User Manual

SenseFace 4 Series

Date: August 2025

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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.

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The product will be updated from time to time without prior notice. The latest operation procedures and relevant documents are available on http://www.zkteco.com.

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

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To know more about our global branches, visit www.zkteco.com.

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 template-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 **SenseFace 4 Series**.

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

Features and parameters with ★ are not available in all devices.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

For Software	
Convention	**Description**
Bold font	Used to identify software interface template names e.g. **OK**, **Confirm**, **Cancel**.
>	Multi-level menus are separated by these brackets. For example, File > Create > Folder.
For Device	
Convention	**Description**
< >	Button or key names for devices. For example, press <OK>.
[ ]	Window names, menu items, data table, and field names are inside square brackets. For example, pop up the [New User] window.
/	Multi-level menus are separated by forwarding slashes. For example, File/Create/Folder.

Symbols

Convention	Description
	This represents a note that needs to pay more attention to.
	The general information which helps in performing the operations faster.
	The information which is significant.
	Care taken to avoid danger or mistakes.
	The statement or event that warns of something or that serves as a cautionary example.

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Data Security Statement

ZKTeco, as a smart product supplier, may also need to know and collect some of your personal information to better assist you in using ZKTeco's goods and services, and will treat your privacy carefully by developing a Privacy Policy.

Please read and understand completely all the privacy protection policy regulations and key points that appear on the device before using ZKTeco products.

As a product user, you must comply with applicable laws and regulations related to personal data protection when collecting, storing, and using personal data, including but not limited to taking protective measures for personal data, such as performing reasonable rights management for devices, strengthening the physical security of device application scenarios, and so on.

Safety Measures

The following precautions are to keep the user's safety and prevent any damage. Please read carefully before installation.

1. **Read, follow, and retain instructions** - All safety and operational instructions must be properly read and followed before bringing the device into service.
2. **Do not ignore warnings** - Adhere to all warnings on the unit and in the operating instructions.
3. **Accessories** - Use only manufacturer-recommended or product-sold accessories. Please do not use any other components other than manufacturer suggested materials.
4. **Precautions for the installation** – Do not place this device on an unstable stand or frame. It may fall and cause serious injury to persons and damage to the device.
5. **Service** - Do not try to service this unit yourself. Opening or removing covers may expose you to hazardous voltages or other hazards.
6. **Damage requiring service** - Disconnect the system from the main AC or DC power source and refer service personnel under the following conditions:
   - When cord or connection control is affected.
   - When the liquid was spilled, or an item dropped into the system.
   - If the system is exposed to water and/or inclement weather conditions (rain, snow, and more).
   - If the system is not operating normally under operating instructions.

Just change controls defined in operating instructions. Improper adjustment of other controls may result in damage and involve a qualified technician to return the device to normal operation.

7. **Replacement parts** - When replacement parts are required, service technicians must only use replacement parts provided by the supplier. Unauthorized substitutes can lead to the risk of burns, electric shock, or other hazards.
8. **Safety check** - On completion of service or repair work on the unit, ask the service technician to

perform safety checks to ensure proper operation of the unit.

9. **Power sources** - Operate the system only from the label's power source form. If the sort of power supply to use is unclear, call your dealer.
10. **Lightning** – Can install external lightning conductors to protect against electrical storms. It stops power-ups destroying the system.

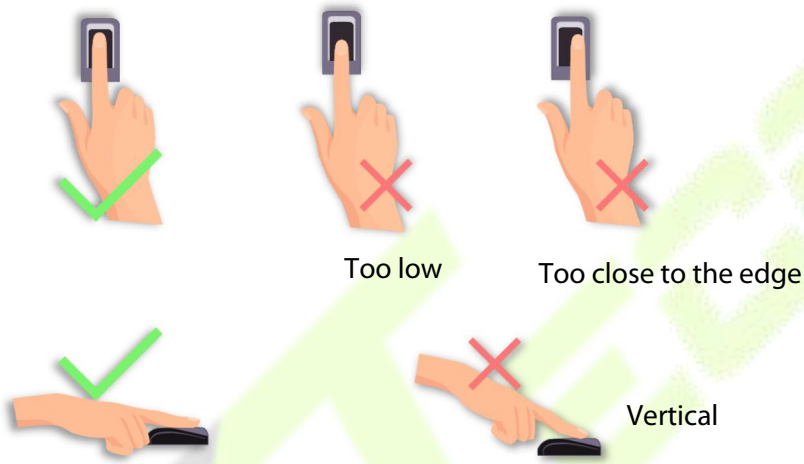
The devices should be installed in areas with limited access.

1 Instruction for Use

Before getting into the Device features and functions, it is recommended to be familiar with the below fundamentals.

1.1 Finger Positioning

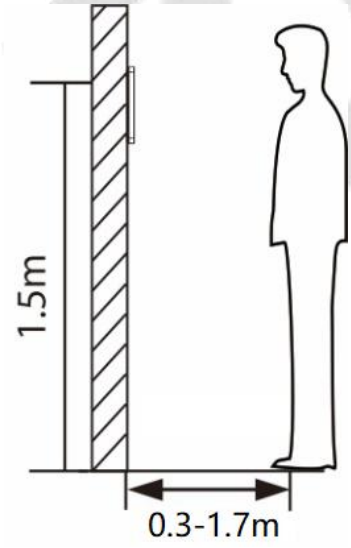
Recommended fingers: The index, middle, or ring fingers are recommended fingers to use, and avoid using the thumb or pinky, as they are difficult to position correctly onto the fingerprint reader.



Note: *Please use the correct method when pressing your fingers onto the fingerprint reader for registration and identification. Our company will assume no liability for recognition issues that may result from incorrect usage of the product. We reserve the right of final interpretation and modification concerning this point.*

1.2 Standing Position, Posture and Facial Expression

- **The recommended distance**



The distance between the device and a user whose height is in a range of 1.55 m to 1.85 m is recommended to be 0.3 m to 1.7 m. Users may slightly move forward or backward to improve the quality of facial images captured.

- **Recommended standing posture and facial expression:**

Standing Posture

Facial Expression

Note: *During enrollment and verification, please remain natural facial expression and standing posture.*

1.3 Face Template Registration

Please make sure that the face template in the centre of the screen during registration. Please face towards the camera and stay still during face template registration. The screen should look like the image below:

Correct face template registration and authentication method

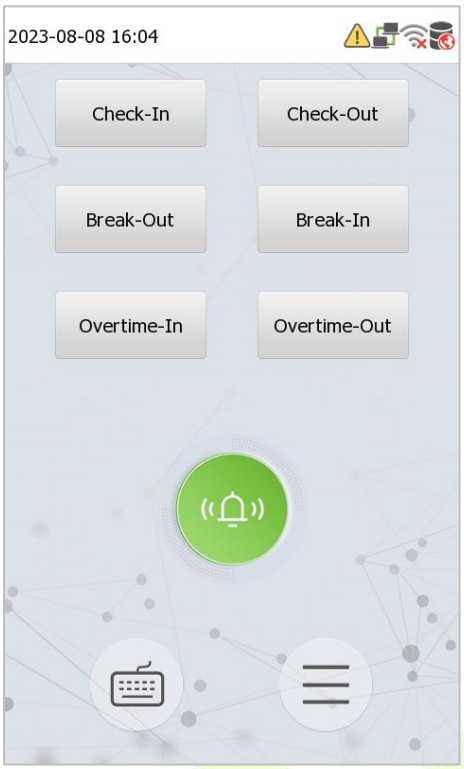
- **Recommendation for Registering a Face Template**
  - When registering a face template, maintain a distance of 40 cm to 80 cm space between the device and the face template.
  - Be careful not to change your facial expression. (Smiling face template, drawn face template, wink, etc.)
  - If you do not follow the instructions on the screen, the face template registration may take longer or may fail.
  - Be careful not to cover the eyes or eyebrows.
  - Do not wear hats, masks, sunglasses, or eyeglasses.
  - Be careful not to display two face templates on the screen. Register one person at a time.
  - It is recommended for a user wearing glasses to register both face templates with and without glasses.
- **Recommendation for Authenticating a Face Template**
  - Ensure that the face template appears inside the guideline displayed on the screen of the device.
  - If the glasses have been changed, authentication may fail. If the face template without glasses has been registered, authenticate the face template without glasses further. If the face template with glasses has been registered, authenticate the face template with the previously worn glasses.
  - If a part of the face template is covered with a hat, a mask, an eye patch, or sunglasses, authentication may fail. Do not cover the face template, allow the device to recognize both the eyebrows and the face template.

1.4 Standby Interface

After connecting the power supply, the following standby interface template is displayed:

- Click icon to enter the User ID input interface template.
- When there is no Super Administrator set in the device, tap icon to go to the menu.
- After setting the Super Administrator on the device, it requires the Super Administrator's verification before entering the menu functions.

  ***Note**: For the security of the device, it is recommended to register super administrator the first time you use the device.*
- On the standby interface template, the punch state options can also be shown and used directly. Click anywhere on the screen apart from the icons, and six shortcut keys appears on the screen, as shown in the figure below:



- Press the corresponding punch state key to select your current punch state, which is displayed in green.

Note: *The device type needs to be set as an attendance terminal, and the punch state options are off by default and need to be changed to other option in the "7.4 Punch States Options" to get the punch state options on the standby screen.*

1.5 Virtual Keyboard

Note:

The device supports the input in Chinese language, English language, numbers, and symbols.

- *Click **EN** to switch to the English keyboard.*
- *Press **123** to switch to the numeric and symbolic keyboard.*
- *Click **ABC** to return to the alphabetic keyboard.*
- *Click the input box, virtual keyboard appears.*
- *Click **ESC** to exit the virtual keyboard.*

1.6 Verification Mode

1.6.1 Fingerprint Verification★

Note: *This function is only for SenseFace 4A.*

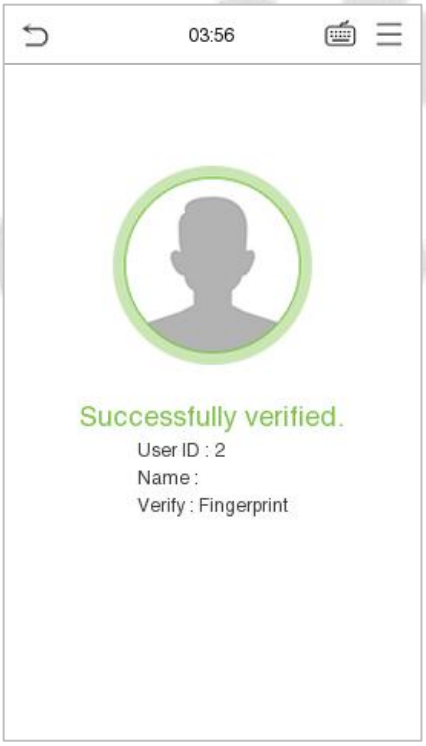
- **1: N Fingerprint Verification Mode**

The device compares the current fingerprint with the available fingerprint data stored in its database.

Fingerprint authentication mode is activated when a user places their finger onto the fingerprint scanner.

Please follow the recommended way to place your finger onto the sensor. For details, please refer to section Finger Positioning.

Verification is successful:



Verification is failed:

- **1: 1 Fingerprint Verification Mode**

The device compares the current fingerprint with the fingerprints linked to the entered User ID through the virtual keyboard

In case users are unable to gain access using the 1:N authentication method, they can attempt to verify their identity using the 1:1 verification mode.

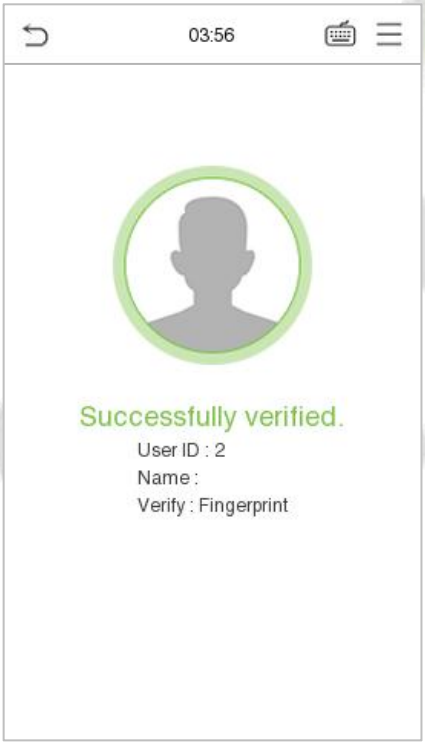
Click the button on the main screen to enter 1:1 fingerprint verification mode.

Input the user ID and press **OK**.

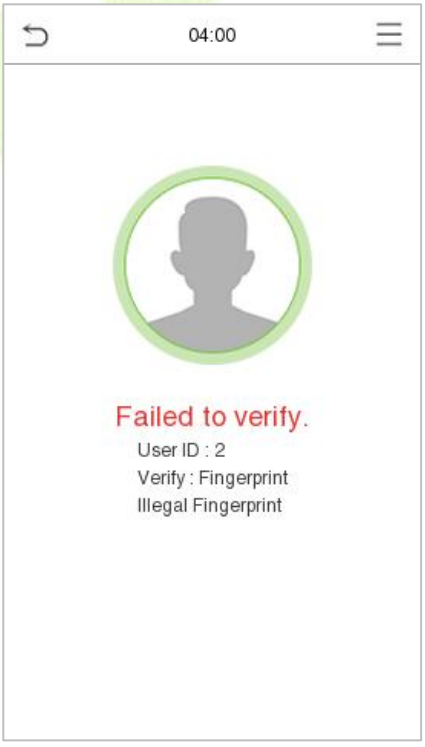
If the user has registered face template and password in addition to his/her fingerprints and the verification method is set to password/fingerprint/card/face, the following screen will appear. Select the fingerprint icon to enter fingerprint verification mode.

Press the fingerprint to verify.

Verification is successful:



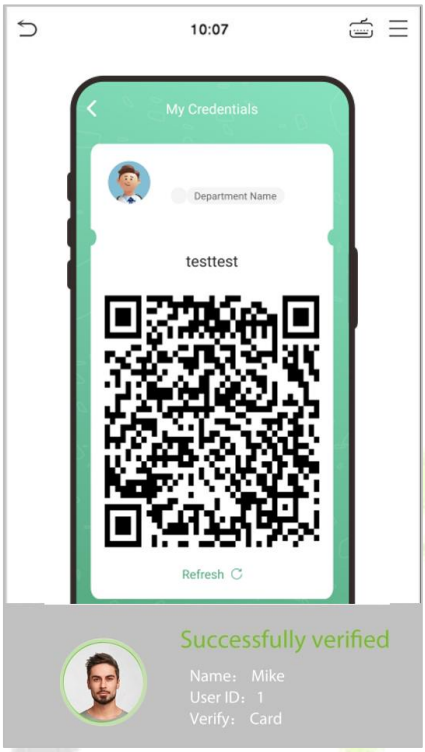
Verification is failed:



1.6.2 QR Code Verification★

Note: *This function is only for SenseFace 4C.*

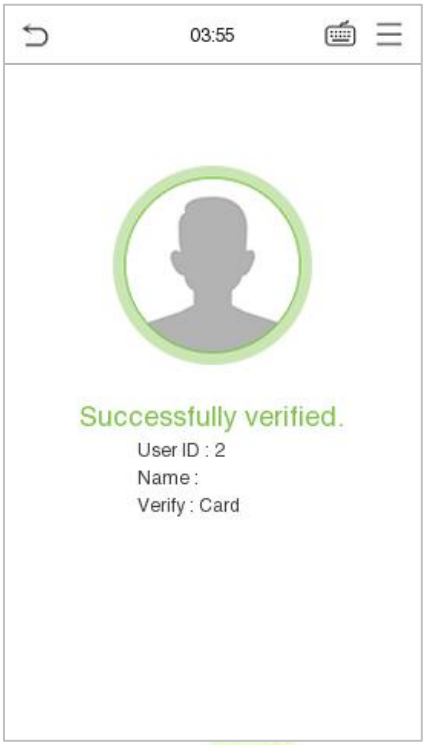
Tap **Mobile Credential** on the ZKBio Zexus Mobile Page, and a QR code will appear, which includes employee ID and card numberinformation. The QR code can replace a physical card on a specific device to achieve contactless authentication. Please refer to 15.4 Mobile Credential.



1.6.3 Card Verification

- **1:N card verification**

The 1:N card verification mode compares the card number in the card induction area with all the card number data registered in the device; The following screen displays on the card verification:



- **1:1 card verification**

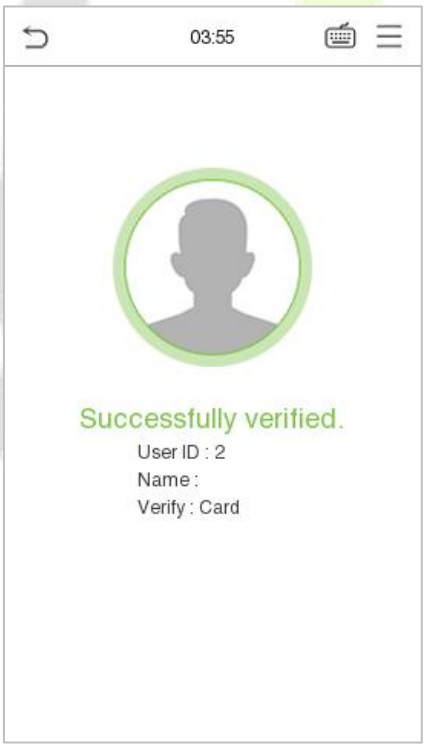
The 1:1 card verification mode compares the card number in the card induction area with the number associated with the employee's User ID registered in the device.

Press  in the main interface template to open the 1:1 card verification mode.

Enter the user ID and click **OK.**

If the user has registered face template, card and password in addition to his/her card, and the verification method is set to password/fingerprint/card/face, the following screen will appear. Select the icon to enter the card verification mode.

After successful verification, the prompt box displays "**Successfully verified**", as shown below:



1.6.4 Facial Verification

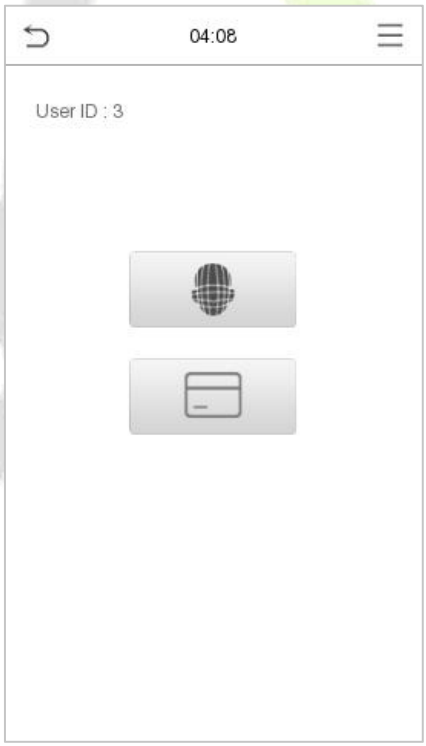
- **1:N Facial Verification**

The device compares the currently acquired facial images with all the registered face template data stored in its database. The following is the pop-up prompt box displaying the result of the comparison.

- **1:1 Facial Verification**

In this verification mode, the device compares the face template captured by the camera with the facial template related to the entered user ID. Press icon in the main interface template and enter the 1:1 facial verification mode and enter the user ID and click **OK**.

If the user has registered card and password in addition to his/her face template, and the verification method is set to password/fingerprint/card/face, the following screen will appear. Select the icon to enter the face template verification mode.



After successful verification, the prompt box displays "**Successfully verified**", as shown below:

1.6.5 Password Verification

The device compares the entered password with the registered password by the given User ID.

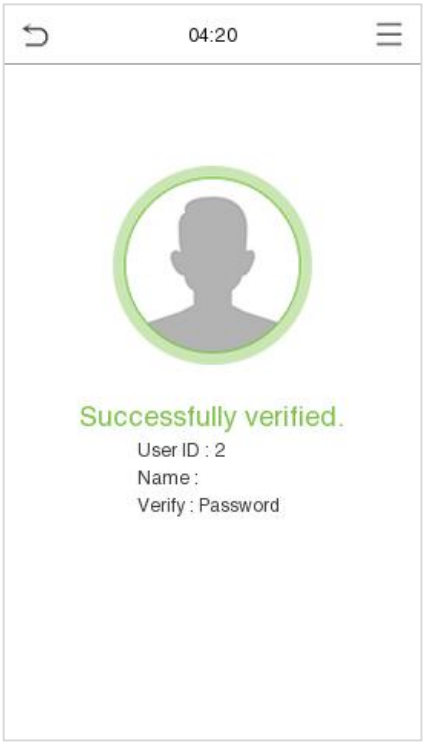
Click the button on the main screen to enter the 1:1 password verification mode. Then, input the user ID and press **OK**.

If the user has registered face template and card in addition to password, and the verification method is set to password/fingerprint/card/face, the following screen will appear. Select the icon to enter password verification mode.

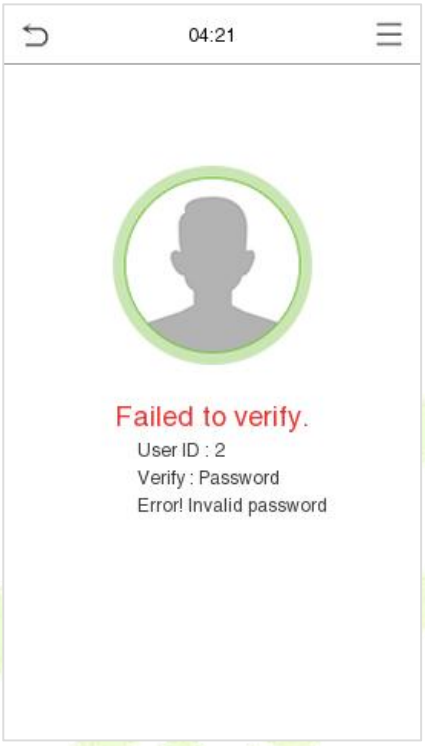
Input the password and press **OK**.

The following screen displays, after inputting a correct password and a wrong password respectively.

Verification is successful:



Verification is failed:

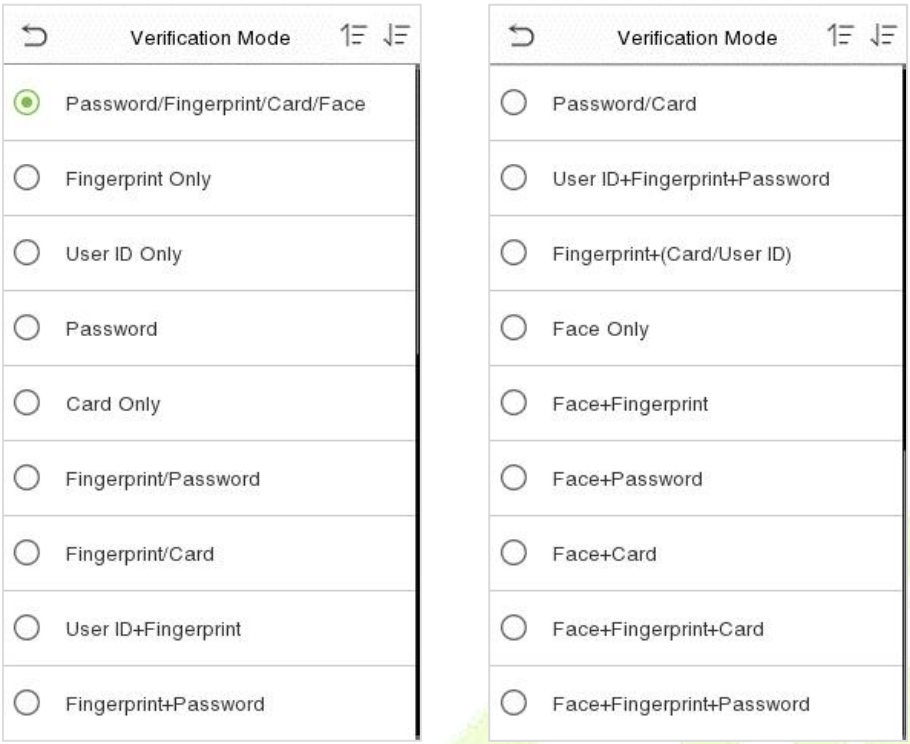


1.6.6 Combined Verification

To increase security, this device offers the option of using multiple forms of verification methods. A total of 21 different verification combinations can be used, as shown below:

Combined Verification Symbol Definition:

Symbol	Definition	Explanation
/	or	This method compares the entered verification of a person with the related verification template previously stored to that Personnel ID in the Device.
+	and	This method compares the entered verification of a person with all the verification template previously stored to that Personnel ID in the Device.



Procedure to set for Combined Verification Mode:

- Combined verification requires personnel to register all the different verification method. Otherwise, employees will not be able to successfully verify the combined verification process.
- For instance, when an employee has registered only the data, but the Device verification mode is set as "Face + Password", the employee will not be able to complete the verification process successfully.
- This is because the Device compares the scanned face template of the person with registered verification template (both the Face template and the Password) previously stored to that Personnel ID in the Device.
- But as the employee has registered only the Face template but not the Password, the verification will not get completed and the Device displays "Verification Failed".

2 Main Menu

Press ☰ on the Standby interface to enter the **Main Menu**, the following screen will be displayed:

Function Description

Menu	Descriptions
User Mgt.	To add, edit, view, and delete basic information of a User.
User Role	To set the permission scope of the custom role and enroller for the users, that is, the rights to operate the system.
COMM.	To set the relevant parameters of network, serial comm, PC connection, wireless network, cloud server, wiegand and network diagnosis.
System	To set the parameters related to the system, including date time, access logs settings/attendance, face template & fingerprint parameters★, device type settings, security settings, update firmware online, USB upgrade, and reset to factory.
Personalize	This includes user interface, voice, bell schedules, punch state options and shortcut key mappings settings.
Data Mgt.	To delete all relevant data in the device.
Intercom	To set the parameters related to the SIP and NVR.
Access Control	To set the parameters of the lock and the relevant access control device including options like time rule, holiday settings, combine verification, anti-passback setup, and duress option settings.

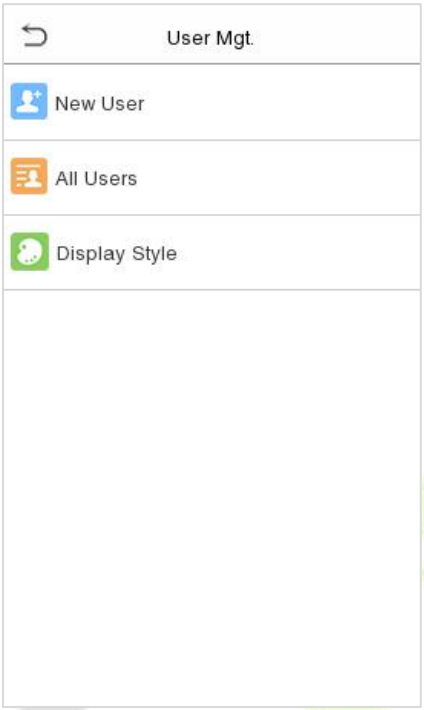
USB Manager	To upload or download the specific data by a USB drive.
Attendance Search	To query the specified event logs, check attendance photos and blocklist attendance photos.
Autotest	To automatically test whether each module functions properly, including the LCD screen, audio, microphone, camera, fingerprint sensor★ and real-time clock.
System Info	To view data capacity, device and firmware information and privacy policy of the device.

Note: *When users use the product for the first time, they should operate it after setting administrator privileges. Tap* ***User Mgt.*** *to add an administrator or edit user permissions as a super administrator. If the product does not have an administrator setting, the system will show an administrator setting command prompt every time you enter the device menu.*

3 User Management

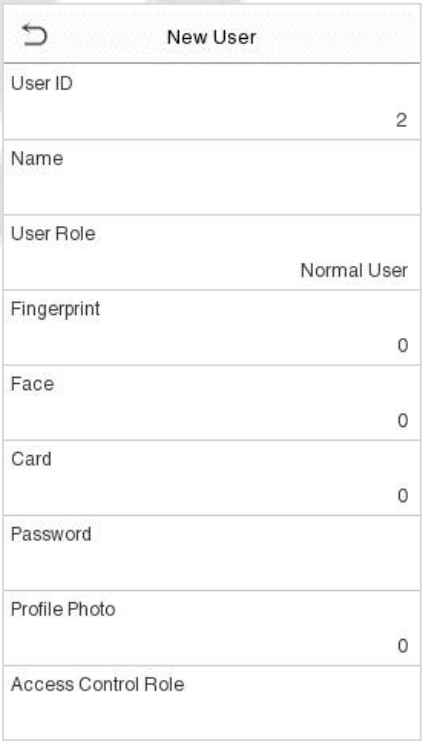
3.1 User Registration

Click **User Mgt.** on the main menu.



3.1.1 User ID and Name

Tap **New User.** Enter the **User ID** and **Name.**



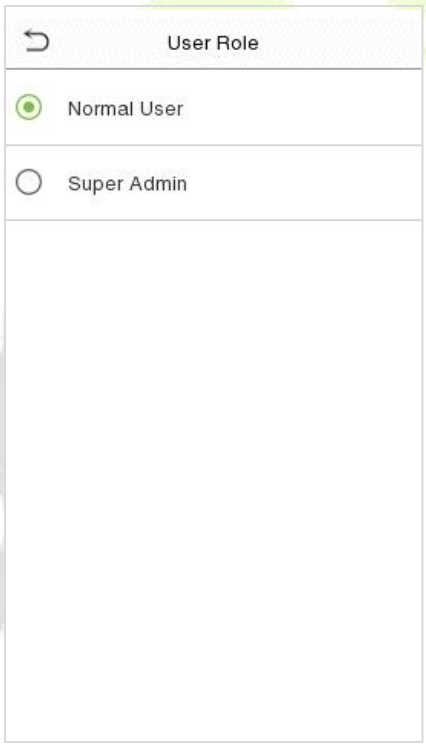
Notes:

- *A username can contain a maximum of 34 characters.*
- *The user ID may contain 1 to 14 digits by default.*
- *During the initial registration, you can modify your ID, which cannot be modified after registration.*
- *If a message "**Duplicated!**" pops up, you must choose another ID as the enter User ID already exists.*

3.1.2 User Role

On the New User interface, tap on **User Role** to set the role for the user as either **Normal User** or **Super Admin**.

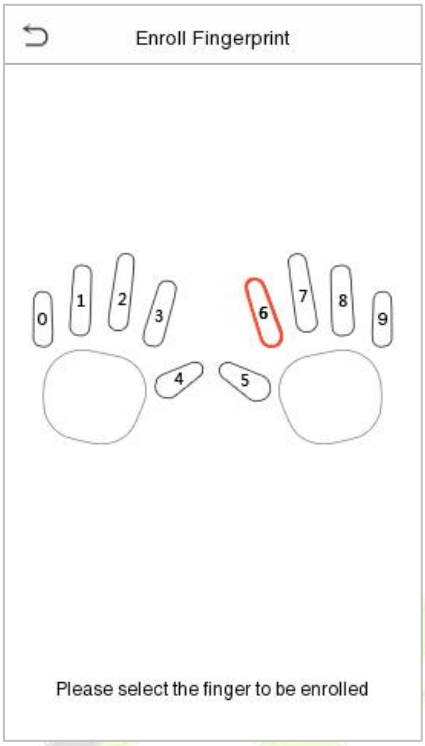
- **Super Admin:** The Super Administrator owns all management privileges in the Device.
- **Normal User:** If the Super Admin is already registered in the Device, then the Normal Users will not have the privileges to manage the system and can only access authentication verifications.
- **User Defined Roles:** The Normal User can also be set with **User Defined Role** which are the custom roles that can be set to the Normal User.



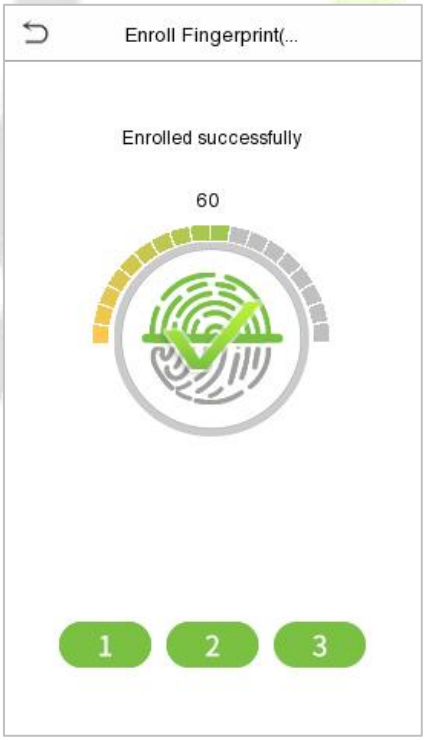
***Note:** If the selected user role is the Super Admin, the user must pass the identity authentication to access the main menu. The authentication is based on the authentication method(s) that the super administrator has registered. Please refer to 1.6 Verification Mode.*

3.1.3 Fingerprint★

Click **Fingerprint** to enter the fingerprint registration page. Select the finger to be enrolled.



Press the same finger on the fingerprint reader three times. Green indicates that the fingerprint was enrolled successfully.



3.1.4 Face Template

Tap **Face** in the **New User** interface to enter the face template registration page.

- Please face towards the camera and position your face template inside the white guiding box and stay still during face template registration.
- A progress bar shows up while registering the face template and a **"Enrolled Successfully"** is displayed as the progress bar completes.
- If the face template is registered already then, the **"Duplicate Face"** message shows up. The registration interface is as follows:

3.1.5 Card

Tap **Card** in the **New User** interface to enter the card registration page.

- On the Card interface, swiping card underneath the card reading area. The card registration will be successful.
- If the card is registered already then, the "**Duplicate Card**" message shows up. The registration interface is as follows:

3.1.6 Password

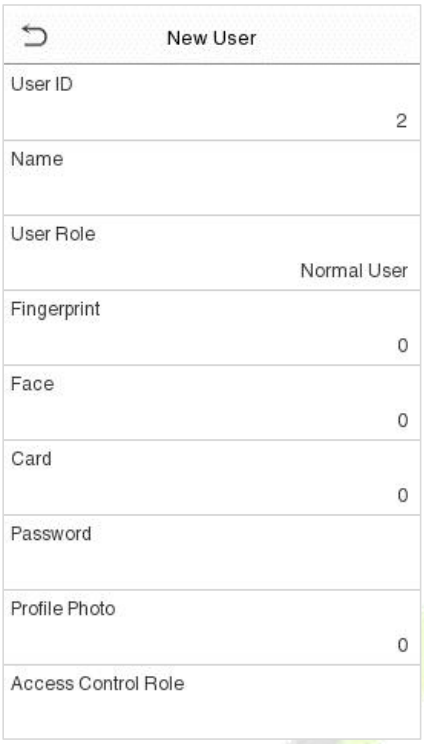
Tap **Password** in the **New User** interface to enter the password registration page.

- On the Password interface, enter the required password and re-enter to confirm it and tap **OK**.
- If the re-entered password is different from the initially entered password, then the device prompts the message as "**Password not match!**", where the user needs to re-confirm the password again.

Note: *The password may contain 6 to 8 digits by default.*

3.1.7 Profile Photo

Tap on **Profile Photo** in the **New User** interface to go to the Profile Photo registration page.



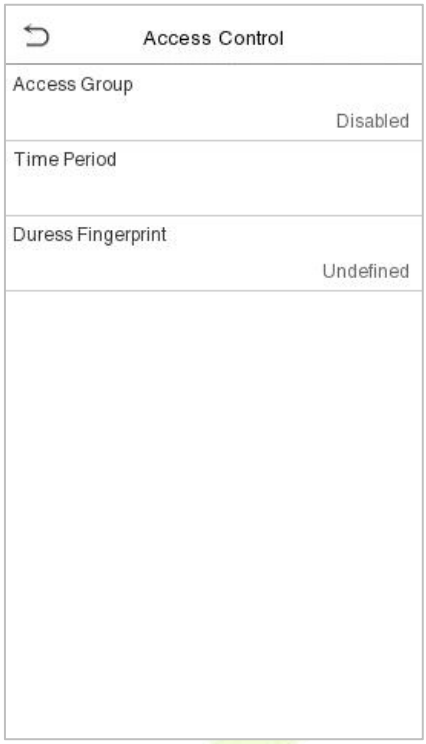
- When a user registered with a photo passes the authentication, the registered photo will be displayed.
- Tap **Profile Photo**, the device's camera will open, then tap the camera icon to take a photo. The captured photo is displayed on the top left corner of the screen and the camera opens again to take a new photo, after taking the initial photo.

Note: *While registering a face template, the system automatically captures a photo as the user profile photo. If you do not register a profile photo, the system automatically sets the photo captured while registration as the default photo.*

3.1.8 Access Control Role

The **Access Control Role** sets the door access privilege for each user. This includes the access group, duress fingerprint and facilitates to set the group access time-period.

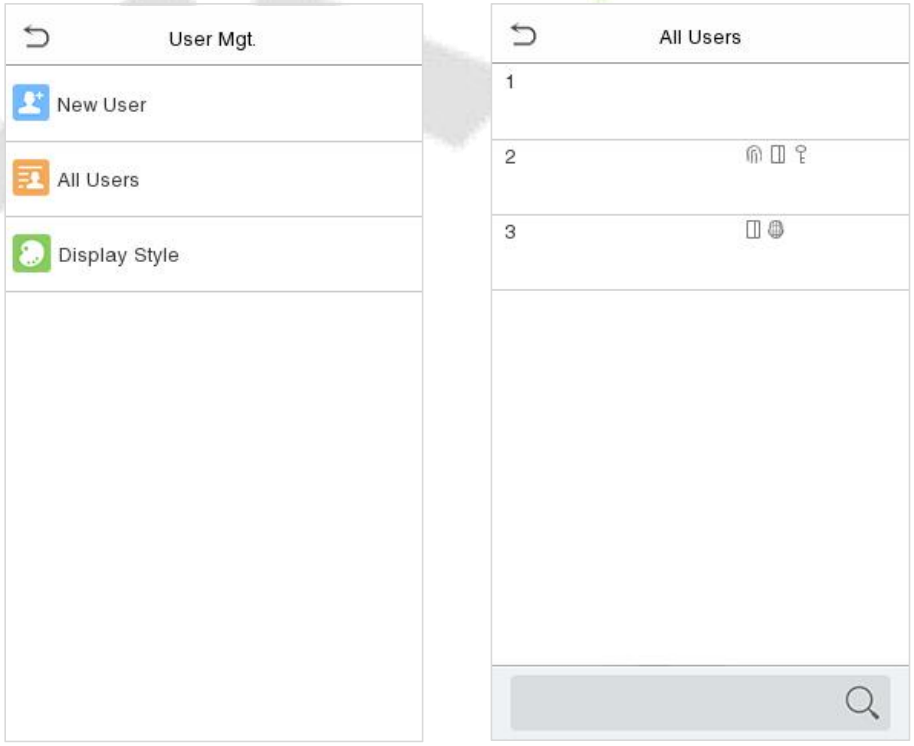
- Tap **Access Control Role** > **Access Group**, to assign the registered users to different groups for better management. New users belong to Group 1 by default and can be reassigned to other groups. The device supports up to 99 Access Control groups.
- Tap **Time Period**, to select the time period to use.
- The user may specify one or more fingerprints that have been registered as a duress fingerprint(s). When press the finger corresponding to the duress fingerprint on the sensor and pass the verification, the system will immediately generate a duress alarm.



3.2 Search for Users

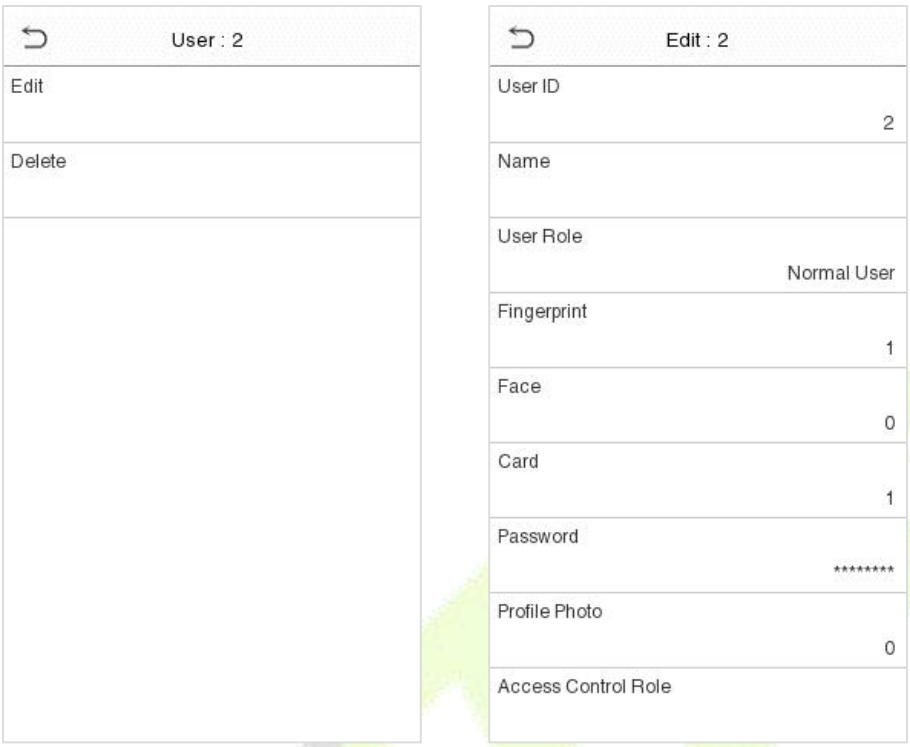
On the **Main Menu**, tap **User Mgt.,** and then tap **All Users** to search for a User.

- On the **All Users** interface, tap on the search bar on the user's list to enter the required retrieval keyword (where the keyword may be the user ID, surname or full name) and the system will search for the related user information.



3.3 Edit User

On **All Users** interface, tap on the required user from the list and tap **Edit** to edit the user information.



Note: *The process of editing a user is the same as that of adding a user, except that the user ID cannot be modified when editing a user's detail. The process in detail refers to "3. User Management".*

3.4 Delete User

On **All Users** interface, tap on the required user from the list and tap **Delete** to delete the user or a specific user information from the device. On the **Delete** interface, tap on the required operation and then tap OK to confirm the deletion.

- **Delete operations:**

Delete User: All information of the user will be deleted (deletes the selected User as a whole) from the Device.

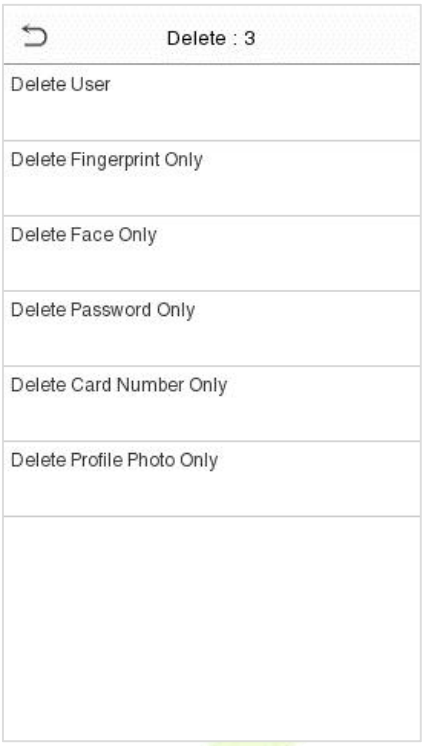
Delete Fingerprint Only: Deletes the fingerprint information of the selected user.

Delete Face Only: Deletes the face template information of the selected user.

Delete Password Only: Deletes the password information of the selected user.

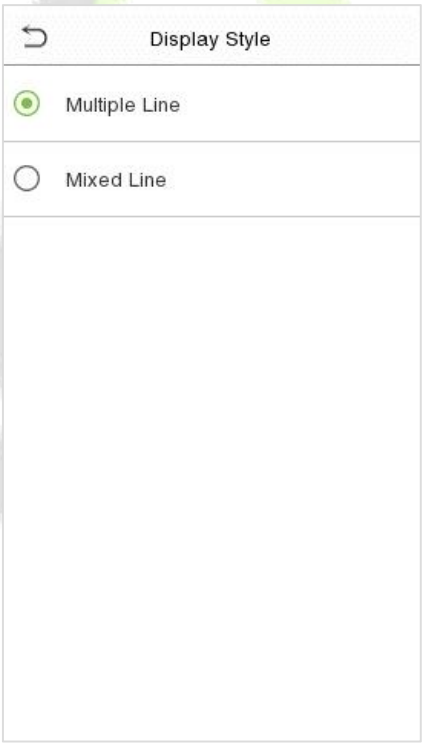
Delete Card Number Only: Deletes the card information of the selected user.

Delete Profile Photo Only: Deletes the profile photo of the selected user.



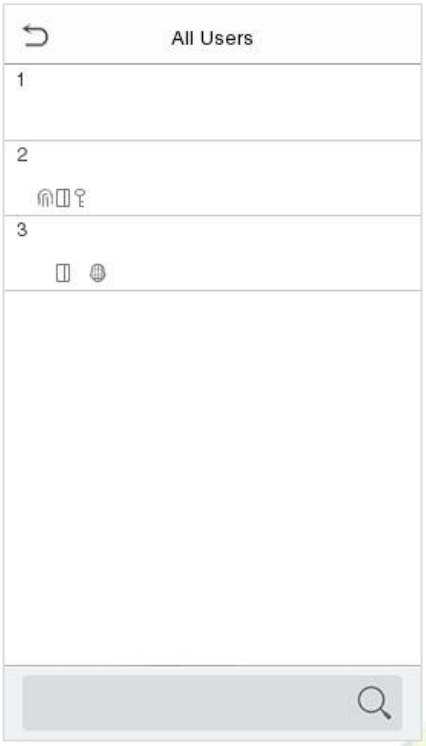
3.5 Display Style

Tap on **User Mgt.** > **Display Style** to choose the style of **All Users** interface's list.



Different display styles are shown as below:

Multiple Line:

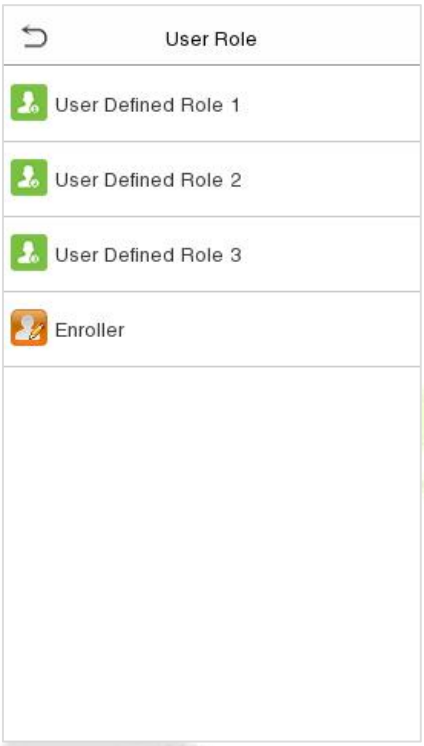


Mixed Line:

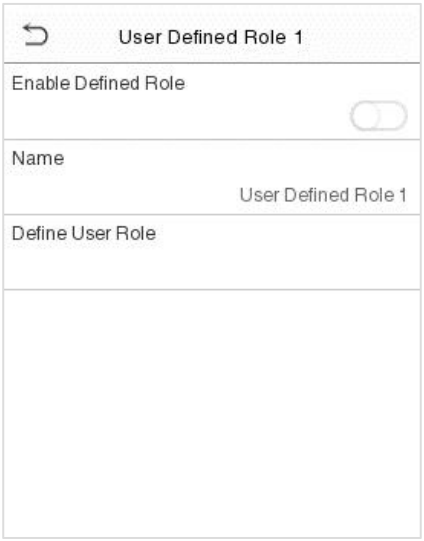
4 User Role

User Role facilitates to assign some specific permissions to specific users, based on the requirement.

- On the **Main** menu, tap **User Role**, and then tap on the **User Defined Role** to set the user defined permissions.
- The permission scope of the custom role can be set up to 3 roles, that is, the custom operating scope of the menu functions of the user.

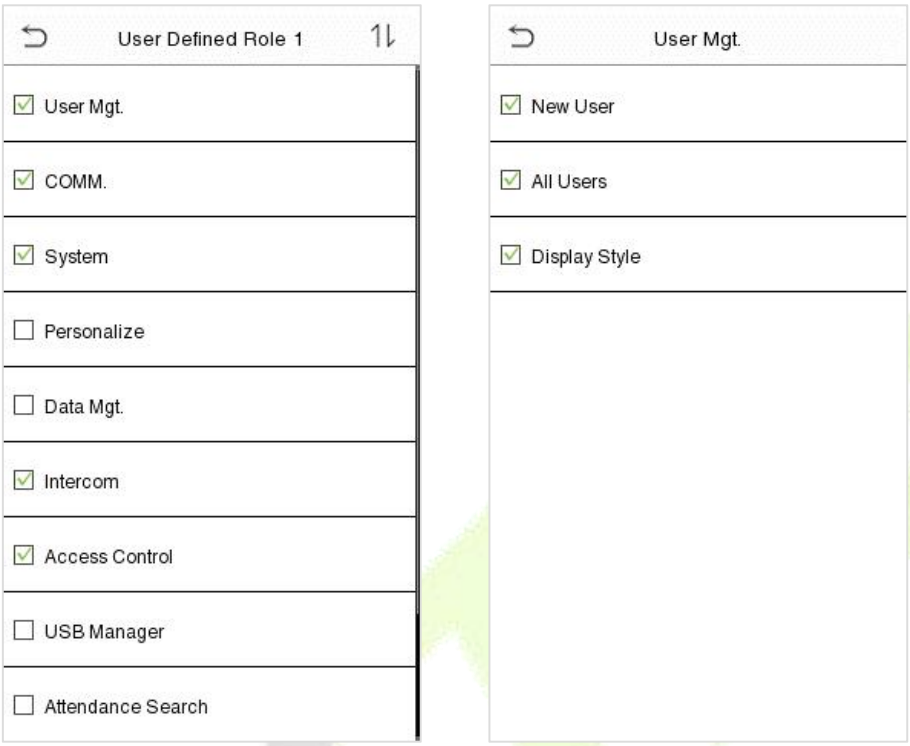


- On the **User Defined Role** interface, toggle **Enable Defined Role** to enable or disable the user defined role.
- Tap on **Name** and enter the custom name of the role.



- Then, tap on **User Defined Role** and select the required privileges to assign to the new role, and then tap on the **Return** button.

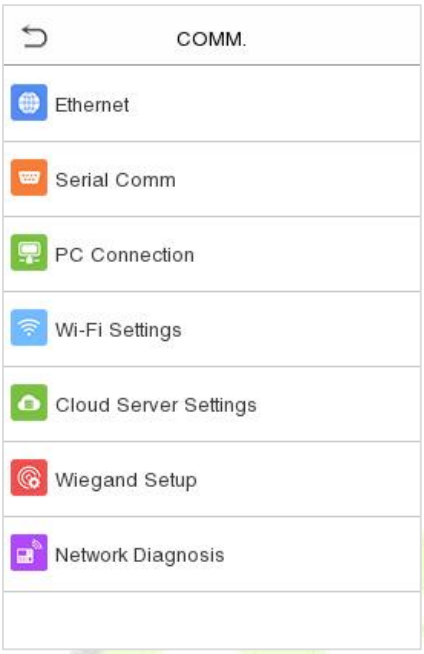
- During privilege assignment, the main menu function names will be displayed on the left and its sub-menus will be listed on its right.
- First tap on the required **Main Menu** function name, and then select its required sub-menus from the list.



Note: *If the User Role is enabled for the Device, tap on* ***User Mgt. > New User > User Role*** *to assign the created roles to the required users. But if there is no super administrator registered in the Device, then the device will prompt "Please enroll super admin first!" when enabling the User Role function.*

5 Communication Settings

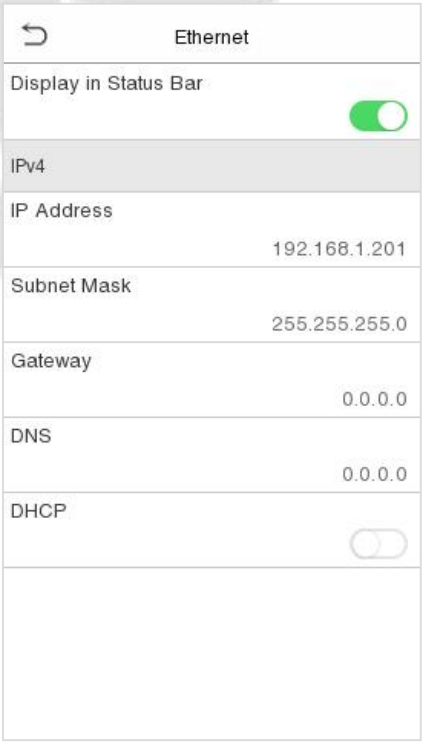
Tap **COMM.** on the **Main Menu** to set the relevant parameters of Network, Serial Comm, PC Connection, Wireless Network, Cloud Server, Wiegand and Network Diagnosis.



5.1 Network Settings

When the device needs to communicate with a PC over the Ethernet, you need to configure network settings and ensure that the device and the PC are connecting to the same network segment.

Tap **Ethernet** on the **COMM**. Settings interface to configure the settings.



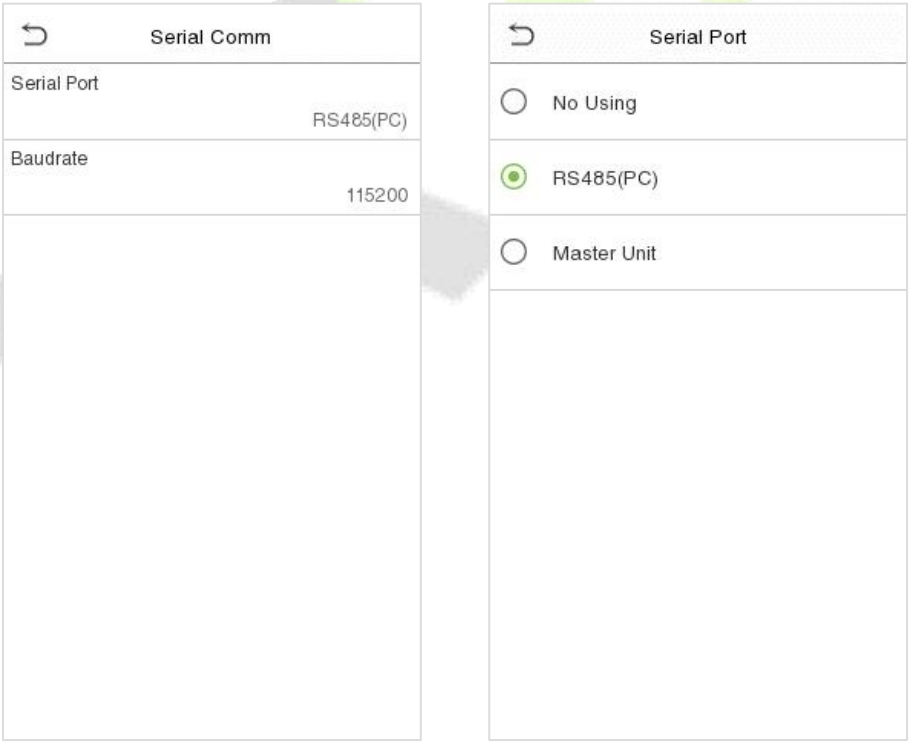
Function Description

Function Name	Descriptions
Display in Status Bar	Toggle to set whether to display the network icon on the status bar.
IP Address	The default IP address is 192.168.1.201. It can be modified according to the network availability.
Subnet Mask	The default Subnet Mask is 255.255.255.0. It can be modified according to the network availability.
Gateway	The default Gateway address is 0.0.0.0. It can be modified according to the network availability.
DNS	The default DNS address is 0.0.0.0. It can be modified according to the network availability.
DHCP	Dynamic Host Configuration Protocol is to dynamically allocate IP address for clients via server.

5.2 Serial Comm

Serial Comm function facilitates to establish communication with the device through a serial port (RS485/ Master Unit).

Tap **Serial Comm** on the **COMM.** Settings interface.

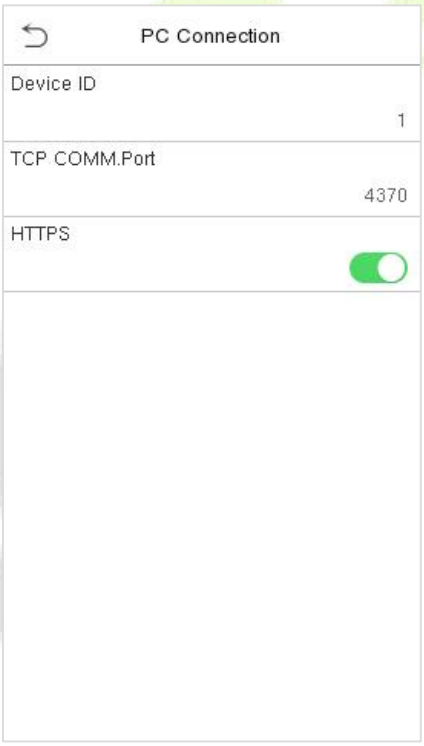


Function Description

Function Name	Descriptions
Serial Port	**No Using:** Do not communicate with the device through the serial port. **RS485(PC):** Communicates with the PC through RS485 serial port. **Master Unit:** When RS485 is used as the function of "**Master Unit**", the device will act as a master unit, and it can be connected to RS485 reader.
Baud Rate	The rate at which the data is communicated with PC, there are 4 options of baud rate: 115200 (default), 57600, 38400, and 19200. The higher is the baud rate, the faster is the communication speed, but also the less reliable. Hence, a higher baud rate can be used when the communication distance is short; when the communication distance is long, choosing a lower baud rate would be more reliable.

5.3 PC Connection

Tap **PC Connection** on the **COMM.** Settings interface to configure the communication settings.



Function Description

Function Name	Descriptions
Device ID	Identity number of the device, which ranges between 1 and 254. If the communication method is RS232/RS485, you need to input this device ID in the software communication interface.
TCP COMM. Port	The default TCP COMM Port value is 4370. It can be modified according to the network availability.

HTTPS	To increase the security of software access, users can enable the HTTPS protocol to create a secure and encrypted network transmission and assure the security of sent data through identity authentication and encrypted communication. This function is enabled by default. This function can be enabled or disabled through the menu interface, and when changing the HTTPS status, the device will pop up a security prompt, and restart after confirmation.

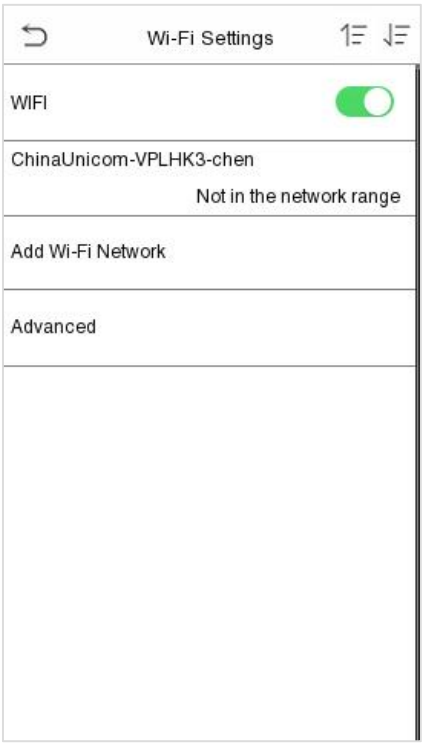
5.4 Wireless Network★

The device provides a Wi-Fi module, which can be built-in within the device mould or can be externally connected.

The Wi-Fi module enables data transmission via Wi-Fi (Wireless Fidelity) and establishes a wireless network environment. Wi-Fi is enabled by default in the device. If you don't need to use the Wi-Fi network, you can toggle the Wi-Fi to disable button.

Tap **Wireless Network** on the **COMM.** Settings interface to configure the WiFi settings.

- **Search the WIFI Network**
  - WIFI is enabled in the Device by default. Toggle on button to enable or disable WIFI.
  - Once the Wi-Fi is turned on, the device will search for the available WIFI within the network range.
  - Choose the appropriate WiFi name from the available list, and input the correct password in the password interface, and then tap **Connect to WIFI (OK)**.



WIFI Enabled: Tap on the required network from the searched network list.

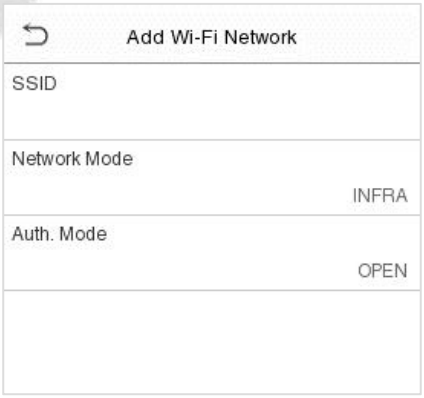
Tap on the password field to enter the password, and then tap on **Connect to WIFI (OK).**

- When the WIFI is connected successfully, the initial interface will display the Wi-Fi logo.

- **Add WIFI Network Manually**

The Wi-Fi can also be added manually if the required Wi-Fi does not show on the list.

Tap on **Add WIFI Network** to add the WIFI manually.

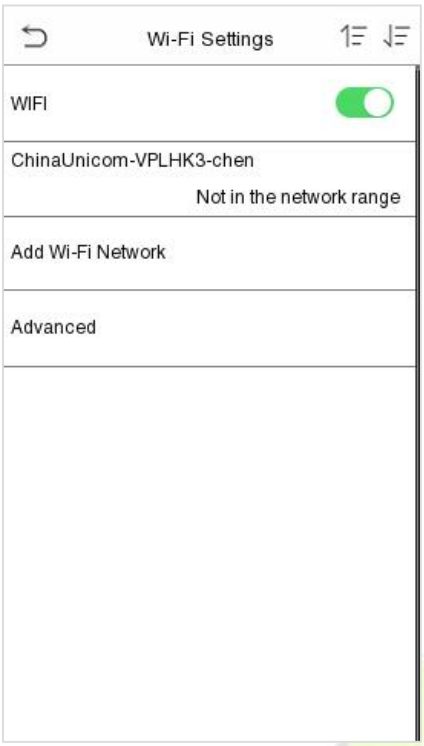


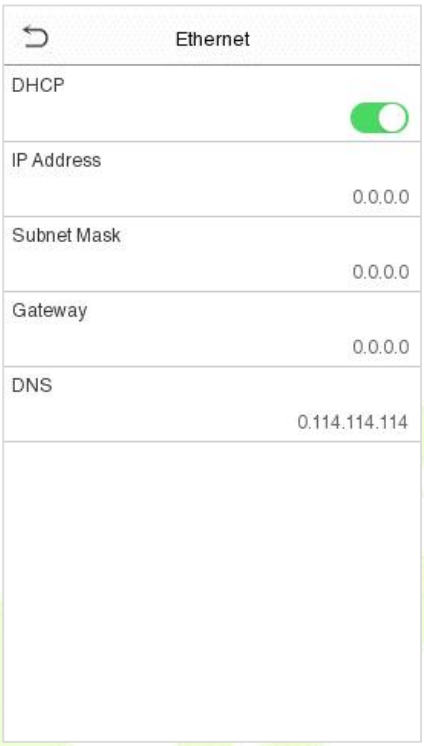
On this interface template, enter the WIFI network parameters. (The added network must exist.)

***Note**: After successfully adding the WIFI manually, follow the same process to search for the added WIFI name. Click here to view the process to search the WIFI network.*

- **Advanced Setting**

On the **Wireless Network** interface, tap on **Advanced** to set the relevant parameters as required.



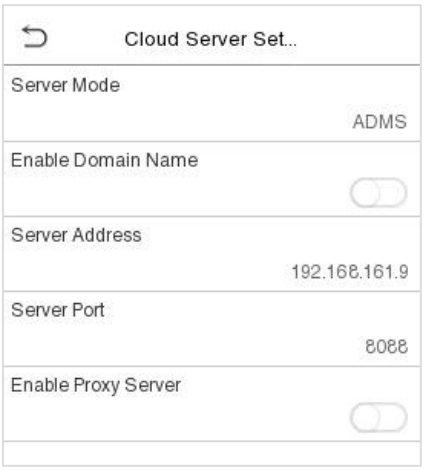


Function Description

Function Name	Description
DHCP	Dynamic Host Configuration Protocol (DHCP) dynamically allocates IP address to network clients. If the DHCP is enabled, then the IP cannot be set manually.
IP Address	IP address for the WIFI network, the default is 0.0.0.0. It can be modified according to the network availability.
Subnet Mask	The default Subnet Mask of the WIFI network is 255.255.255.0. It can be modified according to the network availability.
Gateway	The default Gateway address is 0.0.0.0. Can be modified according to the network availability.
DNS	The default DNS address is 0.0.0.0. It can be modified according to the network availability.

5.5 Cloud Server Setting

Tap **Cloud Server Setting** on the **COMM.** Settings interface to connect with the ADMS server.



Function Description

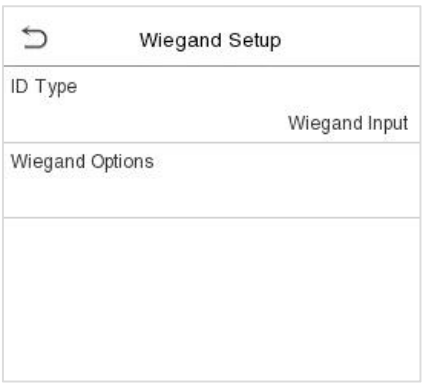
Function Name		Description
Enable Domain Name	**Server Address**	Once this function is enabled, the domain name mode "http://..." will be used, such as http://www.XYZ.com, while "XYZ" denotes the domain name (when this mode is turned ON).
Disable Domain Name	**Server Address**	IP address of the ADMS server.
	Server Port	Port used by the ADMS server.
Enable Proxy Server		When you choose to enable the proxy, you need to set the IP address and port number of the proxy server.

5.6 Wiegand Setup

To set the Wiegand input and output parameters.

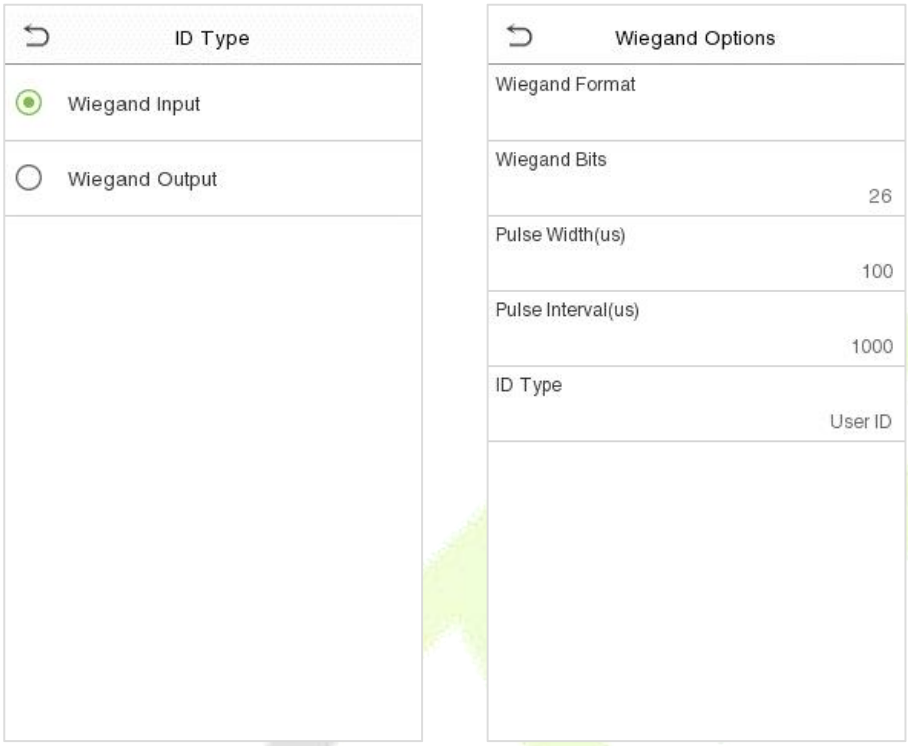
Tap **Wiegand Setup** on the **COMM.** Settings interface to set the Wiegand input or output parameters.

Note: *The Wiegand interface is shared, and the user can choose to use either the Wiegand input or Wiegand output function to interface with different Wiegand devices.*



5.6.1 Wiegand Input

Tap **ID Type** on the **Wiegand Setup**, select **Wiegand Input**, and then tap **Wiegand Options** on the **Wiegand Setup**.



Function Description

Function Name	Descriptions
Wiegand Format	Values range from 26 Bits, 32 Bits, 34 Bits, 36 Bits, 37 Bits, 50 Bits and 64Bits.
Wiegand Bits	Number of bits of Wiegand data.
Pulse Width(us)	The value of the pulse width sent by Wiegand is 100 microseconds by default, which can be adjusted within the range of 20 to 400 microseconds.
Pulse Interval(us)	The default value is 1000 microseconds, which can be adjusted within the range of 200 to 20000 microseconds.
ID Type	Select between User ID and card number.

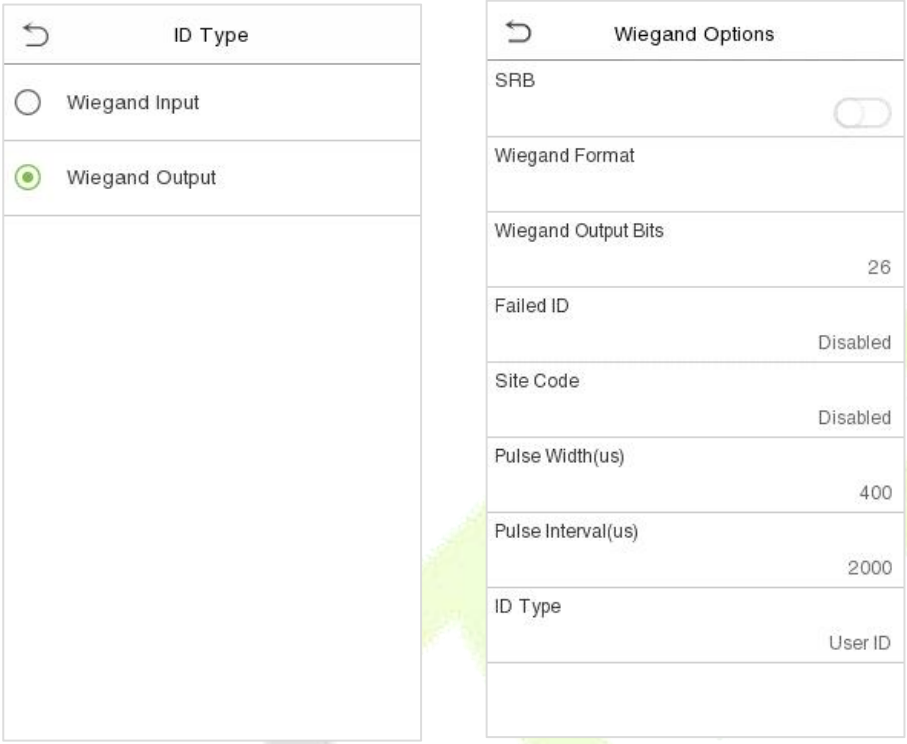
Various Common Wiegand Format Description

Wiegand Format	Description
Wiegand26	ECCCCCCCCCCCCCCCCCCCCCCCCO Consists of 26 bits of binary code. The 1st bit is the even parity bit of the 2nd to 13th bits, while the 26th bit is the odd parity bit of the 14th to 25th bits. The 2nd to 25th bits is the card numbers.

Wiegand26a	ESSSSSSSSCCCCCCCCCCCCCCCO Consists of 26 bits of binary code. The 1st bit is the even parity bit of the 2nd to 13th bits, while the 26th bit is the odd parity bit of the 14th to 25th bits. The 2nd to 9th bits is the site codes, while the 10th to 25th bits are the card numbers.
Wiegand34	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCO Consists of 34 bits of binary code. The 1st bit is the even parity bit of the 2nd to 17th bits, while the 34th bit is the odd parity bit of the 18th to 33rd bits. The 2nd to 25th bits is the card numbers.
Wiegand34a	ESSSSSSSSCCCCCCCCCCCCCCCCCCCCCCCO Consists of 34 bits of binary code. The 1st bit is the even parity bit of the 2nd to 17th bits, while the 34th bit is the odd parity bit of the 18th to 33rd bits. The 2nd to 9th bits is the site codes, while the 10th to 25th bits are the card numbers.
Wiegand36	OFFFFFFFFFFFFFFFCCCCCCCCCCCCCCCCMME Consists of 36 bits of binary code. The 1st bit is the odd parity bit of the 2nd to 18th bits, while the 36th bit is the even parity bit of the 19th to 35th bits. The 2nd to 17th bits is the device codes. The 18th to 33rd bits is the card numbers, and the 34th to 35th bits are the manufacturer codes.
Wiegand36a	EFFFFFFFFFFFFFFFFCCCCCCCCCCCCCCCCO Consists of 36 bits of binary code. The 1st bit is the even parity bit of the 2nd to 18th bits, while the 36th bit is the odd parity bit of the 19th to 35th bits. The 2nd to 19th bits is the device codes, and the 20th to 35th bits are the card numbers.
Wiegand37	OMMMMSSSSSSSSSSSCCCCCCCCCCCCCCCCCCCE Consists of 37 bits of binary code. The 1st bit is the odd parity bit of the 2nd to 18th bits, while the 37th bit is the even parity bit of the 19th to 36th bits. The 2nd to 4th bits is the manufacturer codes. The 5th to 16th bits is the site codes, and the 21st to 36th bits are the card numbers.
Wiegand37a	EMMMFFFFFFFFFSSSSSSCCCCCCCCCCCCCCCCO Consists of 37 bits of binary code. The 1st bit is the even parity bit of the 2nd to 18th bits, while the 37th bit is the odd parity bit of the 19th to 36th bits. The 2nd to 4th bits is the manufacturer codes. The 5th to 14th bits is the device codes, and15th to 20th bits are the site codes, and the 21st to 36th bits are the card numbers.
Wiegand50	ESSSSSSSSSSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCO Consists of 50 bits of binary code. The 1st bit is the even parity bit of the 2nd to 25th bits, while the 50th bit is the odd parity bit of the 26th to 49th bits. The 2nd to 17th bits is the site codes, and the 18th to 49th bits are the card numbers.
"C" denotes the card number; **"E"** denotes the even parity bit; **"O"** denotes the odd parity bit; **"F"** denotes the facility code; **"M"** denotes the manufacturer code; **"P"** denotes the parity bit; and **"S"** denotes the site code.	

5.6.2 Wiegand Output

Tap **ID Type** on the **Wiegand Setup**, select **Wiegand Output**, and then tap **Wiegand Options** on the **Wiegand Setup**.



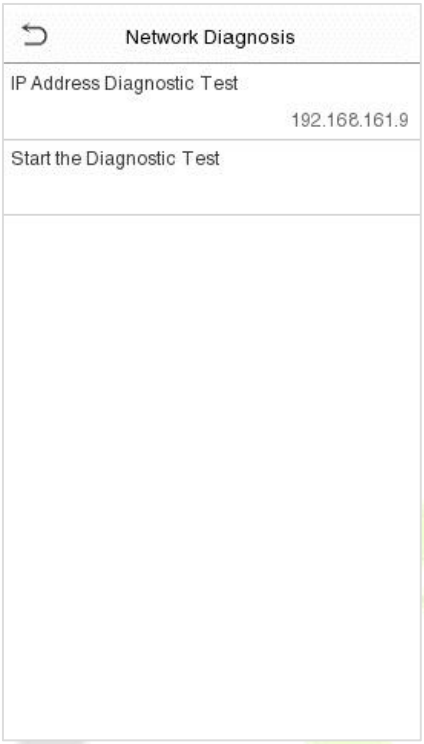
Function Description

Function Name	Descriptions
SRB★	When SRB is enabled, the lock is controlled by the SRB to prevent the lock from being opened due to device removal.
Wiegand Format	Values range from 26 bits, 32 Bits, 34 bits, 36 bits, 37 bits, 50 bits and 64 bits.
Wiegand Output Bits	After selecting the required Wiegand format, select the corresponding output bit digits of the Wiegand format.
Failed ID	If the verification is failed, the system will send the failed ID to the device and replace the card number or personnel ID with the new one.
Site Code	It is similar to the device ID. The difference is that a site code can be set manually, and is repeatable in a different device. The valid value ranges from 0 to 256 by default.
Pulse Width(us)	The time width represents the changes of the quantity of electric charge with regular high-frequency capacitance within a specified time.
Pulse Interval(us)	The time interval between pulses.
ID Type	Select the ID types as either User ID or card number.

5.7 Network Diagnosis

To set the network diagnosis parameters.

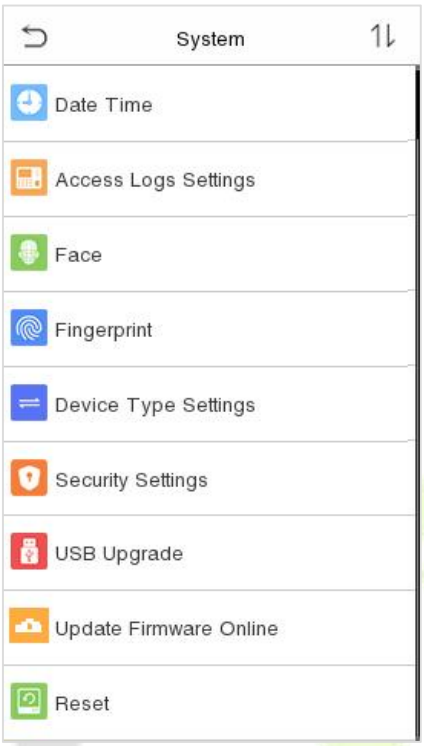
Tap **Network Diagnosis** on the **COMM.** Settings interface to set the IP address diagnostic and start the diagnostic parameters.



6 System Settings

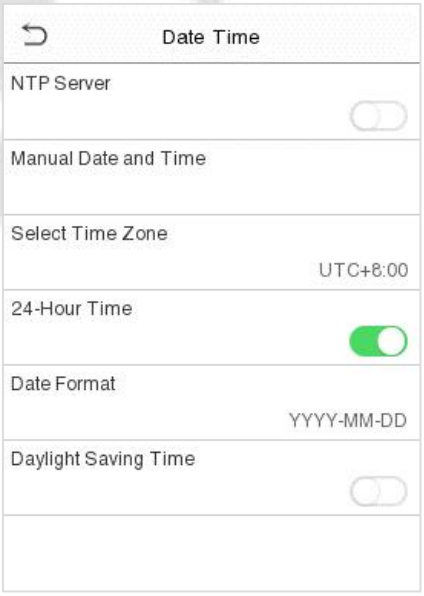
Set related system parameters to optimize the performance of the device.

Tap **System** on the **Main Menu** interface to set the related system parameters to optimize the performance of the device.



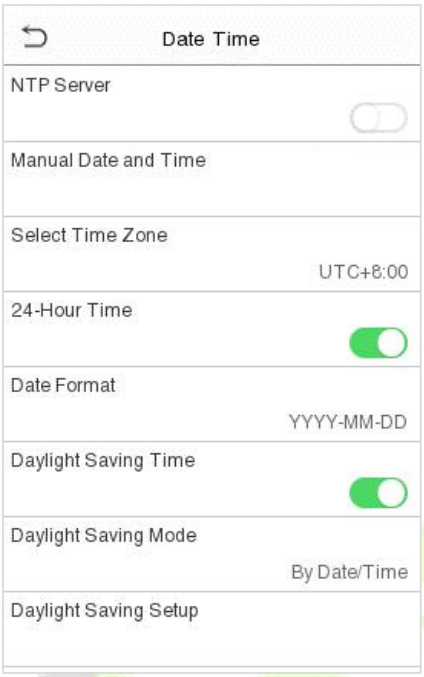
6.1 Date and Time

Tap **Date Time** on the **System** interface to set the date and time.

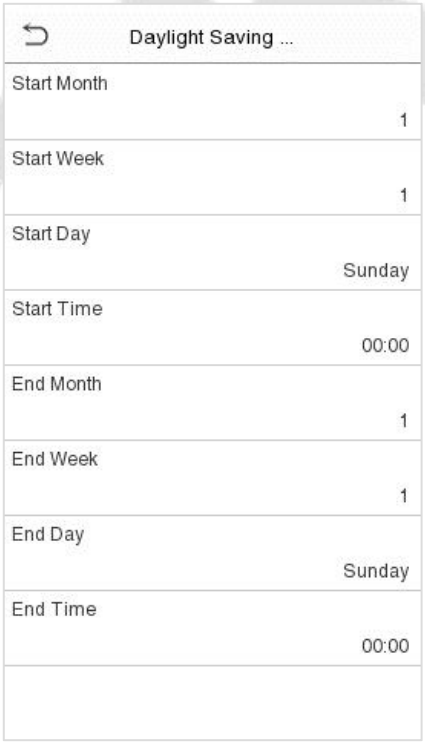


- The product supports the NTP synchronization time system by default. This function takes effect after **NTP Server** is enabled and the corresponding NTP server address link is set.

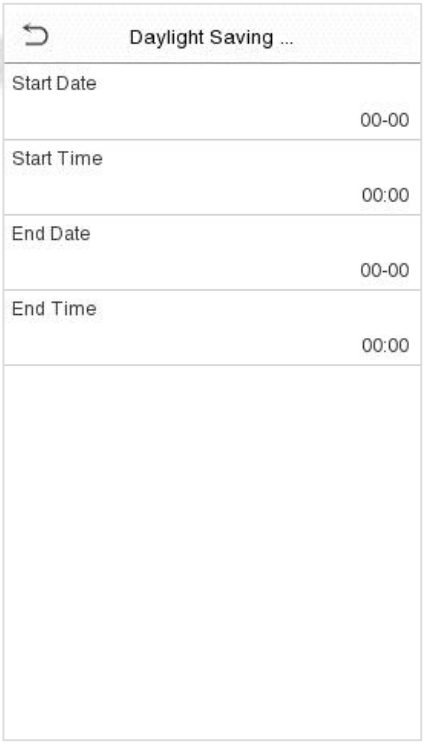
- If users need to set date and time manually, disable **NTP Server** first, and then tap **Manual Data and Time** to set date and time and tap **Confirm** to save.
- Tap **24-Hour Time** to enable or disable this format. If enabled, then select the **Date Format** to set the date format.



- Tap **Daylight Saving Time** to enable or disable the function. If enabled, tap **Daylight Saving Mode** to select a daylight-saving mode and then tap **Daylight Saving Setup** to set the switch time.



Week mode



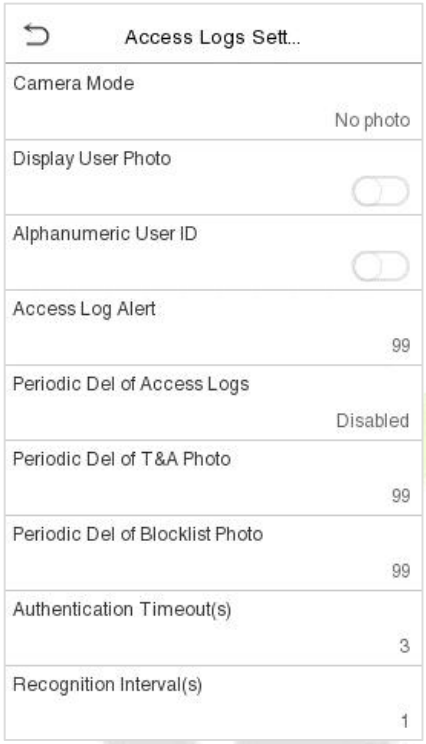
Date mode

- When restoring the factory settings, the time (24-hour) and date format (YYYY-MM-DD) can be restored, but the device date and time cannot be restored.

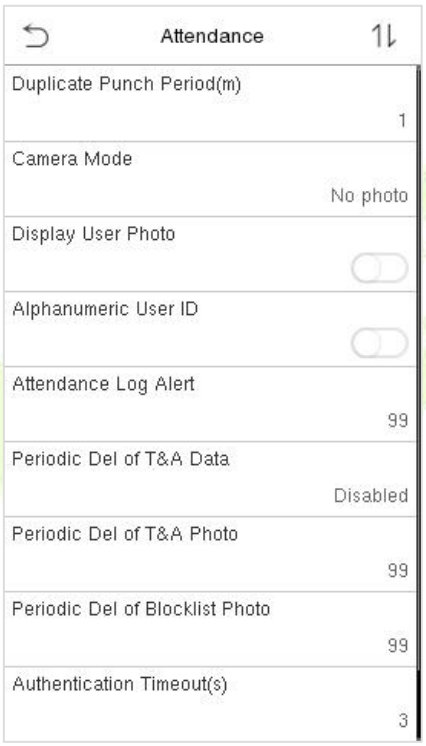
Note: *For example, the user sets the time of the device (18:35 on March 15, 2019) to 18:30 on January 1, 2020. After restoring the factory settings, the time of the equipment will remain 18:30 on January 1, 2020.*

6.2 Access Logs Settings/Attendance

Click **Access Logs Settings/Attendance** on the System interface.



A&C Terminal



T&A Terminal

Function Description of A&C Terminal:

Function Name	Description
Camera Mode	This function is disabled by default. When enabled, a security prompt will pop-up and the sound of shutter in the camera will turn on mandatorily. There are 5 modes: **No Photo:** No photo is taken during user verification. **Take photo, no save:** Photo is taken but is not saved during verification. **Take photo and save:** Photo is taken and saved during verification. **Save on successful verification:** Photo is taken and saved for each successful verification. **Save on failed verification:** Photo will be taken and saved only for each failed verification.
Display User Photo	This function is disabled by default. When enabled, there will be a security prompt.
Alphanumeric User ID	Decides whether to support letters in a User ID.

Access Logs Alert	When the record space of the attendance access reaches the maximum threshold value, the device will automatically display the memory space warning. Users may disable the function or set a valid value between 1 and 9999.
Periodic Del of Access Logs	When access records have reached full capacity, the device will automatically delete a set of old access records. Users may disable the function or set a valid value between 1 and 999.
Periodic Del of T&A Photo	When attendance photos have reached full capacity, the device will automatically delete a set of old attendance photos. Users may disable the function or set a valid value between 1 and 99.
Periodic Del of Blocklist Photo	When block listed photos have reached full capacity, the device will automatically delete a set of old block listed photos. Users may disable the function or set a valid value between 1 and 99.
Authentication Timeout(s)	The time length of the message of successful verification displays. Valid value: 1~9 seconds.
Recognition Interval (s)	To set the facial template matching time interval as required. Valid value: 0~9 seconds.

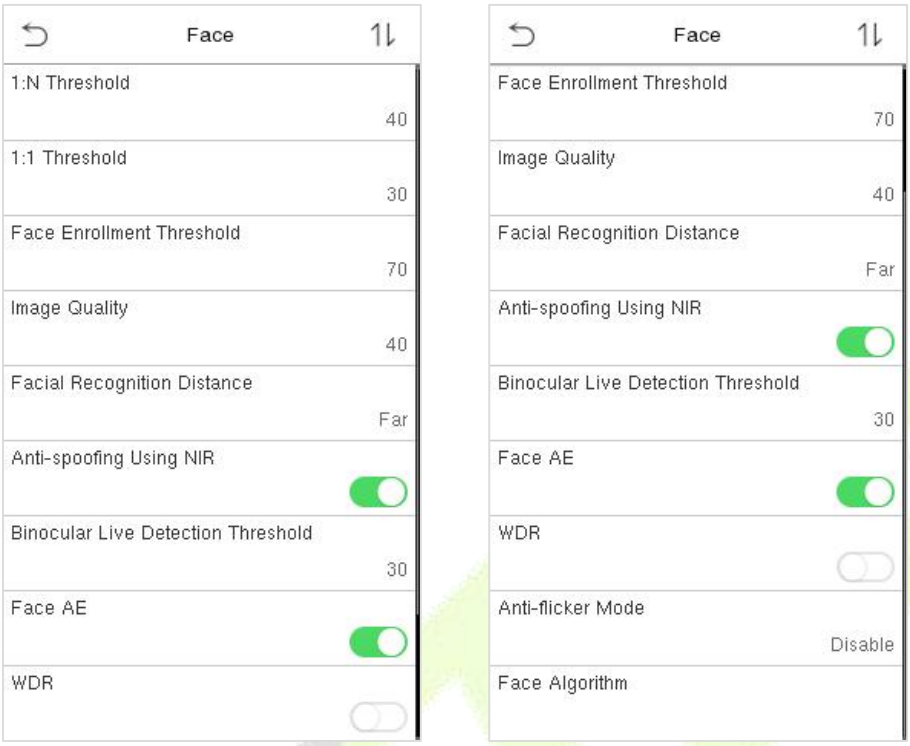
Function Description of T&A Terminal:

Function Name	Description
Duplicate Punch Period(m)	Within a set time period (unit: minutes), the duplicated attendance record will not be reserved (value ranges from 1 to 999999 minutes).
Camera Mode	This function is disabled by default. When enabled, a security prompt will pop-up and the sound of shutter in the camera will turn on mandatorily. There are 5 modes: **No photo:** No photo is taken during user verification. **Take photo, no save:** Photo is taken but not saved during verification. **Take photo and save:** All the photos taken during verification is saved. **Save on successful verification:** Photo is taken and saved for each successful verification. Save on failed verification: Photo is taken and saved only for each failed verification.
Display User Photo	Whether to display the user photo when the user passes the verification.
Alphanumeric User ID	Enable/Disable the alphanumeric as User ID.

Attendance Log Alert	When the record space of the attendance reaches the maximum threshold value, the device automatically displays the memory space warning. Users may disable the function or set a valid value between 1 and 9999.
Periodic Del of T&A Data	When attendance records reach its maximum storage capacity, the device automatically deletes a set of old attendance records. Users may disable the function or set a valid value between 1 and 999.
Periodic Del of T&A Photo	When attendance photos reach its maximum capacity, the device automatically deletes a set of old attendance photos. Users may disable the function or set a valid value between 1 and 99.
Periodic Del of Blocklist Photo	When block listed photos reach its maximum capacity, the device automatically deletes a set of old block listed photos. Users may disable the function or set a valid value between 1 and 99.
Authentication Timeout(s)	The amount of time taken to display a successful verification message. Valid value: 1 to 9 seconds.
Recognition Interval(s)	After the interval identifying is clicked (selected), for example, if the comparison interval is set to 5 seconds, then the face recognition will verify the face every 5 seconds. Valid value: 0 to 9 seconds. 0 means continuous identifying, 1 to 9 means identifying at intervals.

6.3 Face Template Parameters

Tap **Face** on the **System** interface to go to the face template parameter settings.



FRR	FAR	Recommended Matching Thresholds	
		1:N	1:1
High	Low	85	80
Medium	Medium	82	75
Low	High	80	70

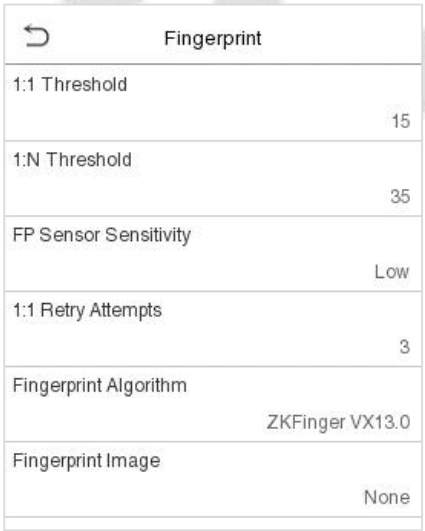
Function Description

Function Name	Description
1:N Threshold	Under 1:N verification mode, the verification will only be successful when the similarity between the acquired facial image and all registered facial templates is greater than the set value. The valid value ranges from 0 to 100. The higher the thresholds, the lower the misjudgement rate, the higher the rejection rate, and vice versa. It is recommended to set the default value of 75.
1:1 Threshold	Under 1:1 verification mode, the verification will only be successful when the similarity between the acquired facial image and the user's facial templates enrolled in the device is greater than the set value. The valid value ranges from 0 to 100. The higher the thresholds, the lower the misjudgement rate, the higher the rejection rate, and vice versa. It is recommended to set the default value of 63.

Face Enrollment Threshold	During face template enrollment, 1:N comparison is used to determine whether the user has already registered before. When the similarity between the acquired facial image and all registered facial templates is greater than this threshold, it indicates that the face template has already been registered.
Image Quality	Image quality for facial registration and comparison. The higher the value, the clearer the image requires.
Facial Recognition Distance	The farther the individual is, the smaller the face, and the smaller number of pixels of the face obtained by the algorithm. Therefore, adjusting this parameter can adjust the farthest comparison distance of faces.
Anti-spoofing Using NIR	Using near-infrared spectra imaging to identify and prevent fake photos and videos attack.
Binocular Live Detection Threshold	It is convenient to judge whether the near-infrared spectral imaging is fake photo and video. The larger the value, the better the anti-spoofing performance of near-infrared spectral imaging.
Face AE	When the face is in front of the camera in Face AE mode, the brightness of the face area increases, while other areas become darker.
WDR	Wide Dynamic Range (WDR) balances light and extends image visibility for surveillance videos under high contrast lighting scenes and improves object identification under bright and dark environments.
Anti-flicker Mode	Used when WDR is turned off. This helps reduce flicker when the device's screen flashes at the same frequency as the light.
Face Algorithm	Facial algorithm related information and pause facial template update.
Notes	Improper adjustment of the exposure and quality parameters may severely affect the performance of the device. Please adjust the exposure parameter only under the guidance of the after-sales service personnel of our company.

6.4 Fingerprint Parameters★

Click **Fingerprint** on the System interface.



FRR	FAR	Recommended matching thresholds	
		1:N	1:1
High	Low	45	25
Medium	Medium	35	15
Low	High	25	10

Function Description

Function Name	Descriptions
1:1 Threshold	Under 1:1 verification method, the verification will only be successful when the similarity between the acquired fingerprint data and the fingerprint template associated with the entered user ID enrolled in the device is greater than the set value.
1:N Threshold	Under 1:N verification method, the verification will only be successful when the similarity between the acquired fingerprint data and the fingerprint templates enrolled in the device is greater than the set value.
FP Sensor Sensitivity	To set the sensibility of fingerprint acquisition. It is recommended to use the default level "**Medium**". When the environment is dry, resulting in slow fingerprint detection, you can set the level to "**High**" to raise the sensibility; when the environment is humid, making it hard to identify the fingerprint, you can set the level to "**Low**".
1:1 Retry Attempts	In 1:1 Verification, users might forget the registered fingerprint, or press the finger improperly. To reduce the process of re-entering user ID, retry is allowed.
Fingerprint Algorithm	Fingerprint algorithm version. Default support ZKFinger VX13.0, can change to ZKFinger VX10.0.
Fingerprint Image	This function is disabled by default. After disabling it, the fingerprint image will not be displayed when registering and verifying fingerprints. The menu interface allows to enable or disable this function, and there are security prompts when switching. Four choices are available: **Show for enroll**: to display the fingerprint image on the screen only during enrollment. **Show for match**: to display the fingerprint image on the screen only during verification. **Always show**: to display the fingerprint image on screen during enrollment and verification. **None**: not to display the fingerprint image.

6.5 Device Type Setting

Tap **Device Type Setting** on the System interface.

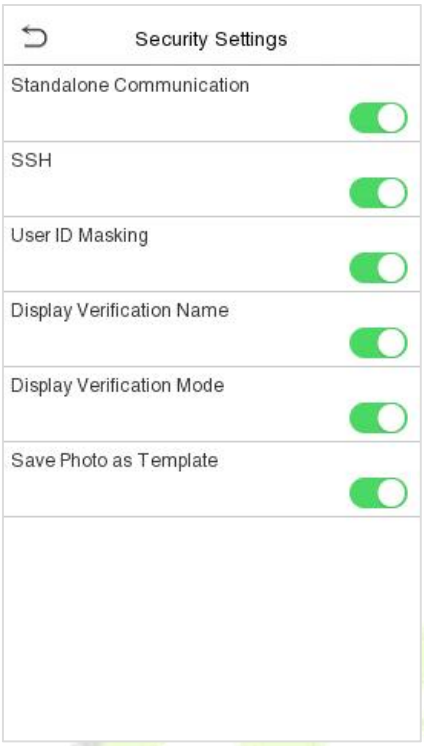
Function Description

Function Name	Description
Communication Protocol	Set the device communication protocol. (BEST protocol is managed by ZKBio Zlink, please refer to 18 Connecting to ZKBio Zlink Mobile App and 19 Connecting to ZKBio Zlink Web Portal.)
Device Type	Set the device as time attendance terminal (T&A PUSH) or access control terminal (A&C PUSH).

Note: After changing the device type, the device will delete all the data and restart, and some functions will be adjusted accordingly.

6.6 Security Setting

Tap **Security Setting** on the **System** interface.



Function Description

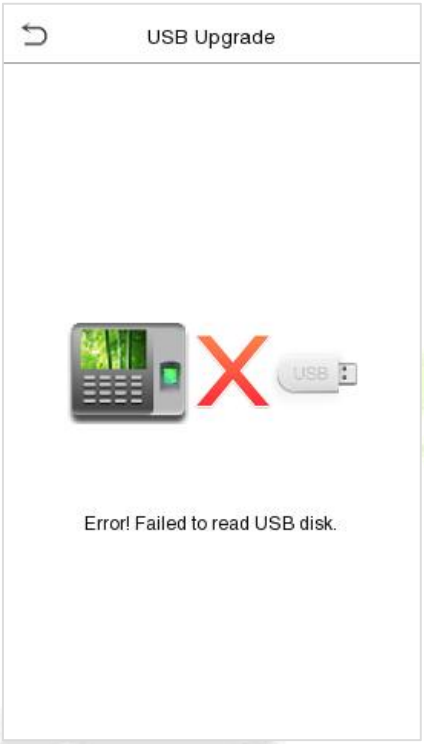
Function Name	Description
Standalone Communication	By default, this function is disabled. This function can be enabled or disabled via the menu interface. When it is switched on, a security prompt appears, and the device will restart after you confirm.
SSH	The device does not support the Telnet feature, hence SSH is typically used for remote debugging. By default, SSH is enabled. The menu interface allows you to enable and disable SSH. When enabled, there will be a security prompt, but the device will not need to be restarted after confirmation.
User ID Masking	After enabled, the User ID will be partially displayed after the personnel verification result (only the User ID with more than 2 digits supports the masking display), and it is enabled by default.
Display Verification Name	After enabled, the user's name will be displayed after the personnel verification result. The verification result will not show the name after disabling it.
Display Verification Mode	After enabled, the personnel verification result will show the user's verification mode. The verification result will not show the verification mode after you disable it.
Save Photo as Template	After disabling this function, face template re-registration is required after an algorithm upgrade.

6.7 USB Upgrade

Tap **USB Upgrade** on the **System** interface.

The device's firmware program can be upgraded with the upgrade file in a USB drive. Before conducting this operation, please ensure that the USB drive contains the correct upgrade file and is properly inserted into the device.

If no USB disk is inserted in, the system gives the following prompt after you tap **USB Upgrade** on the System interface.



Note: *If upgrade file is needed, please contact our technical support. Firmware upgrade is not recommenced under normal circumstances.*

6.8 Update Firmware Online

Click **Update Firmware Online** on the System interface.

Click **Enable Firmware Update Online** function, the device will prompt that the update may bring some data security risks, which requires manual confirmation by the user (If the security setting function is turned off, the risk warning will not be displayed when the online update is turned on).

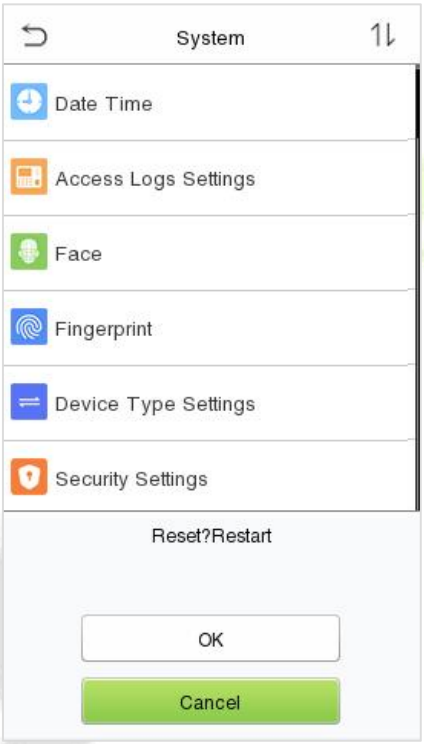
Click **Check for Updates** it may have the following 3 scenarios:

- If the query fails, the interface will prompt "Query failed".
- If the firmware version of the device is latest, it will prompt that the current firmware version is already the latest.
- If the firmware version of the device is not the latest, the version number and change log of the latest version will be displayed. Users can choose whether to update to the latest firmware version.

6.9 Factory Reset

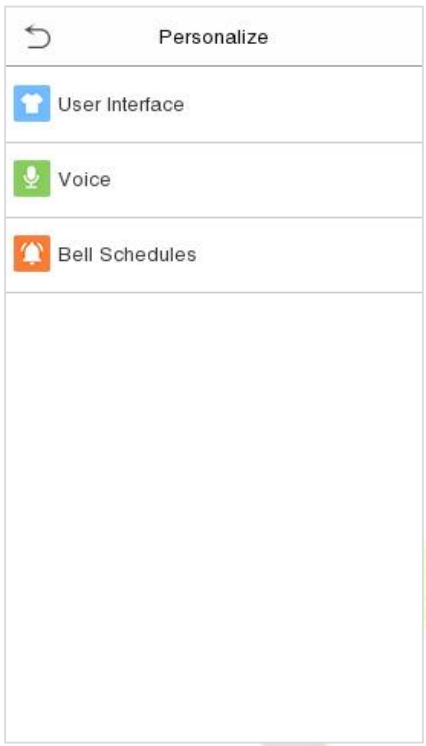
The Factory Reset function restores the device settings such as communication settings and system settings, to the default factory settings (This function does not clear registered user data).

Tap **Reset** on the **System** interface and then tap **OK** to restore the default factory settings.

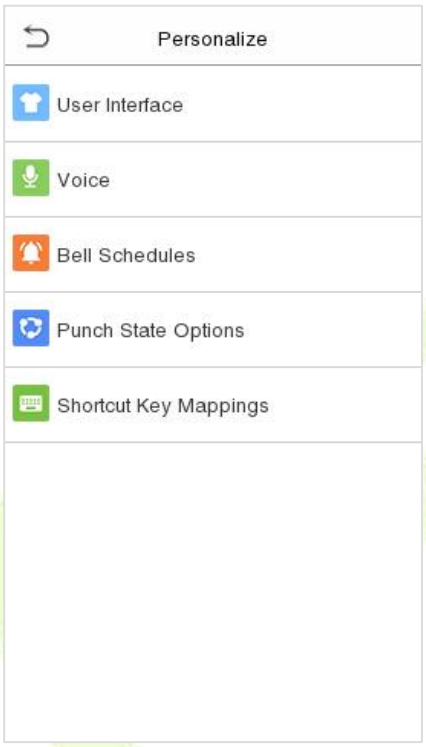


7 Personalize Settings

Tap **Personalize** on the **Main Menu** interface to customize interface settings, voice, bell, punch state options and shortcut key mappings.



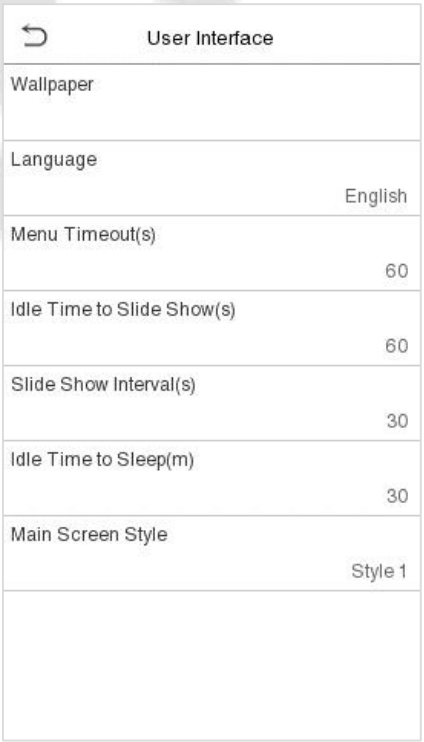
A&C Terminal



T&A Terminal

7.1 User Interface Settings

Tap **User Interface** on the **Personalize** interface to customize the display style of the main interface.

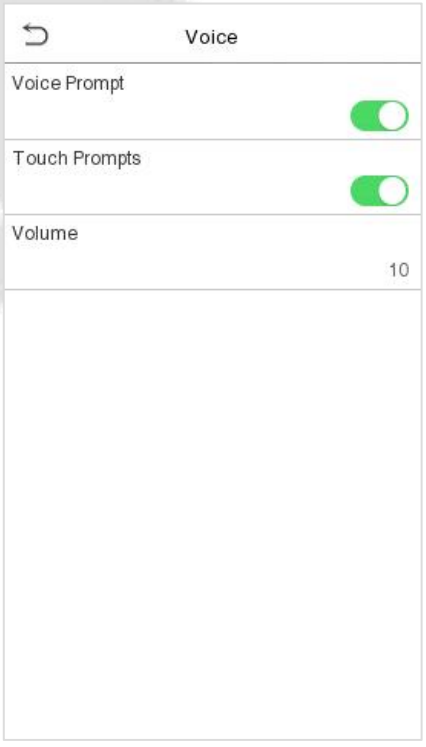


Function Description

Function Name	Description
Wallpaper	The main screen wallpaper can be selected according to the user preference.
Language	Select the language of the device.
Menu Timeout (s)	When there is no operation, and the time exceeds the set value, the device will automatically go back to the initial interface. The function either can be disabled or set the required value between 60 and 99999 seconds.
Idle Time to Slide Show (s)	When there is no operation, and the time exceeds the set value, a slide show will be played. The function can be disabled, or you may set the value between 3 and 999 seconds.
Slide Show Interval (s)	It is the time interval in switching between different slide show photos. The function can be disabled, or you may set the interval between 3 and 999 seconds.
Idle Time to Sleep (m)	If the sleep mode is activated, and when there is no operation in the device, then the device will enter standby mode. Tap the screen anywhere to resume normal working mode. This function can be disabled or set a value within 1-999 minutes.
Main Screen Style	The main screen style can be selected according to the user preference.

7.2 Voice Settings

Tap **Voice** on the **Personalize** interface to configure the voice settings.

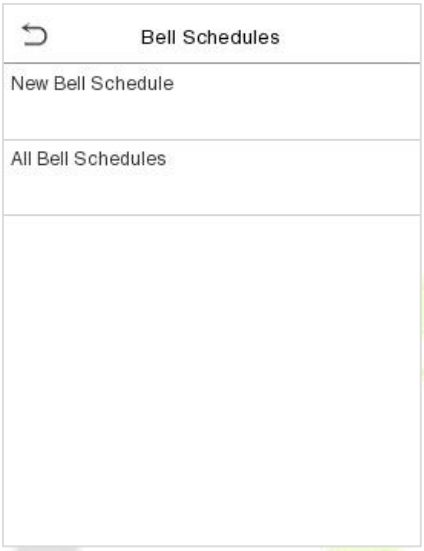


Function Description

Function Name	Description
Voice Prompt	Toggle to enable or disable the voice prompts during function operations.
Touch Prompt	Toggle to enable or disable the keypad sounds.
Volume	Adjust the volume of the device which can be set between 0 to 100.

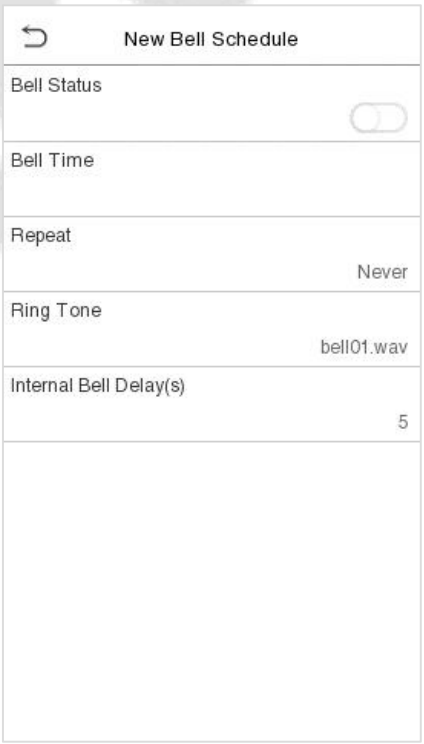
7.3 Bell Schedules

Tap **Bell Schedules** on the **Personalize** interface to configure the Bell settings.



- **New bell schedule**

Tap **New Bell Schedule** on the **Bell Schedule** interface to add a new bell schedule.



Function Description

Function Name	Description
Bell Status	Toggle to enable or disable the bell status.
Bell Time	Once the required time is set, the device will automatically trigger to ring the bell during that time.
Repeat	Set the required number of counts to repeat the scheduled bell.
Ring Tone	Select a ring tone.
Internal Bell Delay(s)	Set the replay time of the internal bell. Valid values range from 1 to 999 seconds.

- **All bell schedules:**

Once the bell is scheduled, on the **Bell Schedules** interface, tap **All Bell Schedules** to view the newly scheduled bell.

- **Edit the scheduled bell:**

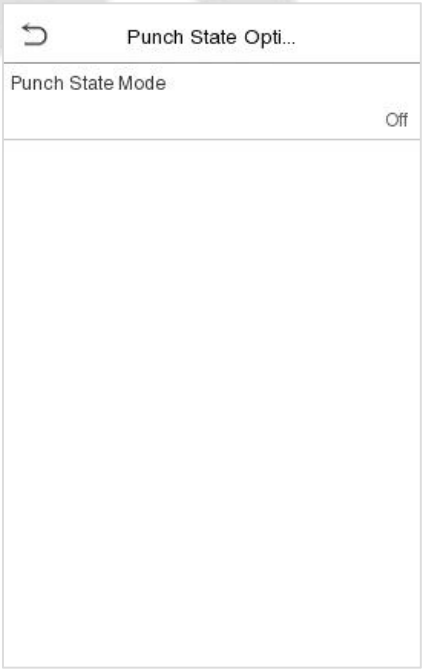
On the **All Bell Schedules** interface, tap on the required bell schedule, and tap **Edit** to edit the selected bell schedule. The editing method is the same as the operations of adding a new bell schedule.

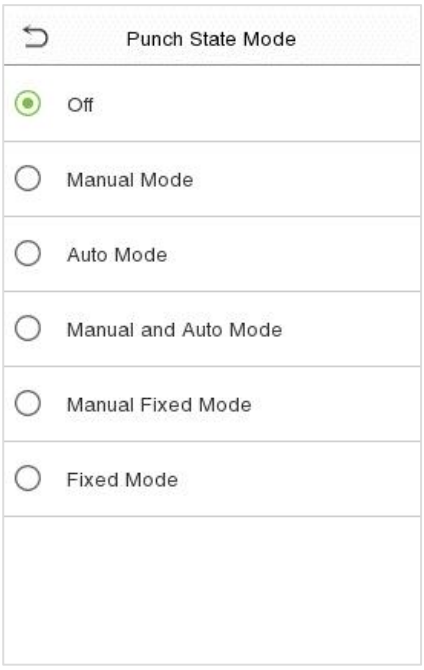
- **Delete a bell:**

On the **All Bell Schedules** interface, tap the required bell schedule, and tap **Delete**, and then tap **Yes** to delete the selected bell.

7.4 Punch States Options

Tap **Punch States Options** on the **Personalize** interface to configure the punch state settings.





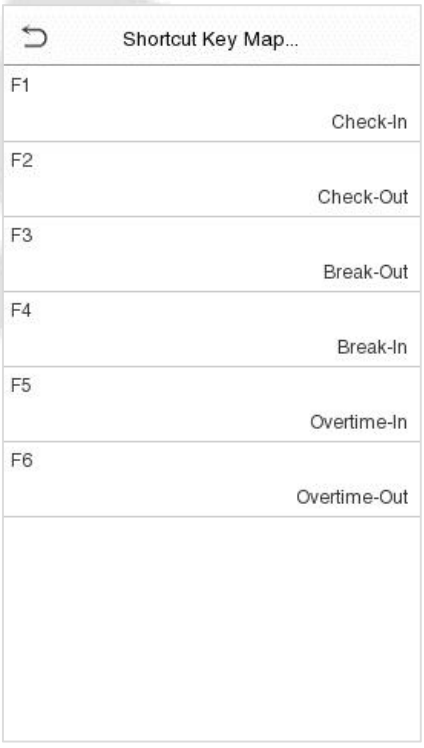
Function Description

Function Name	Description
Punch State Mode	**Off:** Disable the punch state function. Therefore, the punch state key set under **Shortcut Key Mappings** menu will become invalid. **Manual Mode:** Switch the punch state key manually, and the punch state key will disappear after **Punch State Timeout**. **Auto Mode:** The punch state key will automatically switch to a specific punch status according to the predefined time schedule which can be set in the Shortcut Key Mappings. **Manual and Auto Mode:** The main interface will display the auto-switch punch state key. However, the users will still be able to select alternative that is the manual attendance status. After timeout, the manual switching punch state key will become auto-switch punch state key. **Manual Fixed Mode:** After the punch state key is set manually to a particular punch status, the function will remain unchanged until being manually switched again. **Fixed Mode:** Only the manually fixed punch state key will be shown. Users cannot change the status by pressing any other keys.

7.5 Shortcut Key Mappings

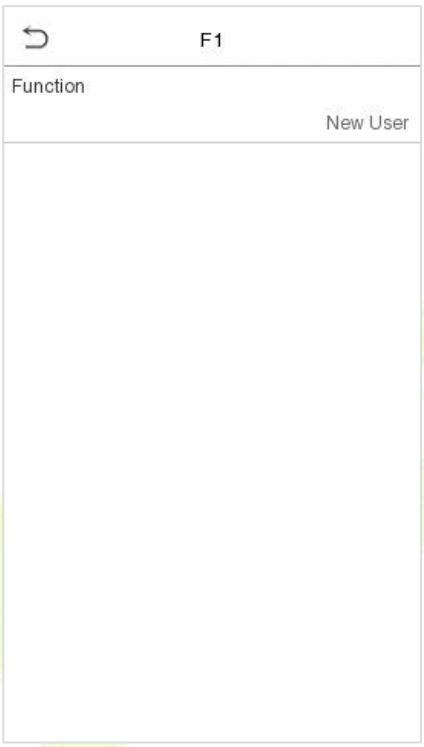
Users may define shortcut keys for attendance status and for functional keys which will be defined on the main interface. So, on the main interface, when the shortcut keys are pressed, the corresponding attendance status or the function interface will be displayed directly.

Tap **Shortcut Key Mappings** on the **Personalize** interface to set the required shortcut keys.



- On the **Shortcut Key Mappings** interface, tap on the required shortcut key to configure the shortcut key settings.

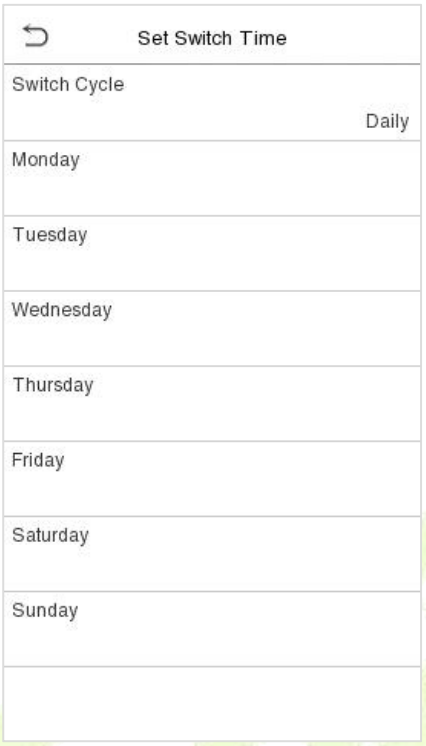
- On the **Shortcut Key (**that is "F1"**)** interface, tap **function** to set the functional process of the shortcut key either as punch state key or function key.
- If the Shortcut key is defined as a function key (such as New user, All users, etc.), the configuration is completed as shown in the image below.

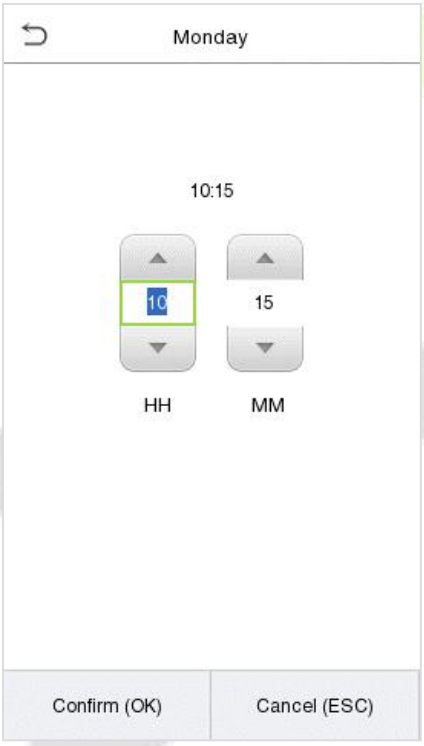


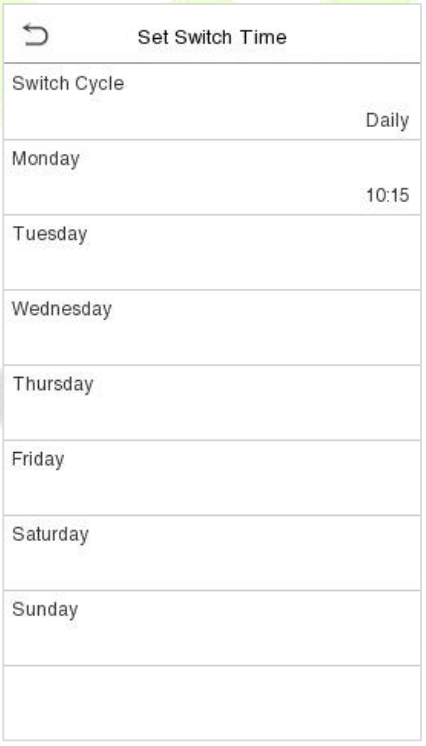
- If the Shortcut key is set as a punch state key (such as check in, check out, etc.), then it is required to set the punch state value (valid value 0~250), name.

Note: *When the function is set to Undefined, the device will not enable the punch state key.*

- **Set the Switch Time**
  - The switch time is set in accordance with the punch state options.
  - On the **Punch States Options** interface, when the **punch state mode** is set to **auto mode**, the switch time should be set.
  - On the **Shortcut Key** interface, tap **Set Switch Time** to set the switch time.
  - On the **Switch Cycle** interface, select the switch cycle (Monday, Tuesday etc.) as shown in the image below.
  - Once the Switch cycle is selected, set the switch time for each day and tap **OK** to confirm, as shown in the image below.





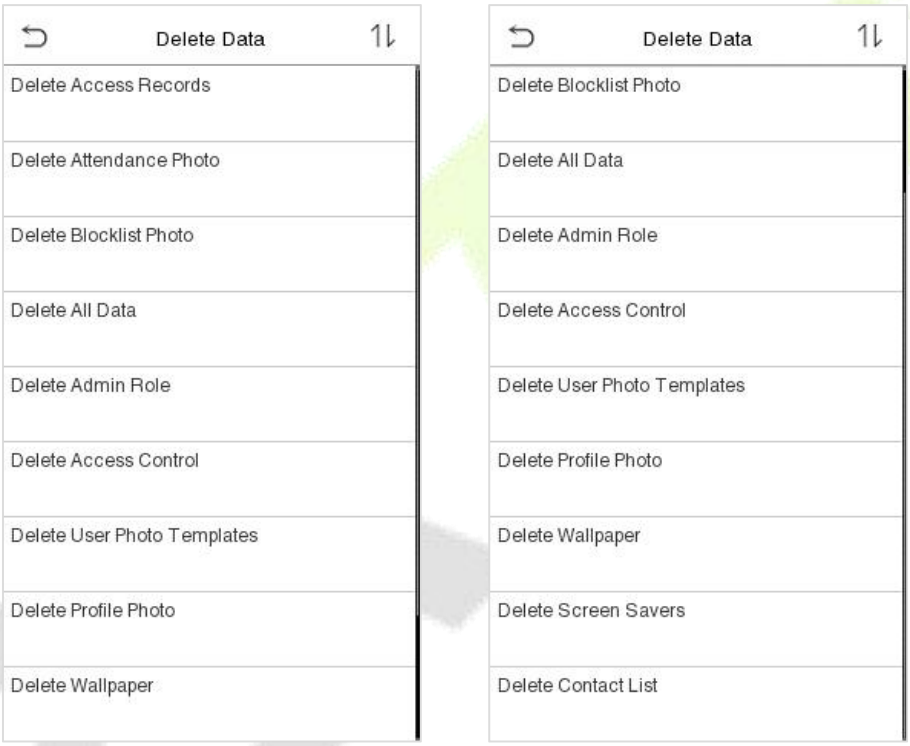


8 Data Management

On the **Main Menu**, tap **Data Mgt.** to delete the relevant data in the device.

8.1 Delete Data

Tap **Delete Data** on the **Data Mgt.** interface to delete the required data.

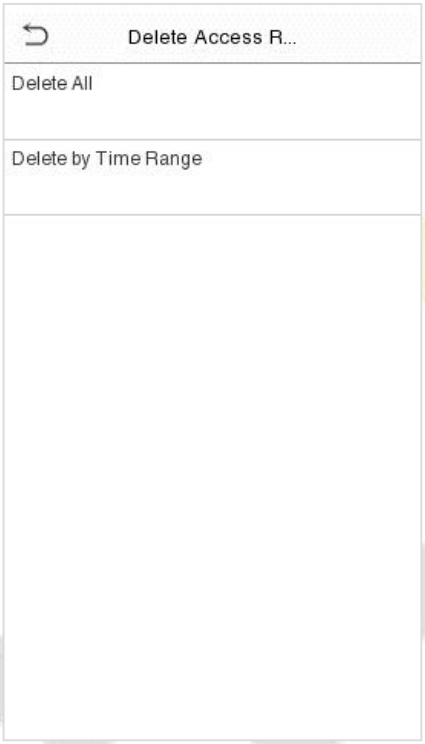


Function Description

Function Name	Description
Delete Access Records/Attendance Data	To delete access records/attendance data conditionally.
Delete Attendance Photo	To delete attendance photos of designated personnel.
Delete Blocklist Photo	To delete the photos taken during failed verifications.
Delete All Data	To delete information and attendance logs/access records of all registered users.
Delete Admin Role	To remove all administrator privileges.
Delete Access Control	To delete all access data.

Delete User Photo Templates	To delete user photo templates in the device. When deleting template photos, there is a risk reminder: "**Face re-registration is required after an algorithm upgrade.**"
Delete Profile Photo	To delete all user photos in the device.
Delete Wallpaper	To delete all wallpapers in the device.
Delete Screen Savers	To delete the screen savers in the device.
Delete Contact List	To delete all contact list of video intercom in the device.

The user may select Delete All or Delete by Time Range when deleting the access records/ attendance data, attendance photos or block listed photos. Selecting Delete by Time Range, you need to set a specific time range to delete all data within a specific period.



Select **Delete by Time Range**.

Set the time range and click **OK**.

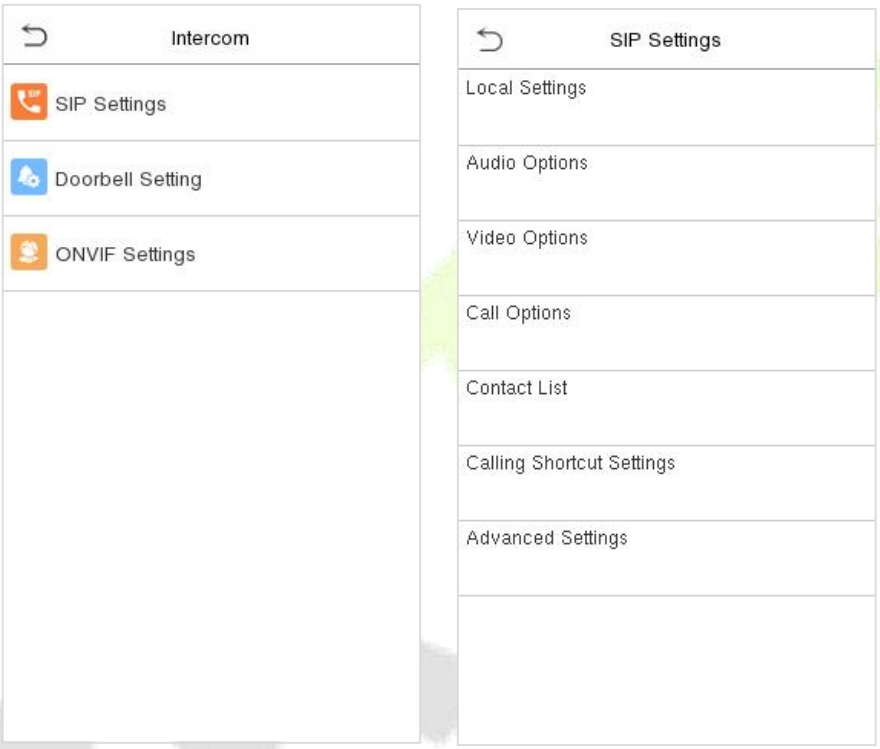
9 Intercom

On the **Main Menu**, tap **Intercom** to set relevant parameters of intercom, including SIP, Doorbell and ONVIF Settings.

The device achieves video intercom there are two modes, respectively, the LAN and SIP server. For more details, please refer to 17 SIP Video Intercom.

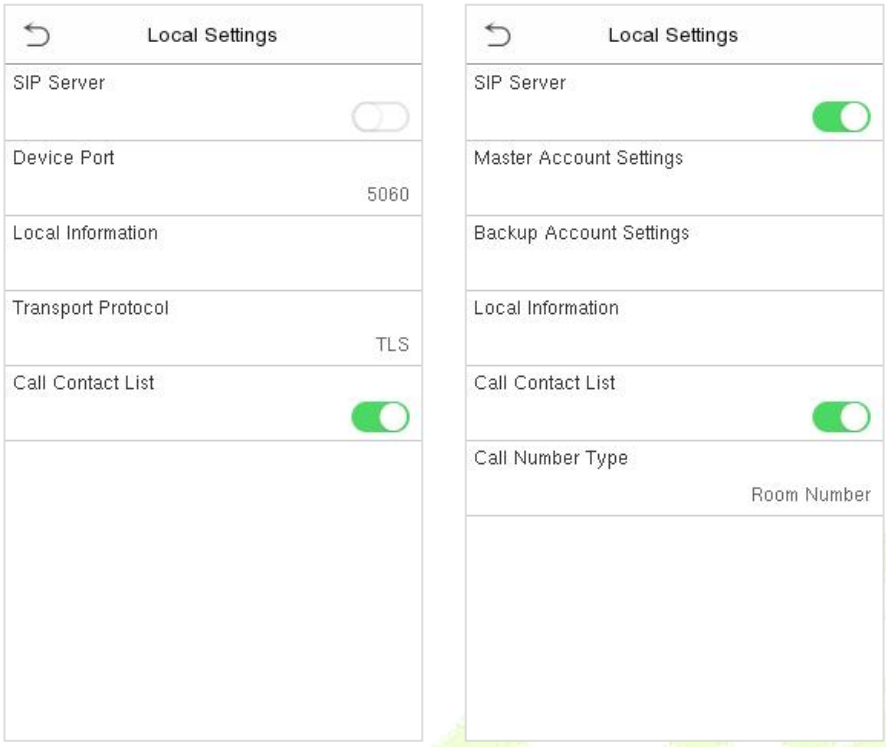
9.1 SIP Settings

Tap **SIP Settings** on the **Intercom** interface to configure the settings.



9.1.1 Local Settings

Tap **Local Settings** on the **SIP Settings** interface.



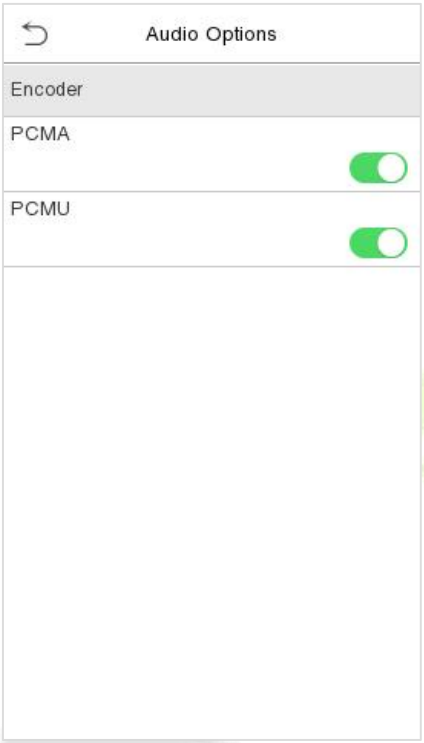
Function Description

Function Name	Description
SIP Server	Select whether to enable the SIP server. When it is enabled, the SIP account needs to be set. **Note:** Every time this feature is turned on or off, the contact list will be reset.
Master Account Settings	After assigning the SIP account to the device on the ZKBio CVAccess, the account information will be automatically synchronized to the device. You don't need to configure it manually.
Backup Account Settings	Select whether to enable the backup account settings.
Device Port	When using a local area network for intercom, enter the device port number.
Local Information	**Device Type:** Set the device type as **Entrance Station** or **Fence Terminal**. And set the specific location information of the device, including the block, unit (can be disabled), and room number. When it is set as Fence Terminal, the call page will display block, unit and room number. **Note:** The contact list will be cleared after changing the device type.
Transport Protocol	Set the transport protocol between the device and indoor monitor.
Call Contact List	Select whether to enable the contact list on the call page. When it is enabled, you can click the  icon to open the contact list on the call

	page.
Call Number Type	**Room Number:** The device can call the extension number (short number) or room number. **SIP Account Number:** The device can only call the SIP account.

9.1.2 Audio Options

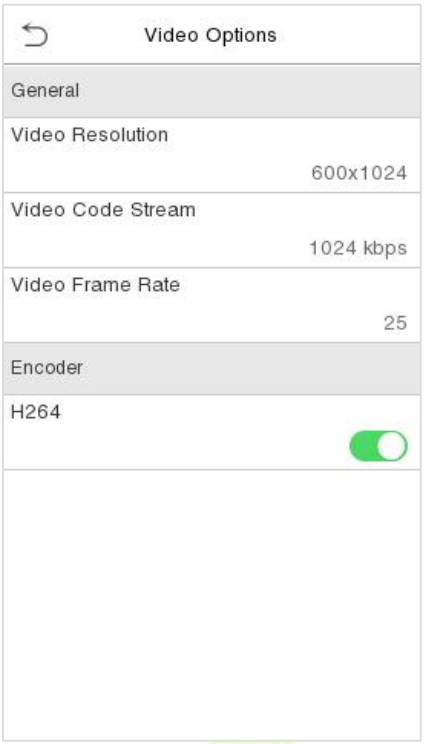
Tap **Audio Options** on the **SIP Settings** interface.



Select the audio encoder for intercom. Both PCMU and PCMA provide better voice quality, but they take up more bandwidth, requiring 64kbps.

9.1.3 Video Options

Tap **Video Options** on the **SIP Settings** interface.

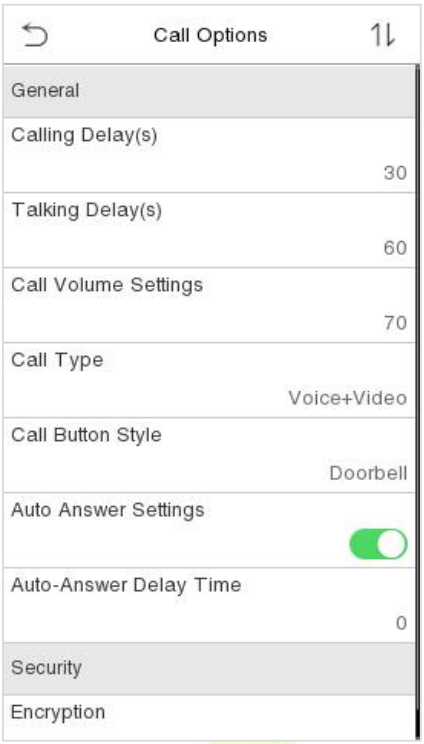


Function Description

Function Name	Description
Video Resolution	Select the video resolution of the intercom, 1024 x 576 (for landscape screen) or 600 x 1024 (for portrait screen). The device is suggested to set as 600 x 1024.
Video Code Stream	Select the video code stream of the intercom, the larger the value, the higher the picture and sound quality of the video, and the greater the network requirements.
Video Frame Rate	Refers to the number of frames per second of the intercom video display, the larger the value the smoother, the device defaults to 25Hz, does not support modification.
Encoder	Whether to enable H264 Encoder.

9.1.4 Call Options

Tap **Call Options** on the **SIP Settings** interface.



Function Description

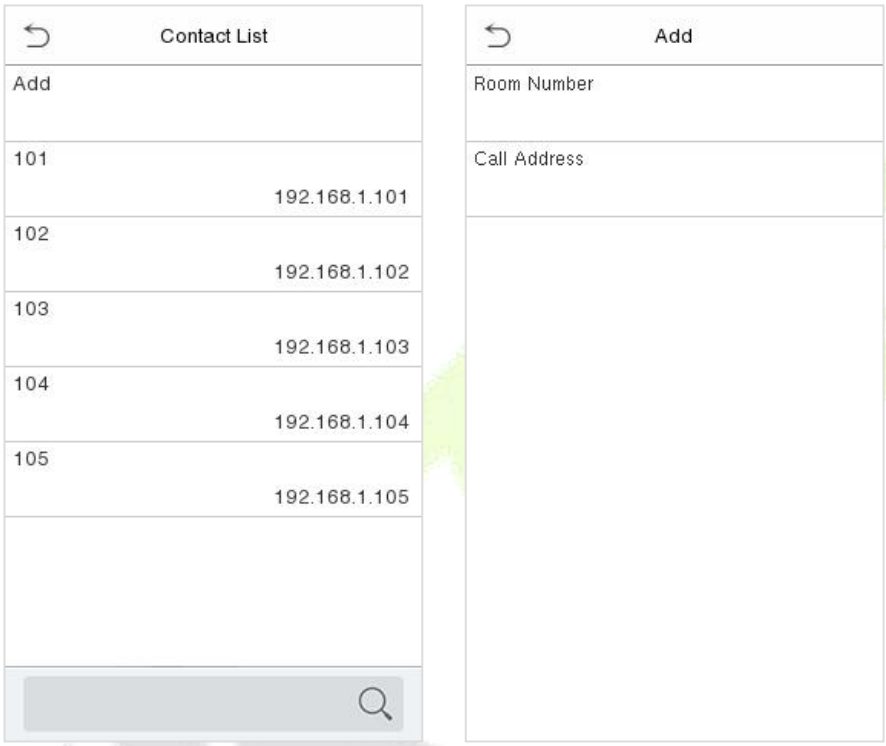
Function Name	Description
Calling Delay(s)	Set the time of call, valid value 30 to 60 seconds.
Talking Delay(s)	Set the time of intercom, valid value 60 to 120 seconds. It is suggested to set as 60s.
Call Volume Settings	Set the volume of the call, with valid value ranging from 0 to 100.
Call Type	Set the call type to Voice only or Voice+Video.
Call Button Style	Change the visual intercom call button on the standby interface of the device, optional doorbell label or phone label .
Auto Answer Settings	Select whether to enable the auto answer function. When it is enabled, the device will automatically answer if the indoor monitor calls.
Auto-Answer Delay Time	The device will automatically answer after the set delay time if the indoor monitor calls, valid value 0 to 10 seconds.
Encryption	It is disabled by default.

9.1.5 Contact List

Tap **Contact List** on the **SIP Settings** interface.

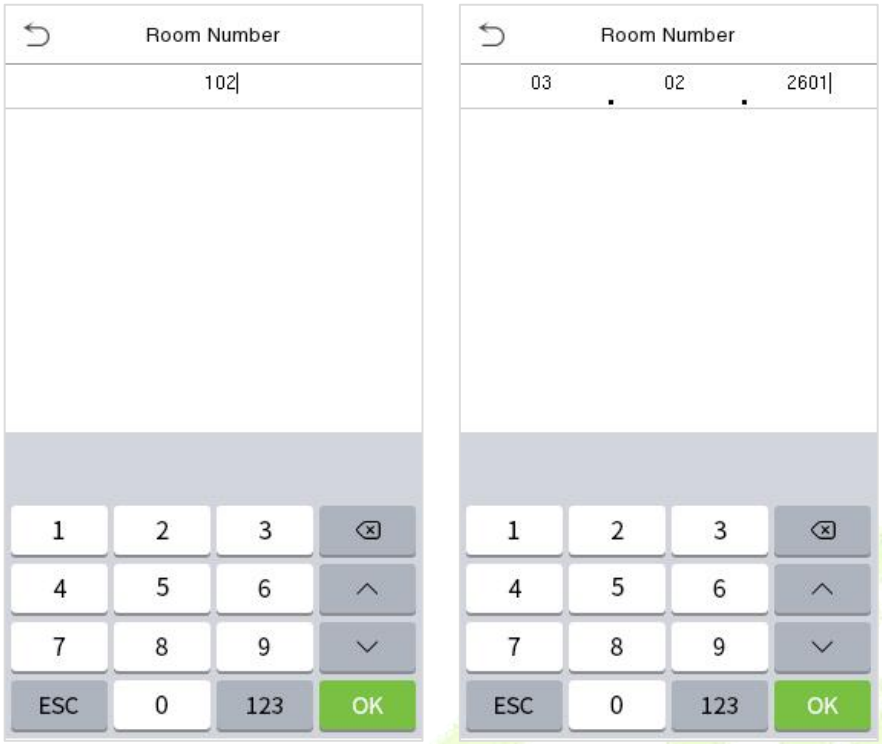
In SIP Server mode, the contact list is synchronized by the ZKBio CVAccess Server to the device. The contact list can only be viewed, cannot be edited. When the SIP server is disabled, the room number and call address of the indoor monitors can be added here.

Click **Add** to enter the Add Contact List interface.



- **Room Number:** Customize the number of the indoor monitor.

When the device type is set as **Entrance Station**, the room number can be 1~ 4 digits. When the device type is set as **Fence Terminal**, you need to input the block, unit and room number. For example, if the indoor monitor is in Block 3, Unit 2, Room 2601, then input "03.02.2601".

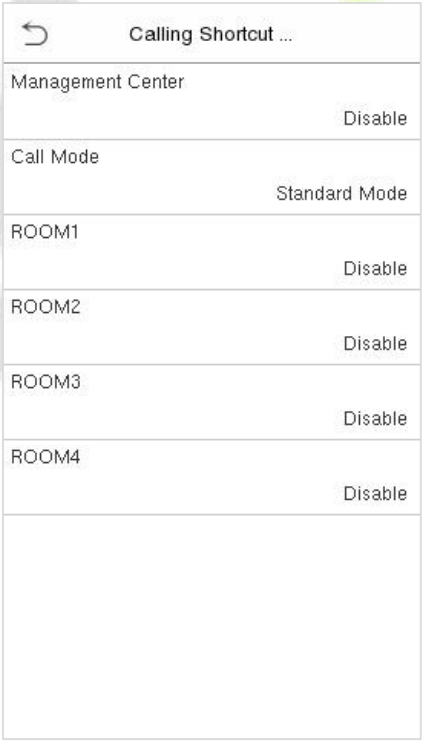


Entrance Station Fence Terminal

- **Call Address:** It is the IP Address of the indoor monitor.

9.1.6 Calling Shortcut Settings

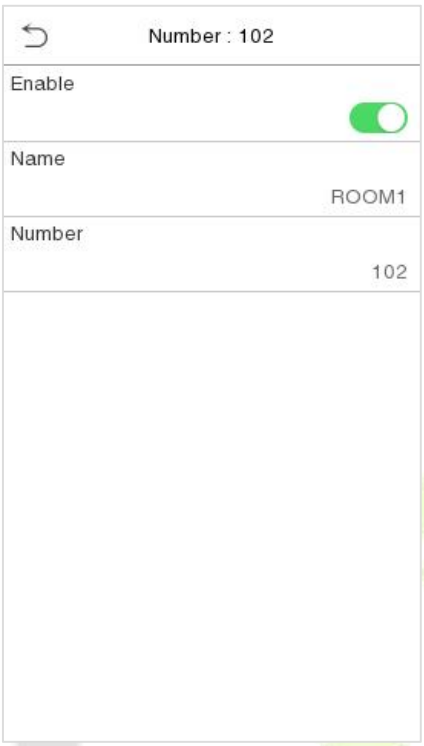
Tap **Calling Shortcut Settings** on the **SIP Settings** interface.



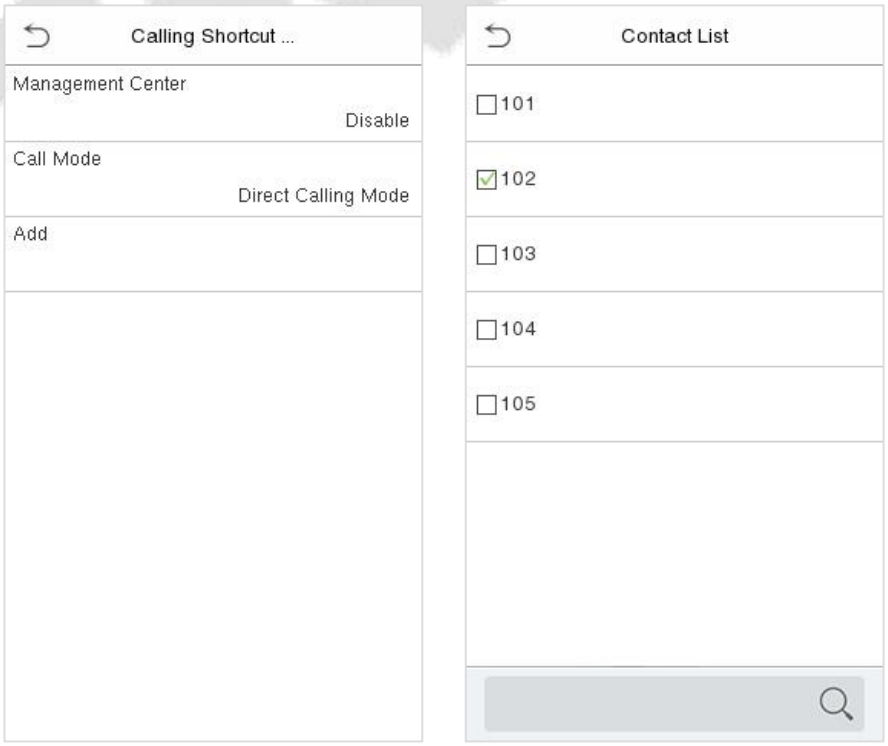
Management Center: Select whether to enable the Management Center and set its number. After enabling, you can click the  icon to directly call the admin on the call page.

Call Mode: It can be set as **Standard Mode** or **Direct Calling Mode**.

- In Standard mode, there are **4** shortcut keys that can be enabled and defined in the device: **ROOM1**, **ROOM2, ROOM3** and **ROOM4**. You can set a shortcut key to call the indoor monitor quickly without entering the number of the indoor monitor each time.
  Name: Customize the name of the shortcut keys.
  Number: Select the room number that set in the **Contact List** Menu.



- In Direct Calling mode, the user can call multiple indoor monitors directly.
  Click **Call Mode > Direct Calling Mode> Add**, select the indoor monitors that you want to call, then the indoor monitors will be displayed in the list.



9.1.7 Advanced Settings

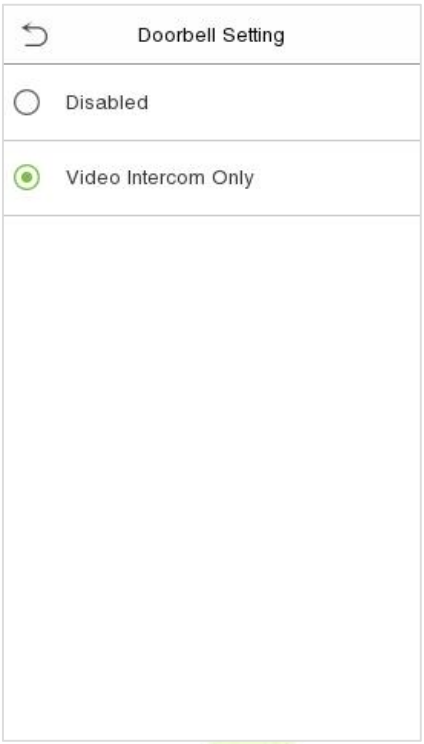
Tap **Advanced Settings** on the **SIP Settings** interface.

Function Description

Function Name	Description
DTMF Type	Set the DTMF type as AUTO, SIP INFO or RFC2833.
DTMF	The value should be set as same as the value of DTMF in the indoor monitor.

9.2 Doorbell Setting

Tap **Doorbell Setting** on the **Intercom** interface to set the doorbell.



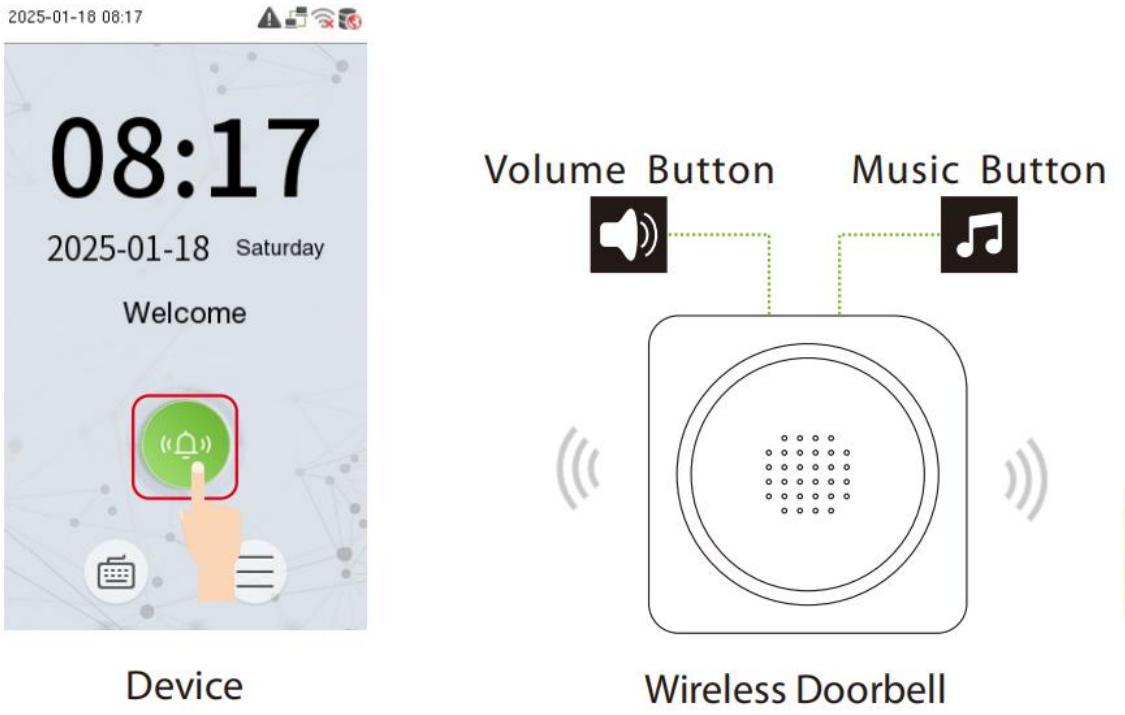
Function Description

Function Name	Description
Disabled	The doorbell button is disabled.
Video Intercom Only	Tap or icon on standby interface of the device to make a call.

9.2.1 Connect the Wireless Doorbell★

Note: *This function needs to be used with the wireless doorbell.*

1. First, power on the wireless doorbell. Then, press and hold the music button for 1.5 seconds until the indicator flashes to indicate it's in pairing mode. After that, click on the device icon , if the wireless doorbell rings and the indicator flashes, it means the connection is successful.



2. After a successful pairing, click the icon of the device will ring the wireless doorbell.

Note: *Generally, each device connects to 1 wireless doorbell.*

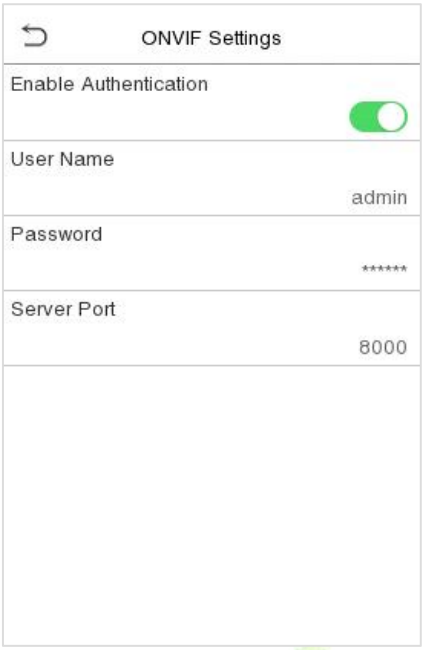
- **Unbinding the Wireless Doorbell**

Power off the wireless doorbell first, then re-installing the batteries while pressing and holding the music button until the indicator is on, indicating that the unbinding is successful.

9.3 ONVIF Settings

Note: *This function needs to be used with the network video recorder (NVR).*

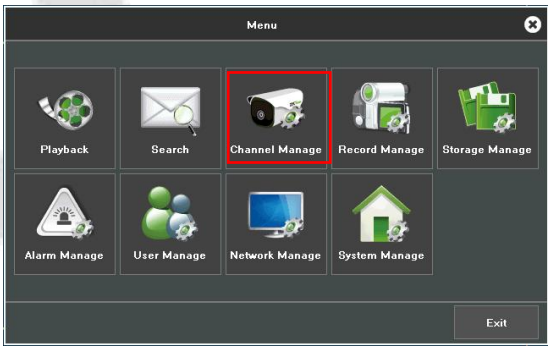
1. Set the device to the same network segment as the NVR.
2. Tap **ONVIF Settings** on the **Intercom** interface.



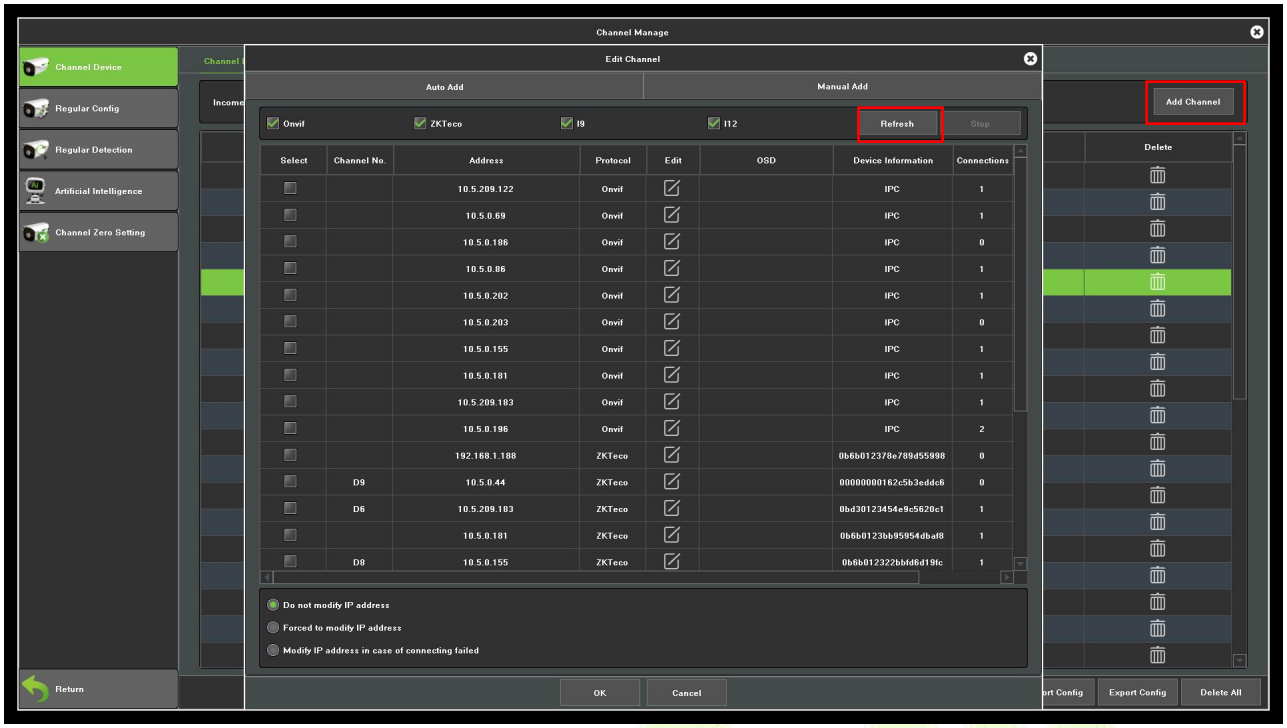
Function Description

Function Name	Description
Enable Authentication	Enable/Disable the Authentication Function. When it is disabled, there is no need to input the User Name and Password when adding the device to the NVR.
User Name	Set the User Name. The default is **admin**.
Password	Set the password. The default is **admin@123**.
Server Port	The default is 8000, and cannot be modified.

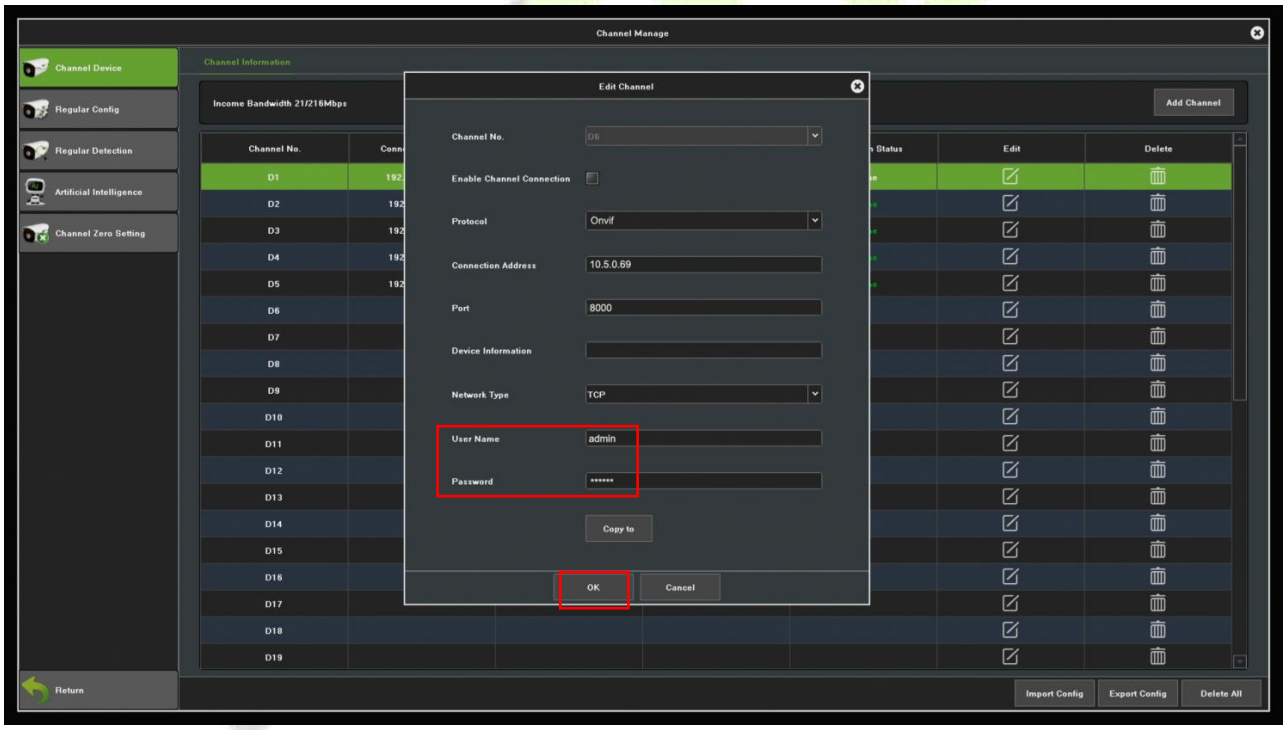
3. On the NVR system, click on [**Start**] > [**Menu**], then the main menu will pop up.



4. Click [**Channel Manage**] > [**Add Channel**] > [**Refresh**] to search for the device.

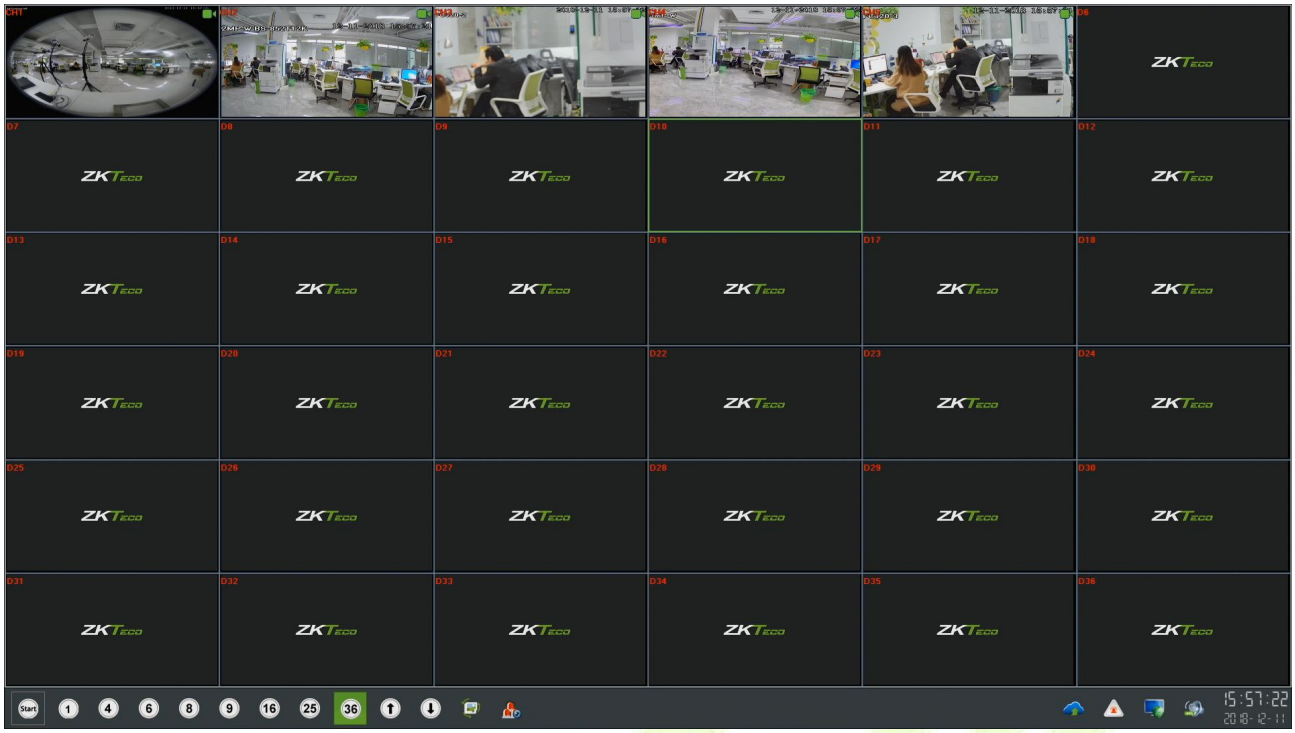


5. Select the checkbox for the device you want to add and edit the parameters in the corresponding text field, then click on [**OK**] to add it to the connection list.



Note: *The User Name and Password is set in the* ***ONVIF Settings*** *of the device.*

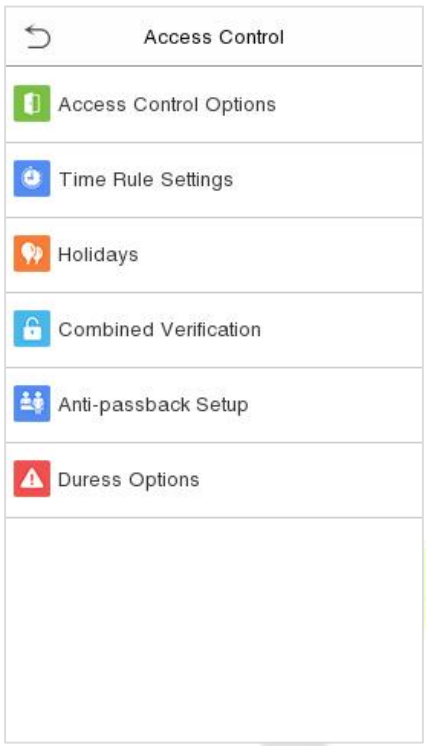
6. After adding successfully, the video image obtaining from the device can be viewed in real-time.



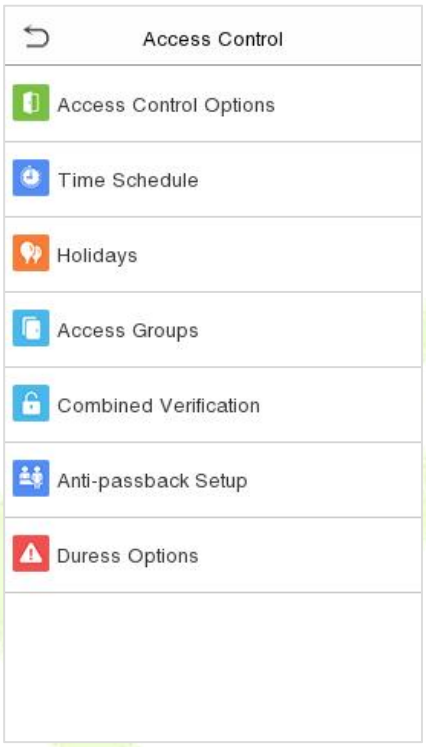
For more details, please refer to the *NVR User Manual*.

10 Access Control

On the **Main Menu**, tap **Access Control** to set the schedule of door opening, locks control and to configure other parameters settings related to access control.



A&C Terminal

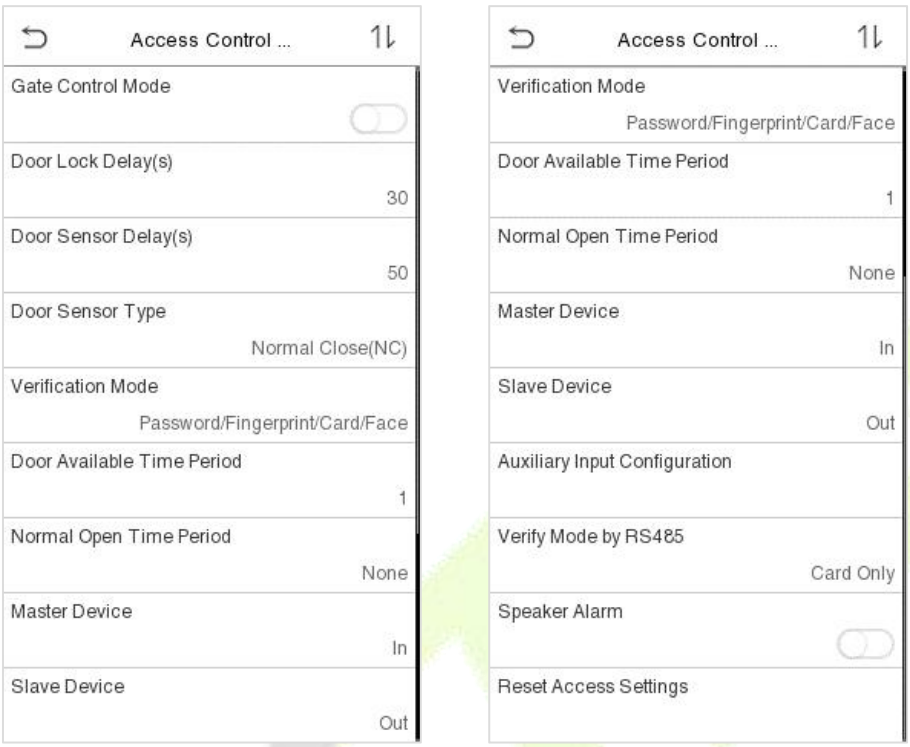


T&A Terminal

- **To gain access, the registered user must meet the following conditions:**
  - The relevant door's current unlock time should be within any valid time zone of the user time period.
  - The corresponding user's group must be already set in the door unlock combination (and if there are other groups, being set in the same access combo, then the verification of those group's members are also required to unlock the door).
  - In default settings, new users are allocated into the first group with the default group time zone, where the access combo is "1" and is set in unlock state by default.

10.1 Access Control Options

Tap **Access Control Options** on the **Access Control** interface to set the parameters of the control lock of the terminal and related equipment.



Function Description

Function Name	Description
Gate Control Mode	Toggle between ON or OFF switch to get into gate control mode or not. When set to **ON**, on this interface will remove Door lock relay, Door sensor relay and Door sensor type options.
Door Lock Delay (s)	The length of time that the device controls the electric lock to be in unlock state. Valid value: 1~10 seconds; 0 second represents disabling the function.
Door Sensor Delay (s)	If the door is not locked and is being left open for a certain duration (Door Sensor Delay), an alarm will be triggered. The valid value of Door Sensor Delay ranges from 1 to 255 seconds.
Door Sensor Type	There are three Sensor types: **None, Normal Open** and **Normal Closed**. **None:** It means door sensor is not in use. **Normal Open:** It means the door is always left opened when electric power is on. **Normal Closed:** It means the door is always left closed when electric power is on.
Verification Mode	The supported verification mode includes Password/Fingerprint/Card/Face, Fingerprint Only, User ID Only, Password, Card Only and so on.
Door Available Time Period	To set time period for door, so that the door is available only during that period.
Normal Open Time Period	Scheduled time period for "Normal Open" mode, so that the door is always left open during this period.

Master Device	While configuring the master and slave devices, you may set the state of the master as **Out** or **In**. **Out**: A record of verification on the master device is a check-out record. **In**: A record of verification on the master device is a check-in record.
Slave Device	While configuring the master and slave devices, you may set the state of the slave as **Out** or **In**. **Out**: A record of verification on the slave device is a check-out record. **In**: A record of verification on the slave device is a check-in record.
Auxiliary Input Configuration	Sets the door unlock time period and auxiliary output type of the auxiliary terminal device. Auxiliary output types include None, Trigger door open, Trigger Alarm, Trigger door open and Alarm.
Verify Mode by RS485	The verification mode is used when the device is used either as a host or slave. The supported verification mode includes Card Only and Card + Password.
Speaker Alarm	Transmits a sound alarm or disassembly alarm from the local. When the door is closed or the verification is successful, the system will cancel the alarm from the local.
Reset Access Settings	The access control reset parameters include door lock delay, door sensor delay, door sensor type, verification mode, door available time period, normal open time period, master device, and alarm. However, erased access control data in Data Mgt. is excluded.

10.2 Time Rule Setting

Tap **Time Rule Setting** on the Access Control interface to configure the time settings.

- The entire system can define up to 50 Time Rules.
- Each time-rule represents **10** Time Zones, i.e., **1** week and **3** holidays, and each time zone is a standard 24 hour period per day and the user can only verify within the valid time-period.
- One can set a maximum of 3 time periods for every time zone. The relationship among these time-periods is "**OR**". Thus, when the verification time falls in any one of these time-periods, the verification is valid.
- The Time Zone format of each time-period is **HH MM-HH MM**, which is accurate to minutes according to the 24-hour clock.

Tap the grey box to search the required Time Rule and specify the required Time Rule number (maximum up to 50 rules).

On the selected Time Rule number interface, tap on the required day (that is Monday, Tuesday etc.) to set the time.

Specify the start and the end time, and then tap **OK**.

Notes:

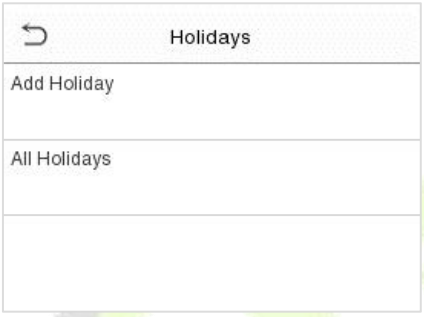
- *When the End Time is earlier than the Start Time, (such as 23:57~23:56), it indicates that access is prohibited all day.*

- *When the End Time is later than the Start Time, (such as 00:00~23:59), it indicates that the interval is valid.*
- *The effective Time Period to keep the Door Unlock or open all day is (00:00~23:59) or also when the Ending Time is later than the Starting Time, (such as 08:00~23:59).*
- *The default Time Zone 1 indicates that door is open all day long.*

10.3 Holidays

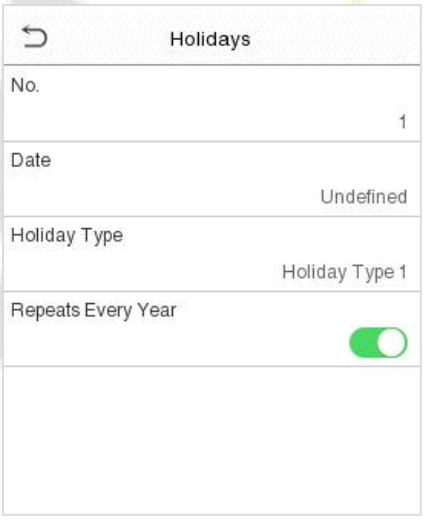
Whenever there is a holiday, you may need a special access time; but changing everyone's access time one by one is extremely cumbersome, so you can set a holiday access time which is applicable to all employees, and the user will be able to open the door during the holidays.

Tap **Holidays** on the **Access Control** interface to set the Holiday access.



- **Add a new holiday:**

Tap **Add Holiday** on the **Holidays** interface and set the holiday parameters.



- **Edit a holiday:**

On the **Holidays** interface, select a holiday item to be modified. Tap **Edit** to modify holiday parameters.

- **Delete a Holiday:**

On the **Holidays** interface, select a holiday item to be deleted and tap **Delete**. Press **OK** to confirm deletion. After deletion, this holiday is no longer displayed on **All Holidays** interface.

10.4 Access Groups★

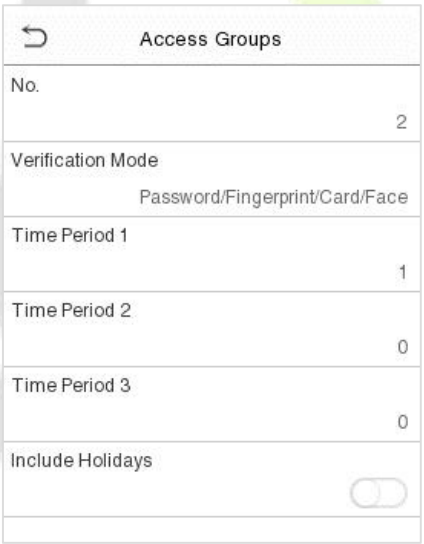
***Note**: This function is only available for T&A PUSH.*

This is to easily manage groupings and users in different access groups. Settings of an access group such as access time zones are applicable to all members in the group by default. However, users may manually set the time zones as needed. User authentication takes precedence over group authentication when group authentication modes overlap with the individual authentication methods. Each group can set a maximum of three time zones. By default, newly enrolled users are assigned to Access Group 1; they can be assigned to other access groups.

Click **Access Groups** on the **Access Control** interface.

- **Add a New Group**

Click **New Group** on the Access Groups interface and set access group parameters.



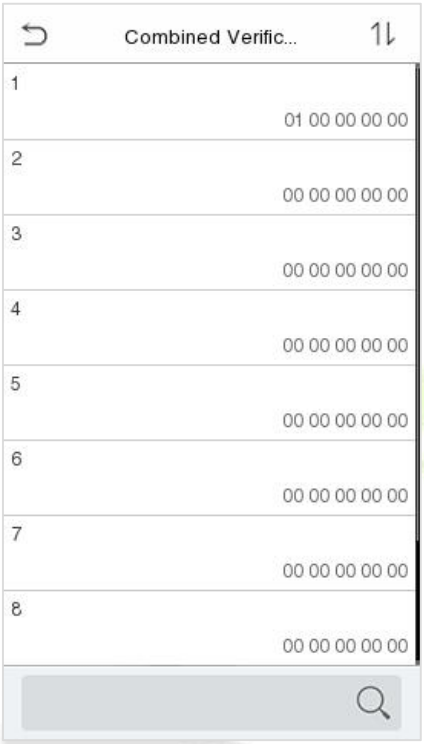
Notes:

- There is a default access group numbered 1, which cannot be deleted, but can be modified.
- A number cannot be modified after being set.
- When the holiday is set to be valid, personnel in a group may only open the door when the group time zone overlaps with the holiday time period.
- When the holiday is set to be invalid, the access control time of the personnel in a group is not affected during holidays.

10.5 Combined Verification

Access groups are arranged into different door-unlocking combinations to achieve multiple verifications and strengthen the security. In a door-unlocking combination, the range of the combined number N is: 0 ≤ N ≤ 5, and the number of members N may all belong to one access group or may belong to five different access groups.

Tap **Combined Verification** on the **Access Control** interface to configure the combined verification setting.



On the combined verification interface, tap the Door-unlock combination to be set, and tap the **up** and **down** arrows to input the combination number, and then press **OK**.

For Example:

- The **Door-unlock combination 1** is set as **(01 03 05 06 08)**, indicating that the unlock combination 1 consists of 5 people, and the 5 individuals are from 5 groups, namely, **Access Control Group** 1 (AC group 1), AC group 3, AC group 5, AC group 6, and AC group 8, respectively.
- The **Door-unlock combination 2** is set as **(02 02 04 04 07)**, indicating that the unlock combination 2 consists of 5 people; the first two are from AC group 2, the next two are from AC group 4, and the last person is from AC group 7.
- The **Door-unlock combination 3** is set as **(09 09 09 09 09)**, indicating that there are 5 people in this combination; all of which are from AC group 9.
- The **Door-unlock combination 4** is set as **(03 05 08 00 00)**, indicating that the unlock combination 4 consists of only three people. The first person is from AC group 3, the second person is from AC group 5, and the third person is from AC group 8.

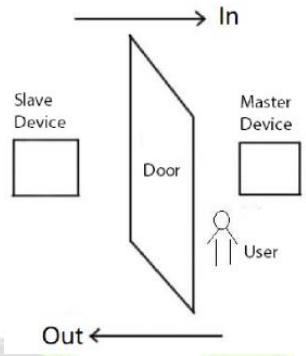
- **Delete a Door-unlocking Combination:**

Set all Door-unlock combinations to 0 if you want to delete door-unlock combinations.

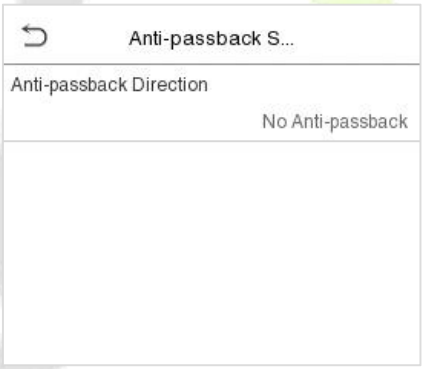
10.6 Anti-passback Setup

It is possible that users may be followed by some persons to enter the door without verification, resulting in a security breach. So, to avoid such a situation, the Anti-Passback option was developed. Once it is enabled, the check-in record must match with the check-out record so as to open the door.

This function requires two devices to work together: one is installed inside the door (master device), and the other one is installed outside the door (slave device). The two devices communicate via the Wiegand signal. The Wiegand format and Output type (User ID / Card Number) adopted by the master device and slave device must be consistent.



Tap **Anti-passback Setup** on the **Access Control** interface.



Function Description

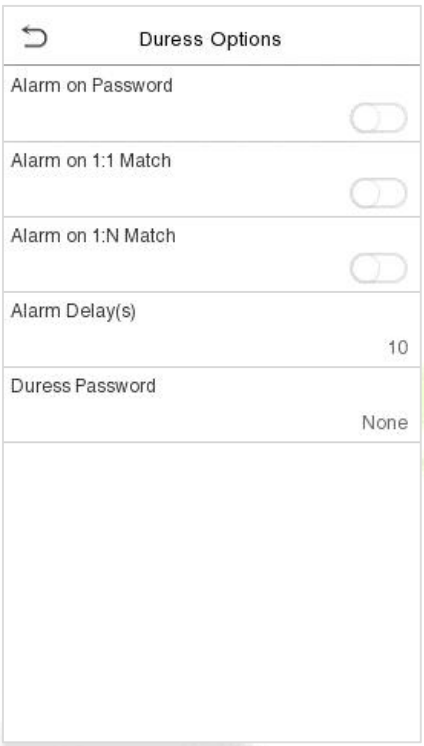
Function Name	Description
Anti-passback Direction	**No Anti-passback:** Anti-passback function is disabled, which means successful verification through either the master device or slave device can unlock the door. The attendance state is not saved in this option. **Out Anti-passback:** After a user checks out, only if the last record is a check-in record, the user can check-out again; otherwise, the alarm will be triggered. However, the user can check-in freely. **In Anti-passback:** After a user checks in, only if the last record is a check-out record, the user can check-in again; otherwise, the alarm will be triggered. However, the user can check-out freely. **In/Out Anti-passback:** After a user checks in/out, only if the last record is a

	check-out record, the user can check-in again; or if it is a check-in record, the user can check-out again; otherwise, the alarm will be triggered.

10.7 Duress Options

Once a user activates the duress verification function with specific authentication method(s), and when he/she is under coercion and authenticates using duress verification, the device will unlock the door as usual, but at the same time, a signal will be sent to trigger the alarm.

On **Access Control** interface, tap **Duress Options** to configure the duress settings.



Function Description

Function Name	Description
Alarm on Password	When a user uses the password verification method, an alarm signal will be generated, otherwise there will be no alarm signal.
Alarm on 1:1 Match	When a user uses any fingerprint to perform the 1:1 verification, an alarm signal will be generated, otherwise there will be no alarm signal.
Alarm on 1:N Match	When a user uses any fingerprint to perform 1:N verification, an alarm signal will be generated, otherwise there will be no alarm signal.
Alarm Delay(s)	Alarm signal will not be transmitted until the alarm delay time is elapsed. The value ranges from 1 to 999 seconds.
Duress Password	Set the 6-digit duress password. When the user enters this duress password for verification, an alarm signal will be generated.

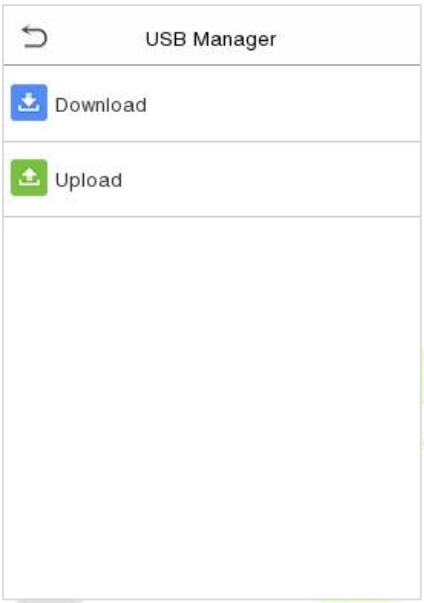
11 USB Manager

You can import user information, access data and other data from a USB drive to computer or other devices.

Before uploading/downloading data from/to the USB disk, insert the USB disk into the USB slot first.

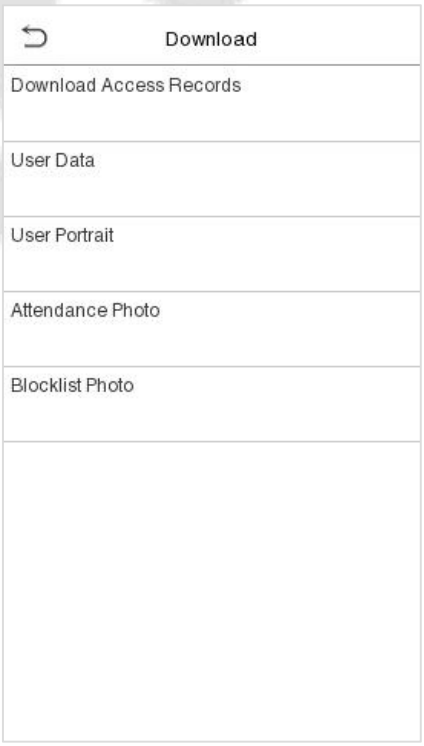
Note: *Only FAT32 format is supported when downloading data using USB disk.*

Tap **USB Manager** on the main menu interface.



11.1 USB Download

On the **USB Manager** interface, tap **Download**.

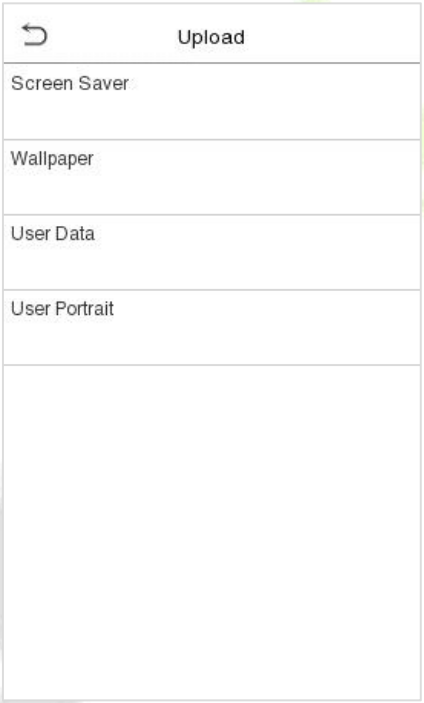


Function Description

Function Name	Description
Download Access Records	To download access record in specified time period into USB disk.
User Data	To download all user information from the device into USB disk.
User Portrait	To download all user portraits from the device into USB disk.
Attendance Photo	To download all attendance photos from the device into USB disk.
Blocklist Photo	To download all blocklisted photos (photos taken after failed verifications) from the device into USB disk.

11.2 USB Upload

On the **USB Manager** interface, tap **Download**.



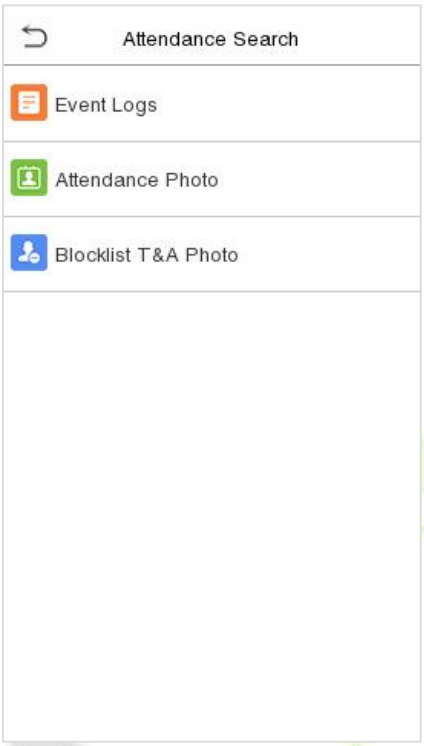
Function Description

Function Name	Description
Screen Saver	To upload all screen savers from USB disk into the device. You can choose Upload selected photo or upload all photos. The images will be displayed on the device's main interface after upload.
Wallpaper	To upload all wallpapers from USB disk into the device. You can choose Upload selected photo or upload all photos. The images will be displayed on the screen after upload.
User Data	To upload all the user information from USB disk into the device.
User Portrait	To upload all user portraits from USB disk into the device.

12 Attendance Search

Once the identity of a user is verified, the Event Logs will be saved in the device. This function enables users to check their access records.

Click **Attendance Search** on the **Main Menu** interface to search for the required Access/Attendance log.

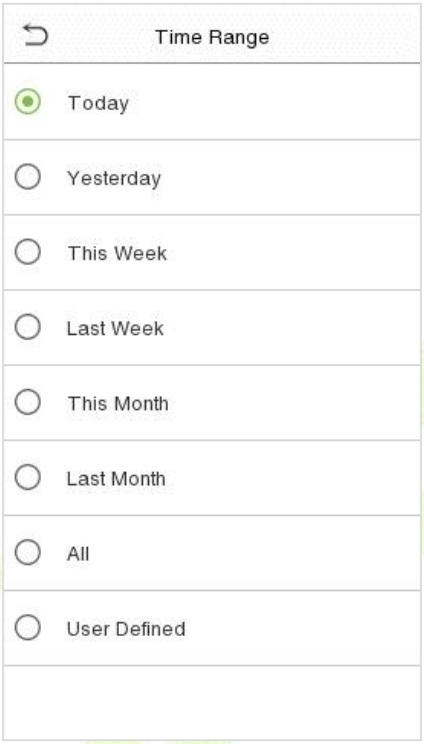


The process of searching for attendance and blocklist photos is similar to that of searching for event logs. The following is an example of searching for event logs.

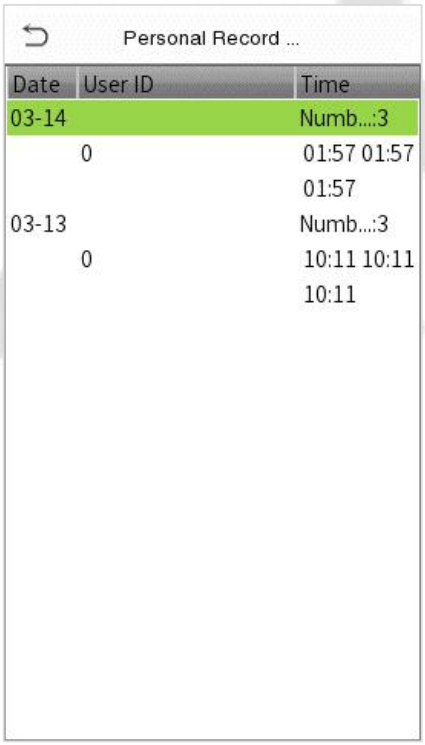
On the **Attendance Search** interface, tap **Event Logs** to search for the required record.

1. Enter the user ID to be searched and click OK. If you want to search for logs of all users, click OK without entering any user ID.

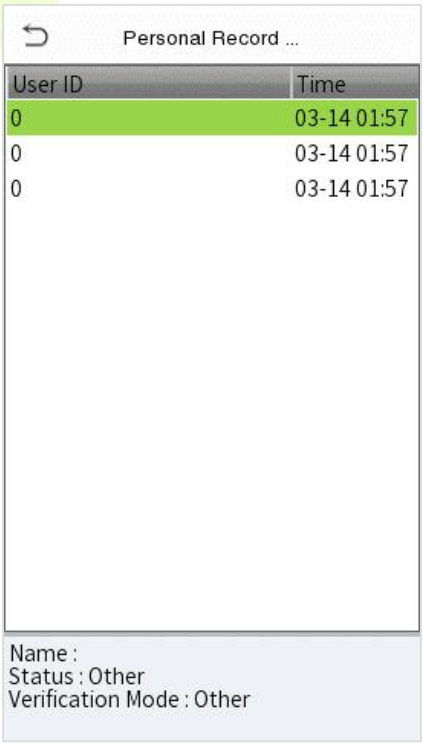
2. Select the time range in which the logs need to be searched.



3. Once the log search succeeds. Tap the login highlighted in green to view its details.

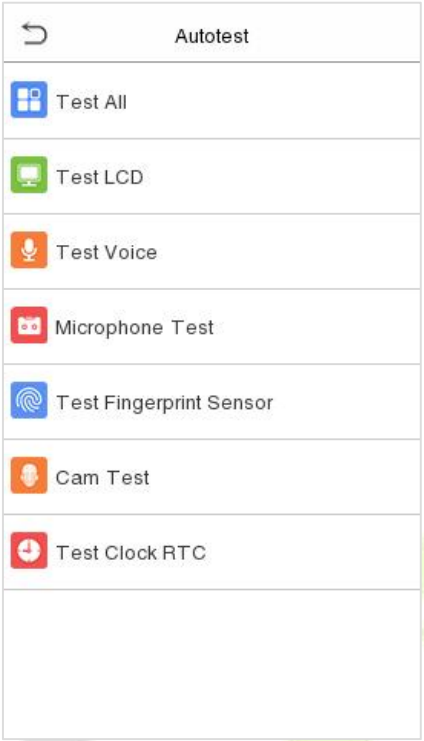


4. The below figure shows the details of the selected log.



13 Autotest

On the **Main Menu**, tap **Autotest** to automatically test whether all modules in the device function properly, which include the LCD, Voice, Camera and Real-Time Clock (RTC).

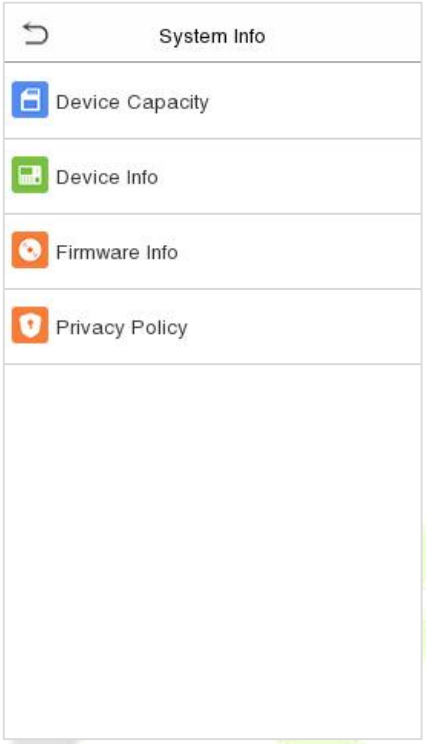


Function Description

Function Name	Description
Test All	To automatically test whether the LCD, Audio, Camera and RTC are normal.
Test LCD	To automatically test the display effect of LCD screen by displaying full-color, pure white, and pure black to check whether the screen displays colors normally.
Test Voice	To automatically test whether the audio files stored in the device are complete and the voice quality is good.
Microphone Test	Check whether the microphone is working by speaking to microphone and playing the microphone recording.
Test Fingerprint Sensor	To test the fingerprint sensor by pressing a finger on the scanner to check if the acquired fingerprint image is clear. When you are pressing a finger on the scanner, the fingerprint image will display on the screen.
Cam Test	To test if the camera functions properly by checking the photos taken to see if they are clear enough. (Same as "Test Face".)
Test Clock RTC	To test the RTC. The device tests whether the clock works normally and accurately with a stopwatch. Tap the screen to start counting and press it again to stop counting.

14 System Information

On the **Main Menu**, tap **System Info** to view the storage status, the version information of the device, firmware information and privacy policy.



Function Description

Function Name	Description
Device Capacity	Displays the current device's user storage, administrators, password, face template, fingerprint and card storage, access records, attendance and blocklist photos, and profile photos.
Device Info	Displays the device's name, serial number, MAC address, fingerprint algorithm★, face template algorithm, platform information, MCU Version and manufacturer.
Firmware Info	Displays the firmware version and other version information of the device.
Privacy Policy	Display the device's privacy policy.

15 Connect to ZKBio CVAccess Software

15.1 Set the Communication Address

- **Device Side**

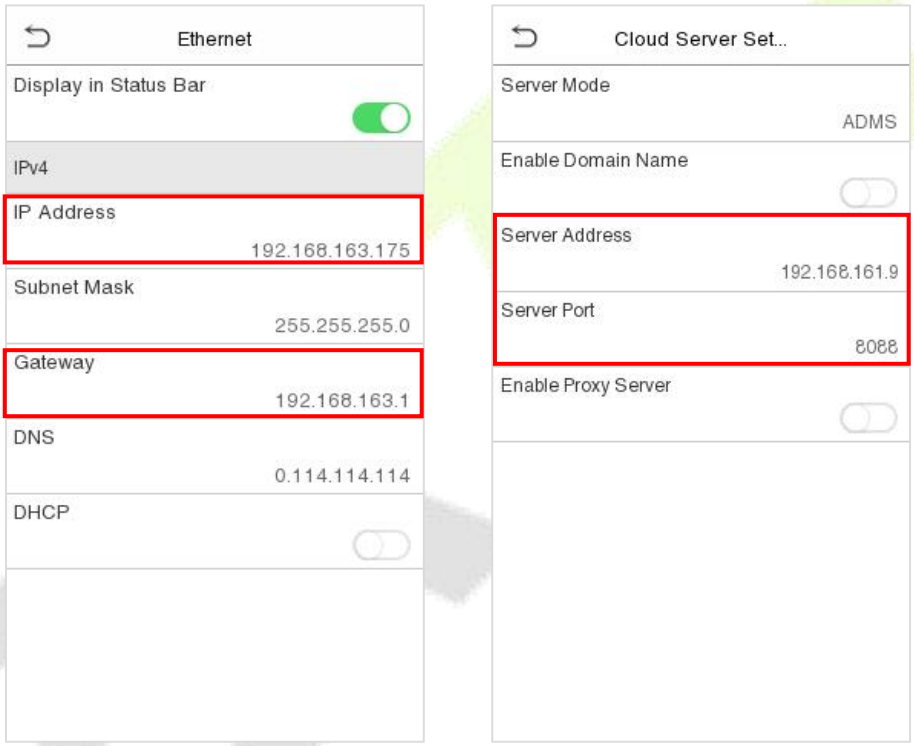
1. Tap **COMM.** > **Ethernet** in the main menu to set the IP address and gateway of the device.

   Note: *Please ensure that the IP address can communicate with the ZKBio CVAccess server.*

2. In the main menu, click **COMM.** > **Cloud Server Setting** to set the server address and server port.

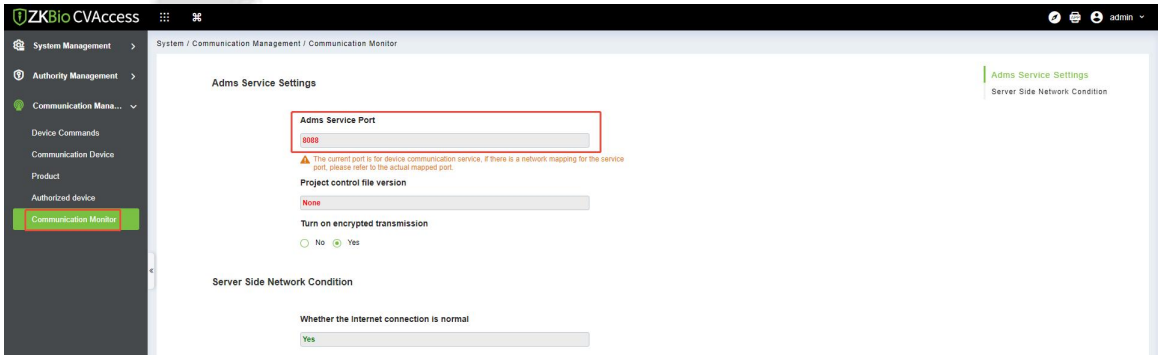
   Server address: Set the IP address as of ZKBio CVAccess server.

   Server port: Set the server port as of ZKBio CVAccess.



- **Software Side**

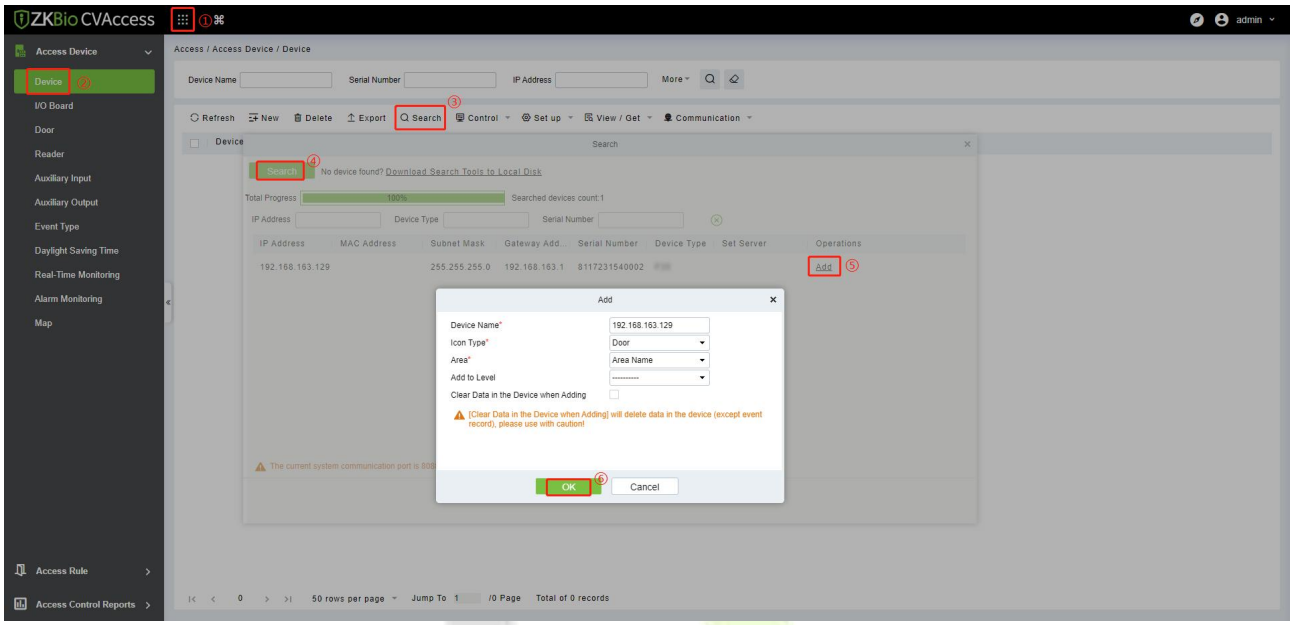
Login to ZKBio CVAccess software, click **System** > **Communication Management** > **Communication Monitor** to set the ADMS service port, as shown in the figure below:



15.2 Add Device on the Software

Add the device by searching. The process is as follows:

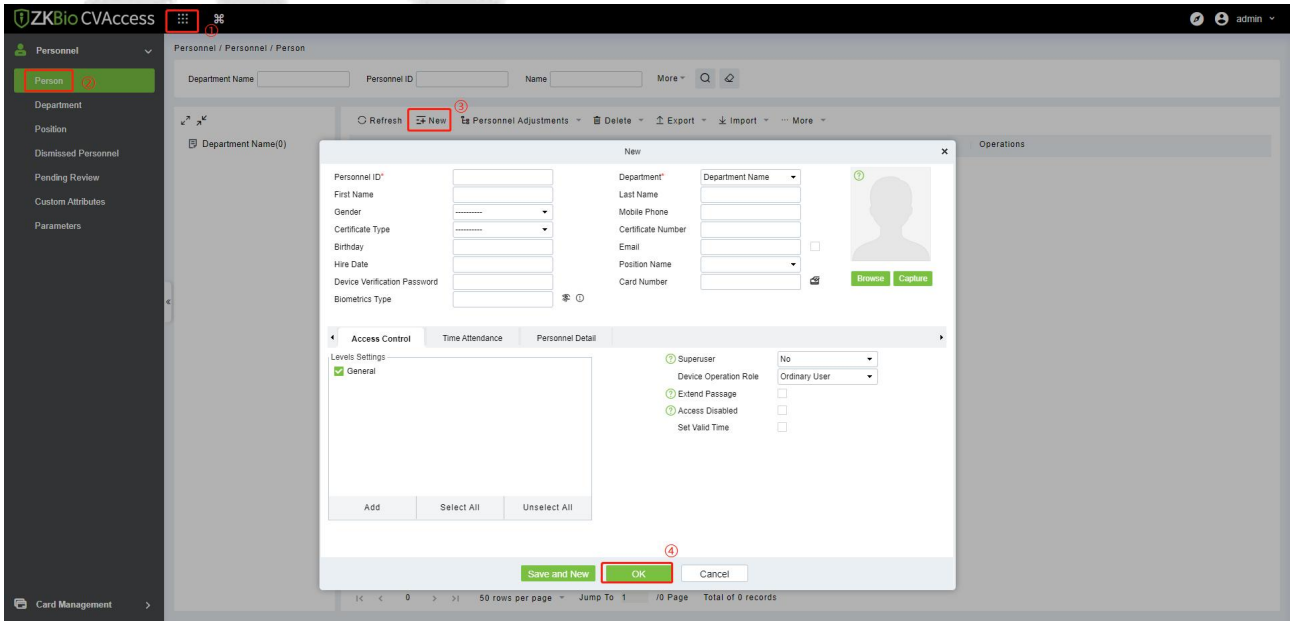
1. Click **Access** > **Device** > > **Search** > **Search**, to open the Search interface in the software.
2. Click **Search**, and it will prompt **Searching**…….
3. After searching, the list and total number of access controllers will be displayed.



4. Click **Add** in operation column, a new window will pop-up. Select Icon type, Area, and Add to Level from each dropdown and click **OK** to add the device.
5. After the addition is successful, the device will be displayed in the device list.

15.3 Add Personnel on the Software

1. Click **Personnel** > **Person** > **New**:



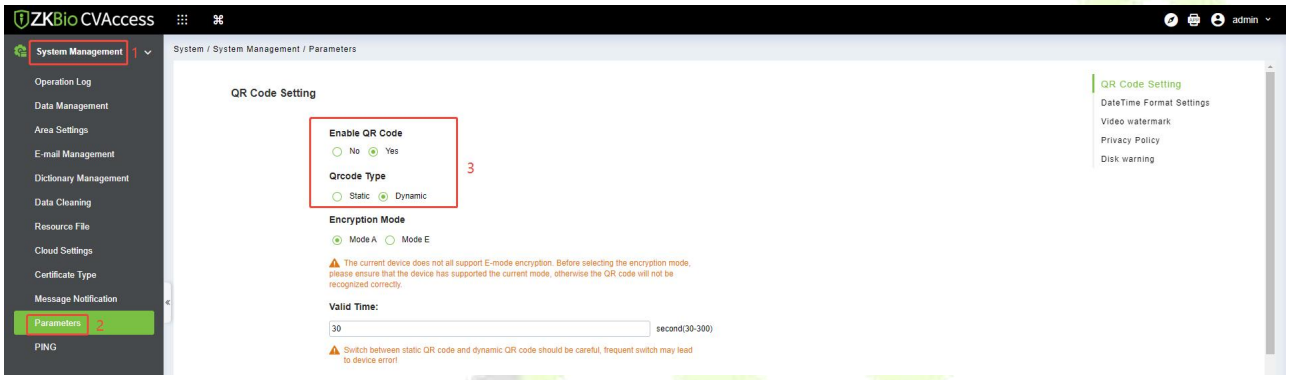
2. Fill in all the required fields and click **OK** to register a new user.
3. Click **Access > Device > Control > Synchronize All Data to Devices** to synchronize all the data to the device including the new users.

15.4 Mobile Credential★

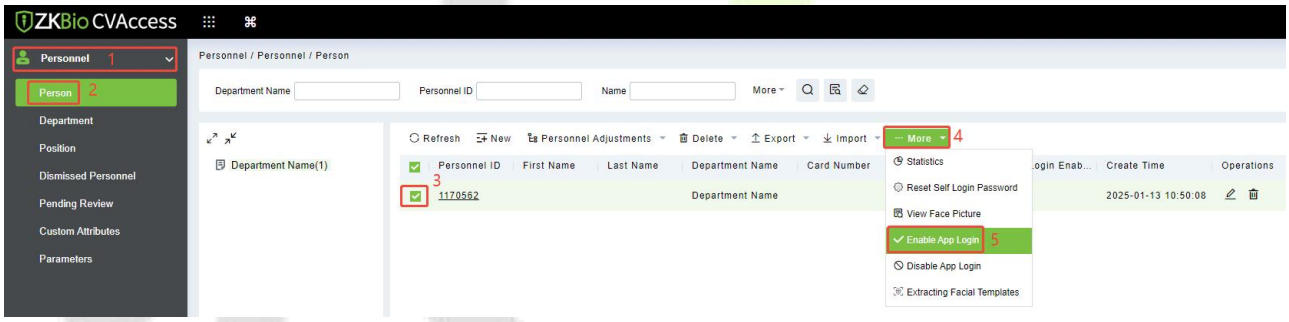
Note: *This function is only for SenseFace 4C.*

After downloading and installing the ZKBio Zexus Mobile App, the user needs to set the Server before login. The steps are given below:

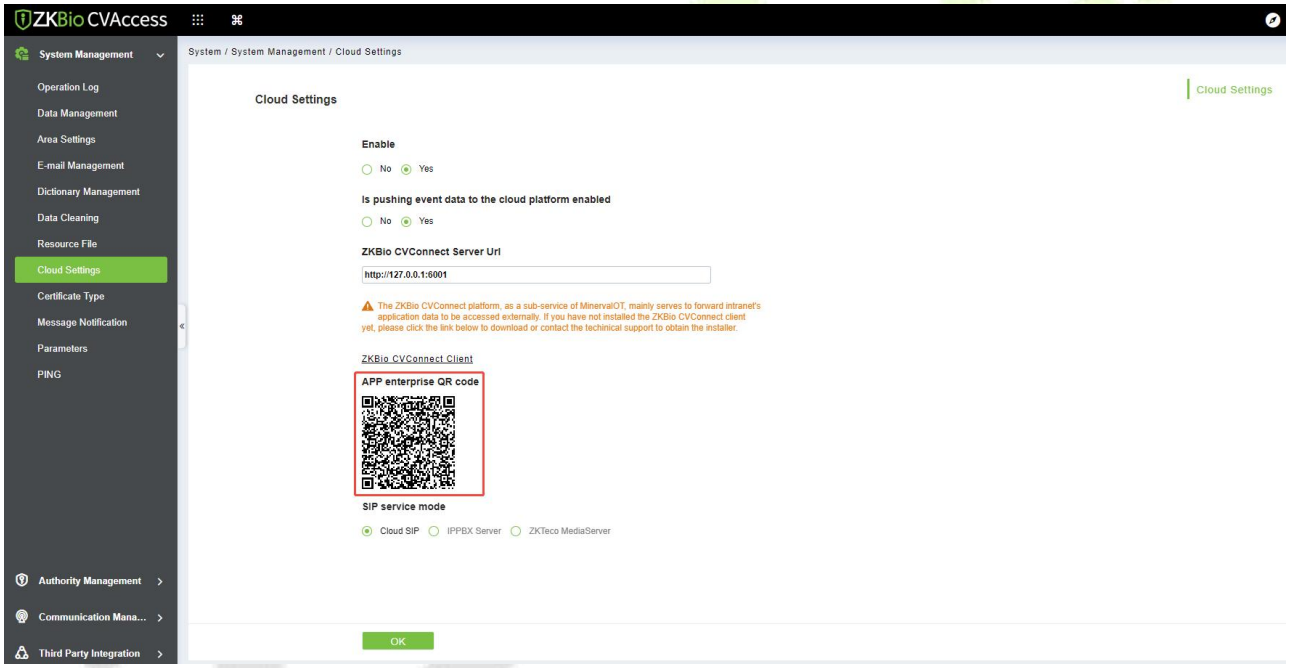
1. In ZKBio CVAccess, click **System** > **System Management** > **Parameters**, set **Enable QR Code** to "Yes", and select the Qrcode Type as **Dynamic**, the valid time of the QR code can be set.



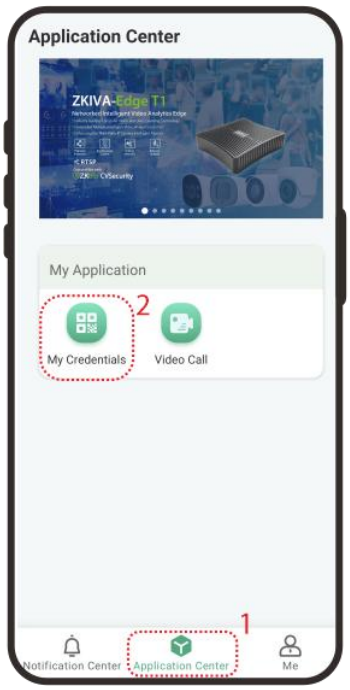
2. Click **Personnel > Personnel > Person**, select the personnel and click **More > Enable APP Login**.



3. Open the App on the Smartphone. On the login screen, select the role-**Personnel**, enter the account information, and click **Login**.
   Organization Name: Scan the organization code you get before. (Enter **System > System Management >Cloud Setting >APP enterprise QR Code**)
   Account & Password: The personnel ID & password (default: 123456).



4. Click **Application Center** > **Mobile Credential** on the App, and a QR code will appear, which includes employee ID and card number information.



5. The QR code can replace a physical card on a specific device to achieve contactless authentication to open the door.
6. The QR code refreshes automatically for every 30s and supports manual refresh.

Note: *For other specific operations, please refer to ZKBio CVAccess User Manual.*

16 Connect to ZKBioTime Software

16.1 Set the Communication Address

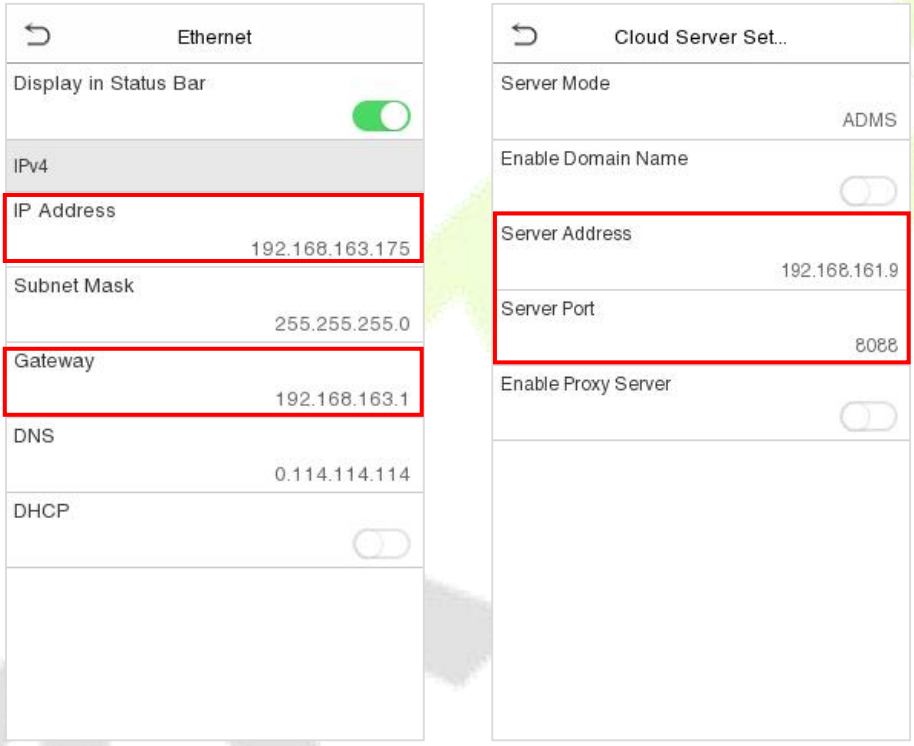
1. Tap **COMM.** > **Ethernet** in the main menu to set the IP address and gateway of the device.

   Note: *Please ensure that the IP address can communicate with the ZKBioTime server.*

2. In the main menu, click **COMM.** > **Cloud Server Setting** to set the server address and server port.

   Server address: Set the IP address as of ZKBioTime server.

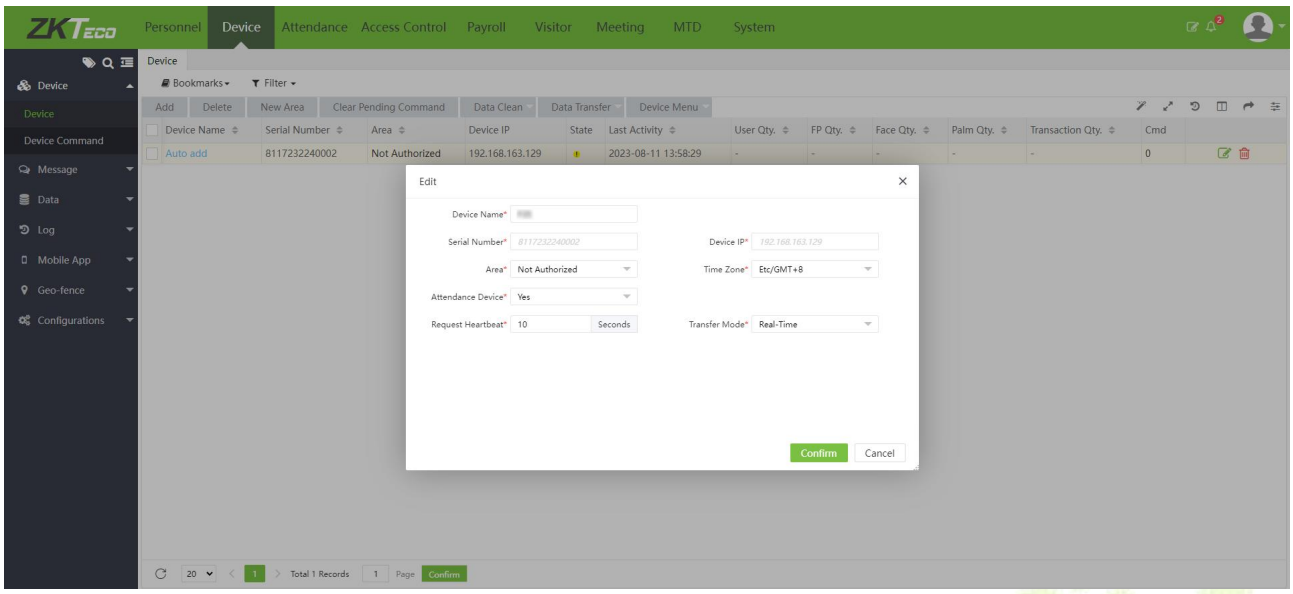
   Server port: Set the server port as of ZKBioTime server.



16.2 Add Device on the Software

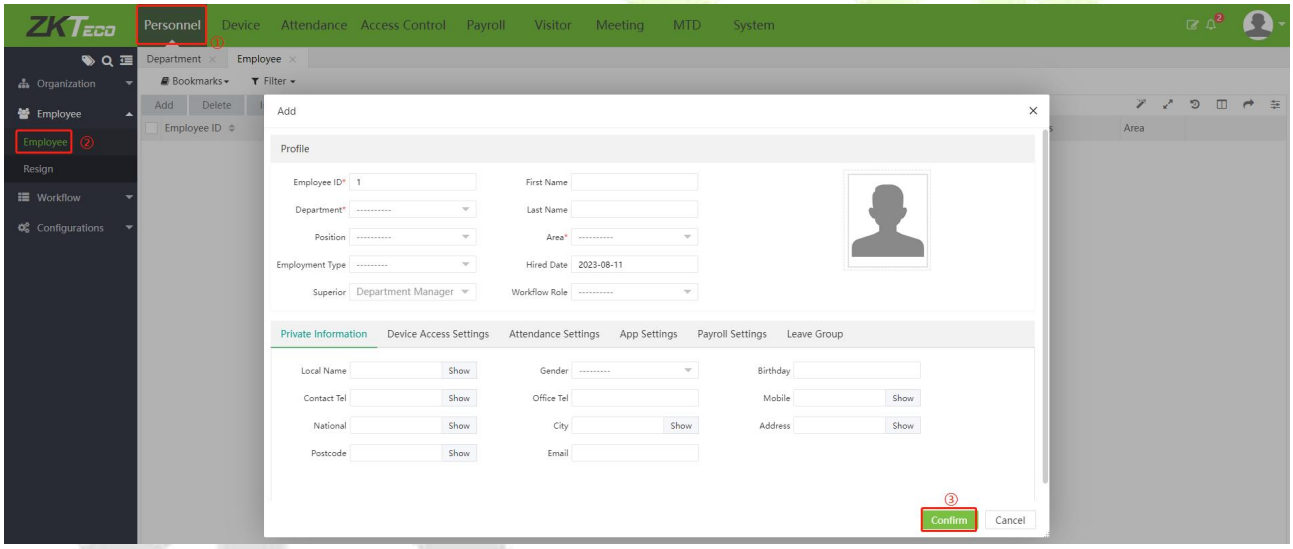
After setting on the device, the device will be automatically added to the software. Open the ZKBio Time software then select [**Device Module**] > [**Device**] > [**Device**], click the device in the list, change the Device Name and Area.

Note: The devices added automatically must be assigned to custom areas to communicate with the software.



16.3 Add Personnel on the Software

1. Click **Personnel** > **Employee** > **Add**:

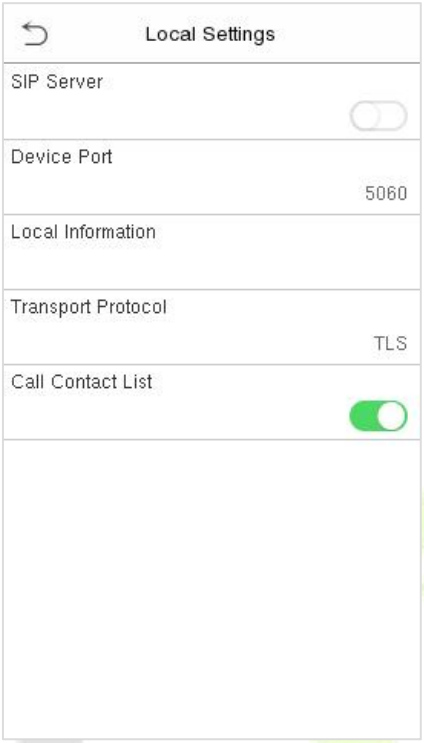


2. Fill in all the required fields and click **Confirm** to register a new user.
3. Click **Device > Device > Data Transfer > Sync Data to Device** to synchronize all the data to the device including the new users.

17 SIP Video Intercom

17.1 Local Area Network Use

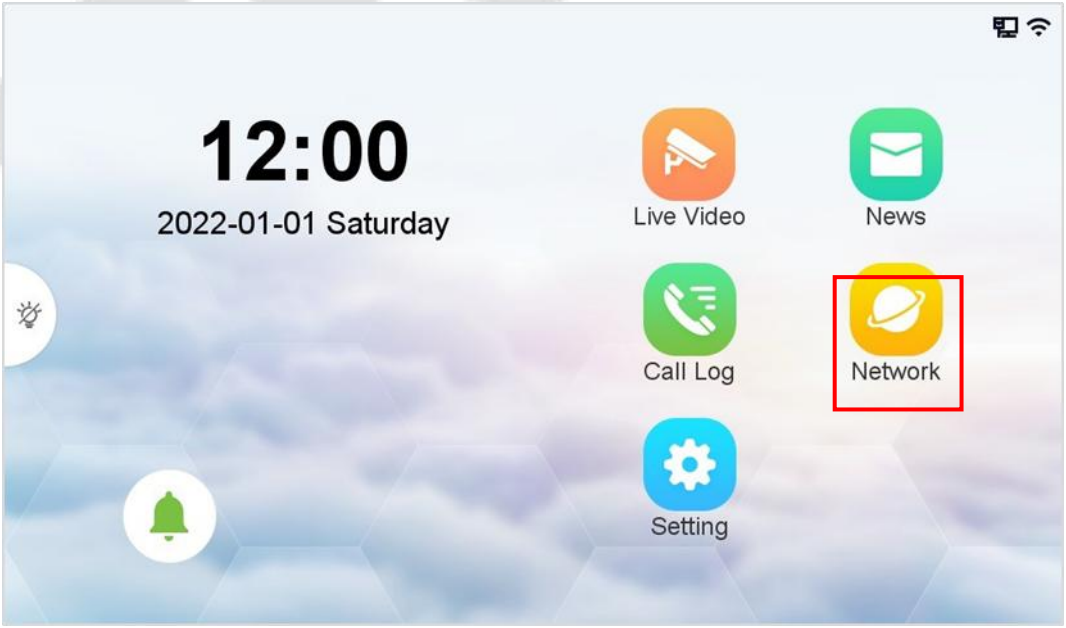
In this mode, please make sure that the SIP Server of the device is disabled.



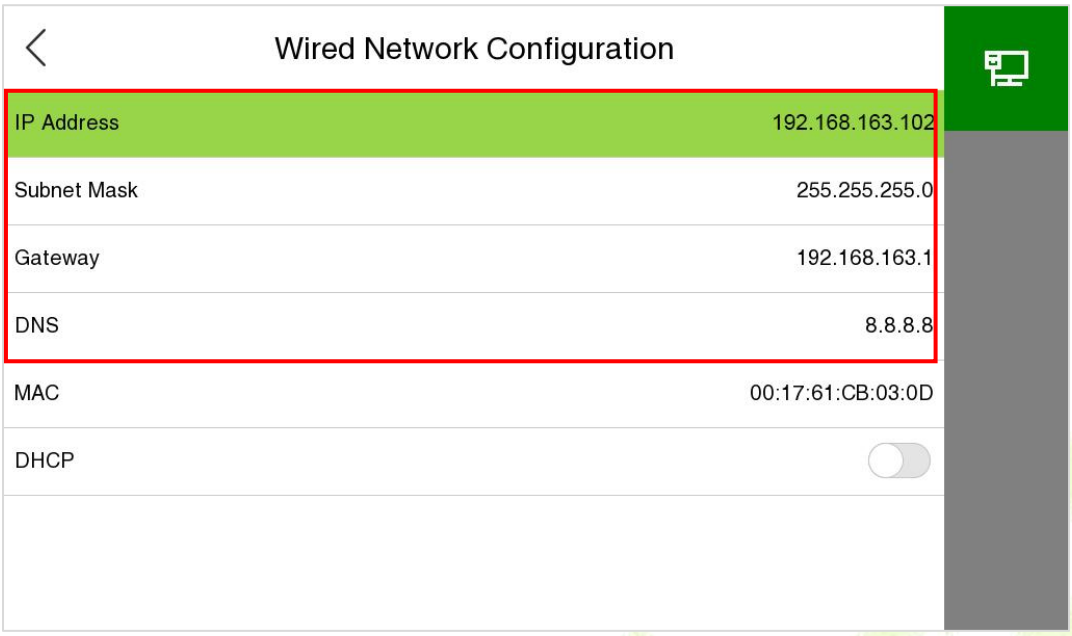
This function needs to be used with the indoor monitor VT07-B01.

- **On the Indoor Monitor:**

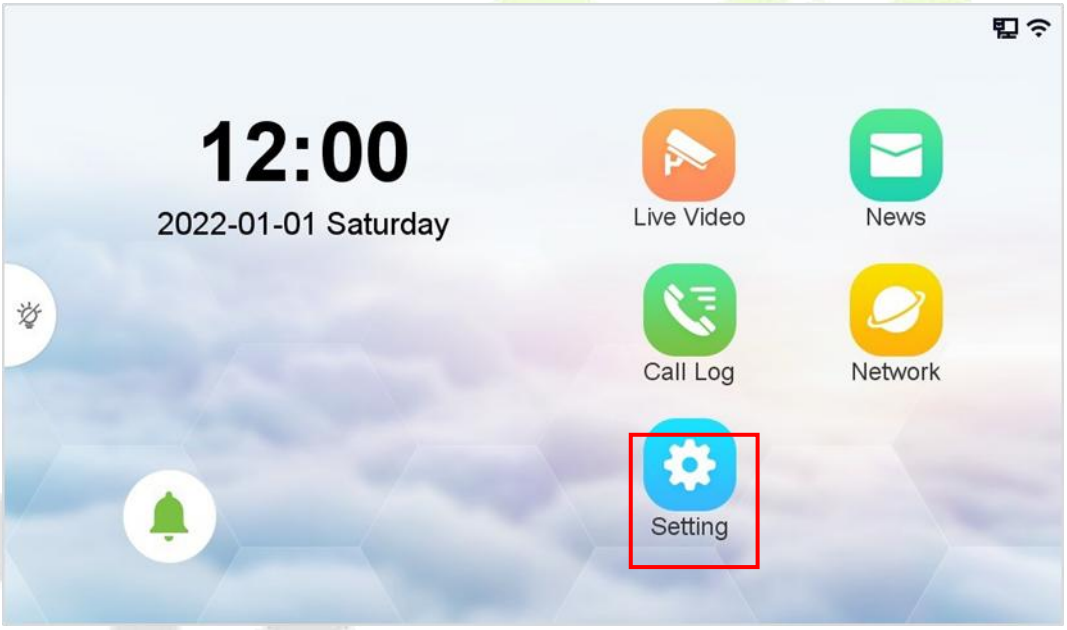
1. Tap **Network** > to enter the wired network setting interface. (Default password: **123456**)

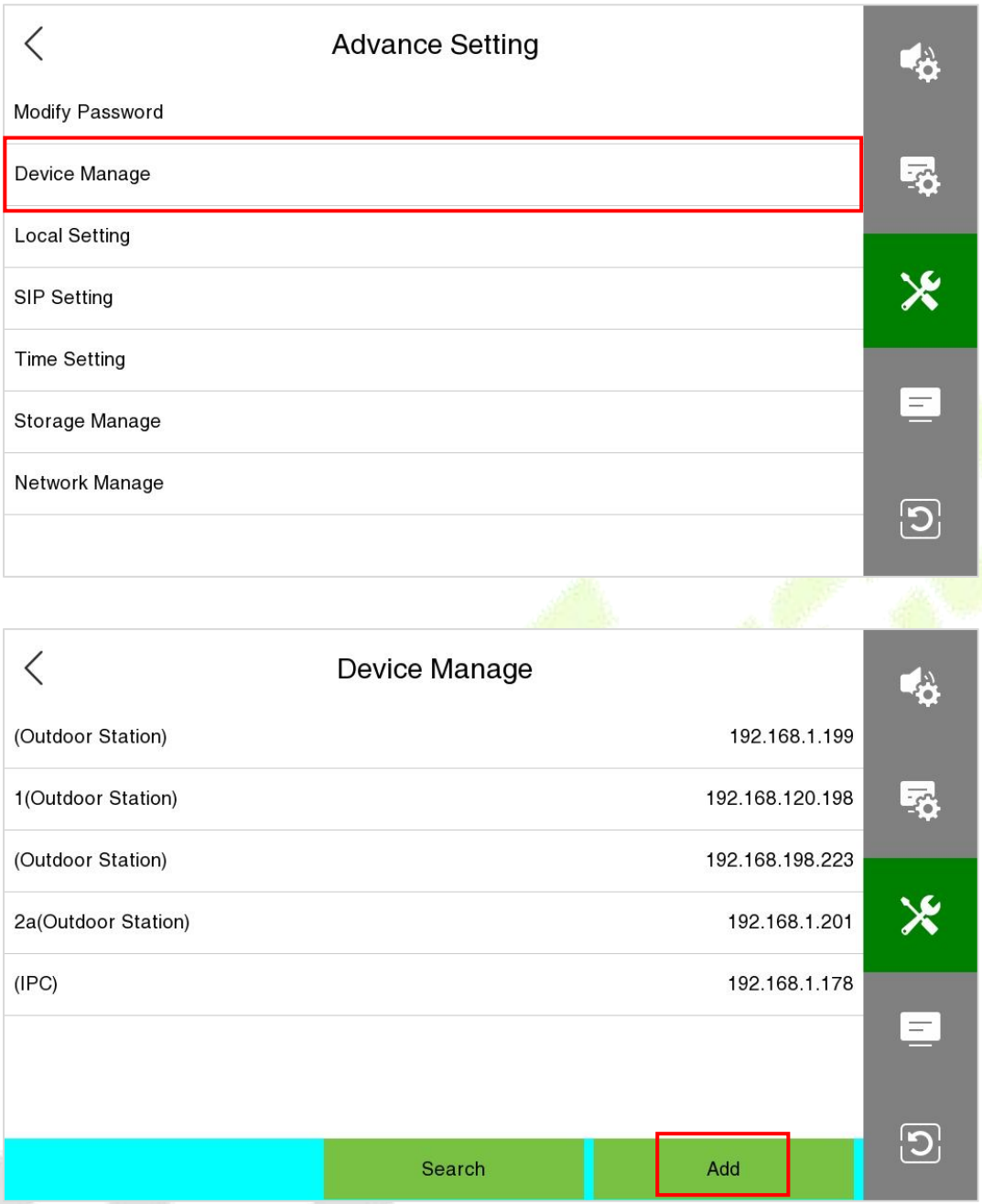


2. Set the IP Address and Gateway of the indoor monitor. (**Note:** The IP address should be in the same network segment as the device.)

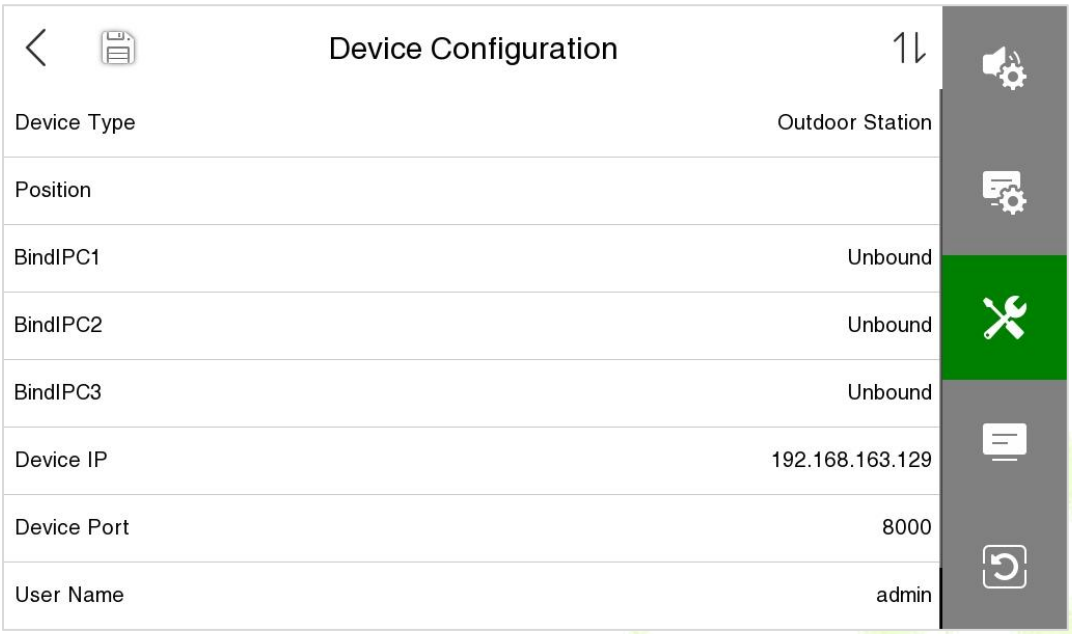


3. Tap **Setting** > **Advance Setting** > **Device Manage** > **Add** to add the device.



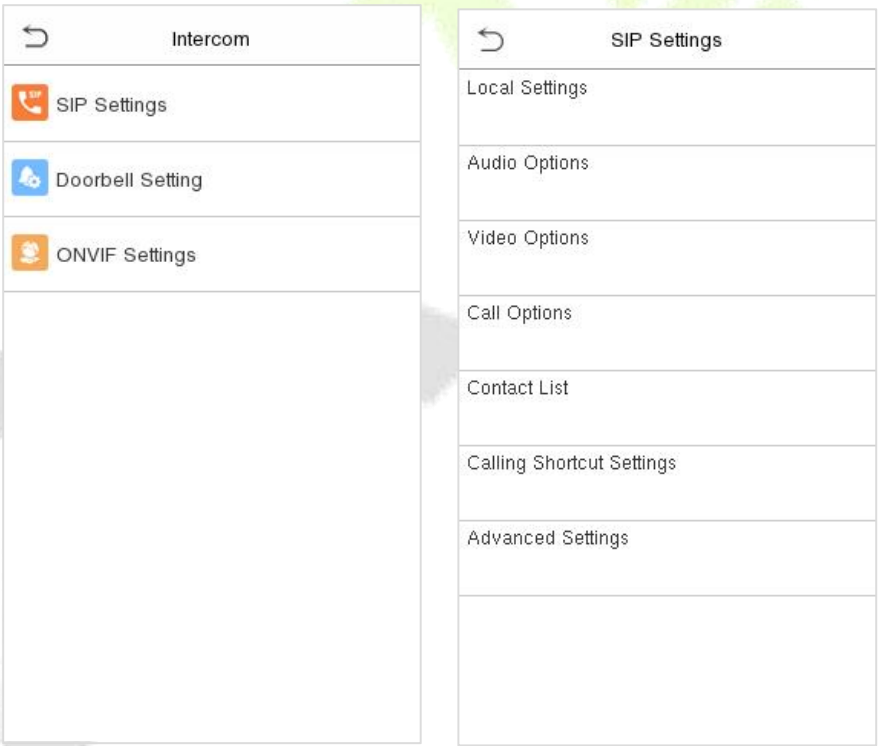


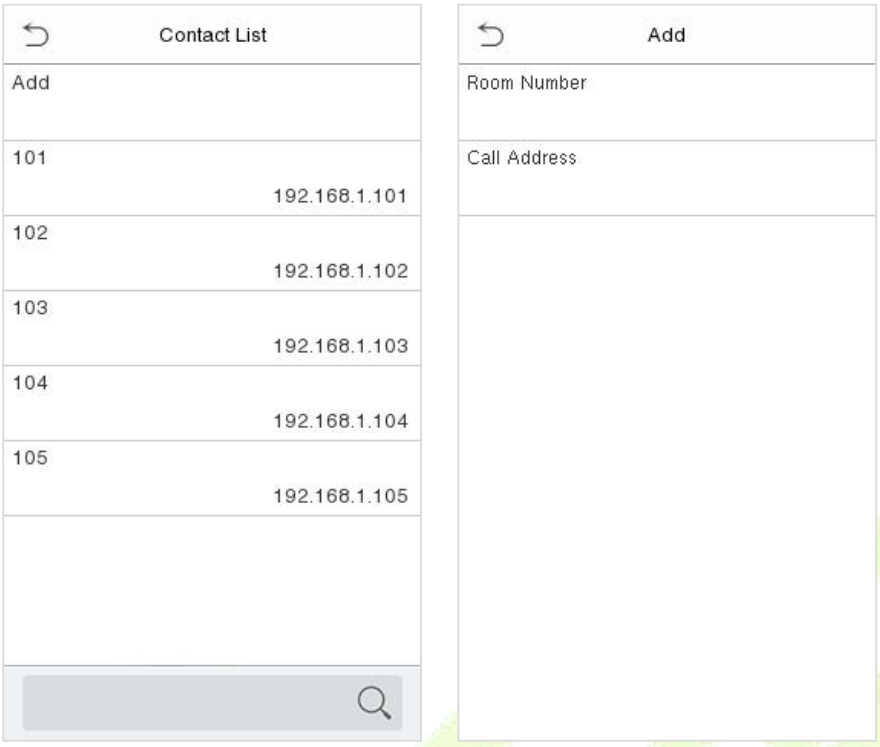
4. Set the related information of the device, then click **Save**.
   Device Type: Set as Outdoor Station.
   Device IP: Enter the IP address of the device.
   Device Port: 8000.
   User Name: admin.
   Password: 123456.



- **On the Device:**

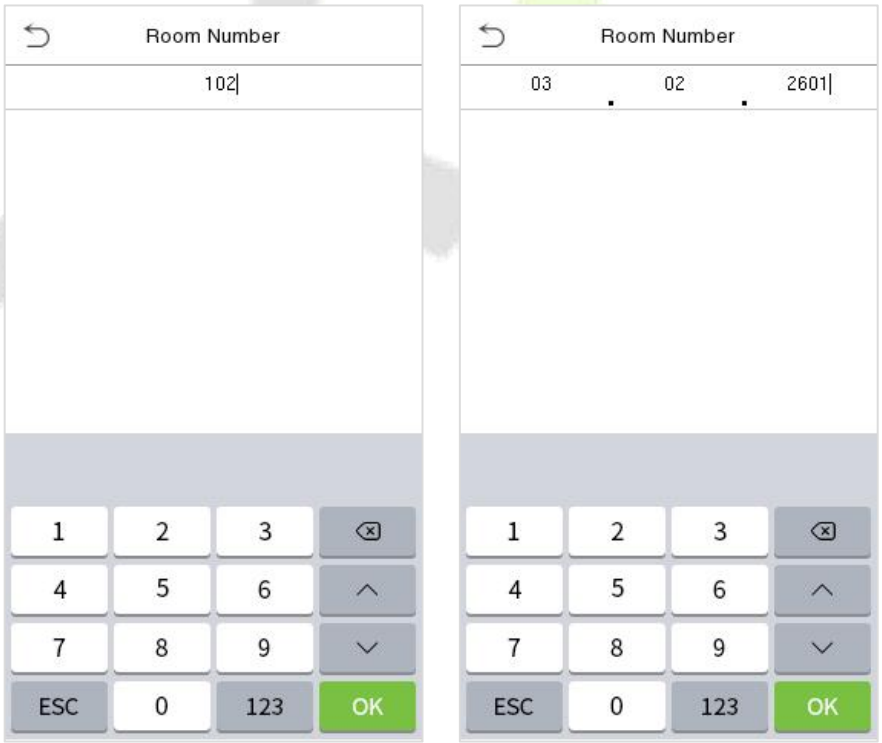
1. On the Main Menu, Click **Intercom > SIP Settings > Contact List > Add** to add the connected indoor monitors.





Room Number: Customize the number of the indoor monitor.

When the device type is set as **Entrance Station**, the room number can be 1~ 4 digits. When the device type is set as **Fence Terminal**, you need to input the block, unit and room number. For example, if the indoor monitor is in Block 3, Unit 2, Room 2601, then input "03.02.2601".

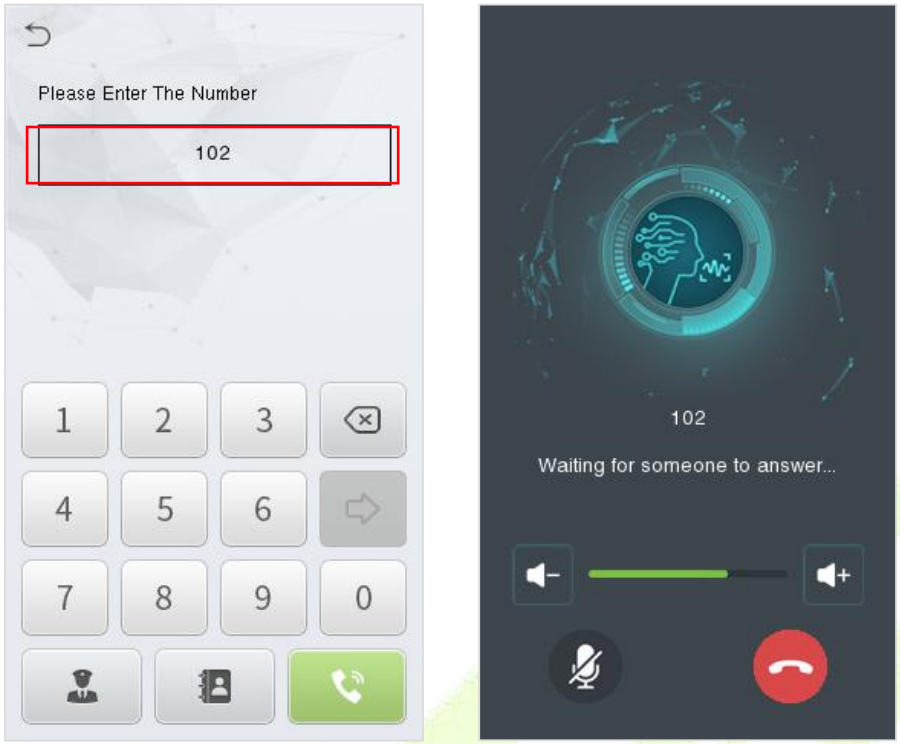


Entrance Station Fence Terminal

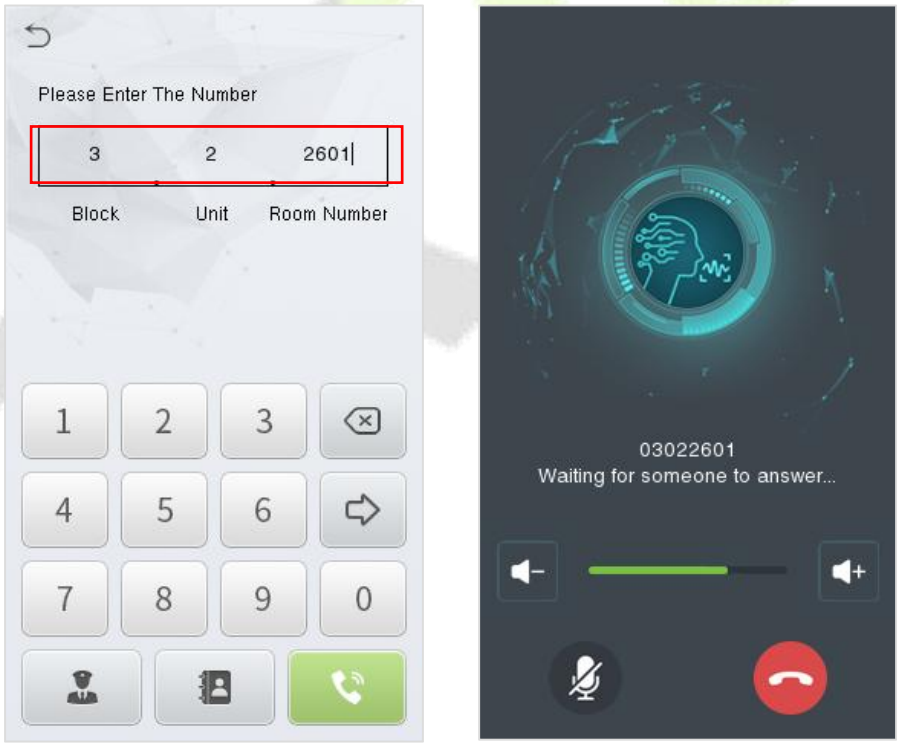
Call Address: It is the IP Address of the indoor monitor.

2. To enable the video intercom function, click the icon on the device and enter the number or IP

address of the indoor monitor in the provided interface.



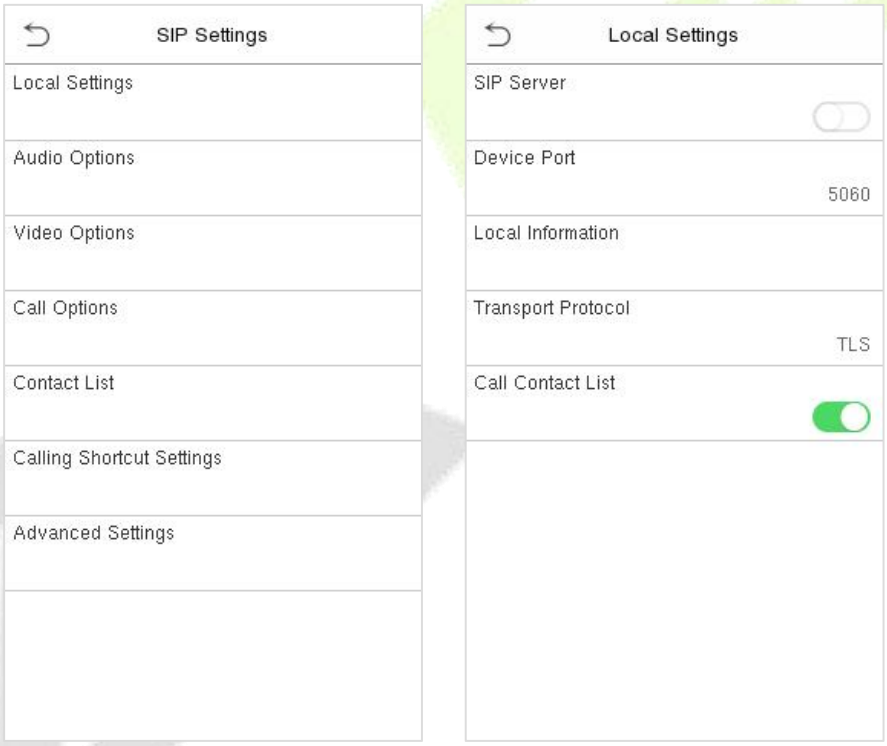
Entrance Station



Fence Terminal

17.1.1 Call Contact List

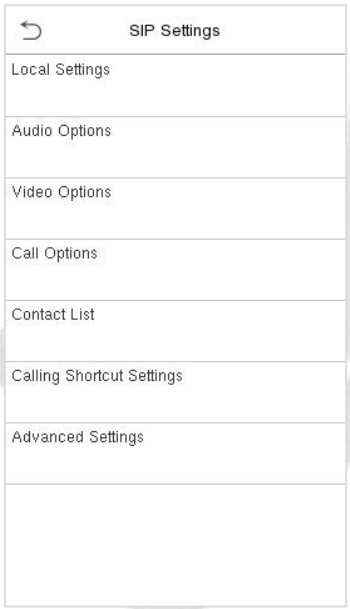
1. On the **SIP Settings** interface, tap **Local Settings** > **Call Contact List** to enable the call contact list.

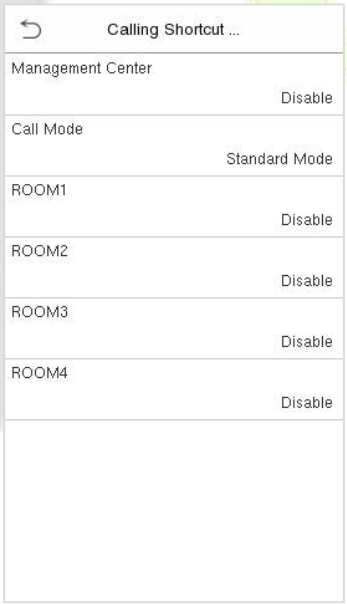


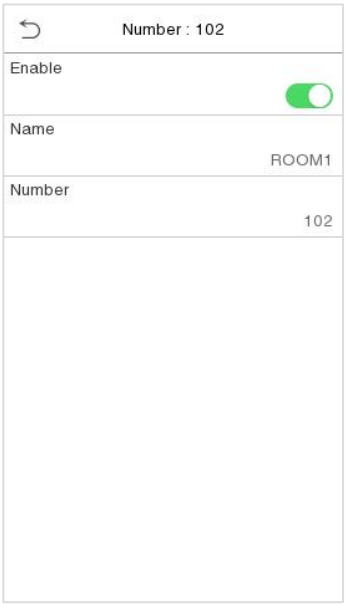
2. Click the icon on the device to enter the call page, then you can click the icon to open the contact list, select the number of the indoor monitor you want to call.

17.1.2 Custom the Calling Shortcut Keys

1. On the **SIP Settings** interface, tap **Calling Shortcut Settings** to enable and define the shortcut keys.

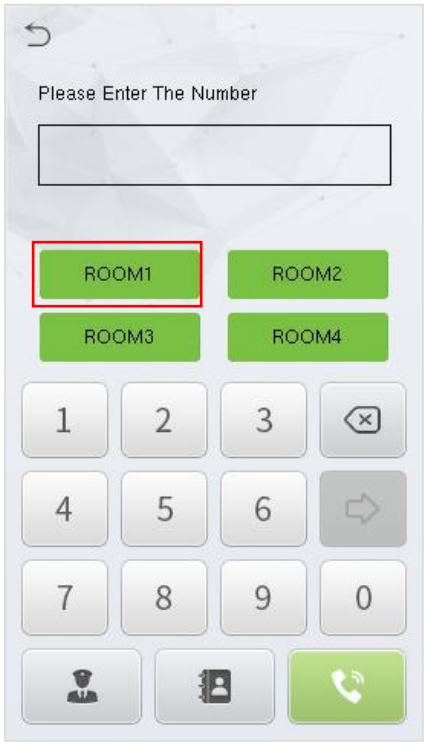


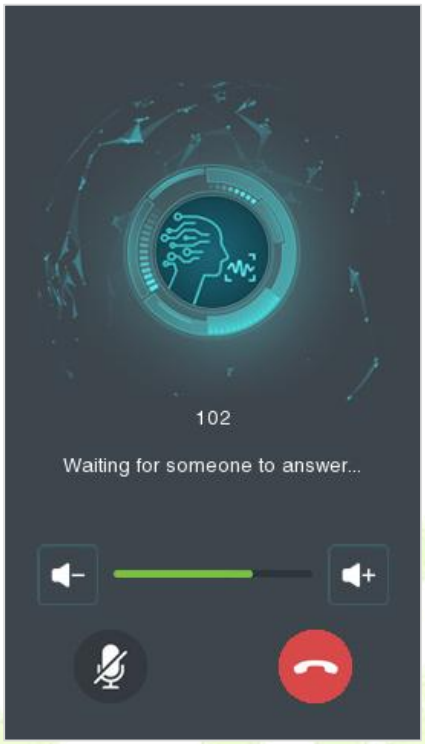




Name: Customize the name of the shortcut keys.
Number: It is the room number that set in the **Contact List** Menu.

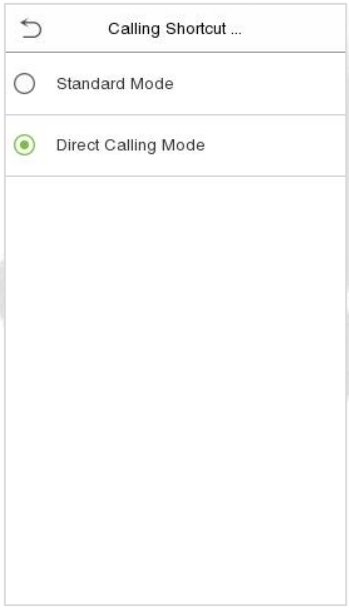
2. Then you can click the icon on the device and select the calling shortcut keys to call the indoor monitor.

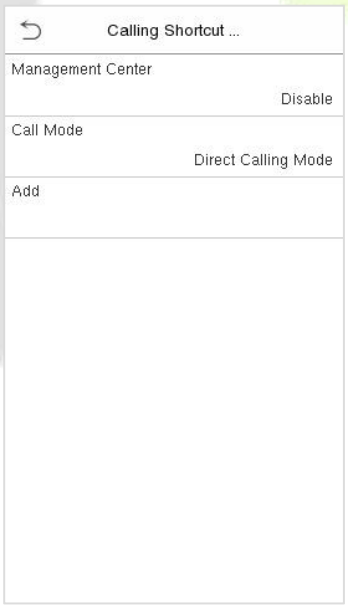




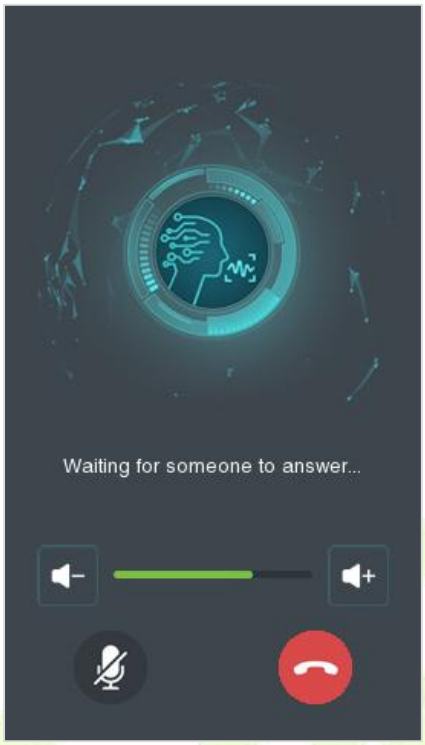
17.1.3 Direct Calling

1. On the **SIP Settings** interface, click **Calling Shortcut Settings** > **Call Mode** > **Direct Calling Mode** > **Add**. Select the IP address of the indoor monitors that you want to call, then the indoor monitors will be displayed in the list.



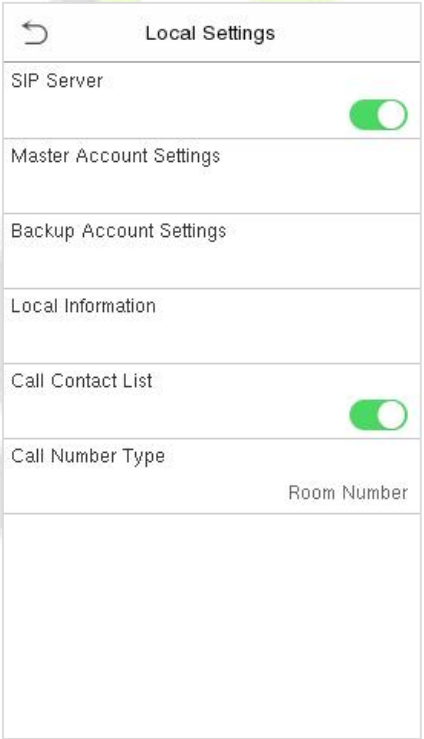


2. Then you can click the icon on the device to call the indoor monitors directly.



17.2 SIP Server

In this mode, please make sure that the SIP Server of the device is enabled.



This function needs to be used with the ZKBio CVAccess server, ZKBio Zexus Mobile App, indoor monitor VT07-B26L-W / VT07-B22L and PC Client BioTalk Pro.

ZKBio CVAccess supports 2 kinds of SIP server: **cloud SIP** and **PBX server**, users can choose one according to the actual situation.

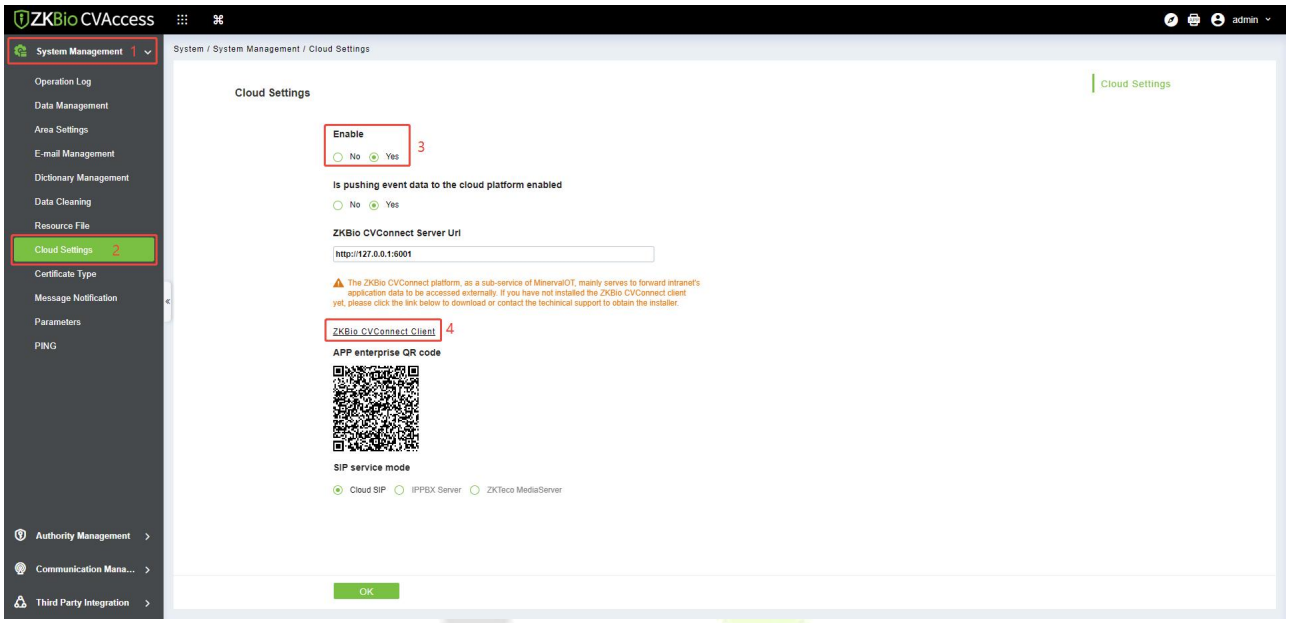
- **Cloud SIP mode:** Users do not need to purchase additional SIP server, only need to purchase SIP account permission.

- **PBX server:** You need to purchase a PBX server for local deployment. You do not need to purchase an additional SIP account.

The following text mainly introduces the Cloud SIP mode.

17.2.1 SIP Server Configuration

1. On the ZKBio CVAccess software, click **System > System Management > Cloud Settings** to enable the Cloud SIP service.
2. Click **ZKBio CVConnect Client** to download and install it.

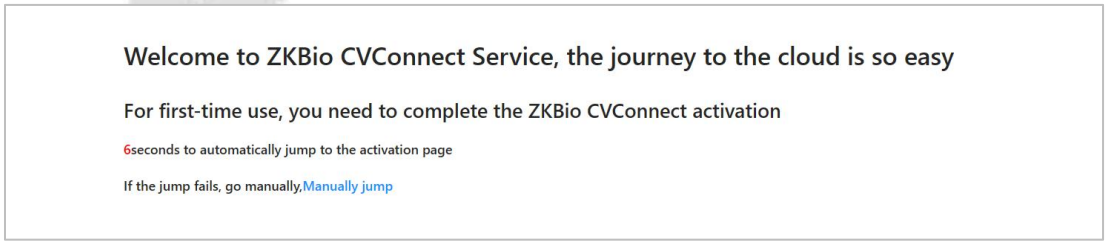


Note:

1) Ensure the ZKBio CVConnect client is installed if Cloud SIP is activated.
2) After cloud SIP is enabled, the device network needs to be able to connect to the external network before it can be used.

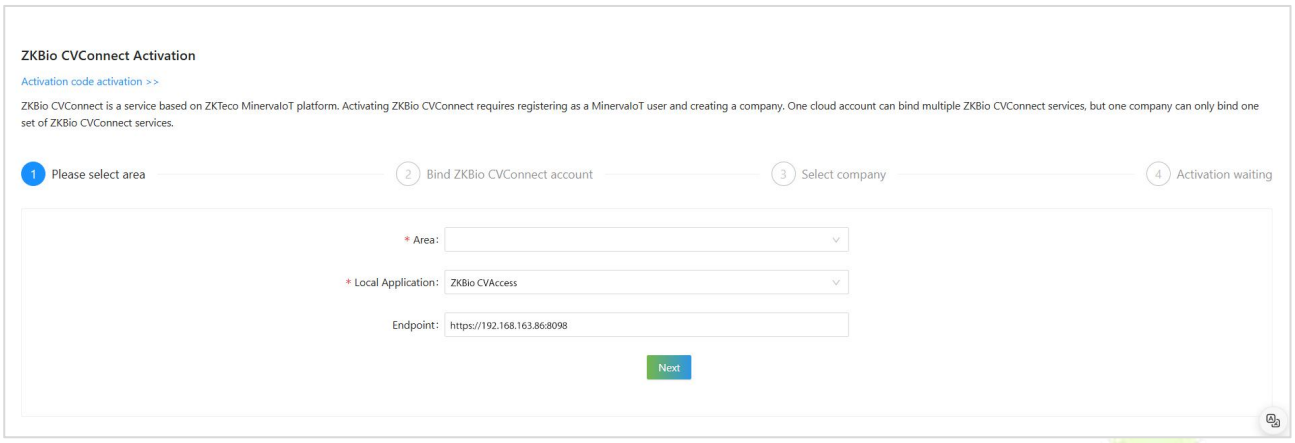
➢ **ZKBio CVConnect Client Activation Steps**

Step 1: Double-click the desktop shortcut key. Jump to browser page.



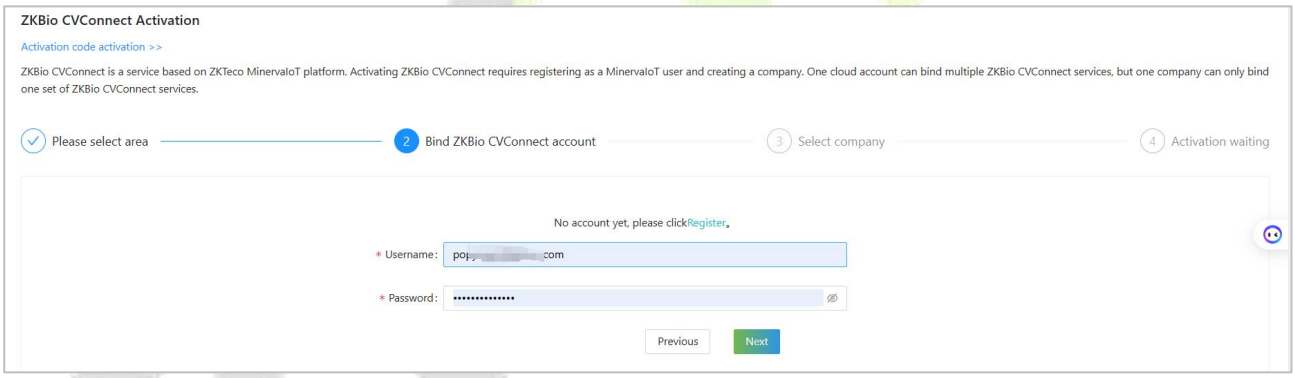
Step 2: Follow the steps on the page to complete activation.

1. Select Area

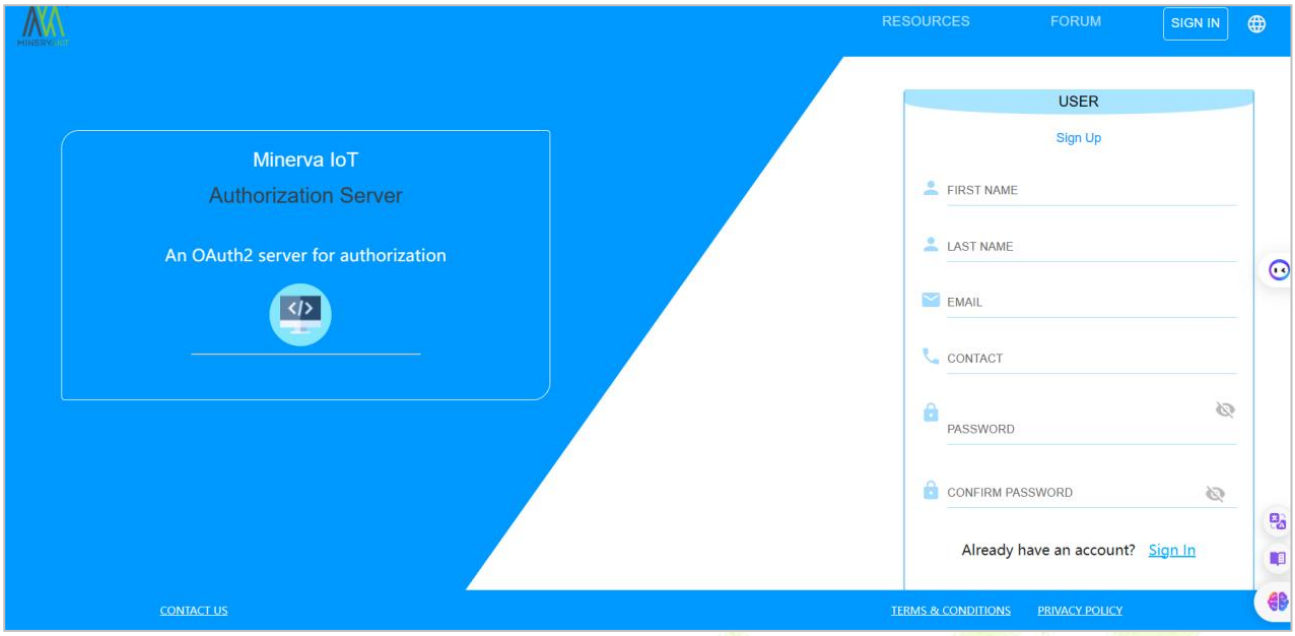


- **Area:** Select the area of the cloud server, currently only China, Singapore and America are available, other areas will be added later.
- **Local Application:** Set as ZKBio CVAccess.
- **EndPoint:** The server address of your local application. For example, if your local application is ZKBio CVAccess with a server address of https://192.168.163.86:8098, enter this server address here so that ZKBio CVConnect can correctly forward the data from your local server for access by the Mobile APP.

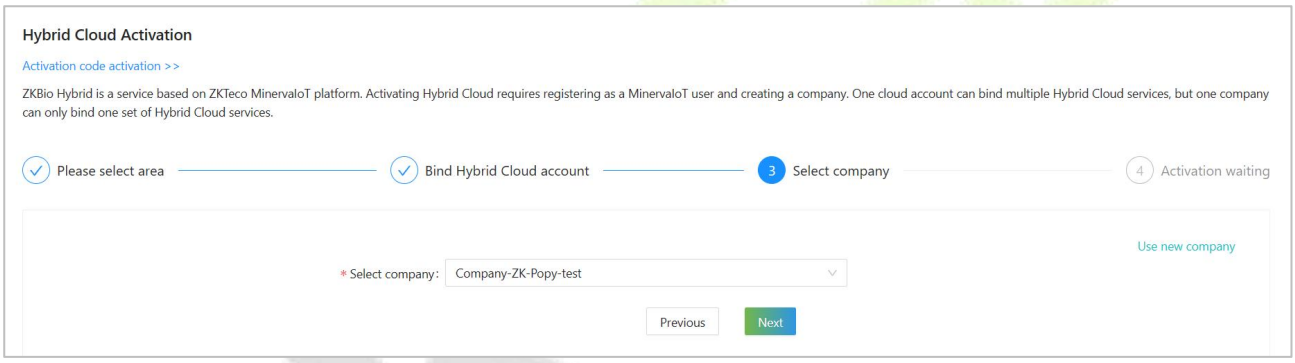
2. Bind ZKBio CVConnect Account



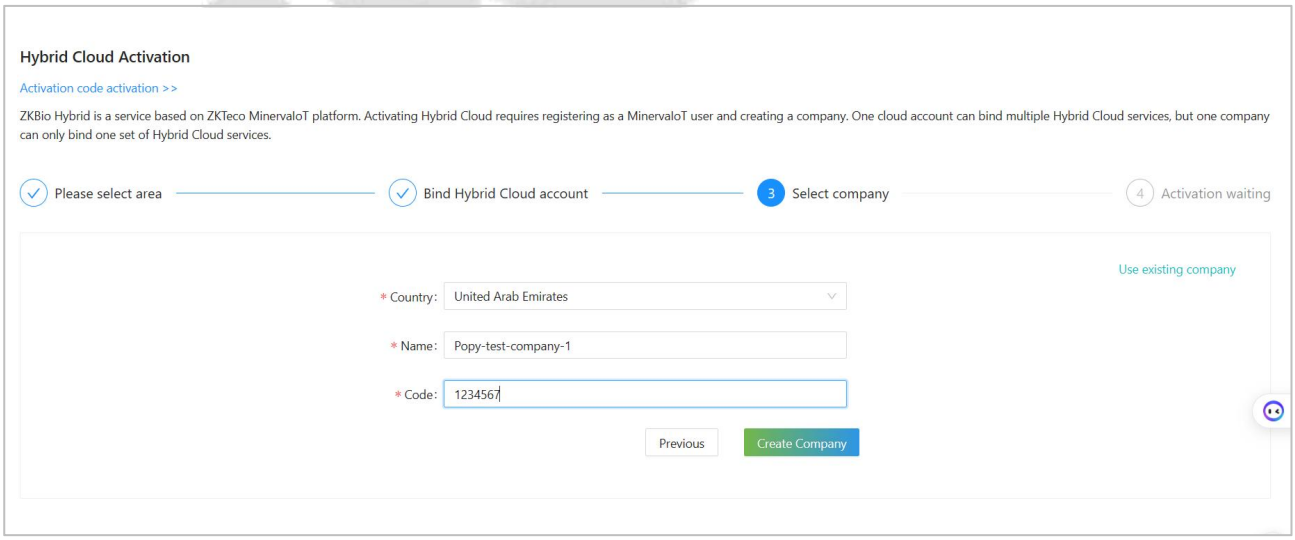
If you already have a Minerva IoT account, you can use it and log in; otherwise click on **Register**, then jump to Minerva IoT registration page and register your account.



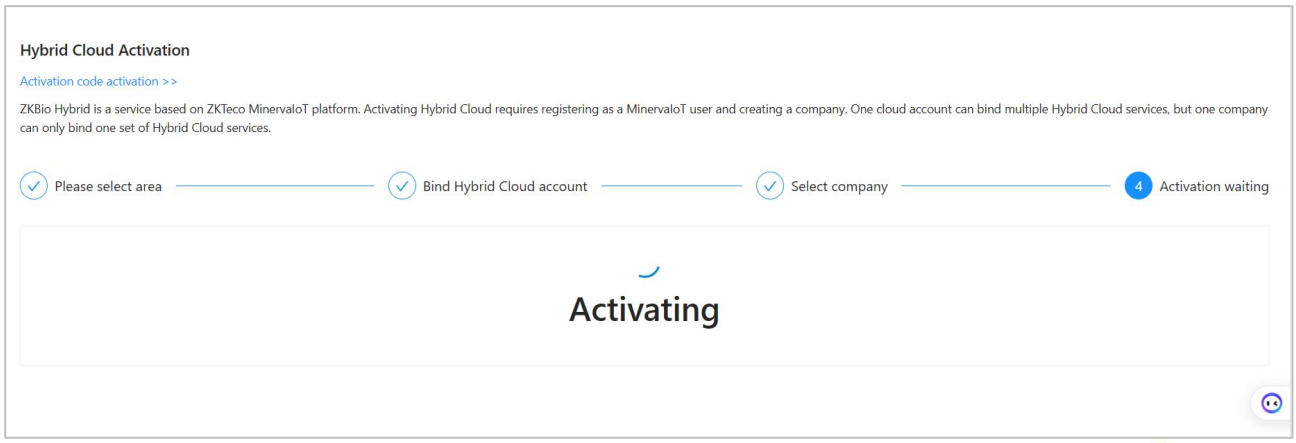
3. Select Company



If you don't currently have a company, you can choose to create one by clicking **Use New Company.**



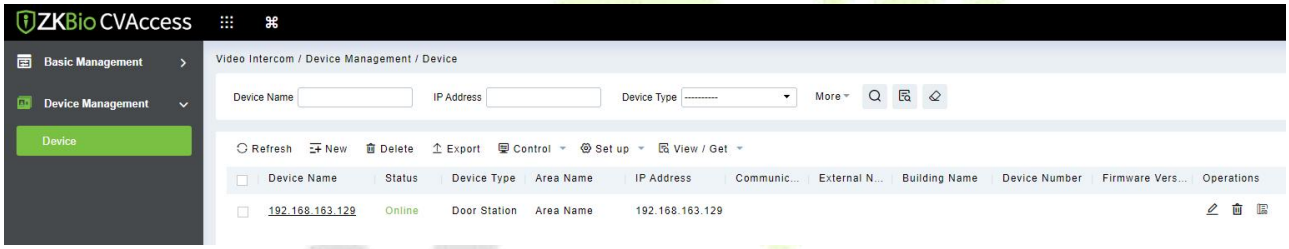
Start Activating and wait for 1-2 minutes until the Activation completely.



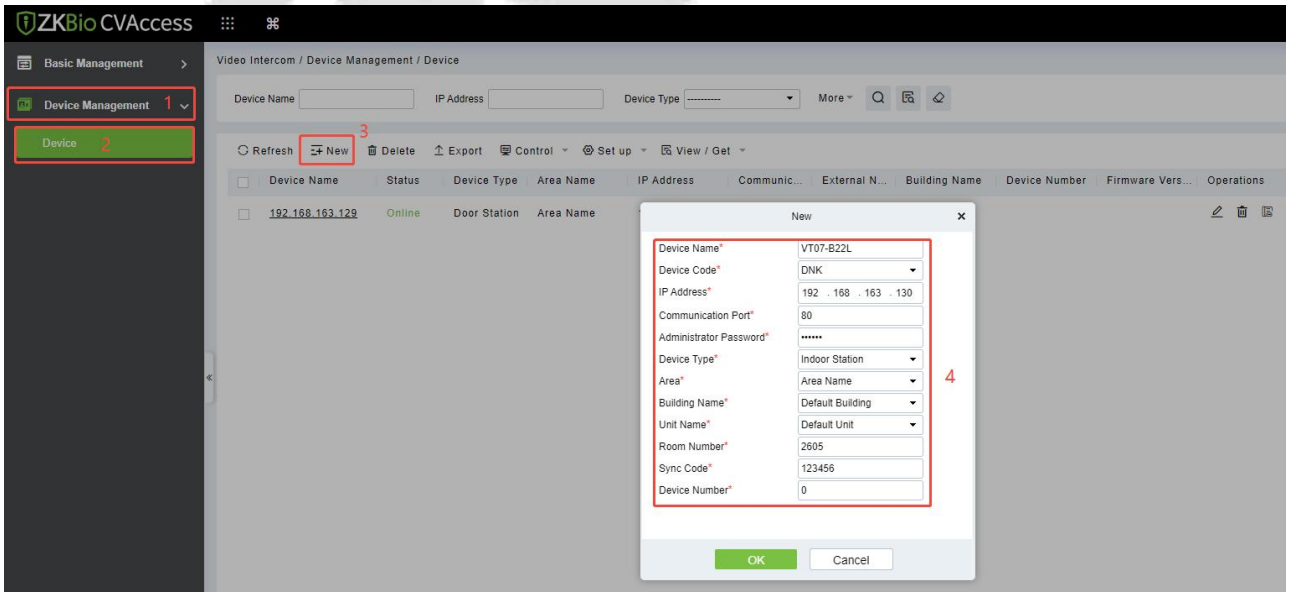
The specific installation and activation steps of the ZKBio CVConnect client can refer to ZKBio Zexus Mobile App User Manual.

17.2.2 Add Device

1. Add the device to the **Access** Module of the software. Then the device will be automatically synchronized to the **Video Intercom** module. (The adding method can refer to 15 Connect to ZKBio CVAccess Software)



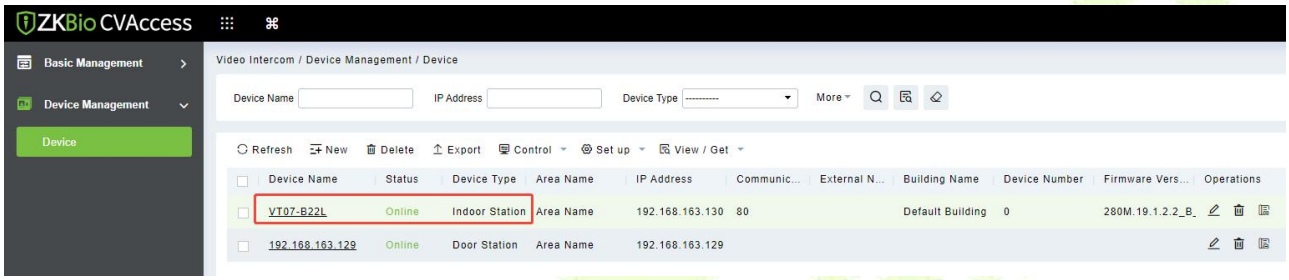
2. Click **Video Intercom > Device Management > Device > New** to add the indoor monitor.



- **Device Name:** Enter the name of the indoor monitor.
- **Device Code:** Set as DNK.
- **IP Address:** Enter the IP address of the indoor monitor.

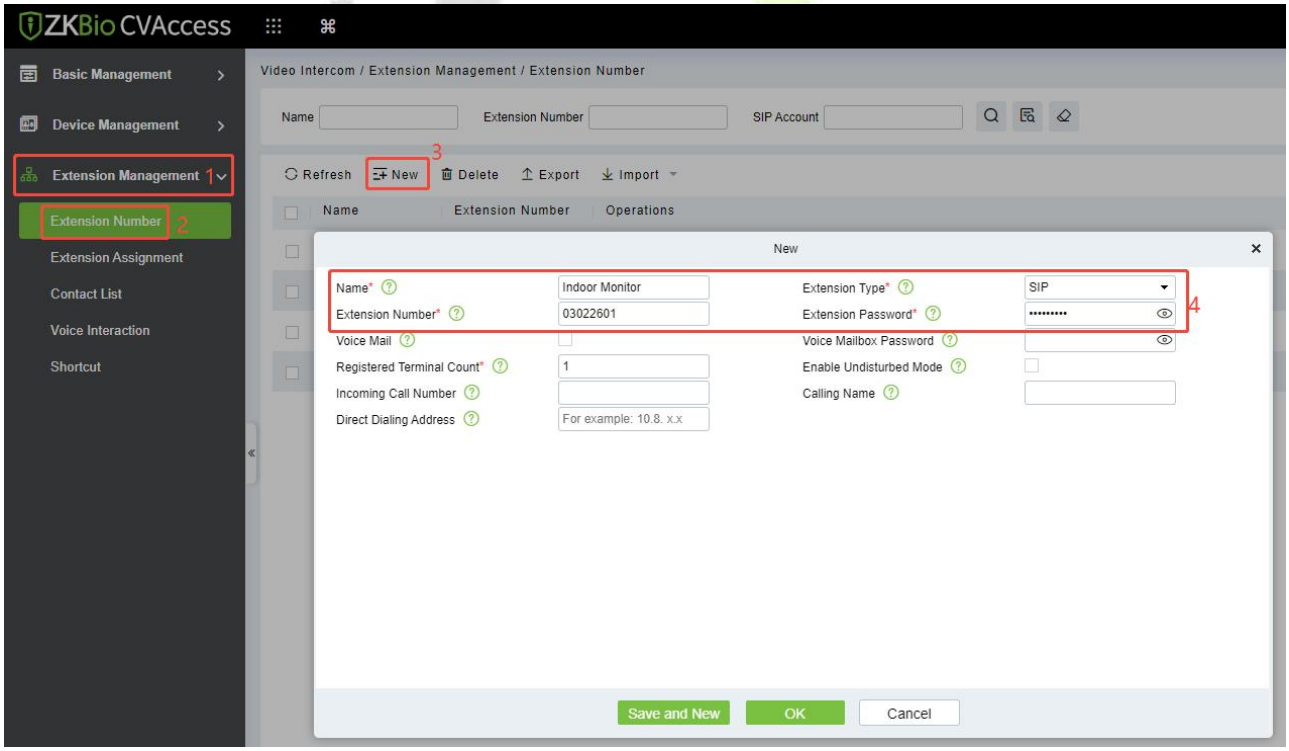
- **Communication Port:** 80 by default.
- **Administrator Password:** 123456 by default.
- **Device Type:** Set as Indoor Station.
- **Area/ Building Name/Unit Name:** Select from the drop-down list.
- **Room Number:** Customize the number of the indoor monitor.
- **Sync Code:** Can be customized by the user. (It is used when a resident has multiple indoor monitors. The indoor monitors which have the same Sync Code will be called at the same time.)
- **Device Number:** The setting range is 0-9. For example, if there is only one indoor monitor in the room, the device number will be 0. If there are two units, one will be 0 and the other will be 1, and so on.

After the addition is successful, the indoor monitor will be displayed in the device list.



17.2.3 Create Extension Numbers

Click **Video Intercom** > **Extension Management** > **Extension Number** > **New** to create extension numbers.



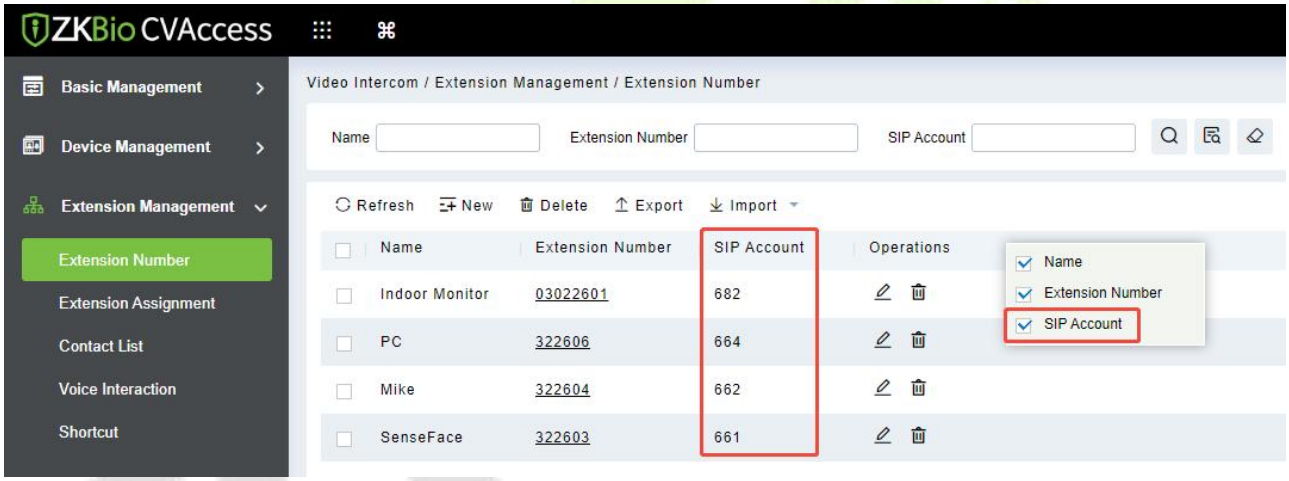
- **Name:** Customize the extension name. If it is a residential scene, the name can be set to the room number; if it is an office scene, the name can be set to the work number and name information.
- **Extension Type:** SIP by default.

- **Extension number:** Customize the extension number, it can be up to 8-digit; for example, the number of Room 401, Unit 2, Building 1 can be defined as 01020401 for quick internal identification.
- **Extension Password:** User's SIP account password, which can be used to request account registration from the SIP service.
- **Registered Terminal Count:** The maximum number of terminals that a user can register to the same number. When the number of concurrent registrations is 1, it means that new registrations are allowed to preempt the registration address. When the number of concurrent registrations is 2 or more, new registrations will be automatically blocked once the number of registrations reaches the limit.

After the user creates the extension number, the system will automatically generate a SIP account. For example, assuming the user has created the extension number 322603, the system automatically generates the SIP account as 661, so the SIP User Name used on the terminal is 661.

Note:

1) The SIP Account column is hidden by default. You can right-click the row which Operations is in and check the SIP Account to display it.

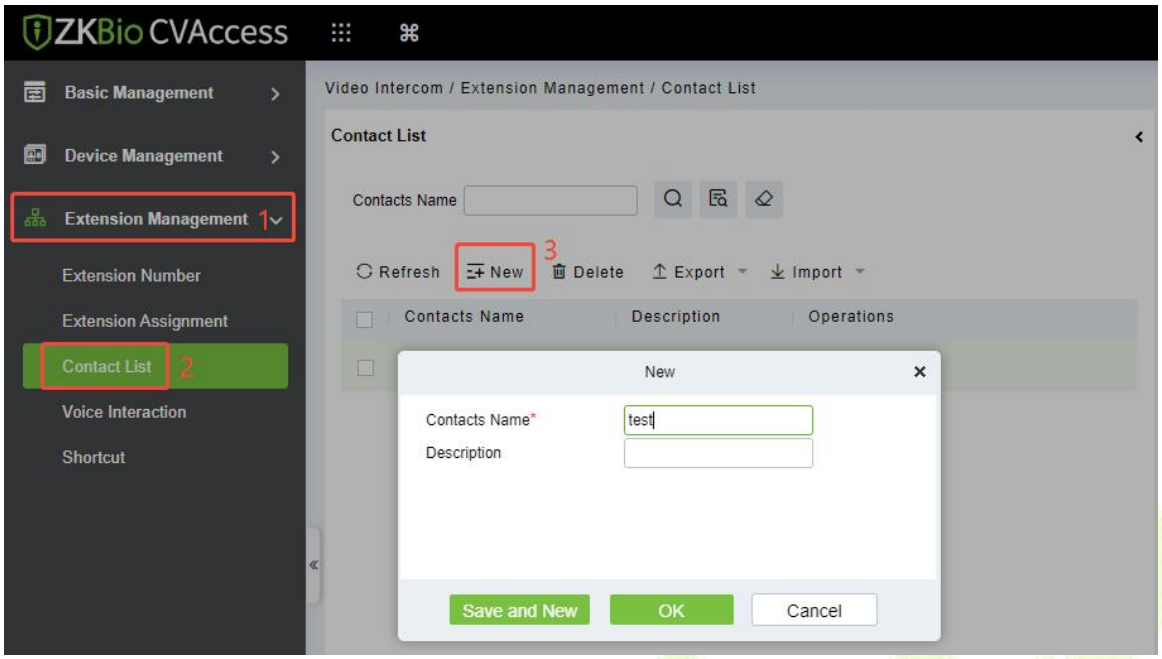


2) If you use a PBX, the extension number will be directly used, and the SIP account list will be empty.

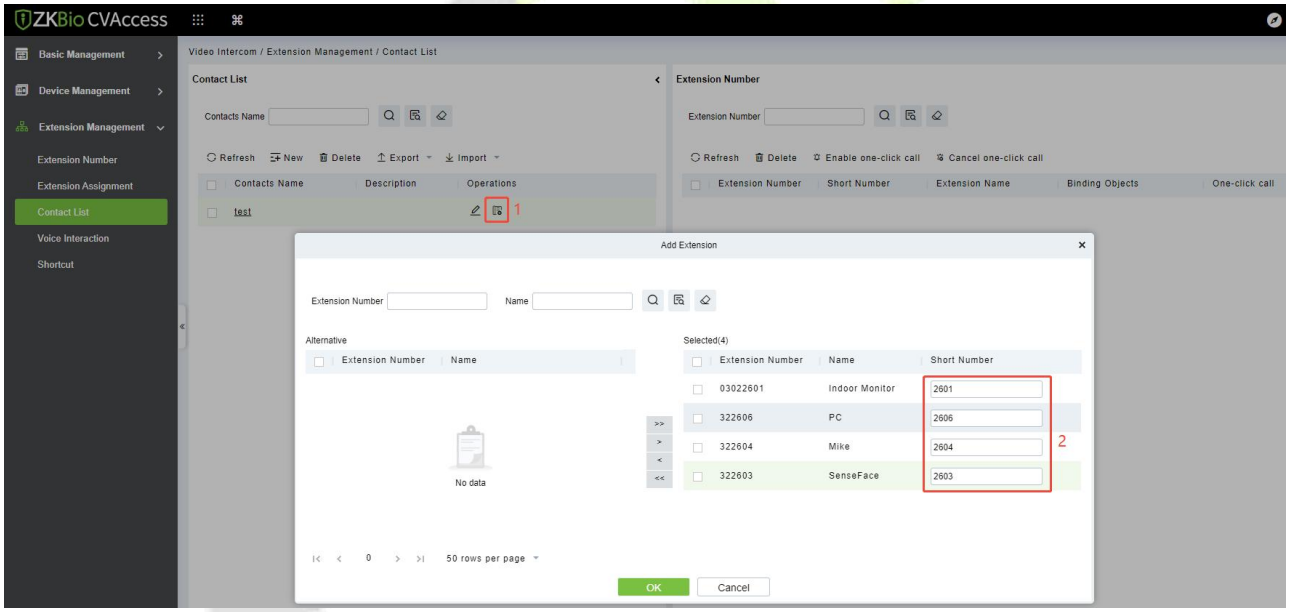
17.2.4 Contact List

If you need to enable different devices or personnel to view a limited number of contacts, you can configure the contact list.

1. Click **Extension Management > Contact List > New** to create a contact list.



2. Click the icon to add extension numbers to the contact list. During the process of adding extension numbers, you can define a short number for the extension on the right, for example, if the number for Room 1101 is defined as 101. After defining and synchronizing the short number to the device, the device can then dial the short number 101 to call that room.



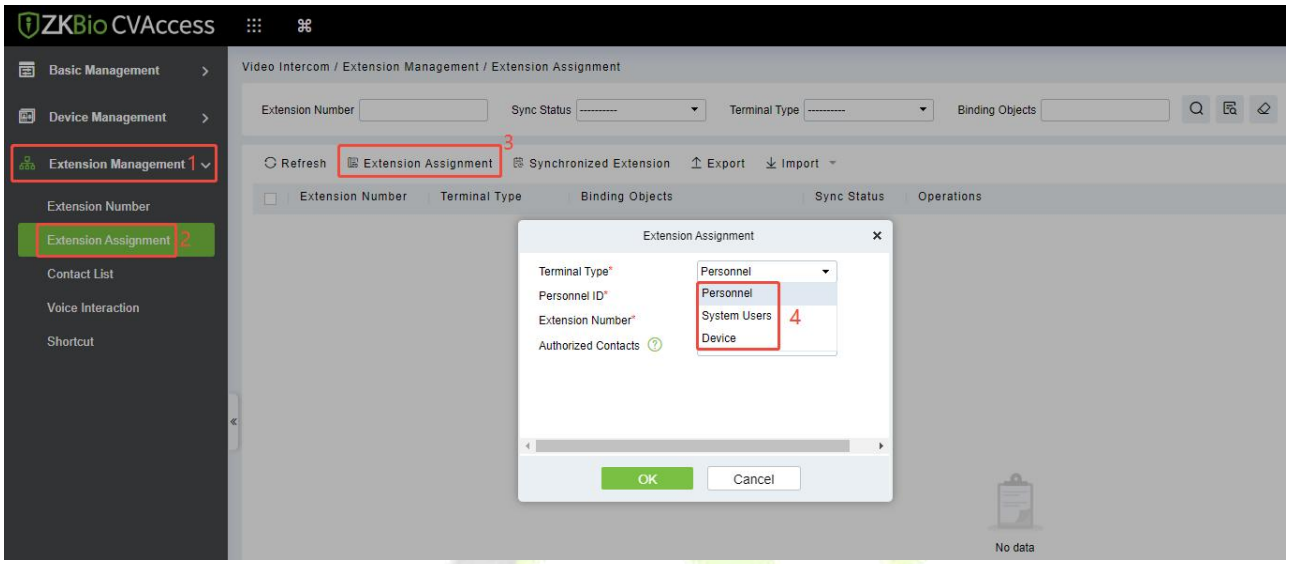
Note:

1) If you add an extension number to the contact list without editing the short number, and you wish to edit it later, you will need to delete the extension number from that contacts and then edit it when re-adding, or delete it and use the import function afterward.
2) If the device is set to be a fence terminal, please do not define the short number of the indoor monitors. You just need to input the block, unit and room number to call the indoor monitor.

17.2.5 Assignment of Extension Numbers and SIP Accounts

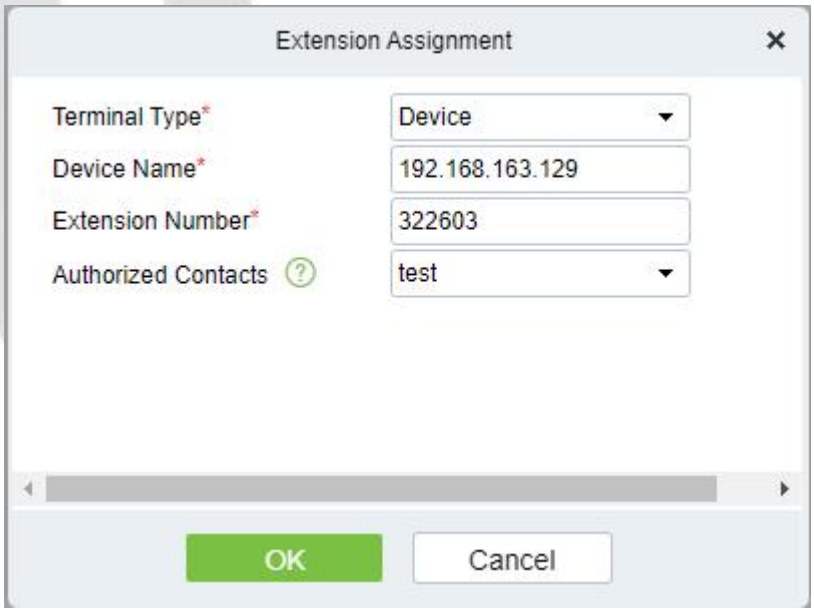
The extension number or SIP account can be assigned to personnel, devices or system users. After allocation, personnel and users' APP will be able to directly use video intercom for communication. The device can also be used directly without manual additional configuration.

Click **Extension Management > Extension Assignment > Extension Assignment**, select the Terminal Type.

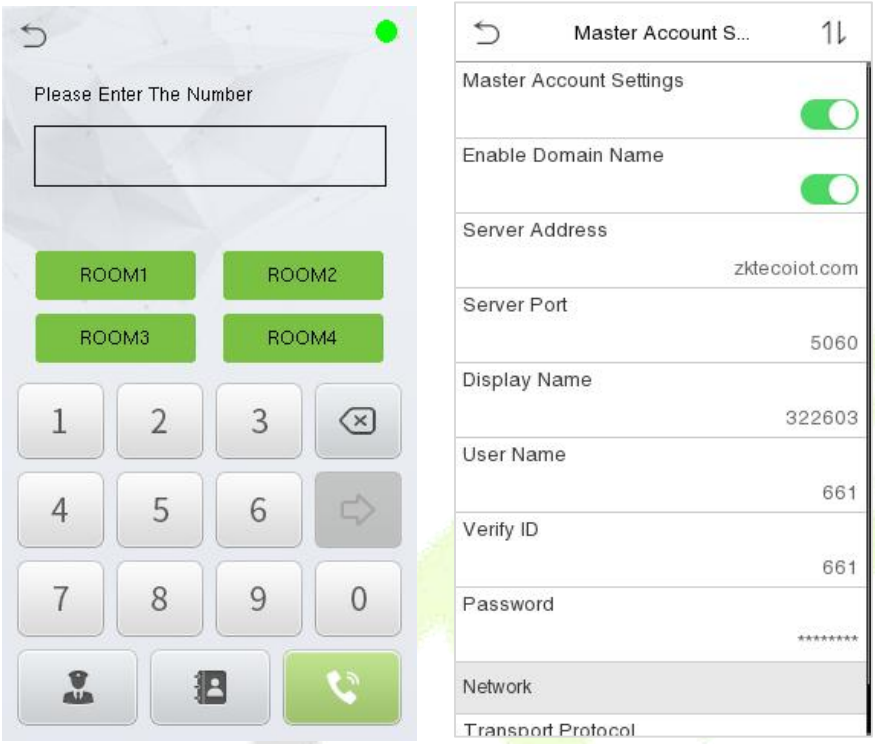


- **Device Account Assignment**

1. Select the Terminal Type as **Device**.
2. Select the device need to be bound (device or indoor monitor) and the extension number. The account information will be automatically synchronized to the device. Select the Authorized Contacts to assign the contact list to the device; only after the assignment can the device call room numbers/short numbers or make calls through the contact list search.

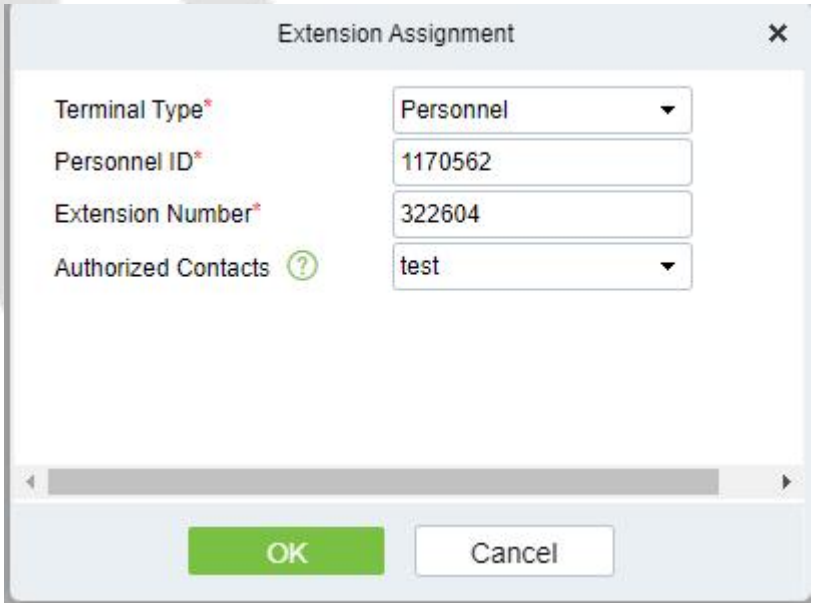


3. After successful assignment, a green dot will appear in the upper right corner of the call page, indicates that the device is connected to the server. You can also click **Intercom > SIP Settings > Local Settings > Master Account Settings** to see that SIP server and account information have been automatically written, as shown in the following figure.



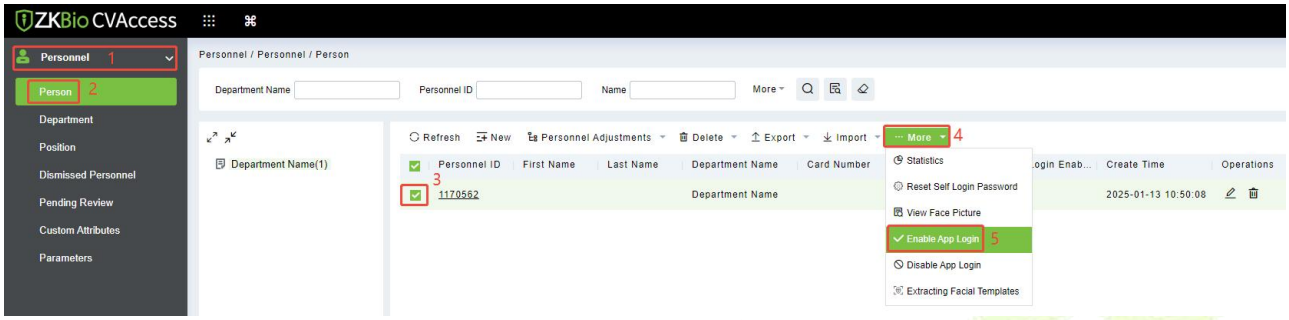
- **Personnel Account Assignment (ZKBio Zexus App)**

1. Select the Terminal Type as **Personnel**.
2. Select the person to be assigned an account and the extension number. Select the Authorized Contacts to assign the contact list to the individual, and after the assignment, the individual can view the contacts in the contact list upon logging into the ZKBio Zexus App.

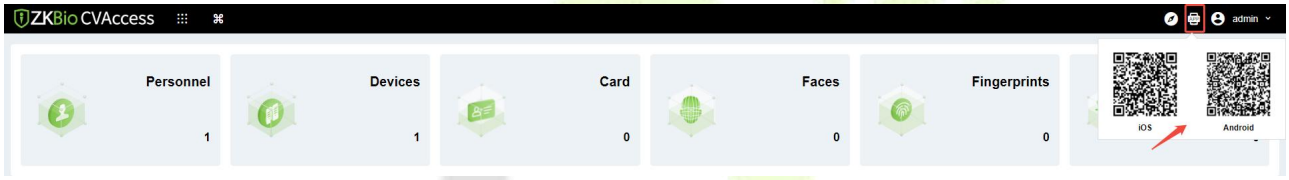


Note:

1) Before assign account to the personnel, you need first add personnel in ZKBio CVAccess. The adding method can refer to 20 Connect to ZKBio CVAccess Software.
2) The personnel need to enable APP Login. (Click **Personnel > Personnel > Person > More > Enable APP Login**.) Once a person has enabled APP login, they can directly access the Video Intercom feature upon logging into the App.

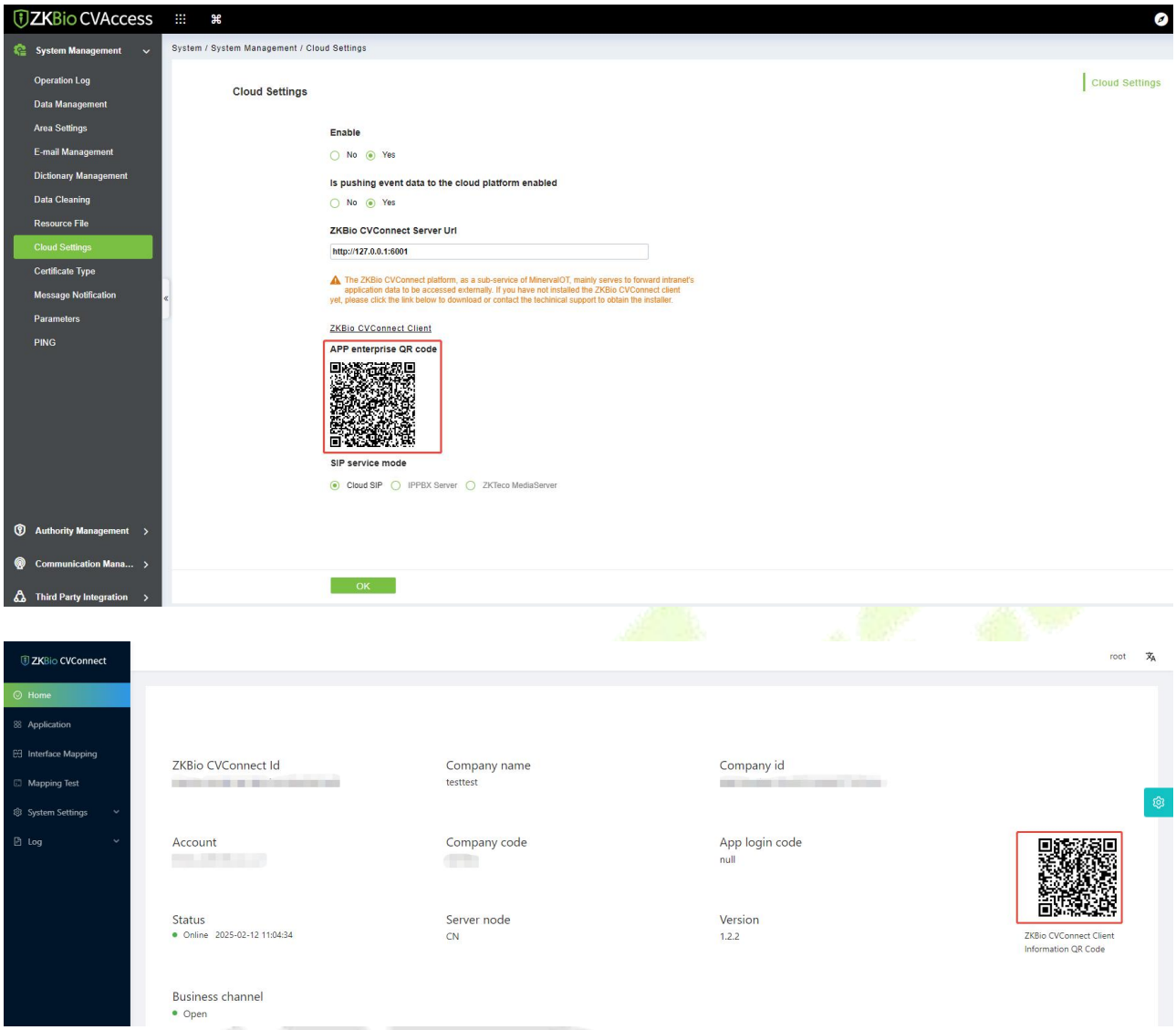


3) You can click the icon at the right top corner of the ZKBio CVAccess interface to scan the QR code to install the ZKBio Zexus App.



3. After successful assignment, the personnel can login to the App. Select the role-**Personnel**, enter the account information, and click **Login**.

Organization Name: Scan the organization code you get before. (Go to ZKBio CVAccess web, enter **System > System Management >Cloud Setting >APP enterprise QR Code**, or go to ZKBio CVConnect client, scan the ZKBio CVConnect Client Information QR Code.)

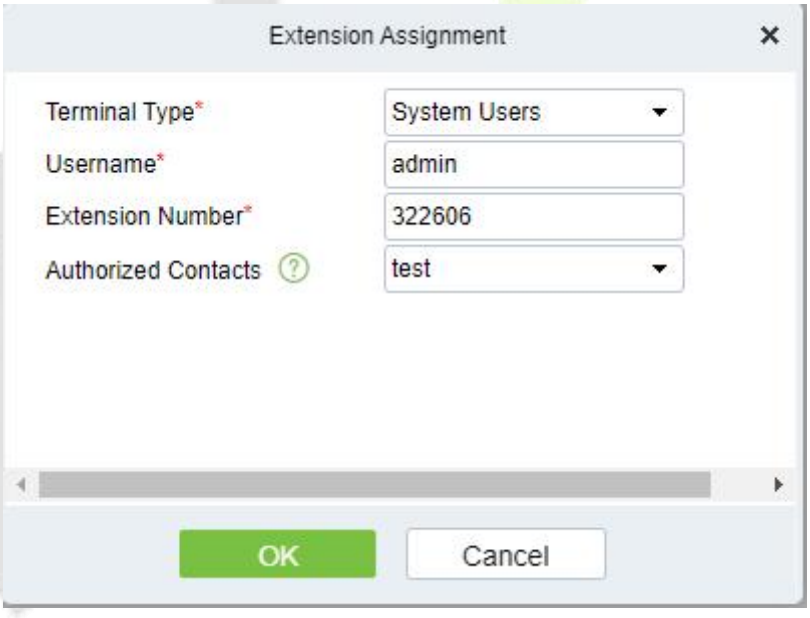


Account & Password: The personnel ID & password (default: 123456).

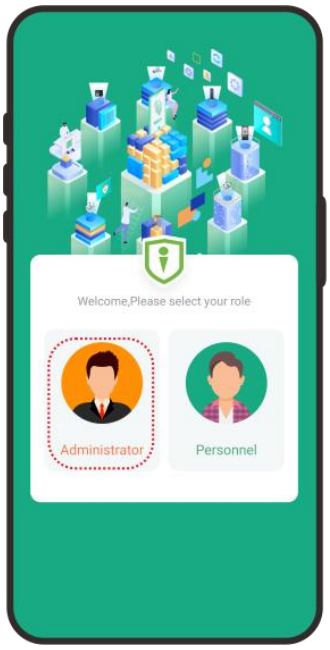
4. Click **Application Center > Video Call** to enter the video call application, and the status will be displayed as **Connected**. If the person has not assigned an extension number, entering the application will prompt "you have not assigned an extension number, please contact the administrator". Then you can directly enter the extension number of the device or click the icon to search for the device and call it.

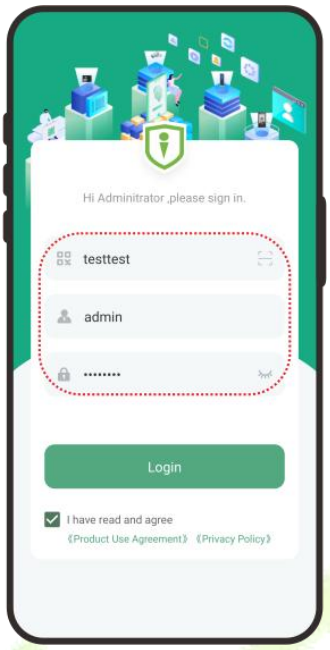
- **System User Account Assignment (ZKBio Zexus App)**

1. Select the Terminal Type as **System Users**.
2. Select the system user to be assigned an account and the extension number. Select the Authorized Contacts to assign the contact list to the admin, and after the assignment, the admin can view the contacts in the contact list upon logging into the ZKBio Zexus App.

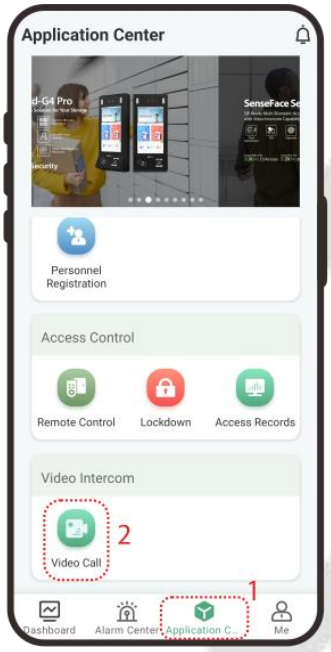


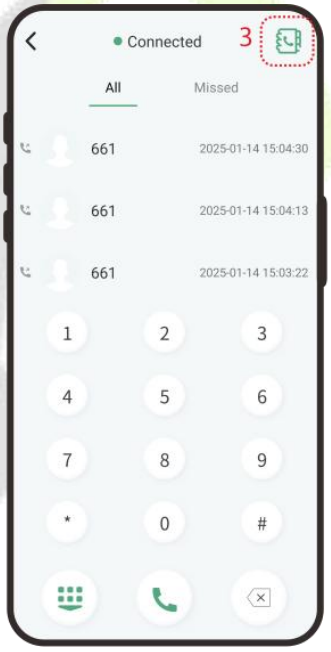
3. After successful assignment, the admin can login to the App. Select the role-**Administrator**, enter the account information, and click **Login**.
   Organization Name: Scan the organization code you get before.
   Account & Password: The administrator account; Same account & password as ZKBio CVAccess.

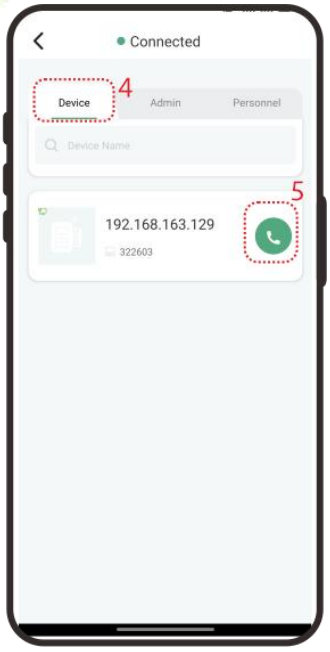




4. Click **Application Center > Video Call** to enter the video call application, and the status will be displayed as **Connected**. Then you can directly enter the extension number of the device or click the  icon to search for the device and call it.







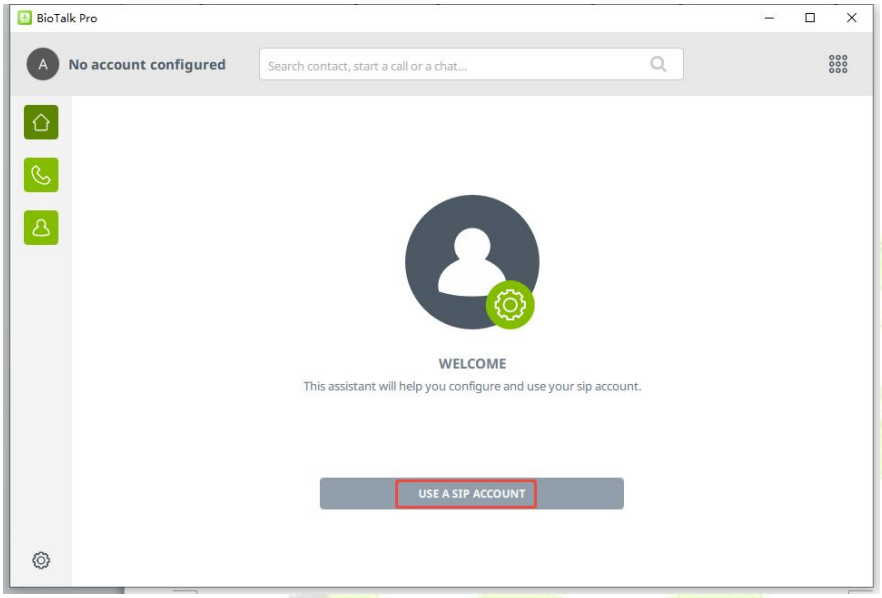
The App complete operation steps please refer to the ZKBio Zexus Mobile App User Manual.

17.2.6 PC Client Functionality

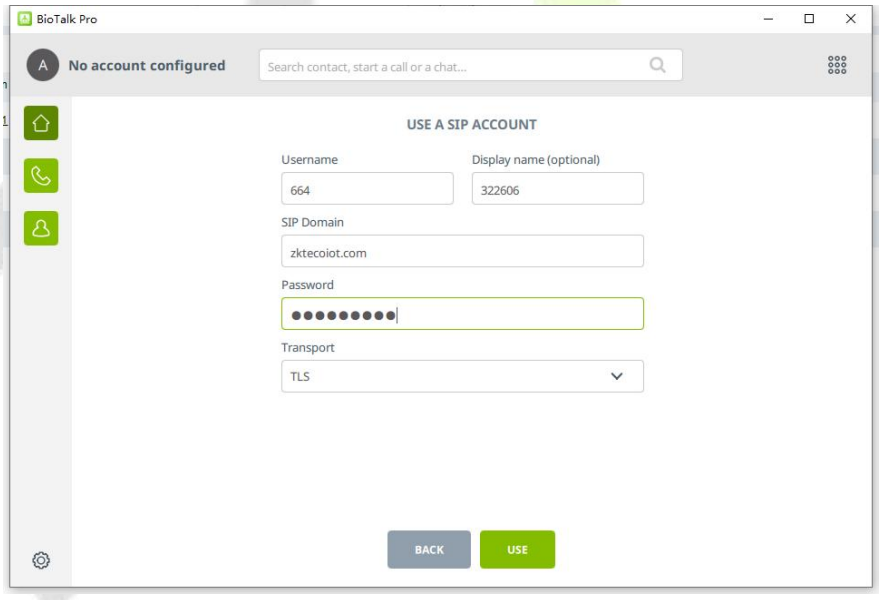
To use the BioTalk Pro PC client, please contact the appropriate person for an installation package.

Operation Guide

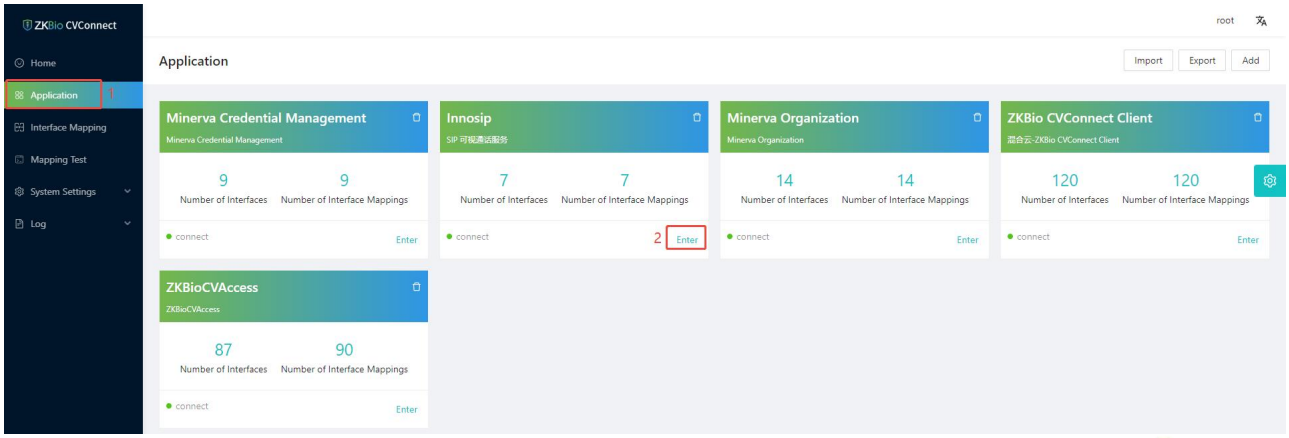
Step 1: Configure the SIP account: Click **USE A SIP ACCOUNT** button.

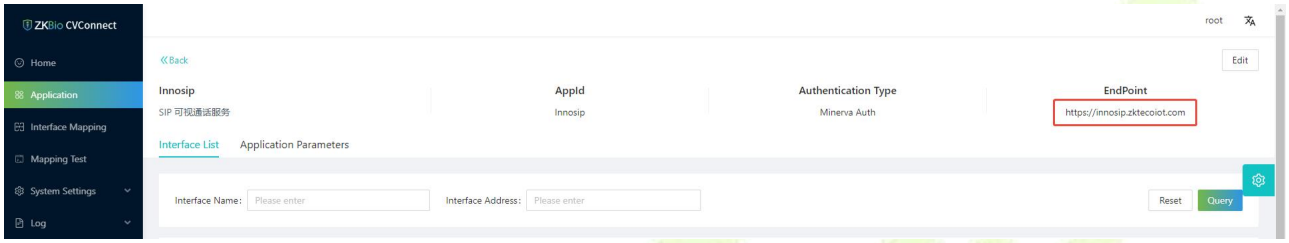


Step 2: Fill in the SIP account information in order and click **USE**.



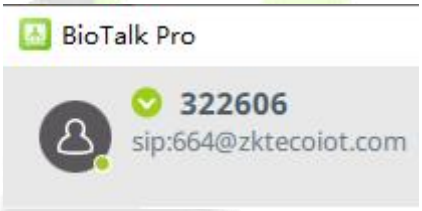
- **Username:** Enter the SIP account. (**Note:** You need to create a new SIP account for the PC client in ZKBio CVAccess, then you can use the account to login to the PC client.)
- **Display Name:** It is the extension number.
- **SIP Domain:** The SIP Server Domain. (Go to ZKBio CVConnect client, click **Application > Innosip > Enter**, the EndPoint address is “https://innosip.zktecoiot.com”. Then 'zktecoiot.com' is the actual SIP server domian you need to enter on the PC Client.)





- **Password:** The extension password of the SIP account for PC client.
- **Transport:** Transportation Protocol, TLS by default.

Wait 1 minute until the status shows Connected, as shown below:

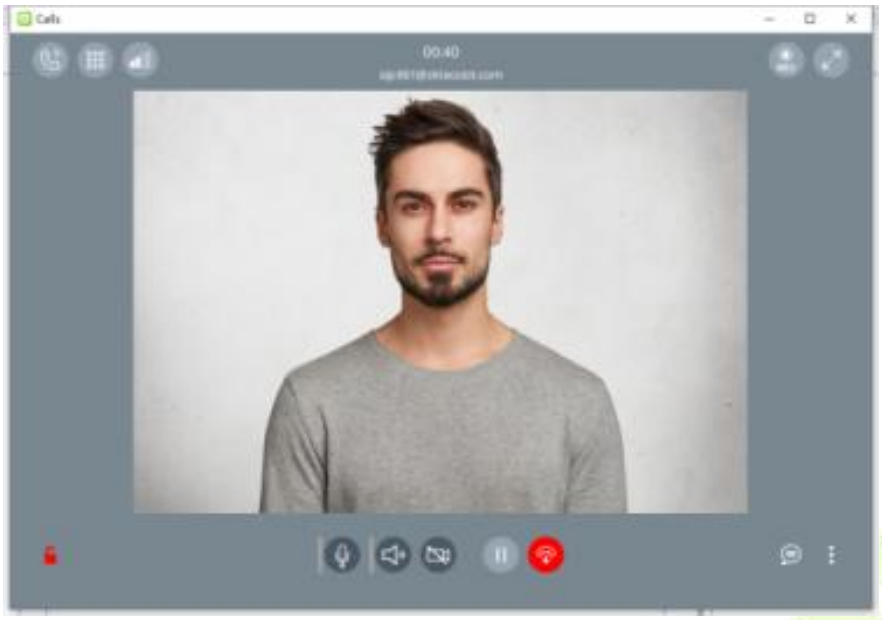


Note: In the Cloud SIP mode, if dialing is required, the PC Client should dial directly to the target SIP account. For example, if the extension number created on ZKBio CVAccess is 322603, the corresponding generated SIP account is 661, then the PC Client should dial 661 when making a call. Therefore, it is recommended to directly create a contact in the address book with the number 661.

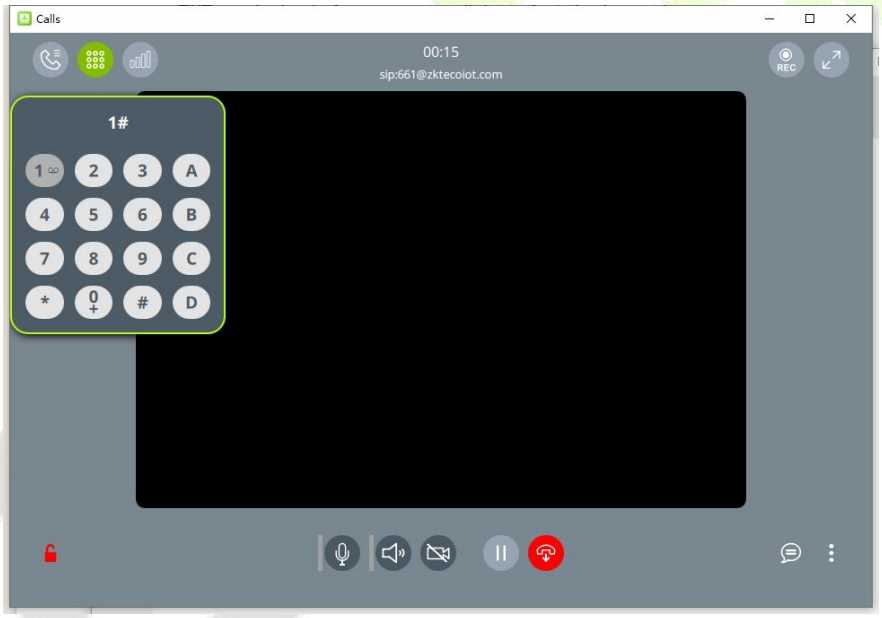
At this point you can start to use it normally, the PC client, the device and the App can call and answer each other.

When the PC Client receives a call, a window alert will pop up in the lower right corner of the desktop.

Click the  icon to accept it.



You can open the door by clicking on the keypad and entering the DTMF value of the device, e.g. the default value of ZKTeco device is 1, so you can click on 1 at the keypad.



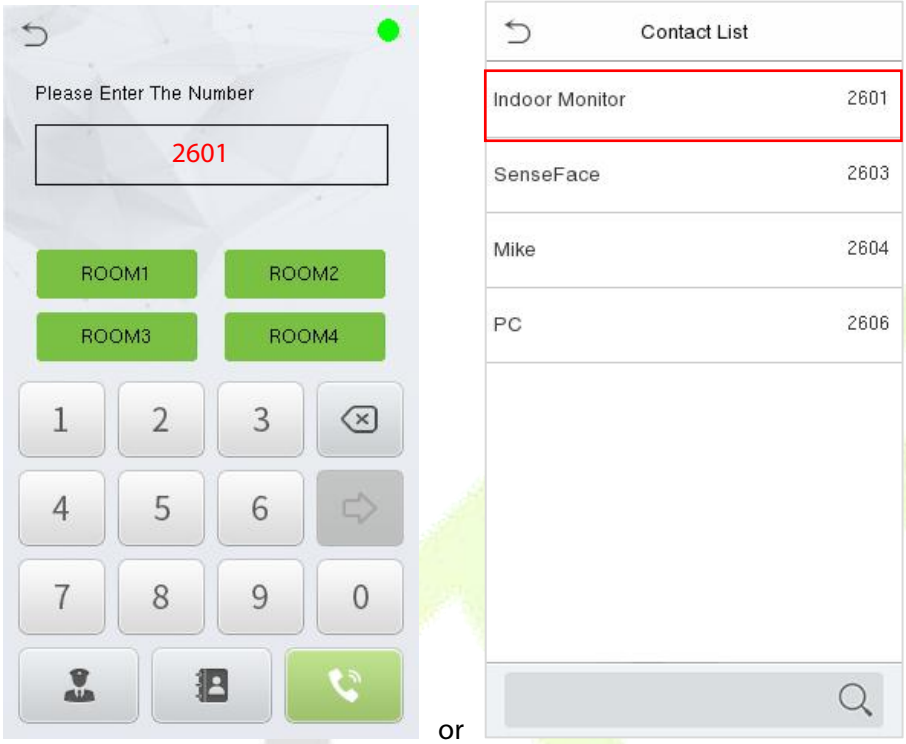
17.2.7 Make a Call

Two-way calls can be made between the device, indoor monitor, ZKBio Zexus App, and PC client (BioTalk Pro).

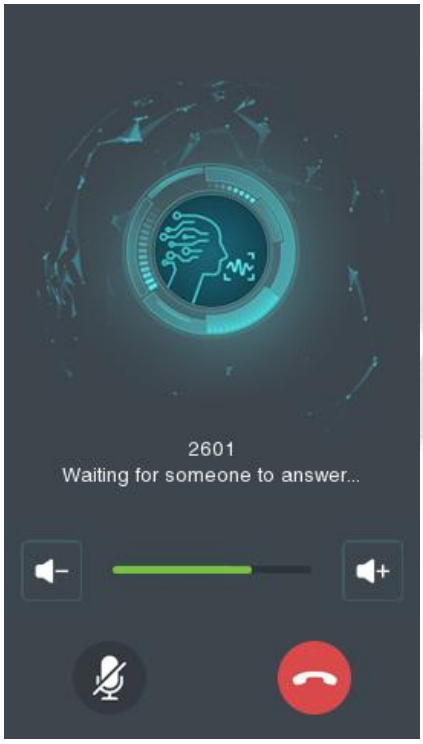
- **Device Call the Indoor Monitor (VT07-B26L-W / VT07-B22L)**

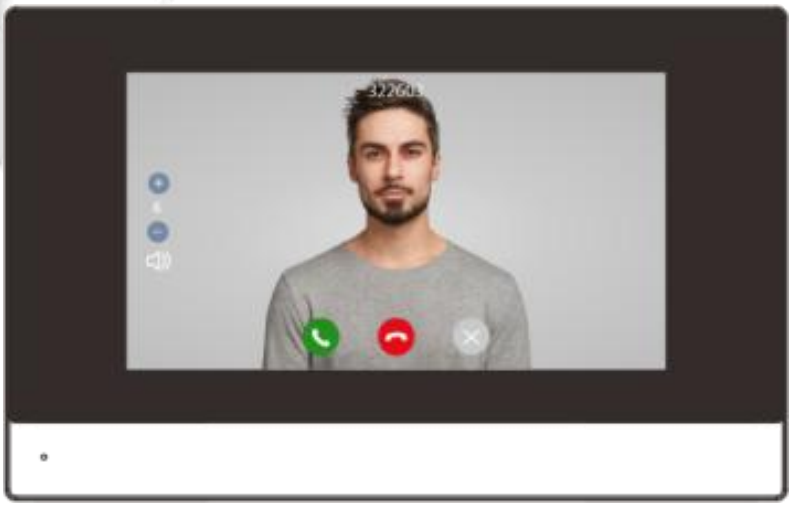
1. Add the indoor monitor on the ZKBio CVAccess software, then assign an extension number to the indoor monitor. (The operations steps can refer to 17.2.2 Add Device and 17.2.5 Assignment of Extension Numbers and SIP Accounts)

2. Click the icon on the device and enter the Short Number of the indoor monitor in the pop-up interface of the device. Or click the icon on the call page to open the contact list and search for the indoor monitor to call it.



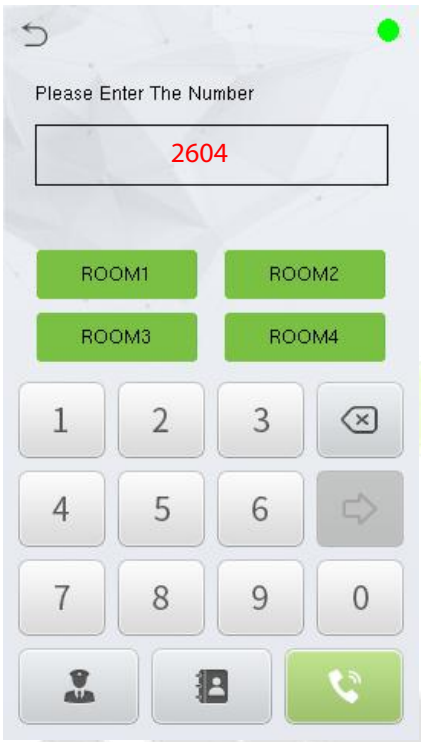
or



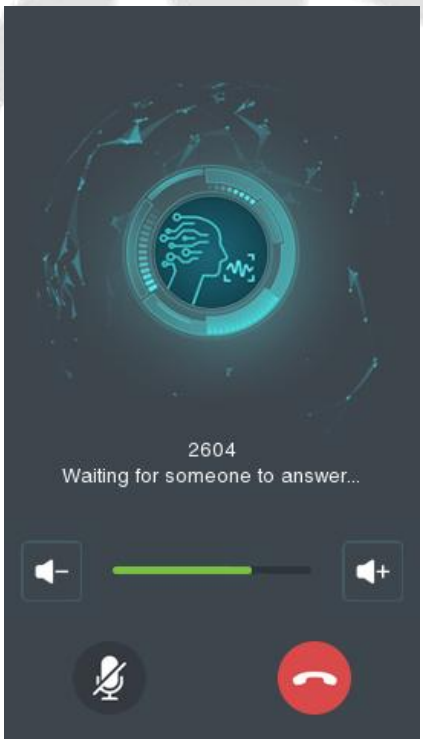


- **Device Call the Phone (ZKBio Zexus App)**

1. On the ZKBio CVAccess software, assign an extension number to the personnel. (The operations steps can refer to 17.2.5 Assignment of Extension Numbers and SIP Accounts)
2. Click the icon on the device and enter the Short Number of the personnel in the pop-up interface of the device. Or click the icon on the call page to open the contact list and search for the personnel to call him/her.

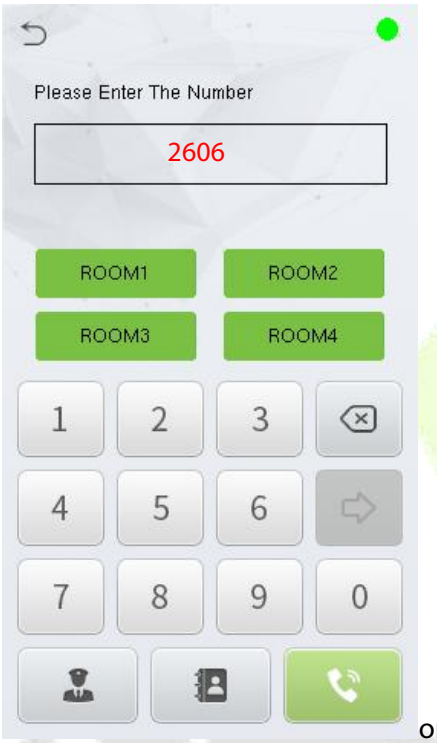


or

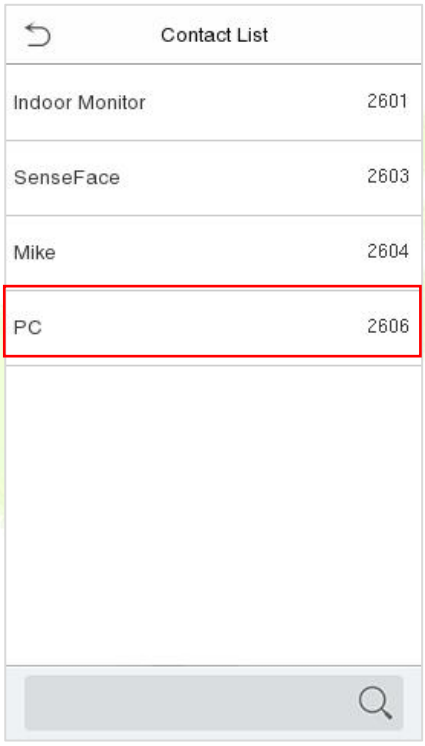


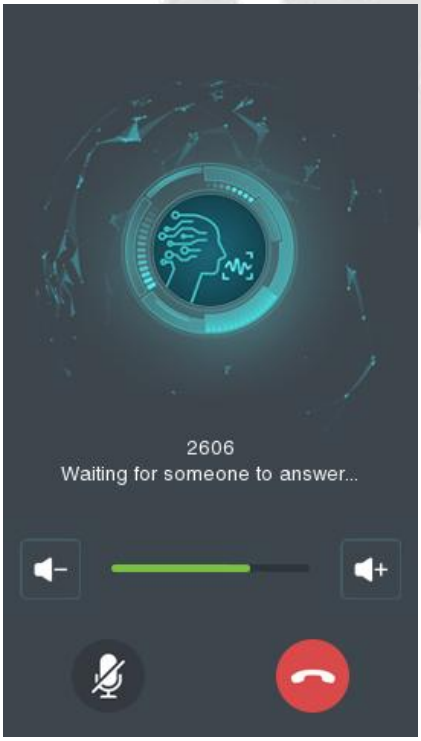
- **Device Call the PC Client (BioTalk Pro)**

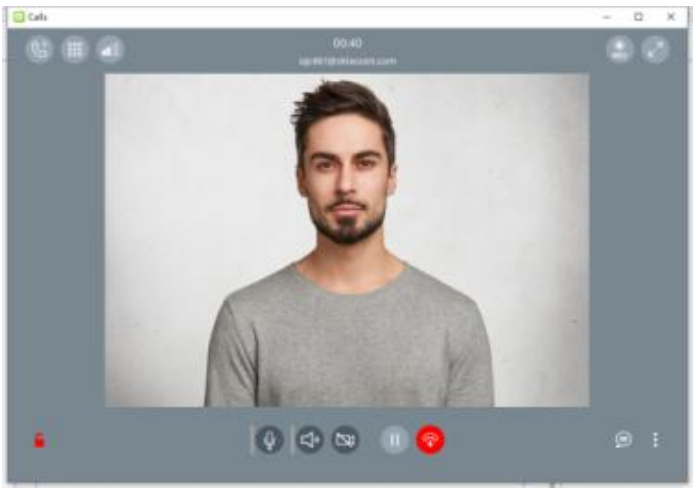
1. Install the BioTalk Pro software and configure the SIP account. (The operations steps can refer to 17.2.6 PC Client Functionality)
2. Click the icon on the device and enter the Short Number of the PC client in the pop-up interface of the device. Or click the icon on the call page to open the contact list and search for the PC client to call it.



or

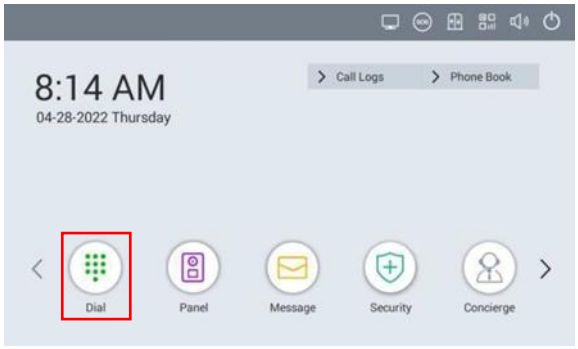






- **Indoor Monitor Call**

Click the **Dial** icon, then enter the SIP Account to make a call.



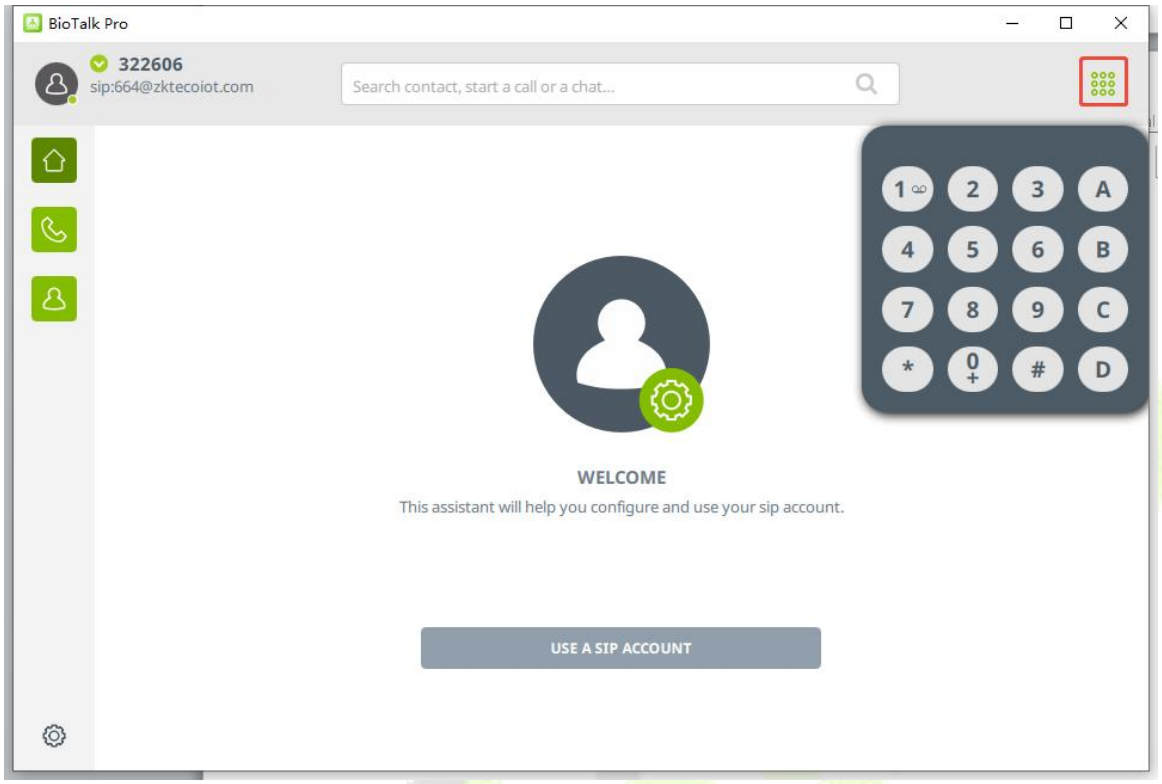
Note: The indoor monitor is not supported the assignment of the contact list in ZKBio CVAccess.

- **Phone Call**

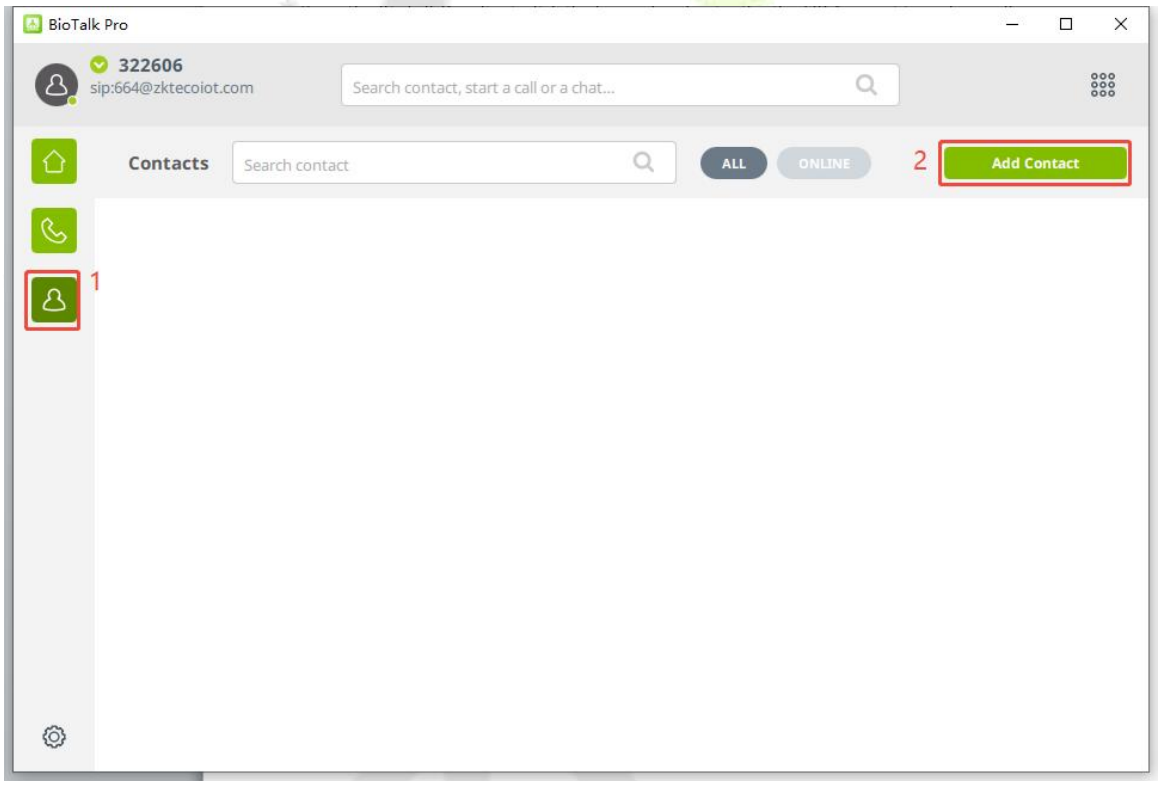
Login to the ZKBio Zexus App, click **Application Center > Video Call** to enter the video call application, Then you can directly enter the extension number or click the icon to search for the one you want to call.

- **PC Client (BioTalk Pro) Call**

Open the BioTalk Pro client, click the keypad and enter the the SIP Account to make a call.



You can click the icon **> Add Contact** to add the contact list manually.



18 Connecting to ZKBio Zlink Mobile App

The Mobile App pages may vary depending on the version, and the document is for reference only.

Change the device communication protocol to BEST protocol, then the device can be managed by ZKBio Zlink, please refer to 11.5 Device Type Setting.

- **Download the ZKBio Zlink Mobile App**

Search for the "ZKBio Zlink" Mobile App in the iOS App Store or Google Play Store. Or scan the QR code below to install the app.

Apple App Store

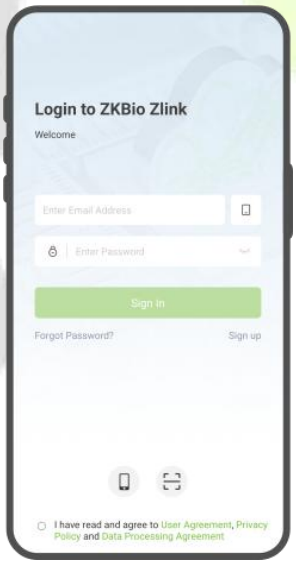
Google Play Store

Download on the App Store

GET IT ON Google Play

18.1 Login to the Mobile App

Enter your registered account and password, check “I have read and agree to User Agreement, Privacy Policy and Data Processing Agreement” and click **Sign In** to log in to the Mobile App.



Note: *For more operations, refer to the ZKBio Zlink App's user manual.*

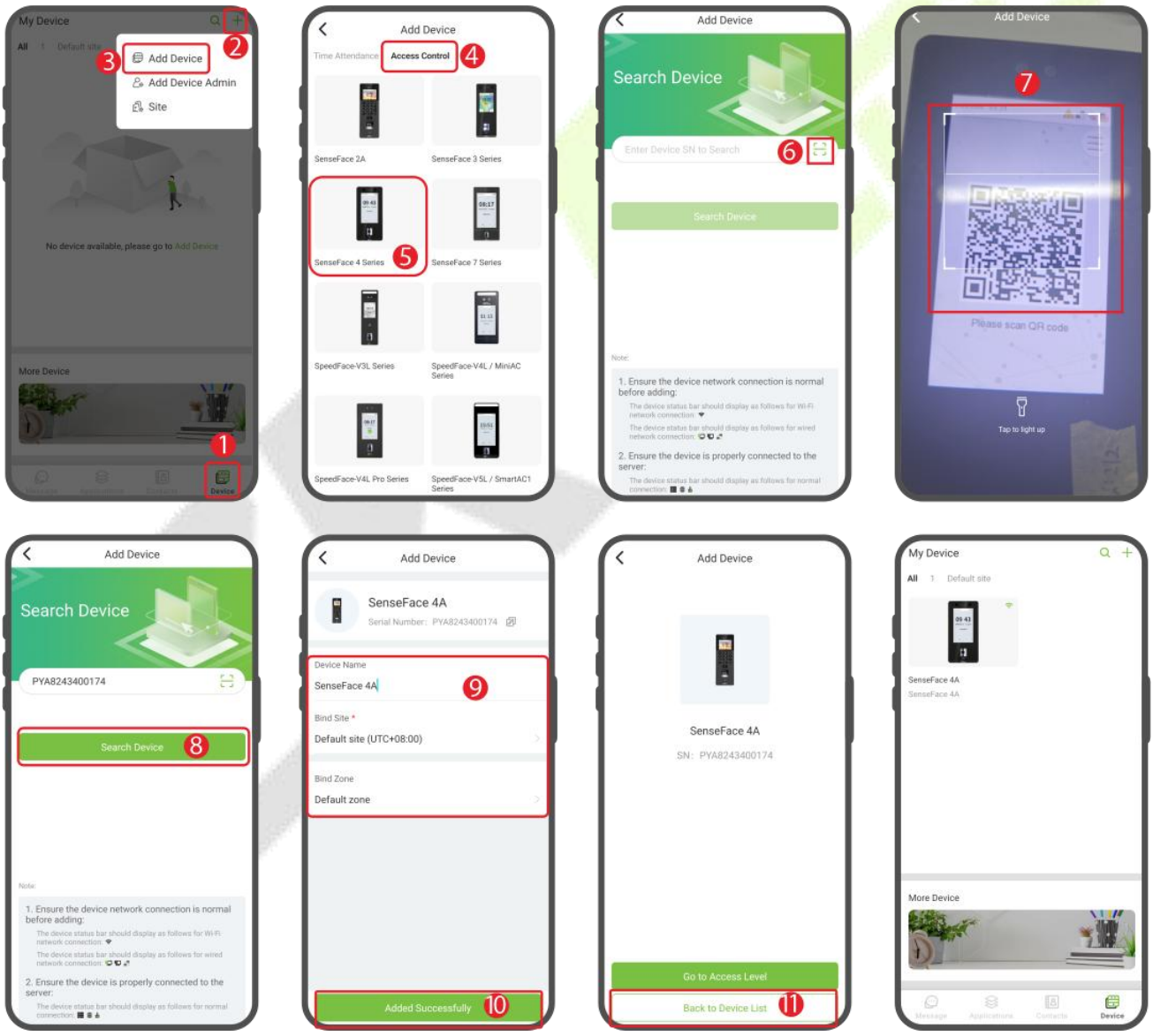
18.2 Add Device on the Mobile App

1. Access the ZKBio Zlink Mobile App and click on [**Device**] > + icon > [**Add Device**] > [**Access Control**] > **[SenseFace 4 Series]**.

2. Click icon to scan the QR code on the device. The serial number of the device will be displayed in the bar. Then click **[Search Device]**.

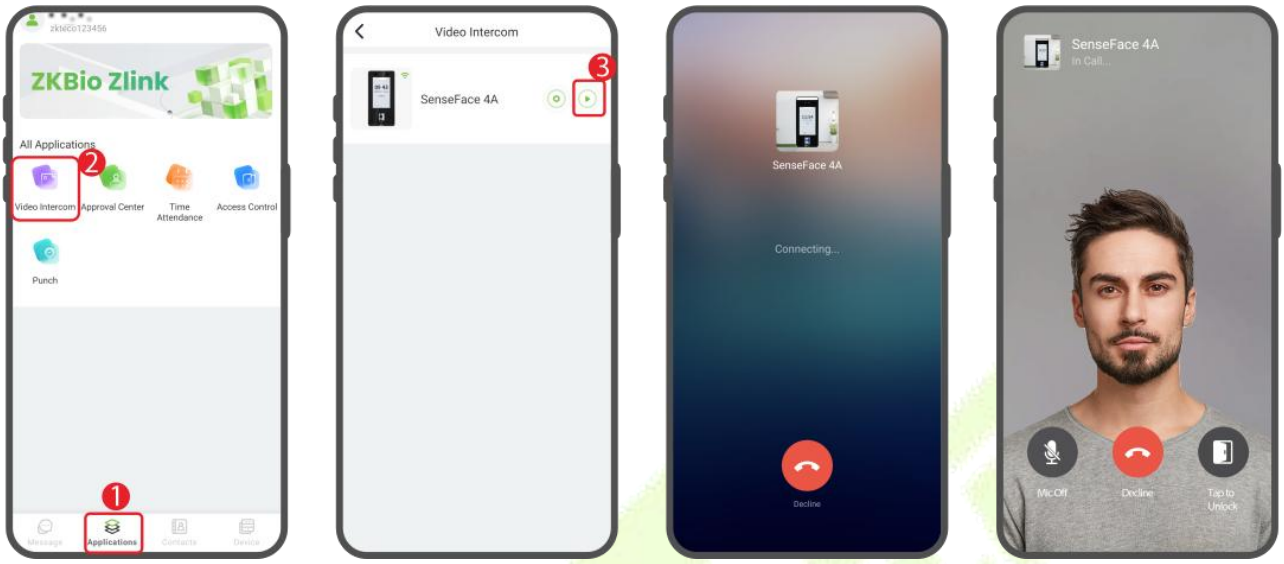
3. Enter the device name and specify the device to a site and zone. Click [**Added Successfully**] to complete the addition. At the same time, the device voice prompts "**Device is added successfully**" indicating that the addition is complete.

4. Once successfully added, the device is displayed in the list of the device interface. Then you can set the access levels and video intercom function as needed.



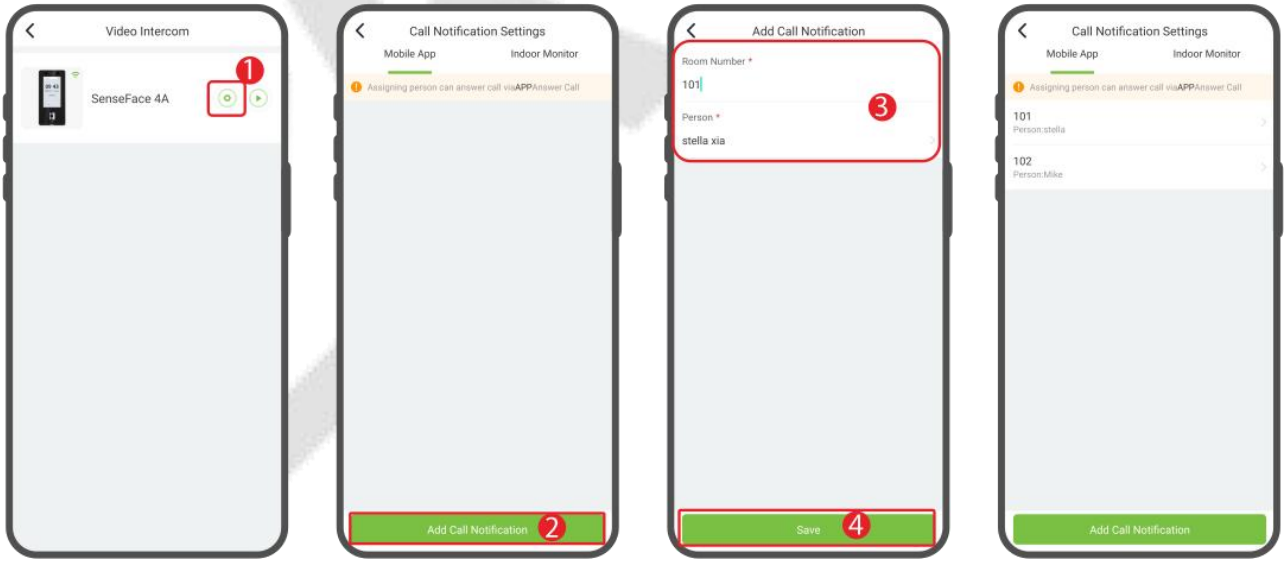
18.3 Video Intercom

1. Click [**Applications**] > [**Video Intercom**] > icon can call the device. Click **Tap to Unlock** icon can open the door remotely.

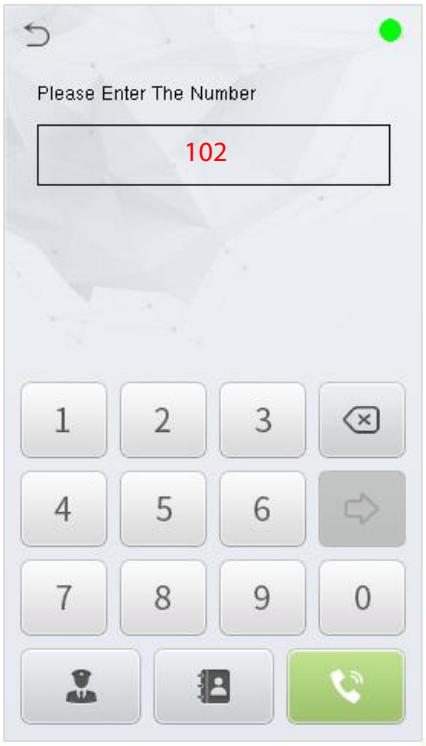


2. Click icon > **[Add Call Notification]** to assign person that can answer call via App.

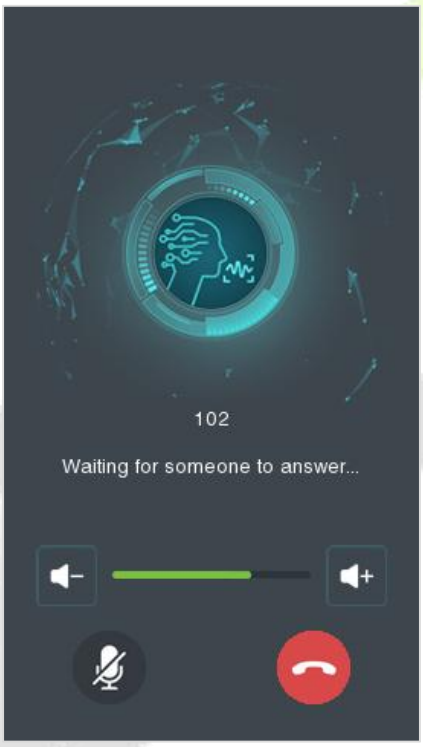
- **Room Number:** Customize the number of the person.
- **Person:** One or multiple persons can be selected. If multiple persons are selected, all the persons will receive the call when the device calls the number.



3. After the setting is successful, you can click the icon on the device and enter the Number of the person in the pop-up interface of the device. Or click the icon on the call page to open the contact list and search for the person to call him/her.



or



19 Connecting to ZKBio Zlink Web Portal

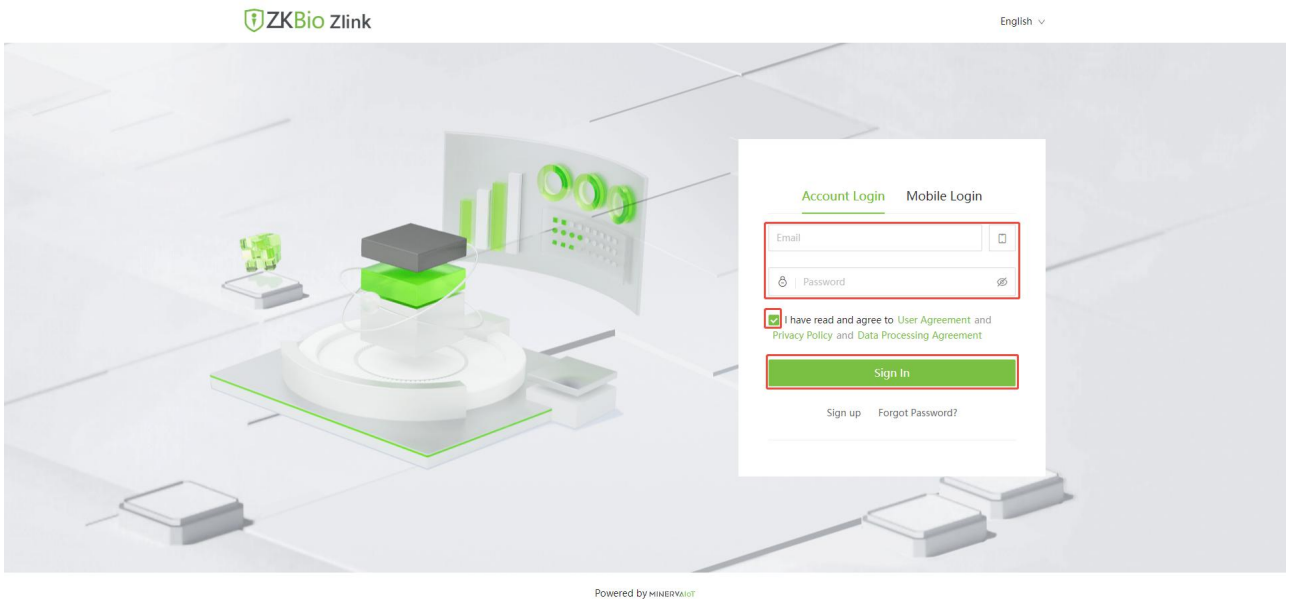
The Web Portal pages may vary depending on the version, and the document is for reference only.

Change the device communication protocol to BEST protocol, then the device can be managed by ZKBio Zlink, please refer to 11.5 Device Type Setting.

Users can use the created account to access ZKBio Zlink Web Portal to connect devices, add new personnel, register the verification method of registered personnel, synchronize personnel to devices and query records.

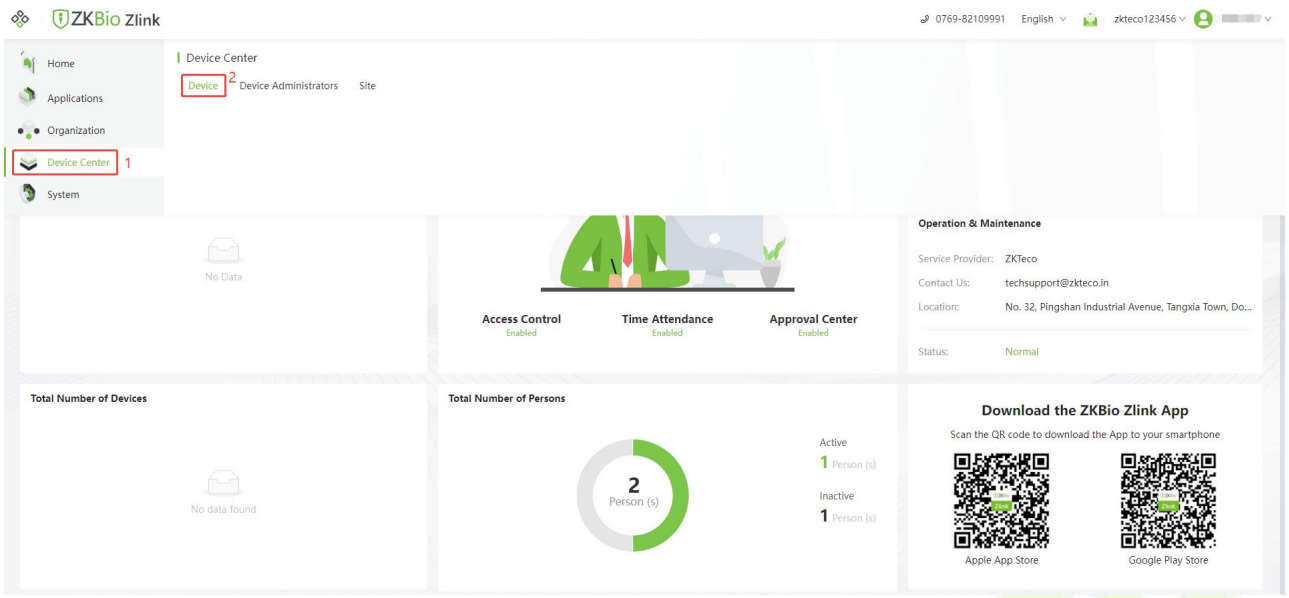
19.1 Login to the Web Portal

1. Please open the recommended browser and enter the IP address to access the ZKBio Zlink Web Portal: http://zlink.minervaiot.com.
2. Enter your registered account on the login screen, check "I have read and agree to User Agreement and Privacy Policy and Data Processing Agreement" and click [**Sign In**] to login.

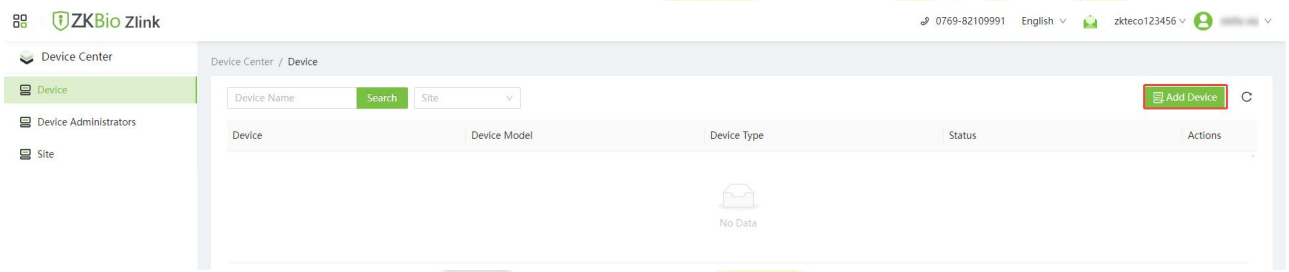


19.2 Add Device on the Web Portal

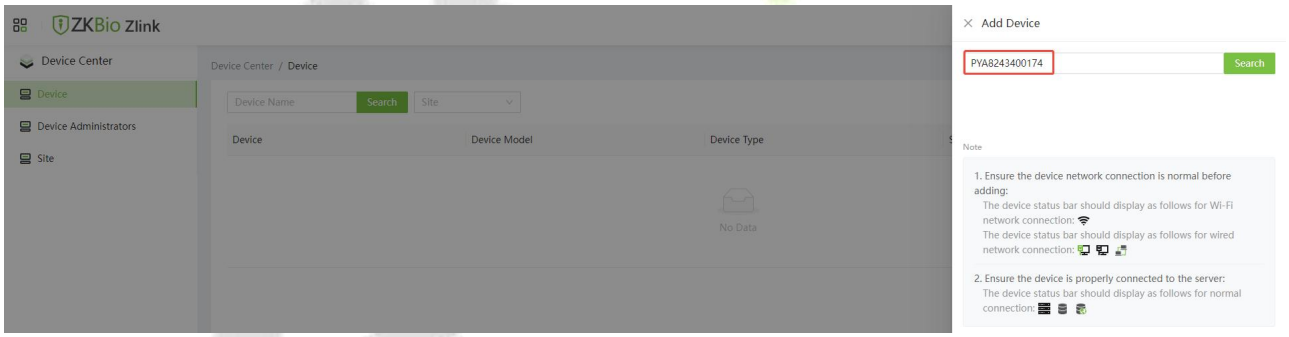
1. Click the icon on the top left corner, and click [**Device Center**] > [**Device**] to enter the device setting interface.



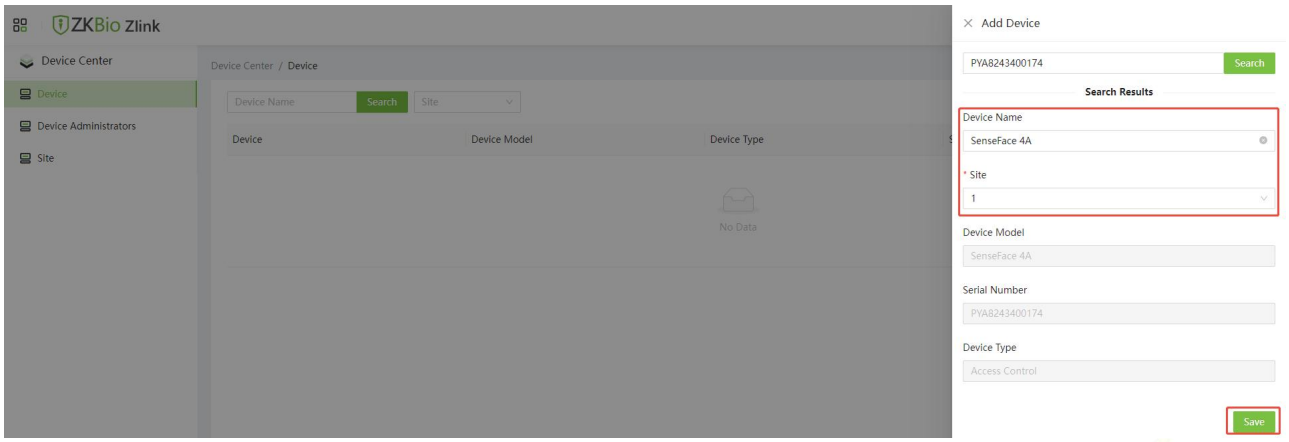
2. Then click [**Add Device**] to enter the Add Device interface.



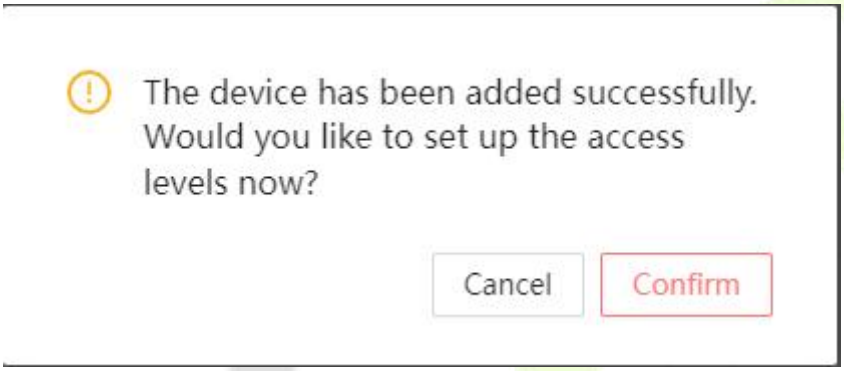
3. Enter the Serial Number and click [**Search**].

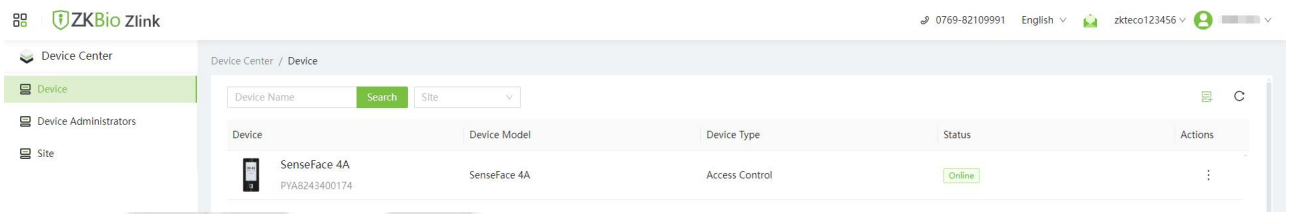


4. Then enter the device name and specify the device to a site. Select Site from the drop- down menu. Click [**Save**] to complete the addition.



5. After the device is added, it will pop up the following prompt. Click **Confirm**, it will directly enter the access level setting interface. Click **Cancel**, the device will be displayed in the device list. Then you can set the access levels as needed.





Note: *Wait a moment for the device status to change from "**Offline**" to "**Online**".*

For more information, please refer to the relevant User Manual.

Appendix 1

Requirements of Live Collection and Registration of Visible Light Face Templates

1) It is recommended to perform registration in an indoor environment with an appropriate light source without underexposure or overexposure.
2) Do not place the device towards outdoor light sources like door or window or other harsh light sources.
3) Dark-color apparels, different from the background color is recommended for registration.
4) Please expose your face template and forehead properly and do not cover your face template and eyebrows with your hair.
5) It is recommended to show a plain facial expression. (A smile is acceptable, but do not close your eyes, or incline your head to any orientation).
6) Two templates are required for a person with eyeglasses, one template with eyeglasses and the other without the eyeglasses.
7) Do not wear accessories like a scarf or mask that may cover your mouth or chin.
8) Please face template right towards the capturing device, and locate your face template in the template capturing area as shown in the template below.
9) Do not include more than one face template in the capturing area.
10) A distance of 50cm to 80cm is recommended for capturing the template. (The distance is adjustable, subject to body height).

Requirements for Visible Light Digital Face Template Data

The digital photo should be straight-edged, colored, half-portrayed with only one person, and the person should be uncharted and in casuals. Persons who wear eyeglasses should remain to put on eyeglasses for getting photo captured.

- **Eye distance**

200 pixels or above are recommended with no less than 115 pixels of distance.

- **Facial expression**

Neutral face template or smile with eyes naturally open are recommended.

- **Gesture and angel**

Horizontal rotating angle should not exceed ±10°, elevation should not exceed ±10°, and depression angle should not exceed ±10°.

- **Accessories**

Masks or colored eyeglasses are not allowed. The frame of the eyeglasses should not cover eyes and should not reflect light. For persons with thick eyeglasses frame, it is recommended to capture two templates, one with eyeglasses and the other one without the eyeglasses.

- **Face template**

Complete face template with clear contour, real scale, evenly distributed light, and no shadow.

- **Template format**

Should be in BMP, JPG or JPEG.

- **Data requirement**

Should comply with the following requirements:

1) White background with dark-colored apparel.
2) 24bit true color mode.
3) JPG format compressed template with not more than 20kb size.
4) Resolution should be between 358 x 441 to 1080 x 1920.
5) The vertical scale of head and body should be in a ratio of 2:1.
6) The photo should include the captured person's shoulders at the same horizontal level.
7) The captured person's eyes should be open and with clearly seen iris.
8) Neutral face template or smile is preferred, showing teeth is not preferred.
9) The captured person should be clearly visible, natural in color, no harsh shadow or light spot or reflection in face template or background. The contrast and lightness level should be appropriate.

Appendix 2

Privacy Policy

Notice:

To help you better use the products and services of ZKTeco (hereinafter referred as "we", "our", or "us") a smart service provider, we consistently collect your personal information. Since we understand the importance of your personal information, we took your privacy sincerely and we have formulated this privacy policy to protect your personal information. We have listed the privacy policies below to precisely understand the data and privacy protection measures related to our smart products and services.

Before using our products and services, please read carefully and understand all the rules and provisions of this Privacy Policy. If you do not agree to the relevant agreement or any of its terms, you must stop using our products and services.

I. Collected Information

To ensure the normal product operation and help the service improvement, we will collect the information voluntarily provided by you or provided as authorized by you during registration and use or generated as a result of your use of services.

1. **User Registration Information:** At your first registration, the feature template (**Fingerprint template/Face template template/Palm template**) will be saved on the device according to the device type you have selected to verify the unique similarity between you and the User ID you have registered. You can optionally enter your Name and Code. The above information is necessary for you to use our products. If you do not provide such information, you cannot use some features of the product regularly.

2. **Product information:** According to the product model and your granted permission when you install and use our services, the related information of the product on which our services are used will be collected when the product is connected to the software, including the Product Model, Firmware Version Number, Product Serial Number, and Product Capacity Information. **When you connect your product to the software, please carefully read the privacy policy for the specific software.**

II. Product Security and Management

1. When you use our products for the first time, you shall set the Administrator privilege before performing specific operations. Otherwise, you will be frequently reminded to set the Administrator privilege when you enter the main menu interface. **If you still do not set the Administrator privilege after receiving the system prompt, you should be aware of the possible security risk (for example, the data may be manually modified).**

2. All the functions of displaying the biometric information are disabled in our products by default. You can choose Menu > System Settings to set whether to display the biometric information. If you enable these functions, we assume that you are aware of the personal privacy security risks specified in the privacy policy.
3. Only your user ID is displayed by default. You can set whether to display other user verification information (such as Name, Department, Photo, etc.) under the Administrator privilege. **If you choose to display such information, we assume that you are aware of the potential security risks (for example, your photo will be displayed on the device interface).**
4. The camera function is disabled in our products by default. If you want to enable this function to take pictures of yourself for attendance recording or take pictures of strangers for access control, the product will enable the prompt tone of the camera. **Once you enable this function, we assume that you are aware of the potential security risks.**
5. All the data collected by our products is encrypted using the AES 256 algorithm. All the data uploaded by the Administrator to our products are automatically encrypted using the AES 256 algorithm and stored securely. If the Administrator downloads data from our products, we assume that you need to process the data and you have known the potential security risk. In such a case, you shall take the responsibility for storing the data. You shall know that some data cannot be downloaded for sake of data security.
6. All the personal information in our products can be queried, modified, or deleted. If you no longer use our products, please clear your personal data.

III. How we handle personal information of minors

Our products, website and services are mainly designed for adults. Without consent of parents or guardians, minors shall not create their own account. If you are a minor, it is recommended that you ask your parents or guardian to read this Policy carefully, and only use our services or information provided by us with consent of your parents or guardian.

We will only use or disclose personal information of minors collected with their parents' or guardians' consent if and to the extent that such use or disclosure is permitted by law or we have obtained their parents' or guardians' explicit consent, and such use or disclosure is for the purpose of protecting minors.

Upon noticing that we have collected personal information of minors without the prior consent from verifiable parents, we will delete such information as soon as possible.

IV. Others

You can visit https://www.zkteco.com/cn/index/Index/privacy_protection.html to learn more about how we collect, use, and securely store your personal information. To keep pace with the rapid development of technology, adjustment of business operations, and to cope with customer needs, we will constantly deliberate and optimize our privacy protection measures and policies. Welcome to visit our official website at any time to learn our latest privacy policy.

Eco-friendly Operation

The product's "eco-friendly operational period" refers to the time during which this product will not discharge any toxic or hazardous substances when used in accordance with the prerequisites in this manual.

The eco-friendly operational period specified for this product does not include batteries or other components that are easily worn down and must be periodically replaced. The battery's eco-friendly operational period is 5 years.

Hazardous or Toxic substances and their quantities

Component Name	Hazardous/Toxic Substance/Element					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr6+)	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Chip Resistor	×	○	○	○	○	○
Chip Capacitor	×	○	○	○	○	○
Chip Inductor	×	○	○	○	○	○
Diode	×	○	○	○	○	○
ESD component	×	○	○	○	○	○
Buzzer	×	○	○	○	○	○
Adapter	×	○	○	○	○	○
Screws	○	○	○	×	○	○

This table is prepared in accordance with the provisions of SJ/T 11364.

○ indicates that the total amount of toxic content in all the homogeneous materials is below the limit as specified in GB/T 26572.

× indicates that the total amount of toxic content in all the homogeneous materials exceeds the limit as specified in GB/T 26572.

Note: 80% of this product's components are manufactured using non-toxic and eco-friendly materials. The components which contain toxins or harmful elements are included due to the current economic or technical limitations which prevent their replacement with non-toxic materials or elements.

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