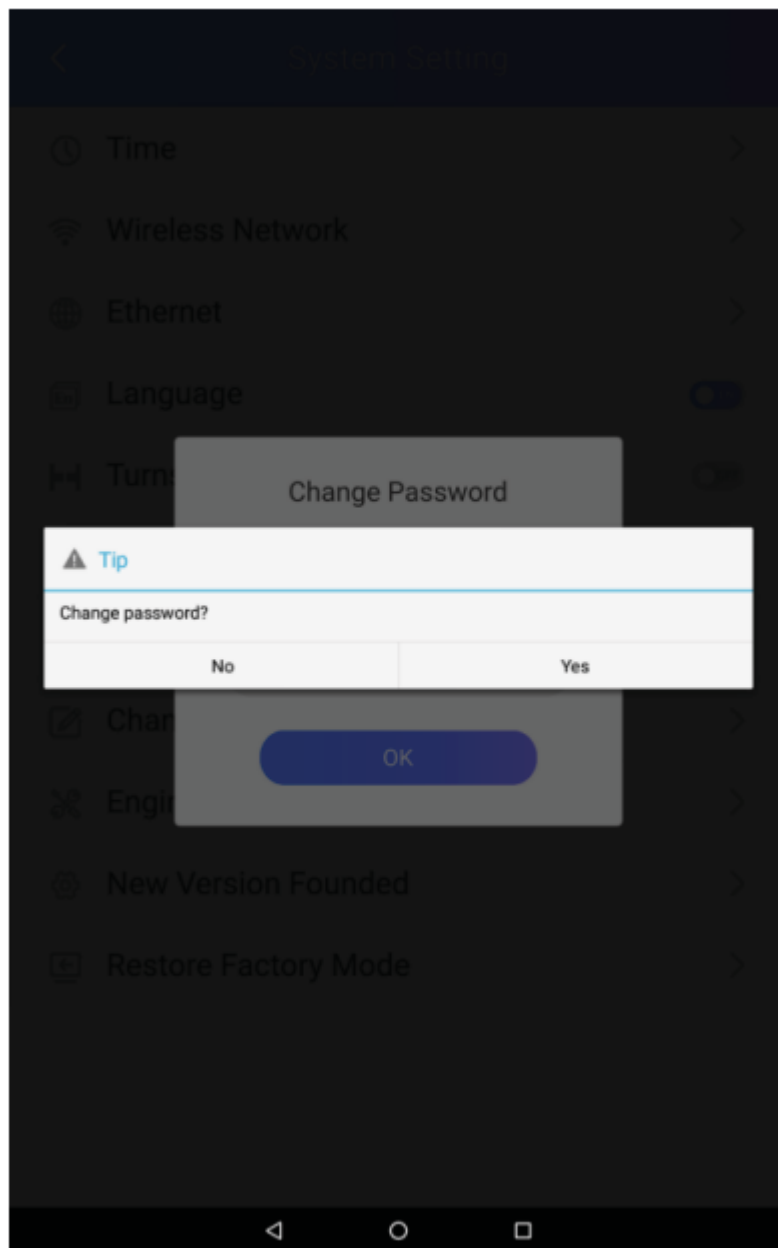
b) Please input the same password twice. (Pic. 43)



( Pic. 43 )

## 4. Function

c) Please touch “Yes” to change the password. (Pic. 44)

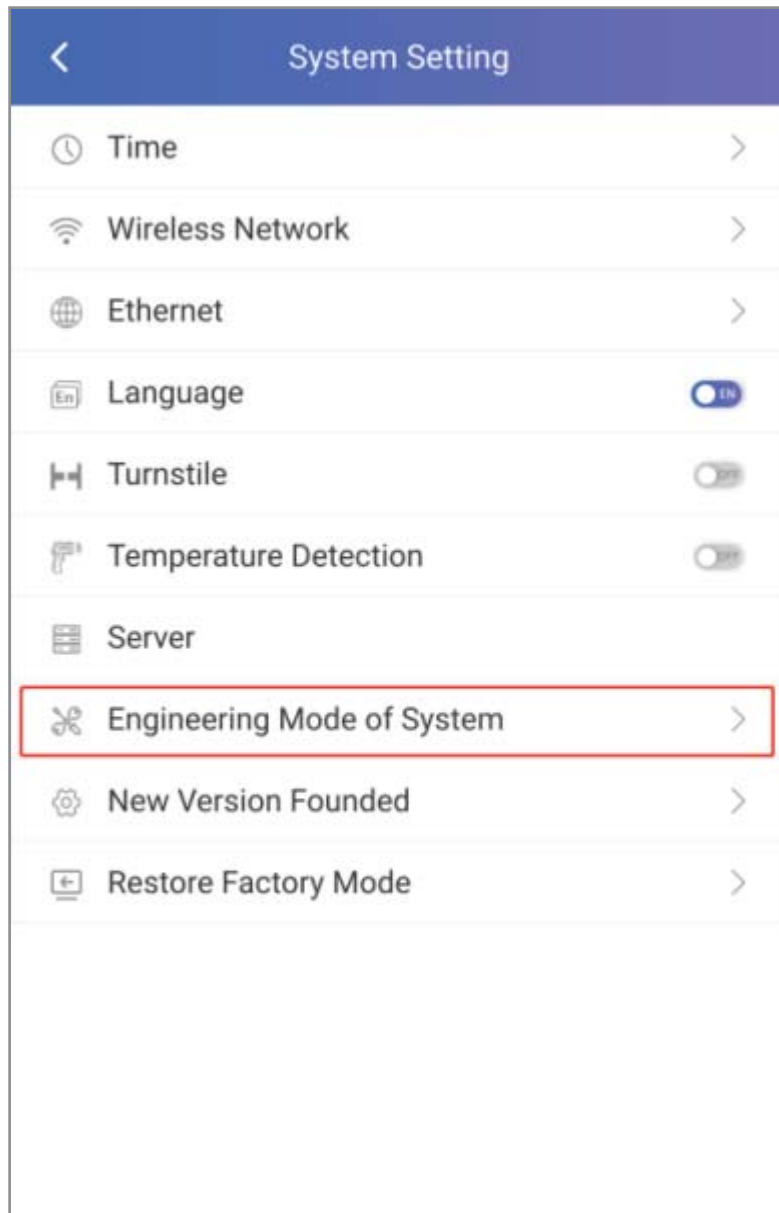


( Pic. 44 )

## 4. Function

### 4.2.4.9 Engineering Mode of System

a) Please touch “Engineering Mode of System”, device will enter System engineering interface. (Pic. 45)



(Pic. 45)

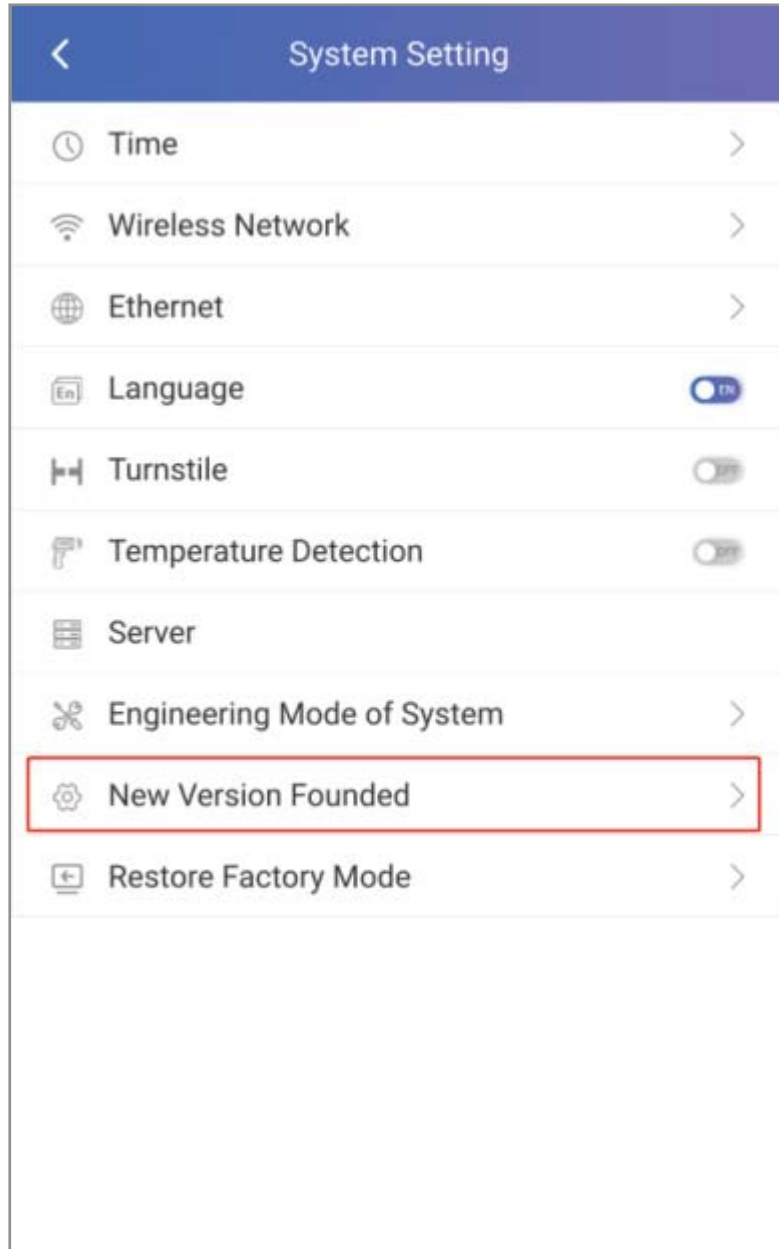
Notice:

The engineering mode of system is used by maintenance staff.

## 4. Function

### 4.2.4.10 System Upgrade

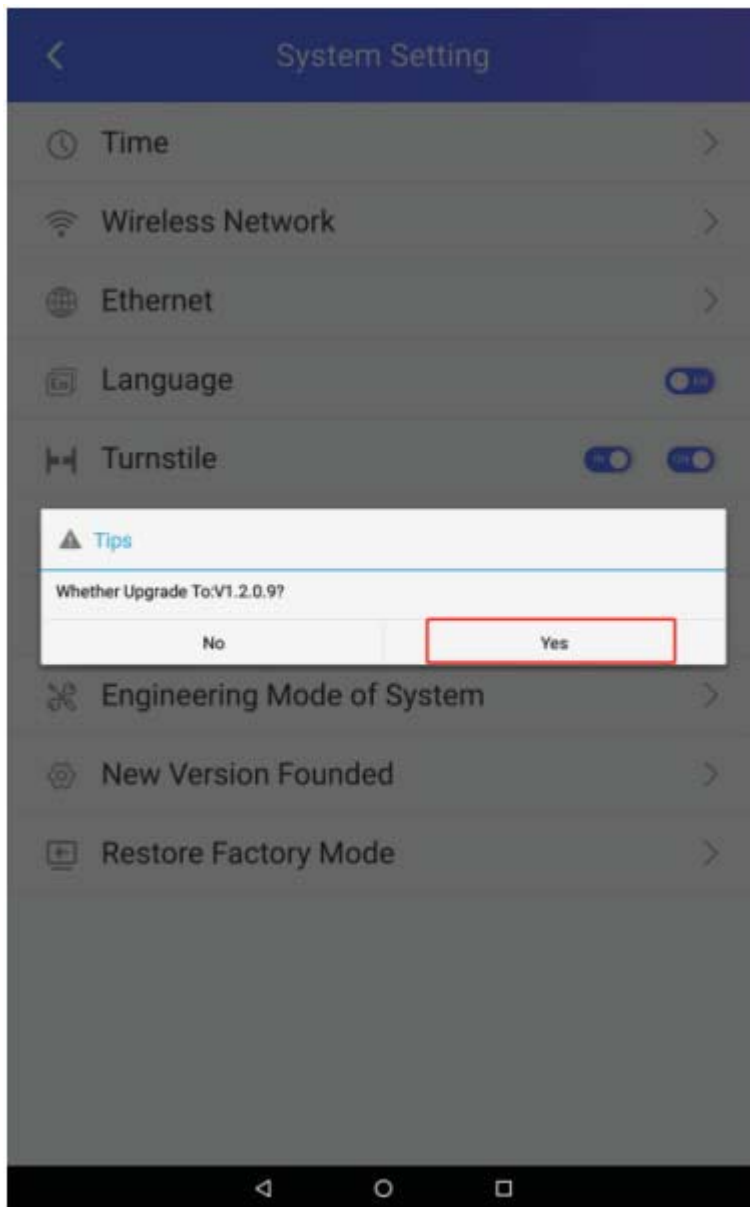
a) Please touch “New Version Founded”, device will check whether there is a new version to upgrade. (Pic. 46)



( Pic. 46 )

## 4. Function

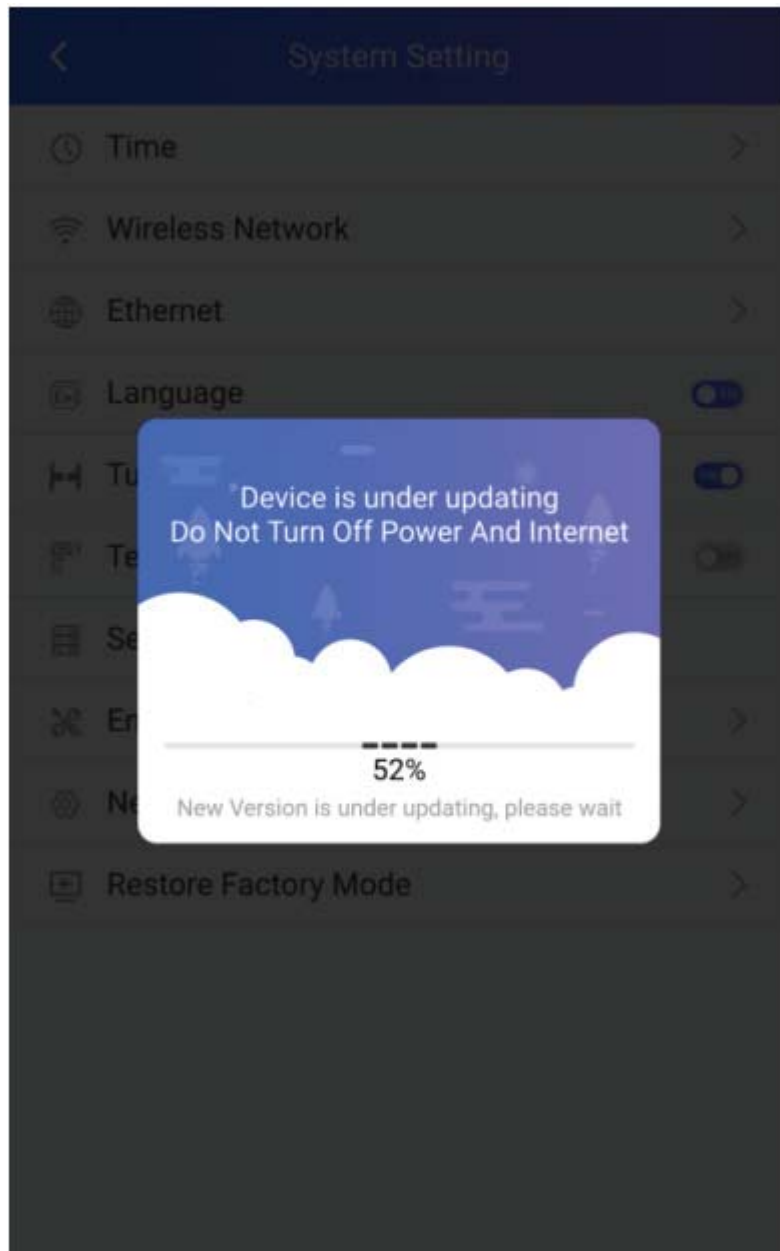
b) If there is a new version, please touch “Yes”. (Pic. 47)



( Pic. 47 )

## 4. Function

c) Device enters upgrading mode. (Pic. 48)



(Pic. 48 )

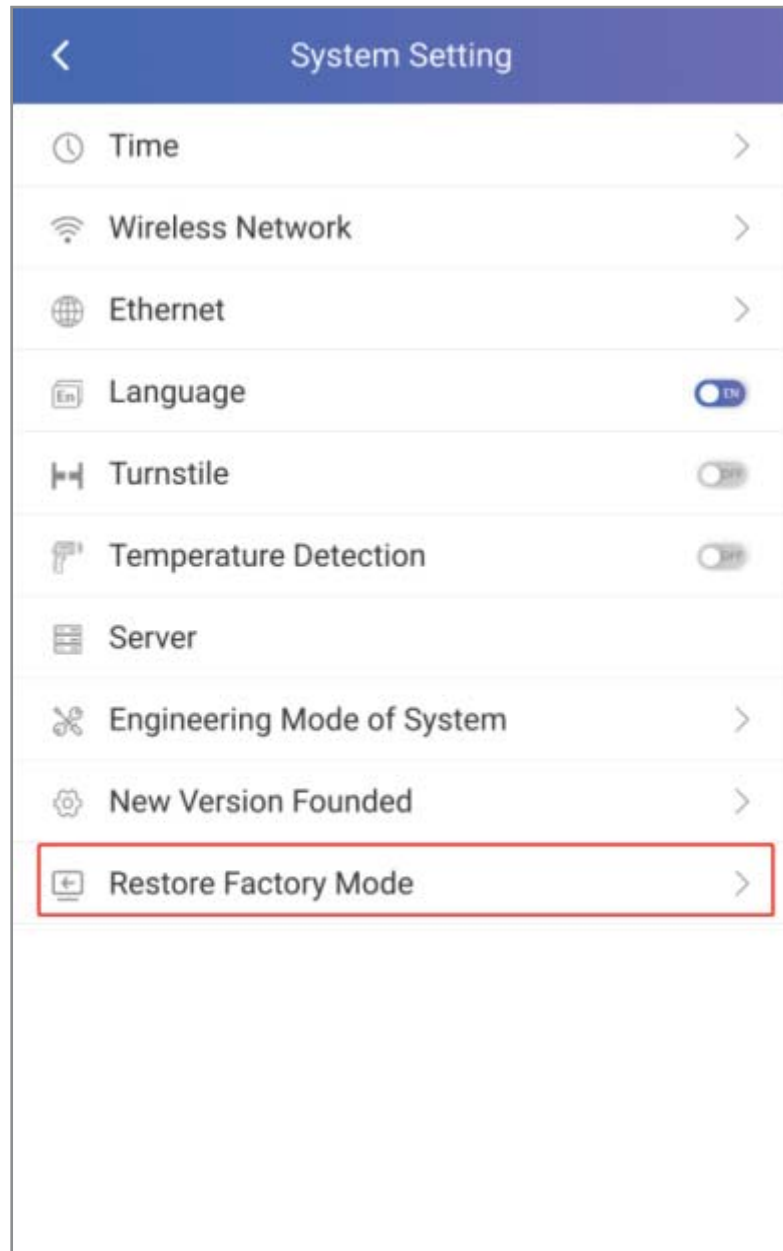
Notice:

During the upgrade, please do not turn off the power and network.

## 4. Function

### 4.2.4.11 Restore Factory Setting

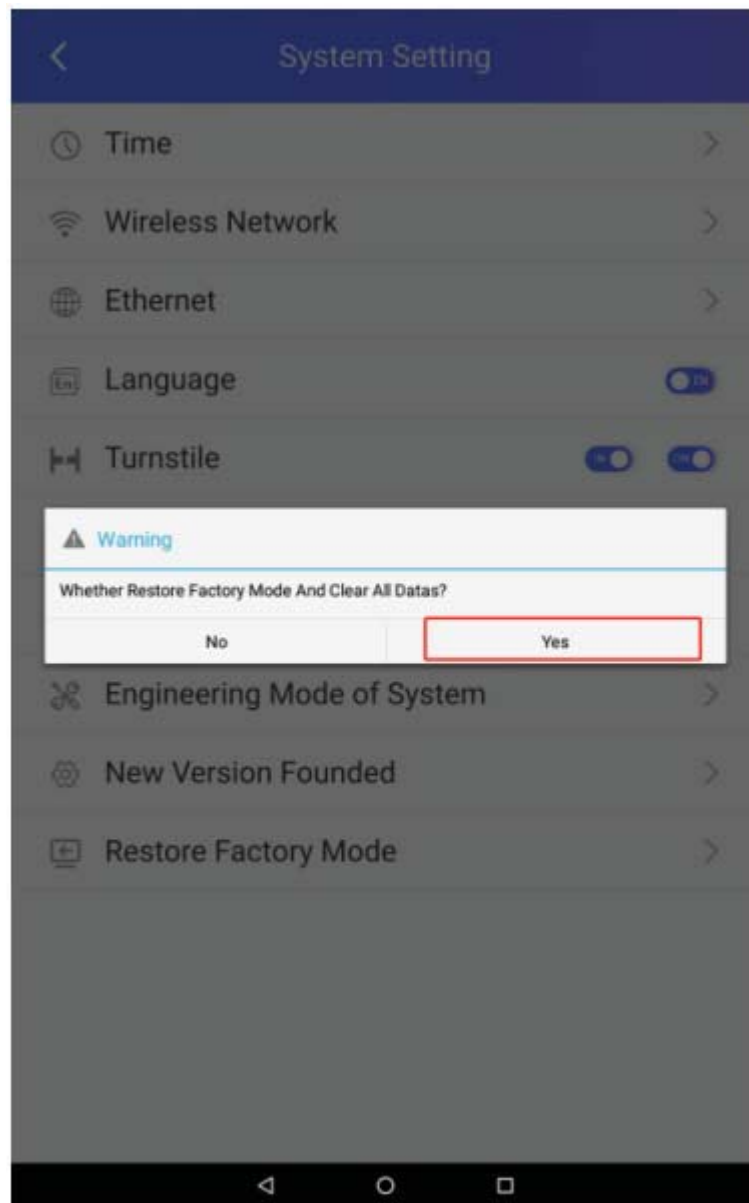
a) Please touch “Restore Factory Mode”. (Pic. 49)



(Pic. 49)

## 4. Function

b) Touch “Yes” button, device will clear the local data and unbound server. (Pic. 50)



( Pic. 50)

## 4. Function

### 4.3 Face recognition

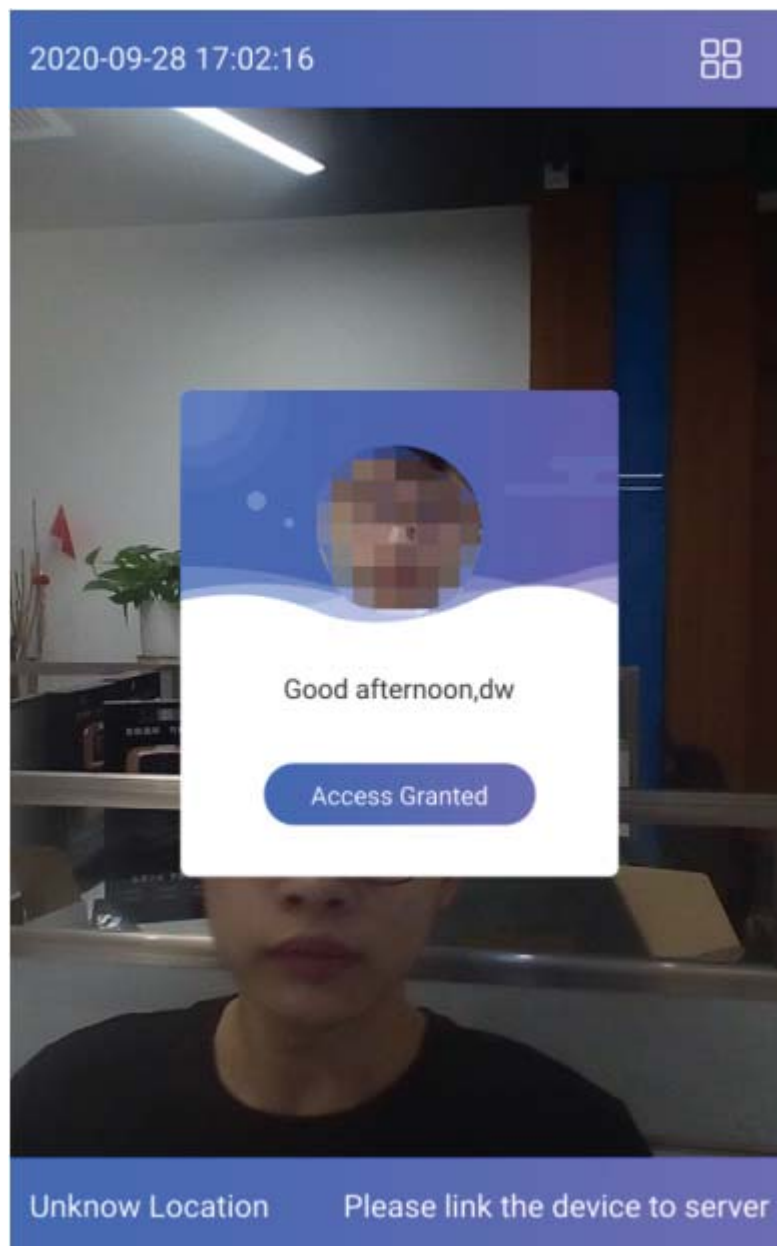
a) In the Standby interface, the face is facing the camera, and a recognition box will appear around the face. (Pic. 51)



(Pic. 51)

## 4. Function

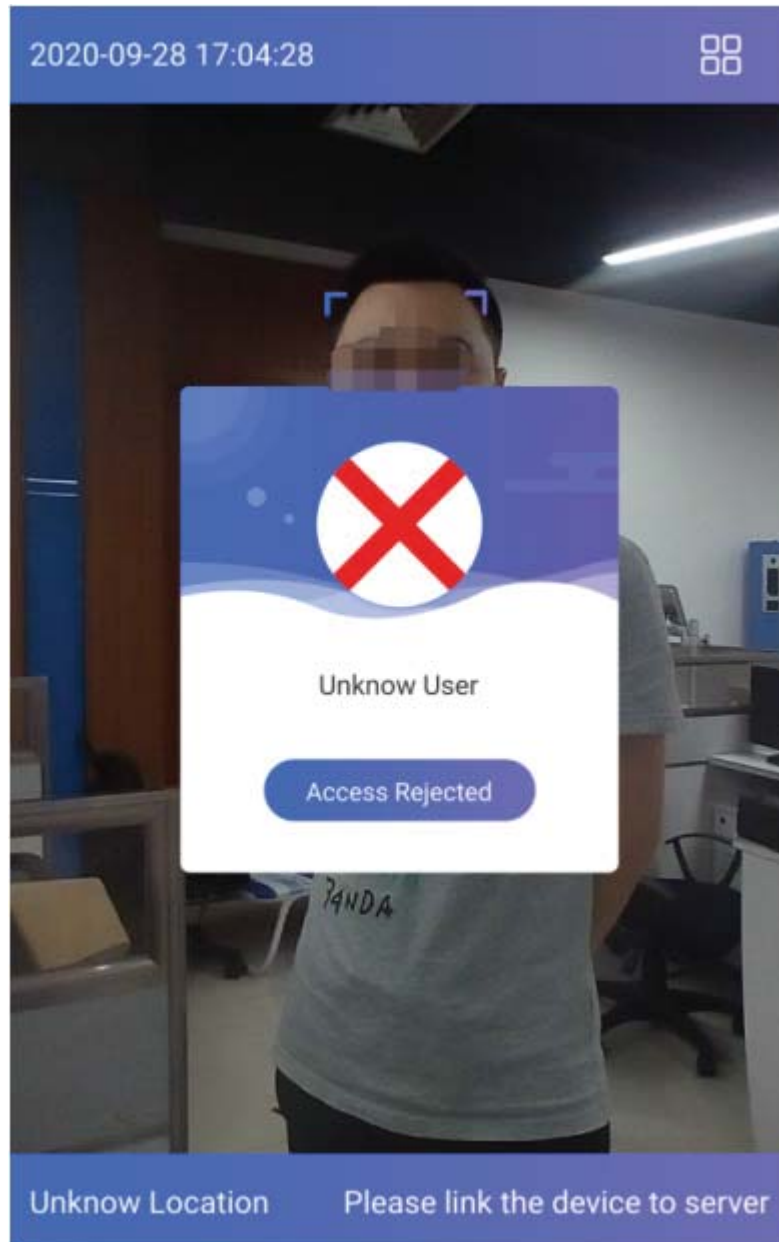
b) If the user was registered, device will verify successfully. (Pic.52)



( Pic.52 )

## 4. Function

c) If the user was not registered, device will display “Unkown User”.  
(Pic. 53)



( Pic. 53 )

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Eco-Technology Park, Nanshan, Shenzhen, China



## Warning:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

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

NOTE: This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter

## RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter