

# User Manual

## SenseFP M1

Date: April 2025

Doc Version: 1.0

English

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



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

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

## ZKTeco Headquarters

**Address** ZKTeco Industrial Park, No. 32, Industrial Road,  
Tangxia Town, Dongguan, China.

**Phone** +86 769 - 82109991

**Fax** +86 755 - 89602394

For business related queries, please write to us at: [sales@zkteco.com](mailto:sales@zkteco.com).

To know more about our global branches, visit [www.zkteco.com](http://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-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 **SenseFP M1**.

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 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.
11. 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 Standby Interface

1. When the device is connected to the power supply and the device is used for the first time, it enters the Wi-Fi setting shortcut screen as shown below:



2. After connecting to Wi-Fi, it will enter the QR code scanning interface, as shown in the figure below.








3. After successfully binding the device, the standby screen will be displayed as shown below.



**Notes:**

- 1) This device needs to be used in combination with **ZKBio Zlink software** and **ZKBio Zlink App**. After binding the device, you can unify the management of the device.
- 2) For details on how to bind the device, see [3 Binding the Device](#).

**Status Icons**

Status Icon	Name	Description
	USB	The device is plugged into a USB flash drive.
	ADMS Server	The connection between device and ADMS server is successful.
		The connection between device and ADMS server is failed.
	Wi-Fi Signal	The Wi-Fi connection is normal.
		The Wi-Fi connection fails.

## 1.2 Verification Modes

In the device, there are three verification modes, namely:

- Fingerprint verification
- Card Number verification
- Password verification

These verification modes can be used for check-in and check-out punches.

### 1.2.1 Fingerprint Verification

#### ● Finger Enrolment

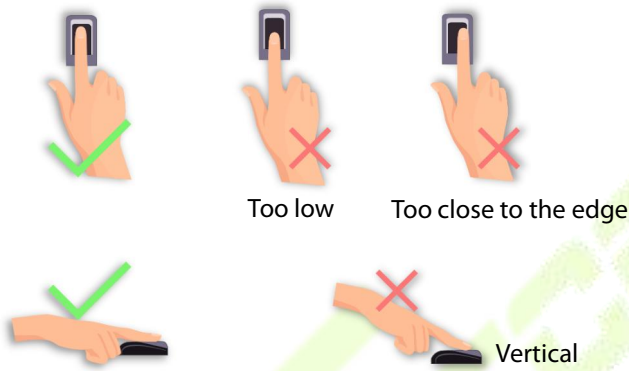
Finger Enrolment procedure involves capturing a user's fingerprint and saving it as a template to the corresponding User ID. To enhance the fingerprint authentication rate, make sure that you enrol the finger correctly.

#### ● Finger Selection for Enrolment

- ◇ It is recommended to use the index finger or middle finger to enrol your fingerprint.
- ◇ If the fingerprints on your selected hand are worn or damaged, try to use the other hand.
- ◇ If the fingers are small, try enrolling with the thumb finger.

#### ● Enrolment Operation

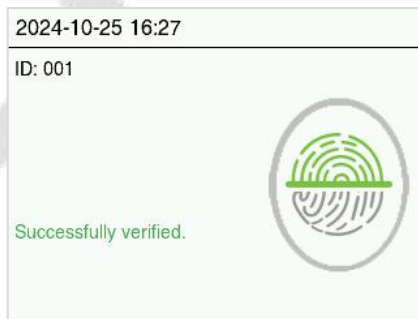
- ◇ Place the finger flat and centered on the sensor surface.
- ◇ The score for each enrolment will be displayed. Make sure that the score is high enough for proper enrolment and authentication.
- ◇ Place the finger consecutively until the success message appears. An illustration is given below:



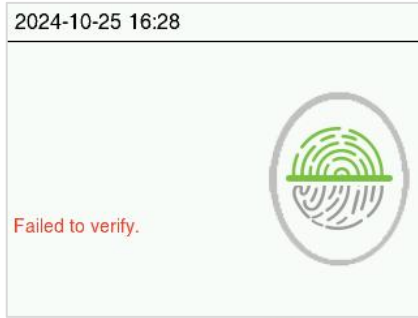
● **1: N Fingerprint Verification Mode**

The device compares the current fingerprint collected by the fingerprint sensor with all the fingerprints on the device. Press your finger properly on the fingerprint sensor. If the fingerprint matches with the saved template, the verification is successful.

If the verification is successful, the success message will be displayed as shown below:



If the verification failed, the message will be displayed as shown below:



If the device instructs "**Failed to verify**" then press your finger again. You can attempt verification 2 more times. If the verification fails after these attempts, then the device will return to the standby interface.

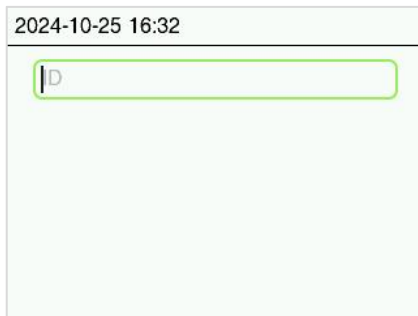
- **1: 1 Fingerprint Verification Mode**


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

Press the number keys on the device keypad to enter 1:1 fingerprint verification mode.

1. Input the user ID and press **M/OK**.

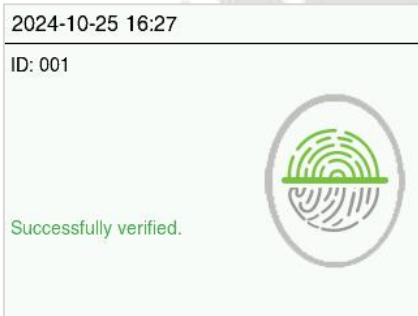


- 2. If the user has registered card and password in addition to his/her fingerprints and the verification method is set to Fingerprint/Card template verification, the following screen will appear. Select the fingerprint icon to  enter fingerprint verification mode.

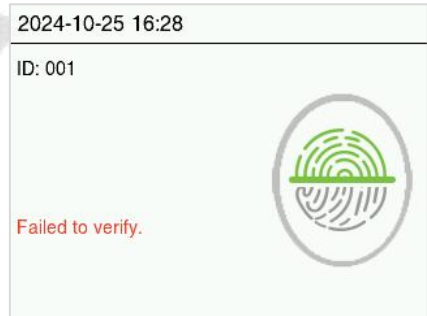


- 3. Press the fingerprint to verify.

Verification is successful:



Verification is failed:



### 1.2.2 Card Number verification

- **1: N Card Verification Mode**

The device compares the card number in the card induction area with all the card number data registered in the device. The following is the card verification

screen.



If the verification failed, the message will be displayed as shown below:

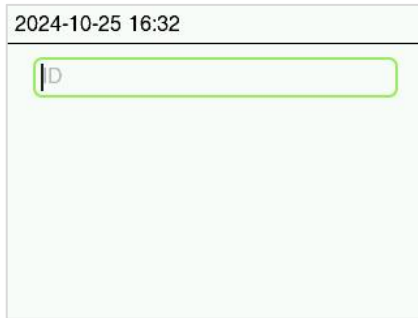



### ● **1:1 Card Verification Mode**

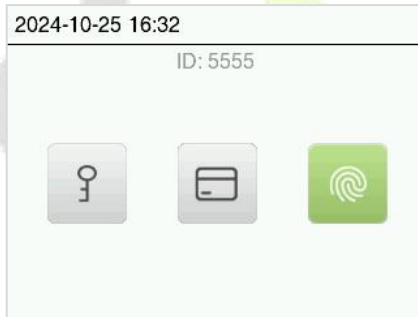
The 1:1 card verification mode compares the card number in the card induction area with the number associated with the employee's User ID registered in the device.

Press the number keys on the device keypad to enter 1:1 card verification mode.

- 1.** Input the user ID and press **M/OK**.



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



3. Place the card in the collection area for verification.

Verification is successful:


Verification is failed:

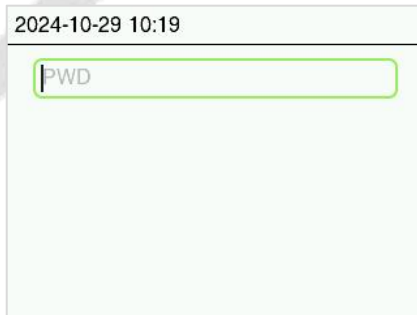


### 1.2.3 Password verification

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

Press the number keys on the device keypad to enter 1:1 password verification mode. Then, input the user ID and press **M/OK**.

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



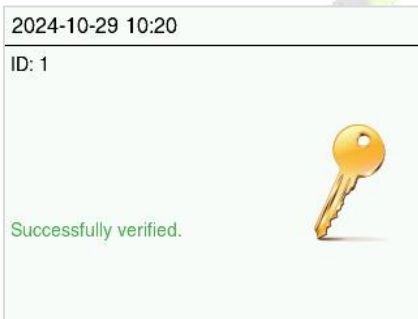
Input the password and press **M/OK**.



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

Verification is successful:

Verification is failed:

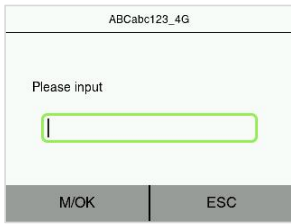


### 1.3 Text Input Operation

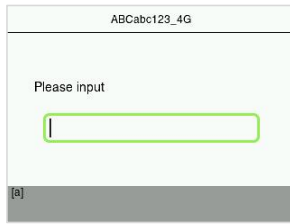
The device can recognize English letters, symbols, and numbers. Press > to display the input method and press > again to switch the input method. Press the ^ / v key to scroll up and down. Press < to delete the entry. Press **ESC** to exit the input method.

Description of entry of English letters and symbols.

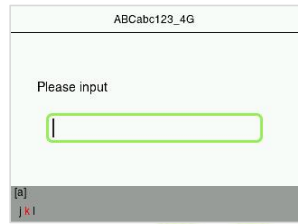
For example, enter the password: key@M1



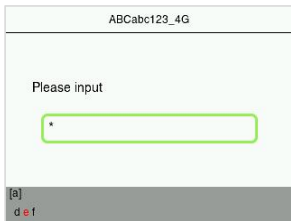
Press **>** to display the input method.



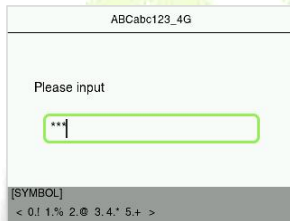
Press **>** again to switch the input method. Select **Aa**, **a**, or **A** for using uppercase and lowercase letters based on requirements.



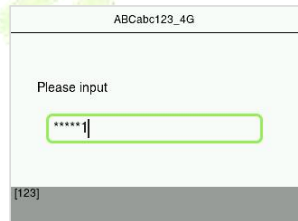
Press **5JKL** twice to select **k**.



Press **3DEF** twice to select **e**. Finish the text input in the same way.



Press **>** to switch to the symbol input method and press **2ABC**. Select **@**.



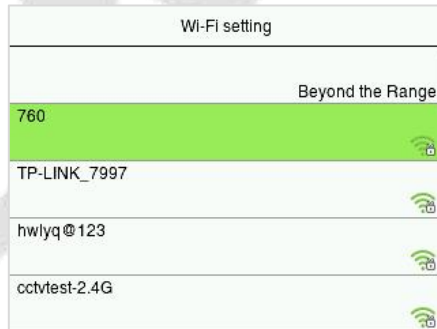
Press **>** to switch to the numeric input method, then press **1**. When finished, press **ESC** to exit. Then press **M/OK** to save and exit.

## 1.4 Wi-Fi Connection

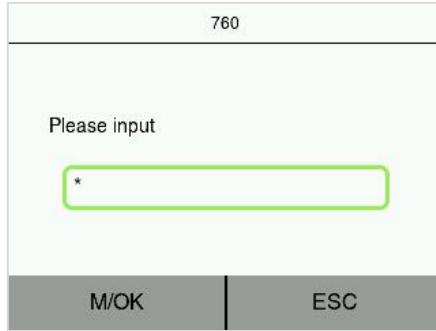
**Situation 1:** After powering up the device, it enters the Wi-Fi setting shortcut interface, refer to the following steps to connect to Wi-Fi.




1. Pressing **M/OK** in this shortcut interface will directly enter the Wi-Fi setting interface. The device will search for available Wi-Fi within the network range.



2. Select the available Wi-Fi from the list, you will enter the password interface, enter the password and press **M/OK** to connect.



- 3. After successful Wi-Fi connection, you will enter the QR code scanning interface. Meanwhile, the Wi-Fi  logo will be displayed on the status bar.

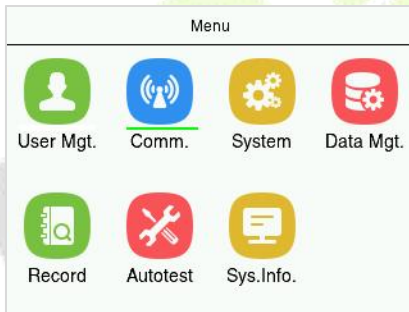


**Note:** If you are using the device for the first time or the device is not bound, after setting up Wi-Fi, the Wi-Fi shortcut interface will go directly to the QR code scanning interface. In this interface, you can bind the device by scanning the device QR code, please refer to [3 Binding the Device](#).

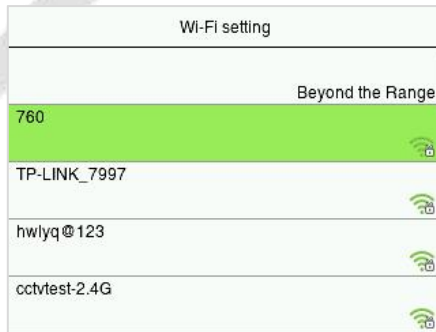
**Situation 2:** If you have bound the device and entered the **Welcome screen**, refer to the following steps to connect to the Wi-Fi.



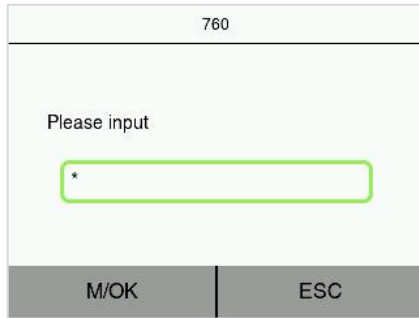
1. Press **M/OK** to access the **Main Menu** if you have bound the device and are in the standby screen.




2. Then click **Comm.** > **Wi-Fi setting** to enter the Wi-Fi setting interface. And the device will search for available Wi-Fi within the network range.



3. Select the available Wi-Fi from the list, you will enter the password interface, enter the password and press **M/OK** to connect.



- 4. After the Wi-Fi connection is successful, the Wi-Fi  logo will be displayed on the status bar.



## 2 Binding the Device

When using the device for the first time, the QR code of the device will be displayed after connecting to power and connecting to Wi-Fi. After the user binds the device successfully, this QR code interface will no longer be displayed unless the device is unbound. This section describes how to bind the device on the ZKBio Zlink Mobile App or on the Web.



### 2.1 Binding Devices via the ZKBio Zlink App

- **Download the ZKBio Zlink App**

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



Apple App Store

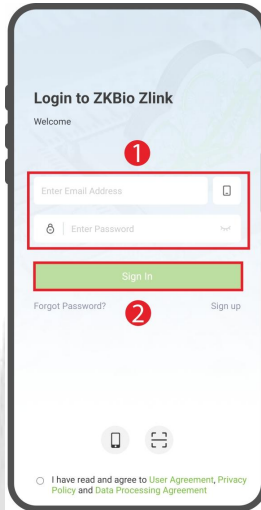


Google Play Store




### 2.1.1 Login to the 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 App.



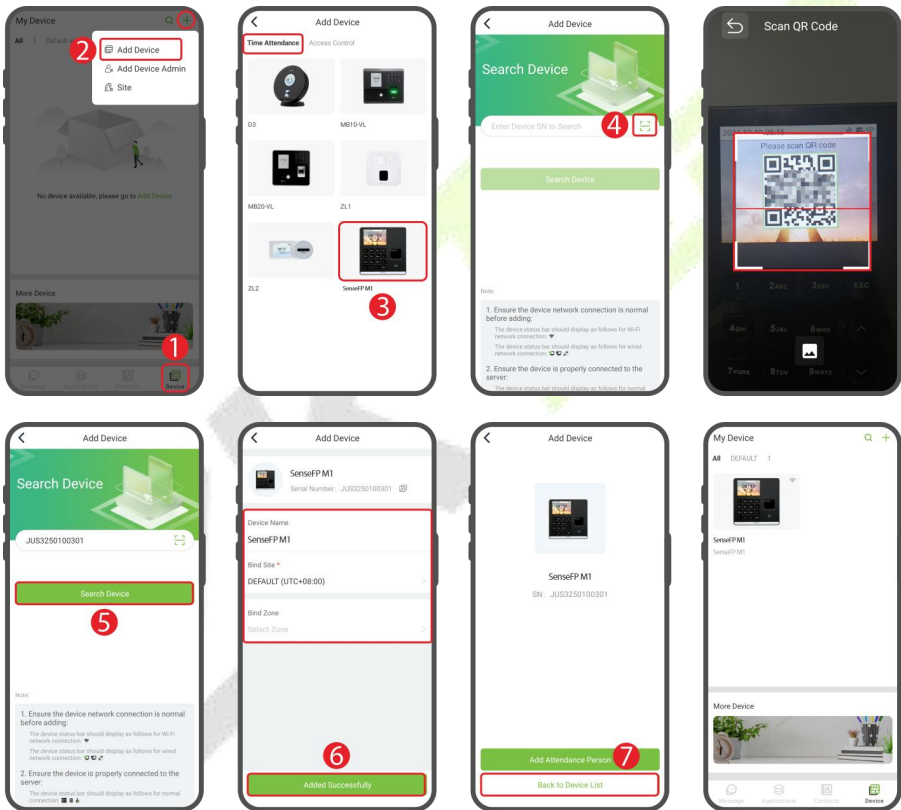
**Note:** For more operations, refer to the ZKBio Zlink App's user manual.

### 2.1.2 Add Device on the App

1. Access the ZKBio Zlink App and click on [**Device**] to enter the My Device interface.
2. Then click + icon in the upper right corner and click [**Add Device**].
3. Click [**Time Attendance**] > [**SenseFP M1**] to enter the Add Device interface.
4. Click  icon to scan the QR code on the device. The serial number of the device will be displayed in the bar.
5. Then click [**Search Device**] to search the device.
6. 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.

- Once successfully added, the device is displayed in the list of the device interface. Click [**Back to Device List**] to view.



### **Notes:**

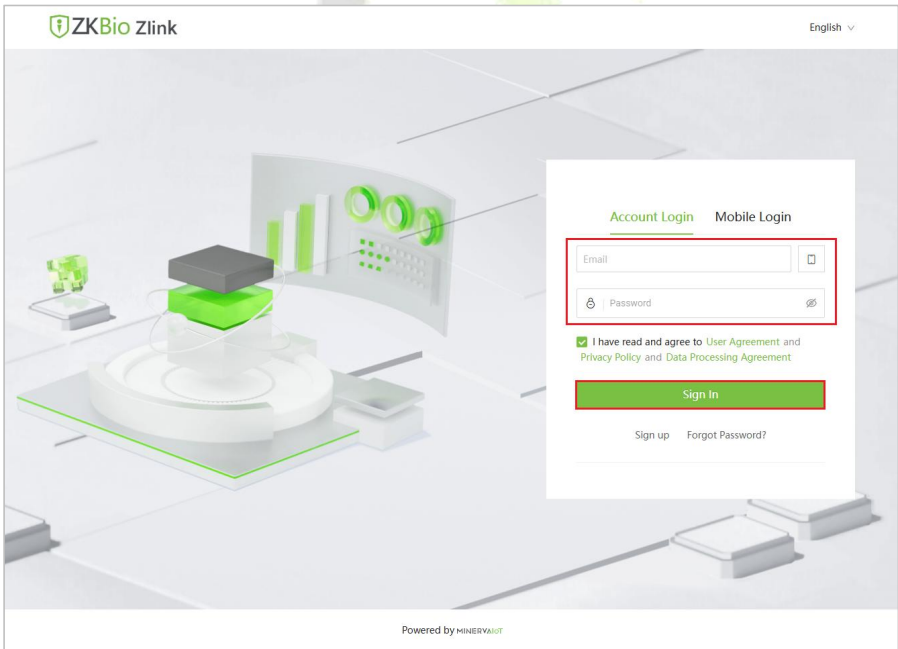
- The serial number can be viewed on the serial number sticker on the back case of the unit.
- Or click the **M/OK** button on the keyboard to enter the Main Menu, click [**Sys. Info.**] > [**Device Info**] > [**Serial No.**] to check the serial number.

## 2.2 Binding Device via the ZKBio Zlink Web


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

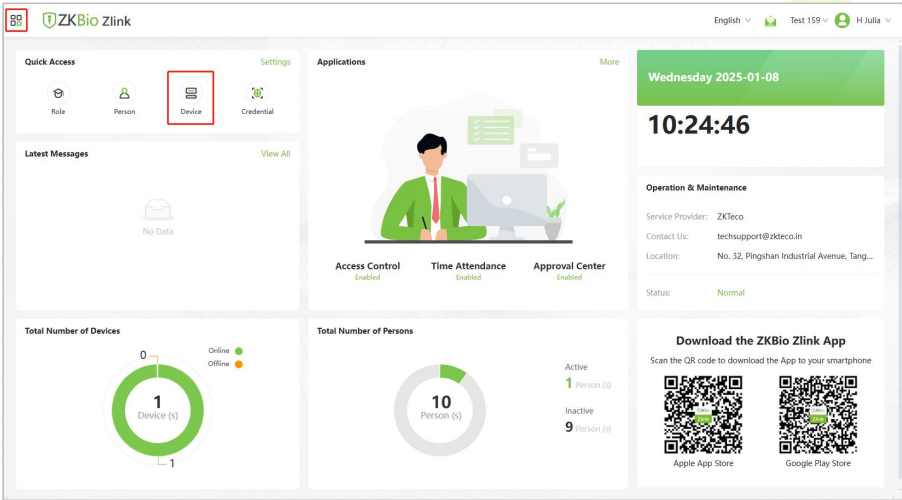
### 2.2.1 Login to the Web

1. Please open the recommended browser and enter the address to access the ZKBio Zlink Web: <http://zlink.minervaiot.com>.
2. Enter your Email ID and password on the login screen and click **[Sign In]** to login.

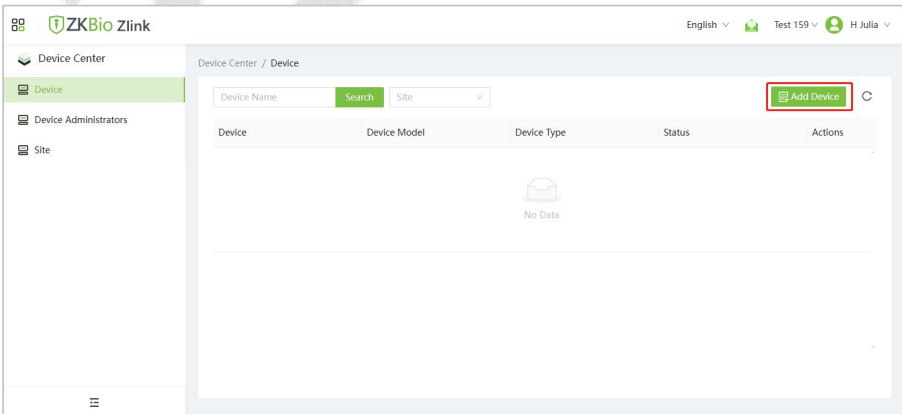


### 2.2.2 Add Device on the Web

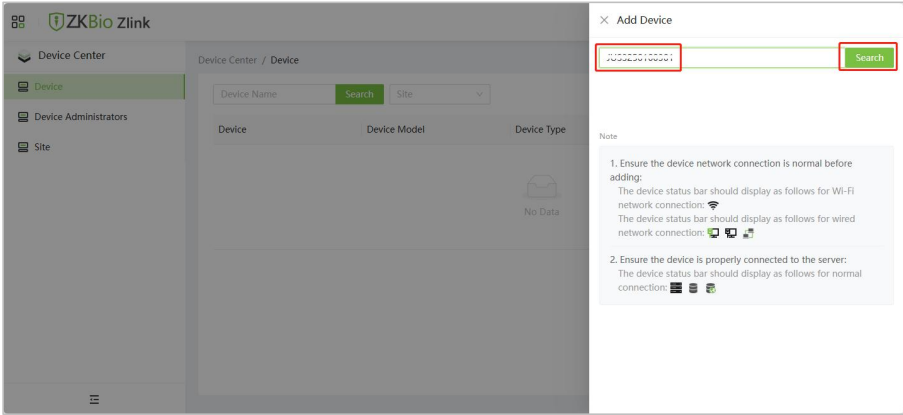
1. Click the  icon on the top left corner, and click **[Device Center]** > **[Device]** to enter the device setting interface. Or click **[Device]** in column Quick Access on the home page to enter the device setting interface.



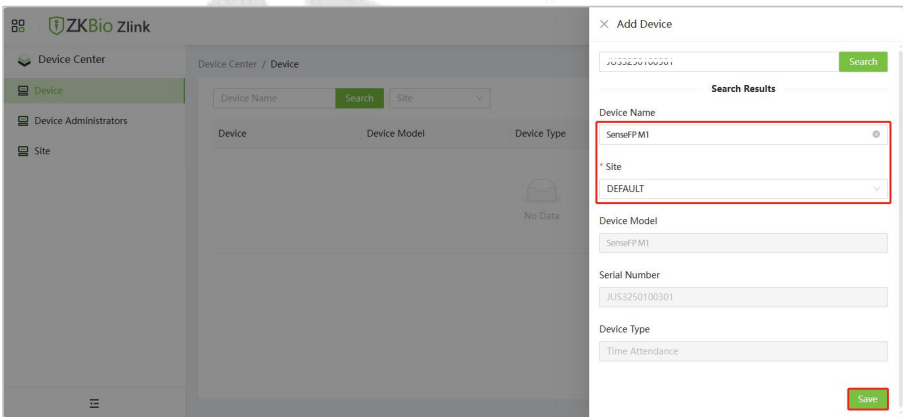
2. Then click **[Add Device]** to enter the Add Device interface.



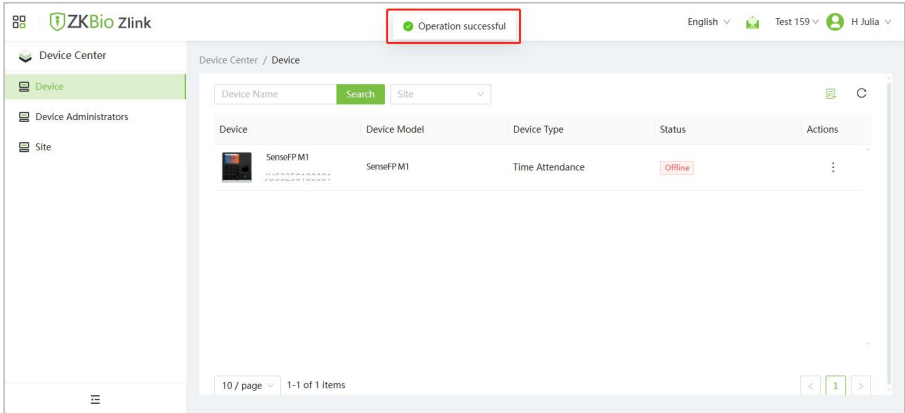
3. Enter the Serial Number and click **[Search]**.



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. If the device is successfully added, it will be displayed in the device list of the device management interface (Note that there is a short delay in the device, wait a few moments or refresh the device status from 'Offline' to 'Online' status).



### 3 Main Menu

After binding the device, press the **M/OK** key on the keyboard to enter the Main Menu, the following screen will be displayed:



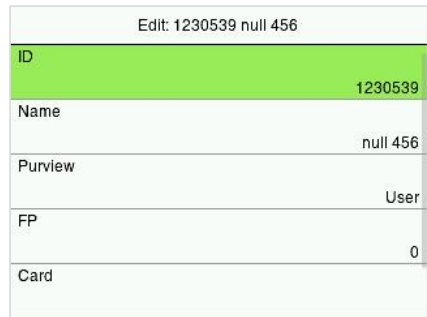
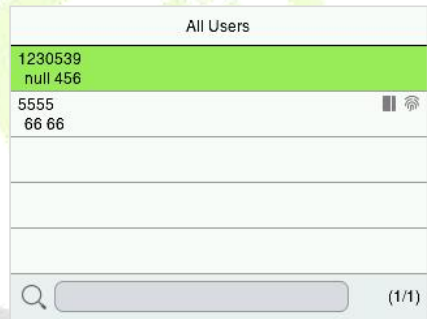
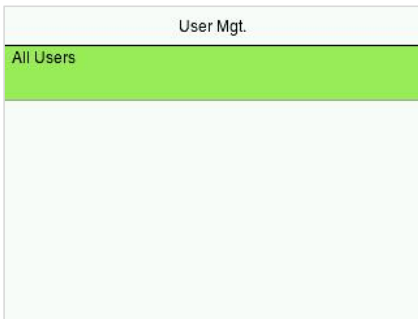
#### **Function Description:**

Menu	Descriptions
<b>User Mgt.</b>	View basic information about the user.
<b>Comm.</b>	To set the relevant parameters of wireless network and cloud server.
<b>System</b>	To set the parameters related to the system, including date time, attendance setting, fingerprint parameters, voice setting, auto switch setting, security setting, USB upgrade, update firmware online and reset to factory.
<b>Data Mgt.</b>	To delete all relevant data in the device.
<b>Record</b>	To query the specified event logs, attendance record..
<b>Autotest</b>	To automatically test whether each module functions properly, including the LCD screen, audio, keyboard, fingerprint sensor and real-time clock.
<b>System Info</b>	To view data capacity, device and firmware information and privacy policy of the device.

## 4 User Management

### 4.1 Search for Users

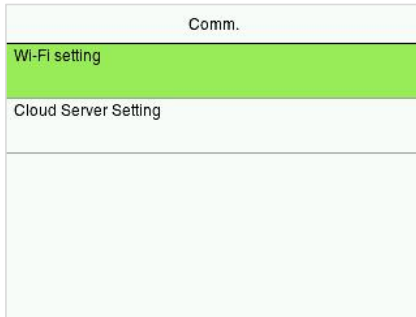
When the device is on the initial interface, press **M/OK** button > [**User Mgt.**] > [**All User**] to enter All User interface. Input "User ID" in the search box provided to view the corresponding user.



**Note:** Only basic information of all users can be viewed here, for editing, you need to operate on ZKBio Zlink APP or ZKBio Zlink Web.

## 5 Communication Settings

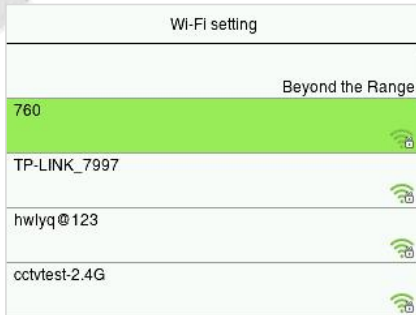
Select **Comm.** on the **Main Menu** to set the relevant parameters of Wireless Network and Cloud Server.



### 5.1 Wireless Network

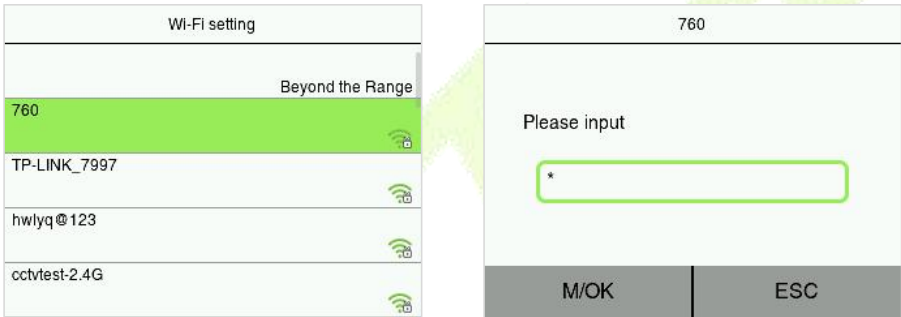
This device provides a built-in Wi-Fi module. The Wi-Fi module enables data transmission via Wi-Fi (Wireless Fidelity) and establishes a wireless network environment.

When the device is on the initial interface, press **M/OK** button > [**Comm.**] > [**Wi-Fi setting**] to configure the Wi-Fi settings.



### ● **Search the Wi-Fi Network**

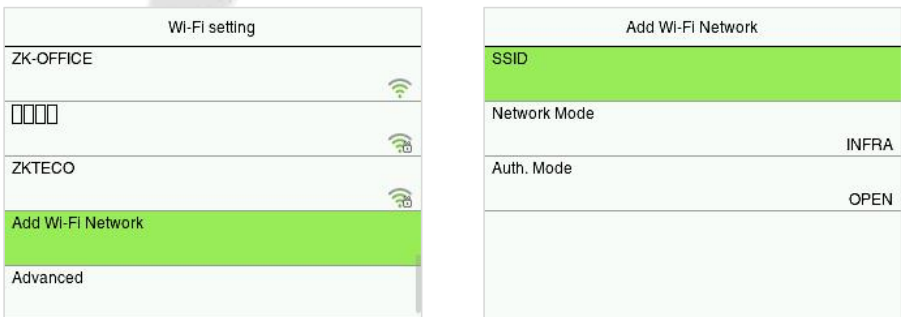
- ◇ Wi-Fi is enabled in the Device by default.
- ◇ Once enter the **Wi-Fi setting** interface, the device will search for the available Wi-Fi within the network range.
- ◇ Choose the appropriate Wi-Fi name from the available list, and input the correct password in the password interface, and then press **M/OK** to connect.



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

### ● **Add Wi-Fi Network Manually**

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



1. Add Wi-Fi manually by pressing the up and down arrow keys to select **Add Wi-Fi Network**.
2. On this interface template, enter the Wi-Fi network parameters. (The added network must exist.)

**Note:** After successfully adding the Wi-Fi manually, follow the same process to search for the added Wi-Fi name.

### ● **Advanced Setting**

Wi-Fi setting	Ethernet
Connect3	DHCP <input checked="" type="checkbox"/>
a123123	IP Address 192.168.138.88
IoT-Connect	Subnetmask 255.255.255.0
Add Wi-Fi Network	GateWay 192.168.138.22
Advanced	DNS 192.168.138.22

### **Function Description:**

Menu	Descriptions
<b>DHCP</b>	Dynamic Host Configuration Protocol (DHCP) dynamically allocates IP addresses to network clients. If the DHCP is enabled, then the IP cannot be set manually.
<b>IP Address</b>	IP address for the Wi-Fi network, the default is 0.0.0.0. It can be modified according to the network availability.
<b>Subnet Mask</b>	The default Subnet Mask of the Wi-Fi network is 255.255.255.0. It can be modified according to the network availability.
<b>Gateway</b>	The default Gateway address is 0.0.0.0. Can be modified according to the network availability.
<b>DNS</b>	The default DNS address is 0.0.0.0. It can be modified according to the network availability.

## 5.2 Cloud Server Setting

When the device is on the initial interface, press **M/OK** button > [**Comm.**] > [**Cloud Server Setting**] to view the cloud server address.



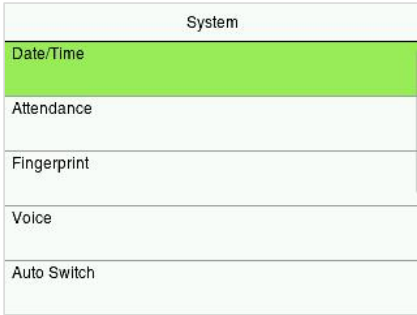
### **Function Description:**

Menu	Descriptions
<b>Server Address</b>	The default is: <a href="https://dc.minervalot.com">https://dc.minervalot.com</a>

## 6 System Settings

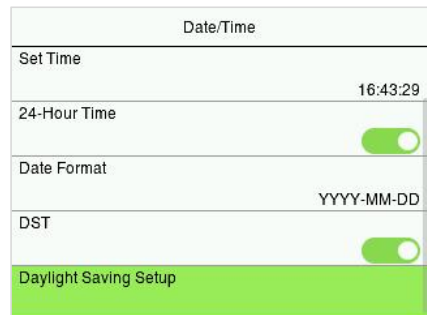
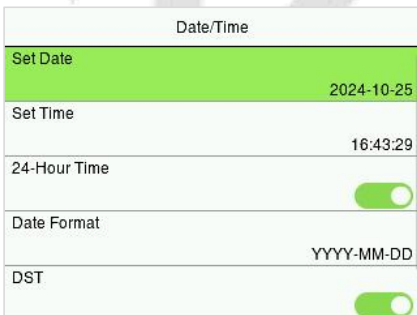
Set related system parameters to optimize the performance of the device.

When the device is on the initial interface, press **M/OK** button > [**System**] to set the related system parameters to optimize the performance of the device.



### 6.1 Date and Time



Press **M/OK** button > [**System**] > [**Date/Time**] to set the date and time.



- ✦ If users need to set the date and time manually, select Set Data and Set Time to set the date and time, then press **M/OK** to save.

Set Date		
2024-10-25		
↑ 2024 ↓	↑ 10 ↓	↑ 25 ↓
YYYY	MM	DD
M/OK		ESC

Set Time		
16:46:48		
↑ 16 ↓	↑ 46 ↓	↑ 48 ↓
HH	MM	SS
M/OK		ESC

- ✦ Press **M/OK** to control the  icon for **24-Hour Time** to enable or disable this format. If enabled, then select the Date Format to set the date format.
- ✦ Press **M/OK** to control the  icon for **DST** to enable or disable the Daylight Saving Time function. If enabled, press **Daylight Saving Setup** to set the switch time.

DST	
Start Date	01-00
Start Time	00:00
End Date	01-00
End Time	00:00

Start Date	
01-09	
↑ 01 ↓	↑ 9 ↓
MM	DD
M/OK	
ESC	

- ✦ 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, 2023) to 18:30 on January 1, 2024. After restoring the factory settings, the time of the equipment will remain 18:30 on January 1, 2024.

## 6.2 Attendance Settings

When the device is on the initial interface, press **M/OK** button > [**System**] > [**Attendance**] to enter the attendance setting interface.

Attendance	
Duplicate Punch Period(m)	None
Alphanumeric User ID	<input checked="" type="checkbox"/>
Log Alert	Disable
Authentication Timeout(s)	3
Menu Screen Timeout(s)	60

### Function Description:

Menu	Description
<b>Duplicate Punch Period(m)</b>	Within a set time period (unit: minutes), the duplicated attendance record will not be reserved (value ranges from 1 to 999999 minutes).
<b>Alphanumeric User ID</b>	Decides whether to support letters in a User ID.
<b>Log Alert</b>	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.
<b>Authentication Timeout(s)</b>	The time length of the message of successful verification displays. Valid value: 1~9 seconds.

<b>Menu Screen Timeout(s)</b>	Used to set the delay time for exiting from the menu screen to the standby screen. Users may disable the function or set a valid value between 60 and 99999. To disable this function, set the value to 0.
-------------------------------	---

## 6.3 Fingerprint Parameters

When the device is on the initial interface, press **M/OK** button > [**System**] > [**Fingerprint**] to enter the fingerprint setting interface.

Fingerprint	
1:1 Threshold Value	30
1:N Threshold Value	35
Sensitivity	Low
1:1 Retry Attempts	3
Fingerprint Image	None

### **Function Description:**

Menu	Descriptions
<b>1:1 Threshold Value</b>	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.
<b>1:N Threshold Value</b>	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.

<b>Sensitivity</b>	To set the sensibility of fingerprint acquisition. It is recommended to use the default level " <b>Mid(Medium)</b> ". When the environment is dry, resulting in slow fingerprint detection, you can set the level to " <b>High</b> " to raise the sensibility; when the environment is humid, making it hard to identify the fingerprint, you can set the level to " <b>Low</b> ".
<b>1:1 Retry Attempts</b>	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.
<b>Fingerprint Image</b>	<p>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:</p> <p><b>Show for enroll:</b> to display the fingerprint image on the screen only during enrollment.</p> <p><b>Show for match:</b> to display the fingerprint image on the screen only during verification.</p> <p><b>Always show:</b> to display the fingerprint image on screen during enrollment and verification.</p> <p><b>None:</b> not to display the fingerprint image.</p>

## 6.4 Voice Settings

When the device is on the initial interface, press **M/OK** button > [**System**] > [**Voice**] to configure the voice settings.



**Function Description:**

Menu	Descriptions
<b>Voice Prompt</b>	Toggle to enable or disable the voice prompts during function operations.
<b>Key Voice</b>	Toggle to enable or disable the keypad sounds.
<b>Volume</b>	Adjust the volume of the device which can be set between 0 to 100.

## 6.5 Auto Switch Settings

When the device is on the initial interface, press **M/OK** button > [**System**] > [**Auto Switch**] to enter the setting interface.

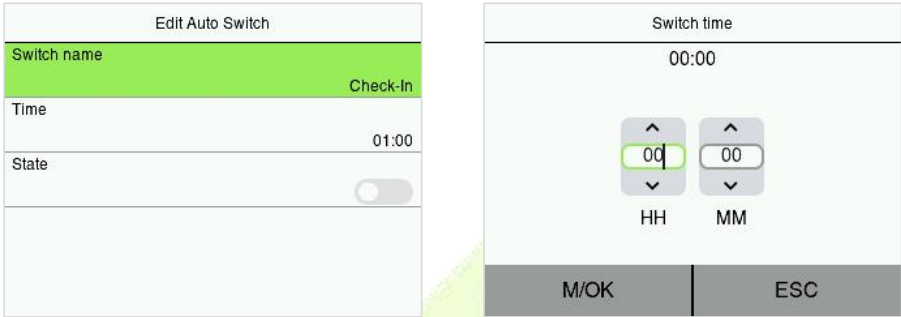
Auto Switch			
ID	Time	Name	State
1	01:00	Check-In	✘
2	02:00	Check-Out	✘
3	03:00	Break-Out	✘
4	04:00	Break-In	✘
5	05:00	OT-In	✘

(1/5)

Auto Switch			
ID	Time	Name	State
6	06:00	OT-Out	✘
7	00:00		✘
8	00:00		✘
9	00:00		✘
10	00:00		✘

(2/5)

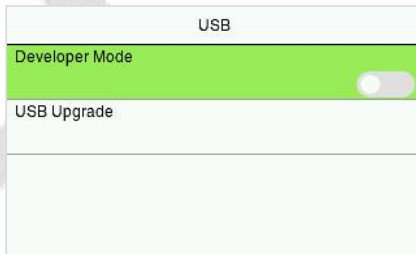
By turning on the auto switch, and setting the switch time. Then within the set time, the standby interface template will automatically display the punch status.



## 6.6 USB Settings

When the device is on the initial interface, press **M/OK** button > [**System**] > [**USB**] to enter the USB setting interface.

**Note:** Only FAT32 format is supported when upgrading firmware using USB disk.



### Function Description:

Menu	Descriptions
<b>Developer Mode</b>	When turned on, the device enters developer mode, at which time the USB upgrade function is disabled.

<b>USB Upgrade</b>	Upgrade firmware via USB drive. <b>Note:</b> This menu item will not be displayed when Developer Mode is turned on.
--------------------	--

## ● **USB Upgrade**

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. Then select [**USB Upgrade**] and click **M/OK** to upgrade.

If no USB drive is inserted in, the system gives the prompt "**PenDrive not found**" after you tap USB Upgrade on the System interface.



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

## 6.7 **Update Firmware Online**

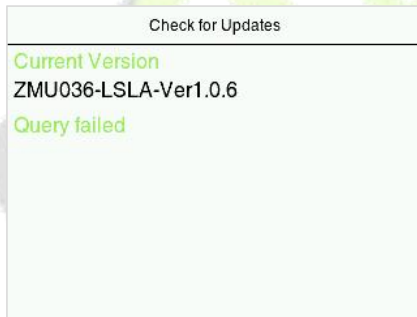
When the device is on the initial interface, press **M/OK** button > [**System**] > [**Update**] to enter the setting interface.

Press **M/OK** button to turn on the **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).



Select [**Check for Updates**] it may have the following 3 scenarios:

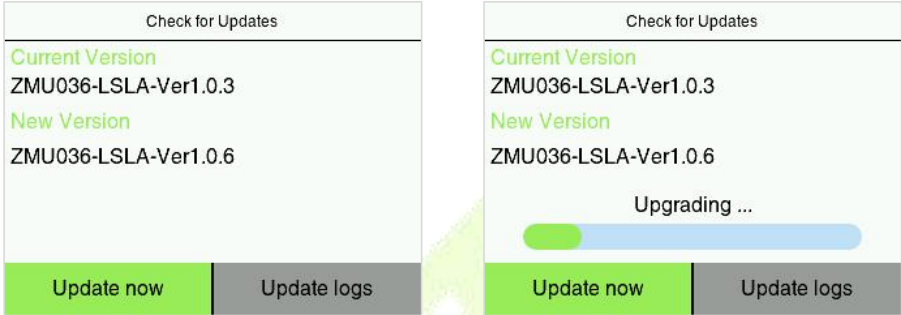
- ✧ If the query fails, the interface will prompt "**Query failed**".



- ✧ 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.



## 6.8 Factory Reset

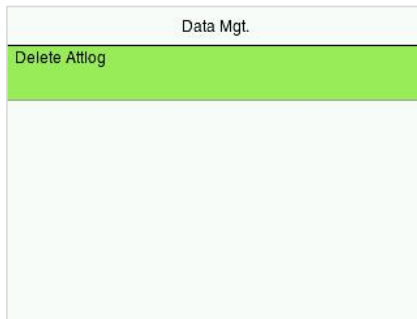
The Factory Reset function restores the device settings such as communication settings and system settings, to the default factory settings (This function does not clear registered user data).

Select [**Reset Opts.**] on the System interface and then press **M/OK** to restore the default factory settings.



## 7 Data Management

When the device is on the initial interface, press **M/OK** button > [**Data Mgt.**] > [**Delete Attlog**] to delete the specified Attendance log.



Select [**Delete Attlog**] in the data management interface, and in the pop-up confirmation interface, click **M/OK** to delete all attendance records.



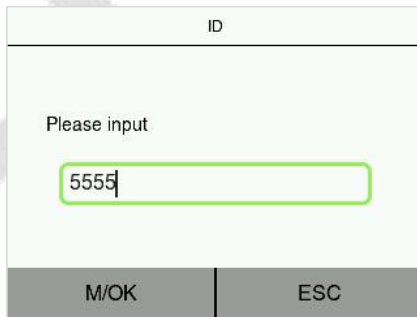
## 8 Record

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

When the device is on the initial interface, press **M/OK** button > **[Record]** to search for the required Attendance log.



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



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

Start Time

2024-10-25 00:00

↑ 2024 ↓	↑ 10 ↓	↑ 25 ↓	↑ 00 ↓	↑ 00 ↓
YYYY	MM	DD	HH	MM

M/OK      ESC

End Time

2024-10-25 23:59

↑ 2024 ↓	↑ 10 ↓	↑ 25 ↓	↑ 23 ↓	↑ 59 ↓
YYYY	MM	DD	HH	MM

M/OK      ESC

- Once the log search succeeds. Select the login highlighted in green to view its details.

Record	
Date	Sum
2024-10-25	5

ID: 5555 (1/1)  
Name: 66 66

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

Record		
Time	VerType	State
10-25 16:56	Card	None
10-25 16:55	Card	None
10-25 16:33	FP	None
10-25 16:33	Card	None
10-25 16:32	FP	None

ID: 5555 (1/1)  
Name: 66 66

## 9 Autotest

When the device is on the initial interface, press **M/OK** button > **[Autotest]** to automatically test whether all modules in the device function properly, which include the LCD, Voice, keyboard and Real-Time Clock (RTC).

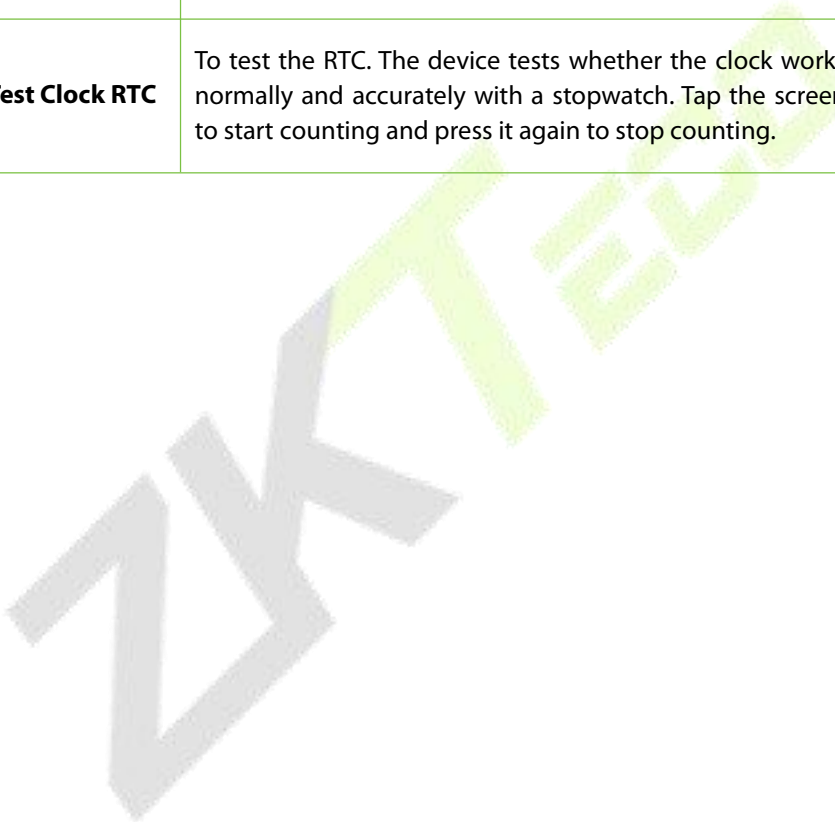
Autotest
Test All
Test LCD
Test Voice
Test Keyboard
Test Fingerprint Sensor

Autotest
Test LCD
Test Voice
Test Keyboard
Test Fingerprint Sensor
Test Clock RTC

### **Function Description:**

Menu	Descriptions
<b>Test All</b>	To automatically test whether the LCD, Audio, Camera and RTC are normal.
<b>Test LCD</b>	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.
<b>Test Voice</b>	To automatically test whether the audio files stored in the device are complete and the voice quality is good.
<b>Test Keyboard</b>	The terminal tests whether every key on the keyboard works normally. Press any key on the Keyboard Test interface to check whether the pressed key matches the key displayed on screen. The keys are dark-gray being before pressed, and turn blue after pressed.

<b>Test Fingerprint Sensor</b>	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.
<b>Test Clock RTC</b>	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.



## 10 System Information

When the device is on the initial interface, press **M/OK** button > [**Sys. Info.**] to view the storage status, the version information of the device, firmware information and privacy policy.

Sys.Info.
Device Capacity
Device Info
Firmware Info
Privacy Policy

### **Function Description:**

Function Name	Description
<b>Device Capacity</b>	It displays the number of registered users, administrators, passwords, fingerprints, card and attendance records.
<b>Device Info</b>	Displays the device's name, serial number, MAC address, fingerprint algorithm, platform information and vendor.
<b>Firmware Info</b>	Displays the firmware version of the device.
<b>Privacy Policy</b>	Displays the contents of the privacy policy.

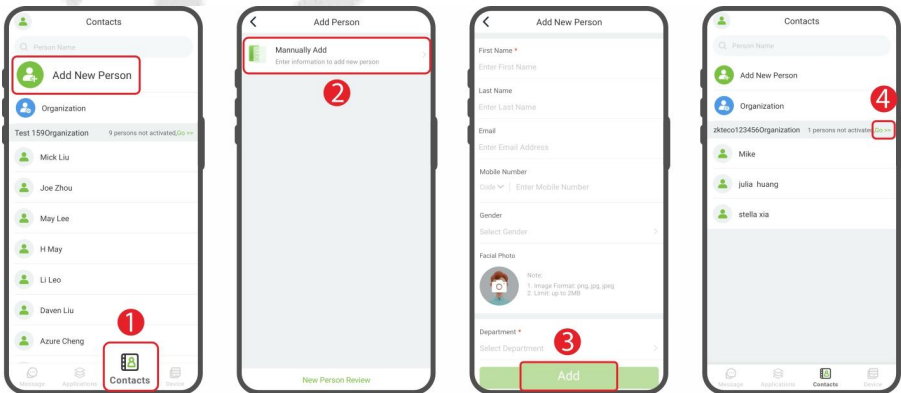
# 11 Operation on the ZKBio Zlink App

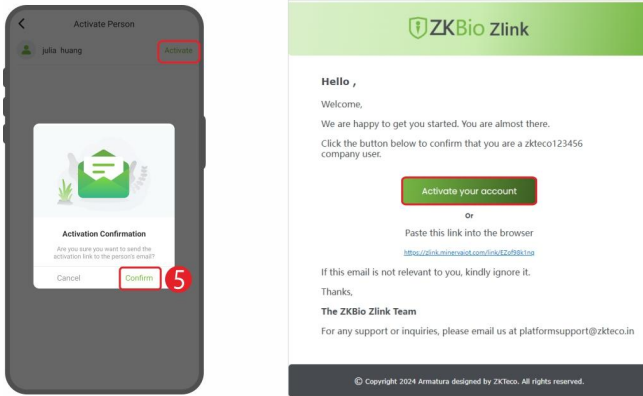
## 11.1 Add Person

1. Click **[Contacts]** > **[Add New Person]** to enter Add Person interface.
2. Then click **[Manually Add]** to enter the Add person profile interface.
3. After you have entered the personnel information, click **[Add]**. When the interface prompts “**Added successfully**”, it means the addition is successful. And the added personnel will be displayed in the personnel list.

**Note:** The Mobile Number or Email needs to be entered so that the person can receive the activation link.

4. The page displays the number of inactive persons. Click **[Go >>]** > **[Activate]** to send the activation link to the person.
5. Click **[Confirm]** to confirm and exit.
6. Then the person will receive an activation email. After the person activating the account, the person will be activated.





## 11.2 Manage and Add Person in Device

1. Click [**Device**] to enter the My Device list interface.
2. Then select the device in the list to enter the Device Details interface.
3. Click [**Attendance Person**] to enter the Attendance Person interface.
4. Click [**Add Person**] to enter the add person interface.
5. Select the persons and click [**Confirm**] to add them to the device.
6. Click [**Confirm**] in the pop-up confirmation window.
7. After completion, the personnel will be added to the attendance person list, and you can click [**Edit**] to edit and modify.




## 11.3 Register Verification Mode on the App

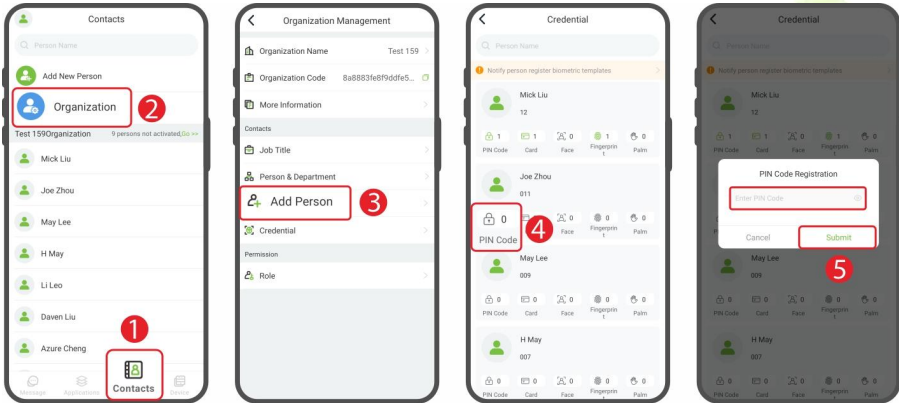
Once you have added people to the device, you can register Verification Modes to them. **Note:** It must be based on the features actually supported by the device.

### 11.3.1 Register Password


1. In the bottom menu of App, click [**Contacts**] > [**Organization**].
2. Click [**Add Person**] to enter the credential management interface.
3. In the credential management screen, select the personnel for whom you

want to register a password.

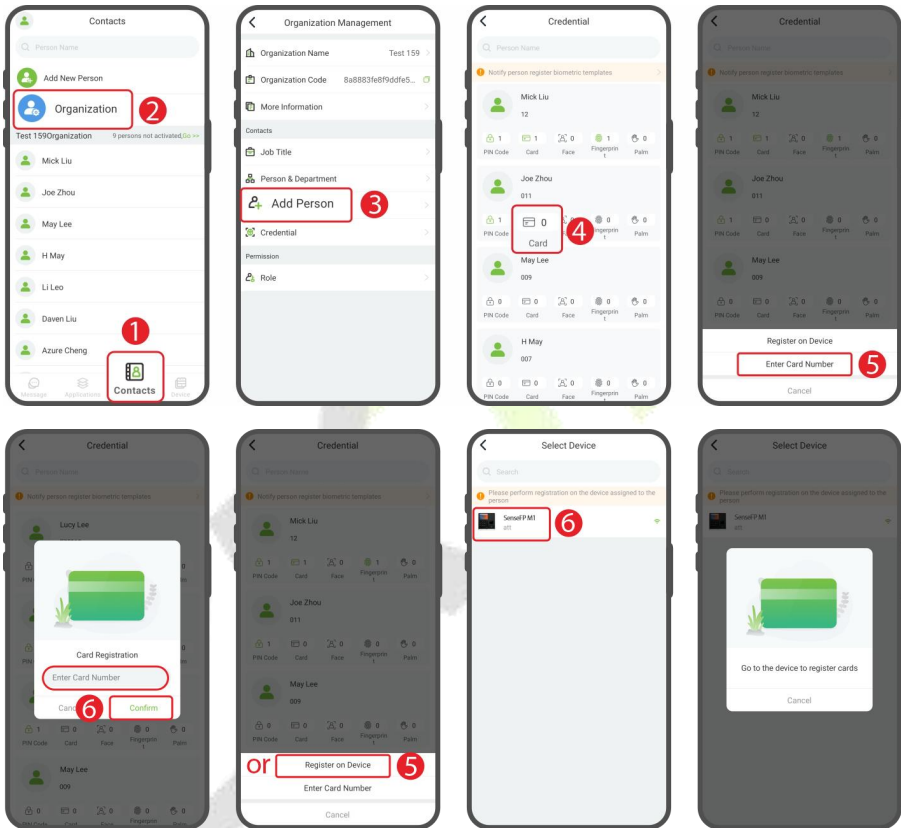
4. Then click on the  icon and enter the password in the pop-up window.
5. Click [**Submit**] to confirm.




### 11.3.2 Register Card

1. In the bottom menu of App, click [**Contacts**] > [**Organization**] > [**Credential**].
2. In the credential management screen, select the personnel for whom you want to register a card number.
3. Then click on the  icon. You can select Register on Device or Manually Enter Card Number.
4. If you select **Enter Card Number**, just enter your card number directly into the registration window that pops up and click [**Confirm**] to finish.
5. If you select **Register on Device**, you need to select the device first in the device list screen.
6. The interface will pop up a prompt, and at the same time the device will display the **Enroll Card Number** interface. Place the card in the swipe area,

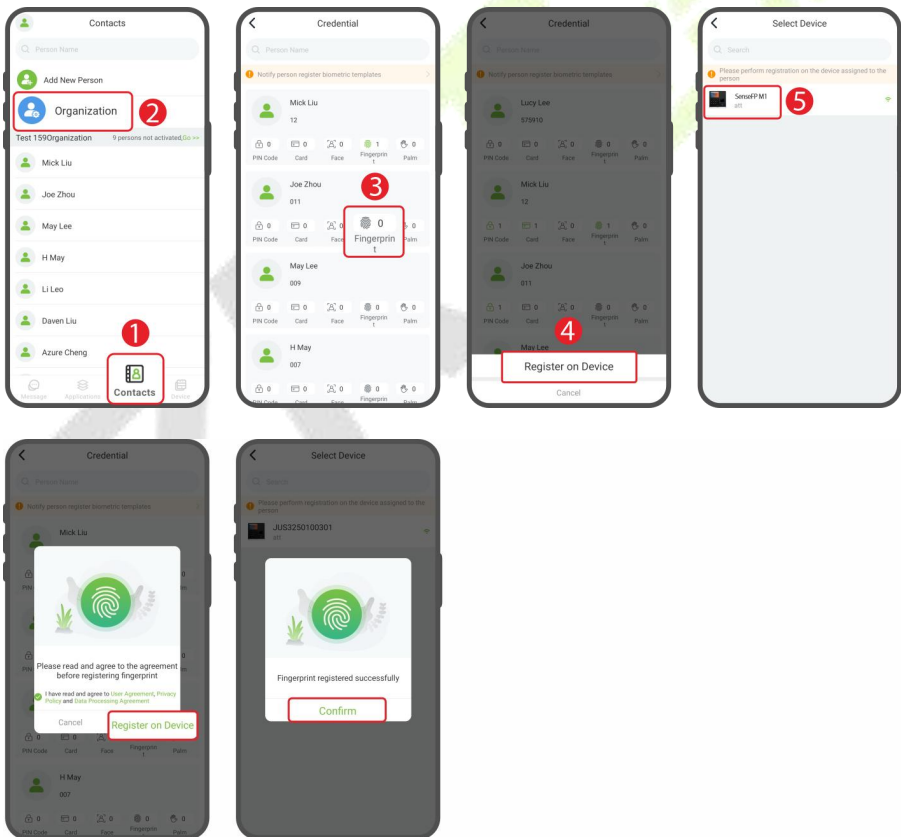
when the display shows “**Card registered successfully**”, it means the card is successfully registered.



### 11.3.3 Register Fingerprint


1. In the bottom menu of App, click **[Contacts]** > **[Organization]** > **[Credential]**.
2. In the credential management screen, select the personnel for whom you want to register a fingerprint.
3. Then click on the  icon.

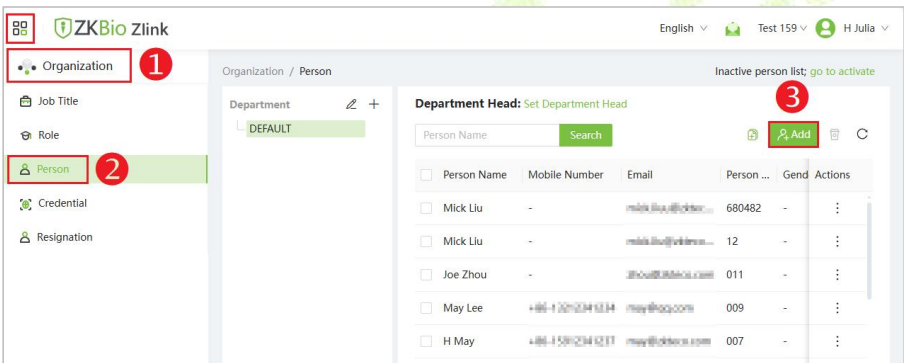
4. Select **[Registration on Device]** in the pop-up menu.
5. Select the **Device** in the device list, at the same time, the device displays the fingerprint registration screen. According to the prompts, place your finger on the fingerprint sensor and press **3** times. When the interface prompts **"Enrolled successfully"**, it means the fingerprint registration is successful.
6. Just follow the prompts when finished.



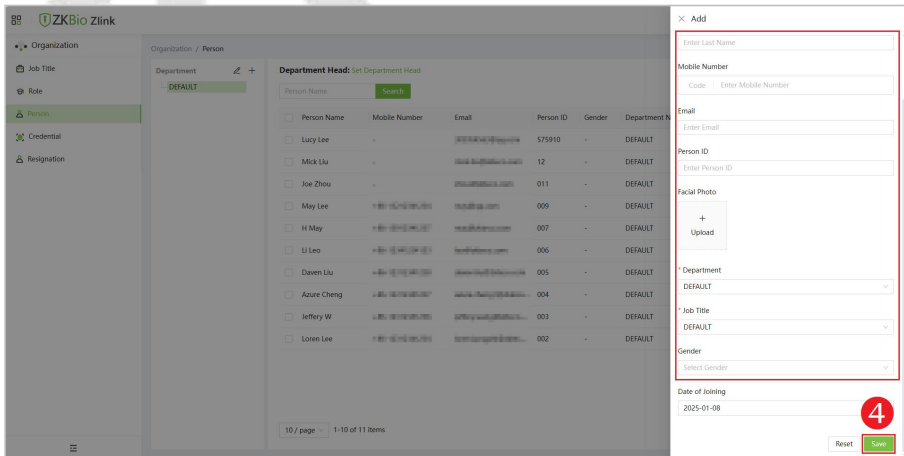
# 12 Operation on the ZKBio Zlink Web

## 12.1 Add Person



1. Log in to the ZKBio Zlink Web with the account you have created. Then click the  icon on the top left corner, and click [Organization] > [Person] > [Add] to add a new person.

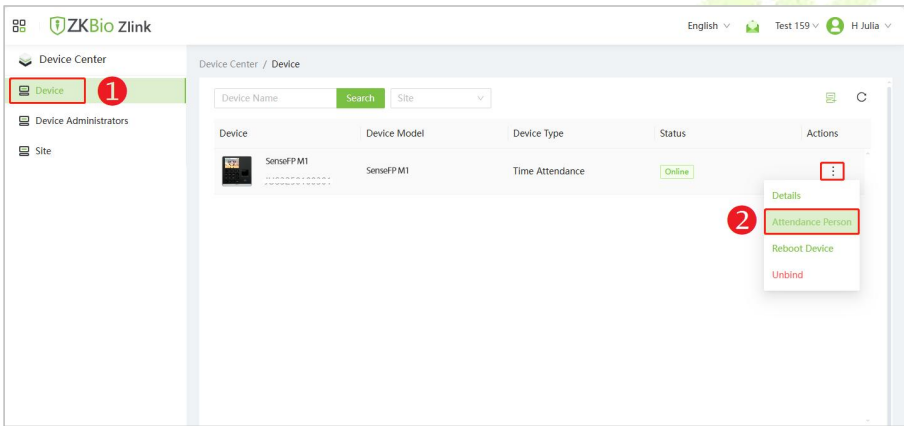


2. Enter the basic information of the person and click [Save].

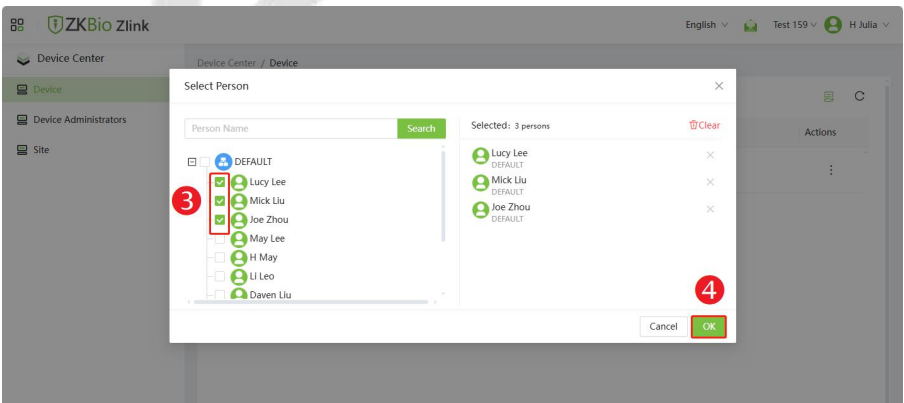


## 12.2 Manage and Add Person to Device


1. Click the  icon on the top left corner, and click **[Device Center]** > **[Device]** to enter the device setting interface. Then select the device you want to synchronize people with, click the  icon after it and select **[Attendance Person]** from the pop-up menu to enter the setting interface.

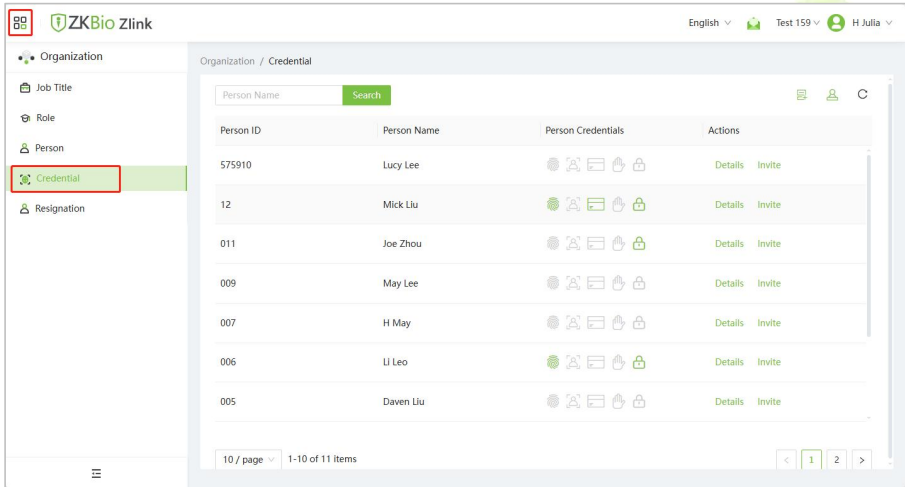


2. Tick the person in the pop-up window and click **[OK]** to add the person to the device.



## 12.3 Register Verification Mode on the Web

1. Click the  icon on the top left corner, and click **[Organization]** > **[Credential]** to enter the credentials setting interface.

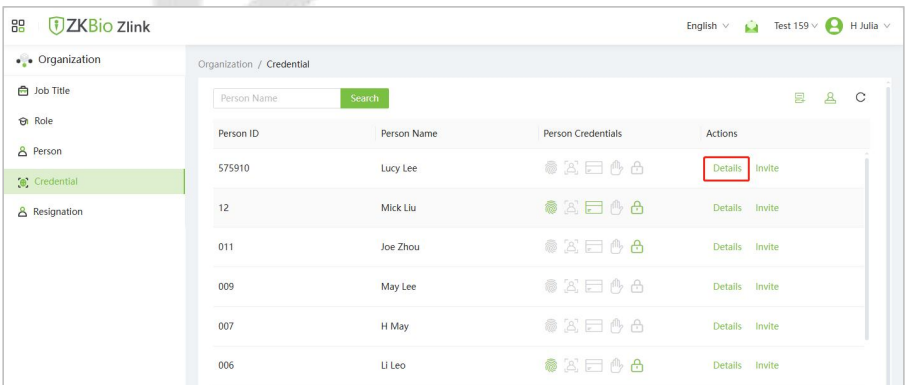


The screenshot shows the ZKBio Zlink web interface. The left sidebar contains a menu with 'Organization', 'Job Title', 'Role', 'Person', 'Credential', and 'Resignation'. The 'Credential' option is highlighted with a red box. The main content area is titled 'Organization / Credential' and features a search bar and a table of personnel. The table has the following data:

Person ID	Person Name	Person Credentials	Actions
575910	Lucy Lee		<a href="#">Details</a> <a href="#">Invite</a>
12	Mick Liu		<a href="#">Details</a> <a href="#">Invite</a>
011	Joe Zhou		<a href="#">Details</a> <a href="#">Invite</a>
009	May Lee		<a href="#">Details</a> <a href="#">Invite</a>
007	H May		<a href="#">Details</a> <a href="#">Invite</a>
006	Li Leo		<a href="#">Details</a> <a href="#">Invite</a>
005	Daven Liu		<a href="#">Details</a> <a href="#">Invite</a>

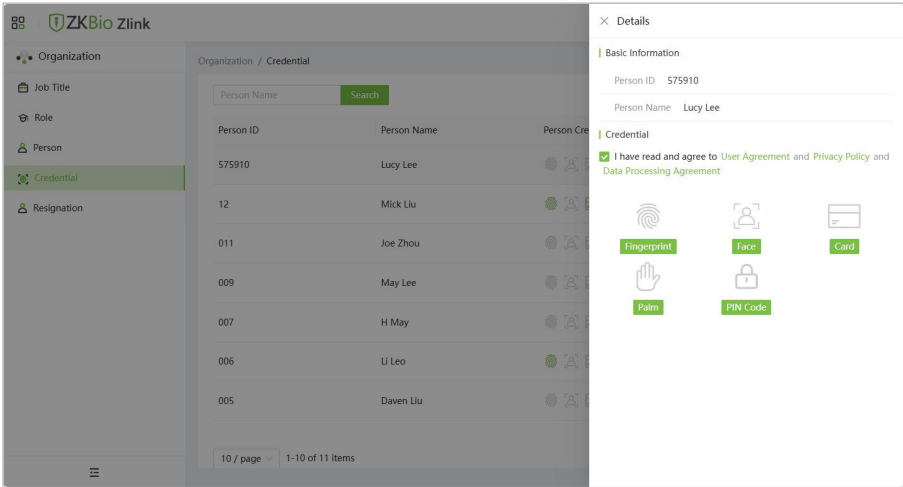
At the bottom of the table, there is a pagination control showing '10 / page' and '1-10 of 11 items'.

2. Select the person and click **[Details]** that follows, tick Agreement and click **Fingerprint/Card/PIN Code** to remotely register the personnel biometric verification mode.



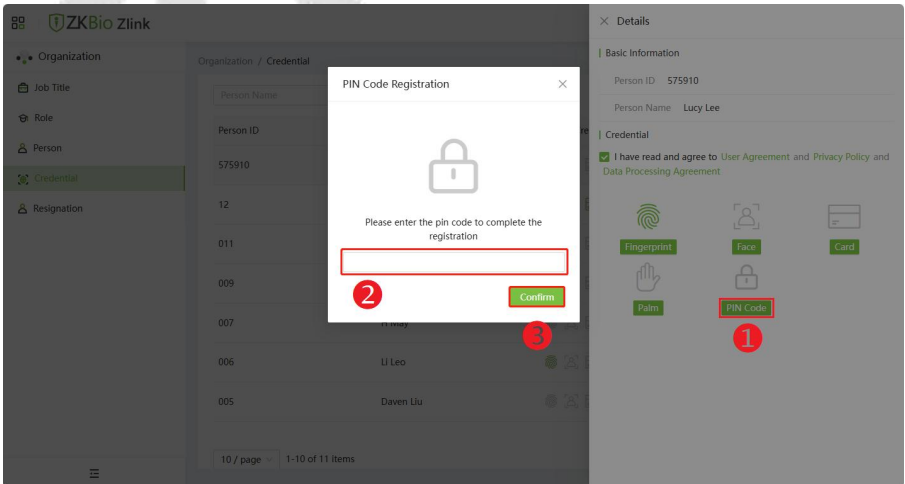
The screenshot shows the ZKBio Zlink web interface. The left sidebar contains a menu with 'Organization', 'Job Title', 'Role', 'Person', 'Credential', and 'Resignation'. The 'Credential' option is highlighted. The main content area is titled 'Organization / Credential' and features a search bar and a table of personnel. The 'Details' link for the first person (Lucy Lee) is highlighted with a red box.

Person ID	Person Name	Person Credentials	Actions
575910	Lucy Lee		<a href="#">Details</a> <a href="#">Invite</a>
12	Mick Liu		<a href="#">Details</a> <a href="#">Invite</a>
011	Joe Zhou		<a href="#">Details</a> <a href="#">Invite</a>
009	May Lee		<a href="#">Details</a> <a href="#">Invite</a>
007	H May		<a href="#">Details</a> <a href="#">Invite</a>
006	Li Leo		<a href="#">Details</a> <a href="#">Invite</a>



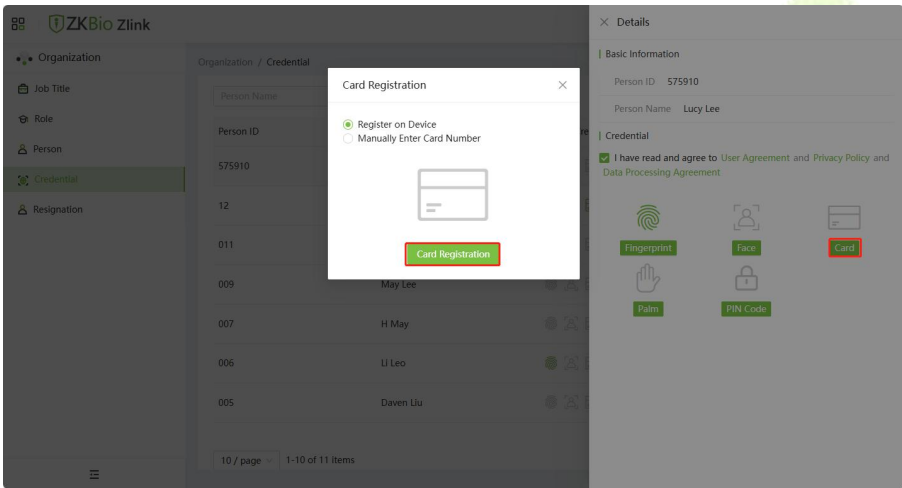
### 12.3.1 Register Password

Select the person whose password you want to enroll and click **[PIN Code]**. Set the password in the pop-up prompt window, and then click **[Confirm]** to confirm.

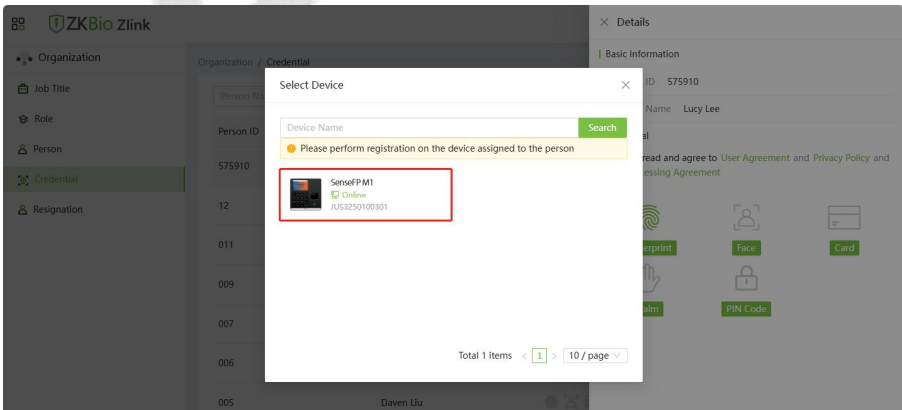


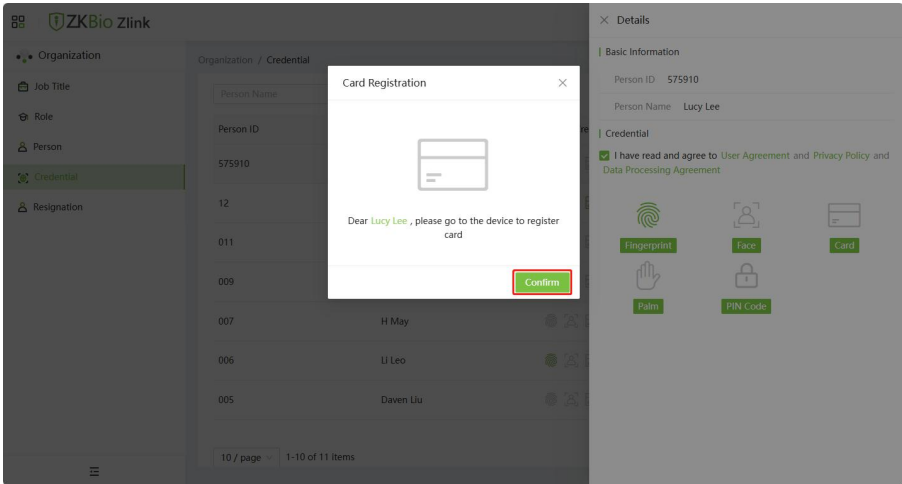
### 12.3.2 Register Card

1. Click **[Card]** in the Details page. You can select Register on Device or Manually Enter Card Number. If you want to register on device, then click **[Card Registration]**.



2. Select the registration device, the device will display the **Enroll Card Number** interface. Place the card in the swipe area, when the display shows green **✓**, it means the card is successfully registered.

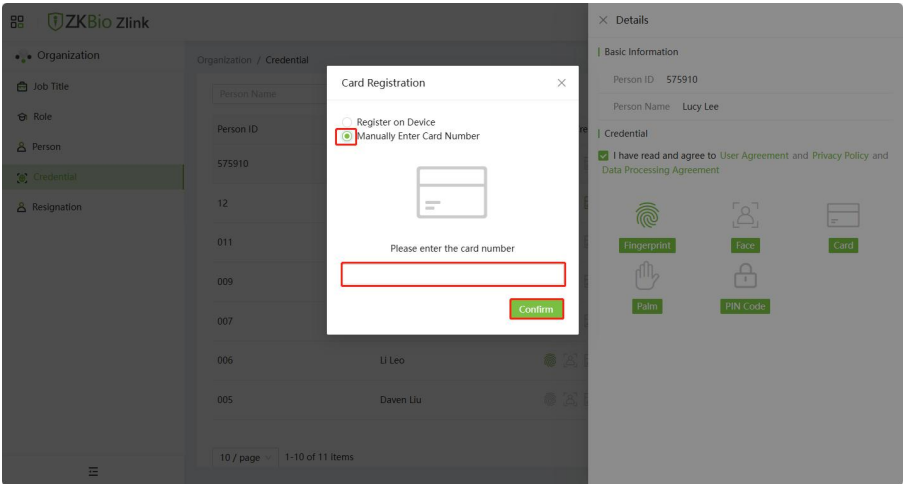




- 3. When the interface pops up the prompt, the device displays the **Punch Card** interface. Place the card in the swipe area, when the display shows “**Enrolled Success**”, it means the card is successfully registered.

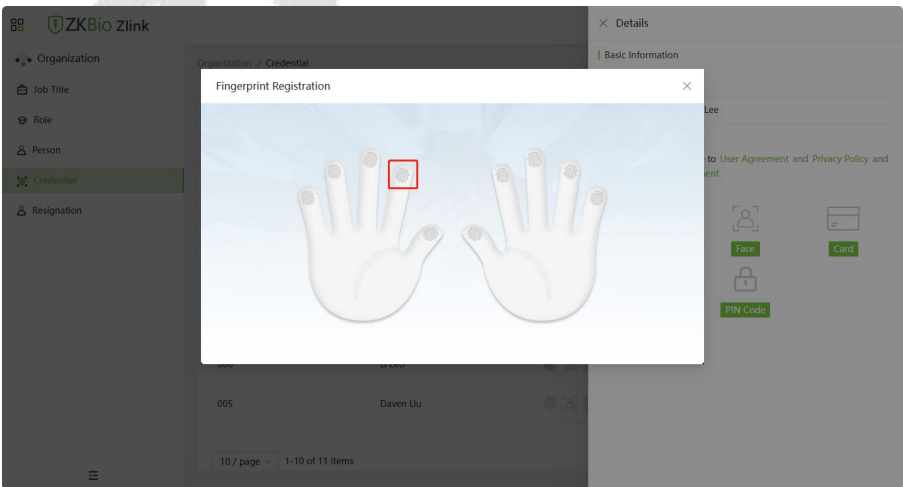


- 4. If you select **Manually Enter Card Number**, just enter your card number directly into the registration window that pops up and click [**Confirm**] to finish.

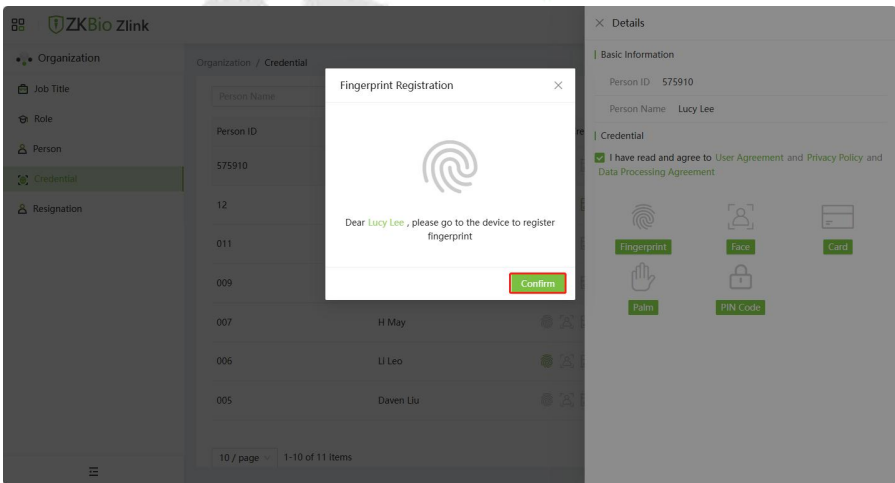
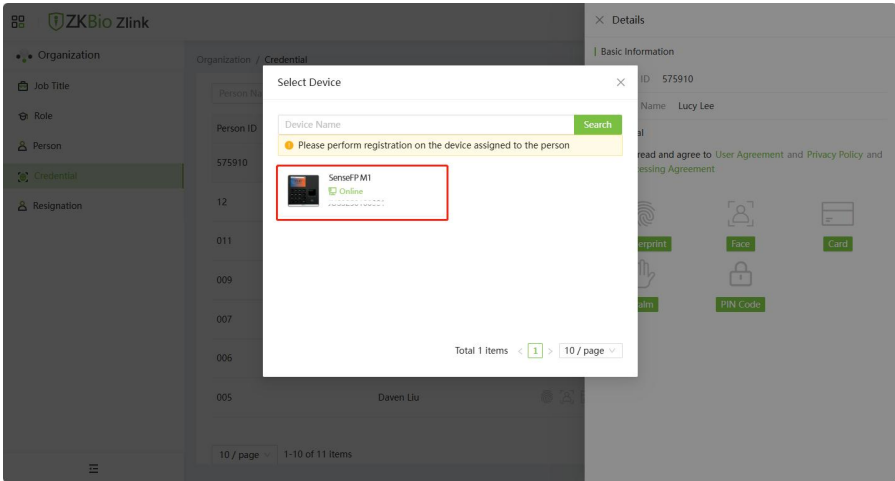


### 12.3.3 Register Fingerprint

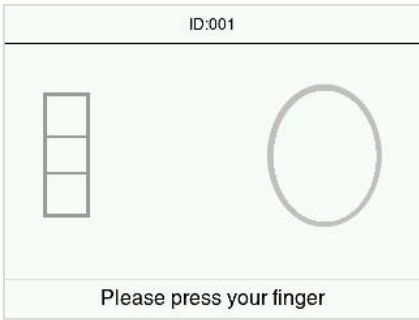
1. Click [**Fingerprint**] in the Details page. Choose the hand and finger to be enrolled in the pop-up prompt window.



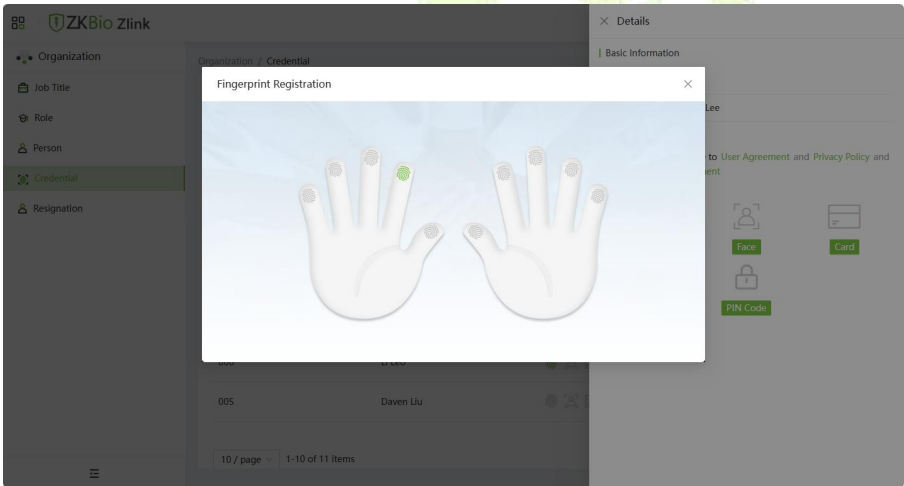
2. Select the registration device, the interface pops up a prompt window, while the device will display the fingerprint registration screen.



3. According to the prompts, place your finger on the fingerprint sensor and press **3** times. When the interface prompts “**Enrolled Success**”, it means the fingerprint registration is successful.



4. Successfully recorded fingerprints will be displayed in green.



# 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/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/en/index/Index/privacyprotection.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	○	○	○	×	○	○

○ indicates that the total amount of toxic content in all the homogeneous materials is below the limit as specified in SJ/T 11363—2006.

× indicates that the total amount of toxic content in all the homogeneous materials exceeds the limit as specified in SJ/T 11363—2006.

**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.

ZKTeco Industrial Park, No. 32, Industrial Road,  
Tangxia Town, Dongguan, China.

Phone : +86 769 - 82109991

Fax : +86 755 - 89602394

[www.zkteco.com](http://www.zkteco.com)

