



## SpeedPalm-V5L Face and Palm Authentication Terminal



# ZKTECO SpeedPalm-V5L Face and Palm Authentication Terminal User Guide

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**ZKTECO SpeedPalm-V5L Face and Palm Authentication Terminal**



## Specifications

- **Model:** SpeedPalm-V5L
- **Version:** 1.0
- **Dimensions:** 227.30mm x 92.30mm x 24.50mm
- **Screen:** 5-inch Touchscreen
- **Features:** Biometric Palm Module, Card Reading Area, Near-infrared Flash, Microphone, Camera

## Product Usage Instructions

### Installation Environment

Please follow these recommendations for installation:

- Install indoors only.
- Maintain an effective distance of 0.3 to 2m.
- Avoid installation near glass windows or direct sunlight.
- Avoid using any heat source near the device.

### Recommended Palm Gestures

Follow these guidelines for palm gestures:

- Place your palm within 5 to 15 cm of the device.
- Position your palm in front of the biometric module parallel to the device.
- Ensure there is space between your fingers.

### **Recommended Standing Posture and Facial Expression**

Maintain a natural facial expression and standing posture during enrolment or verification.

### **Standalone Installation**

Connect various components as shown in the manual for standalone installation, including alarm, smoke detector, door sensor, card reader, indoor station, exit button, lock, and TCP/IP configuration.

### **Ethernet Connection**

Connect the device to computer software using an Ethernet cable. Configure IP addresses as per provided guidelines.

### **Wiegand Connection**

Connect Wiegand reader components following the instructions provided.

### **RS485 and RS232 Connection**

Utilize RS485 and RS232 connections to connect multiple readers to the device. Follow the terminal connections as illustrated in the manual.

### **Door Sensor, Exit Button & Auxiliary Connection**

Connect door sensors, exit buttons, and auxiliary components as directed in the manual.

### **Lock Relay Connection**

Connect the lock relay supporting both Normally Opened Lock and Normally Closed Lock configurations.

## **FAQ**

Can I install the device outdoors?

No, the device is recommended for indoor installation only.

What is the recommended distance for palm placement?

Place your palm within 5 to 15 cm of the device for optimal performance.

How do I configure the IP address for Ethernet connection?

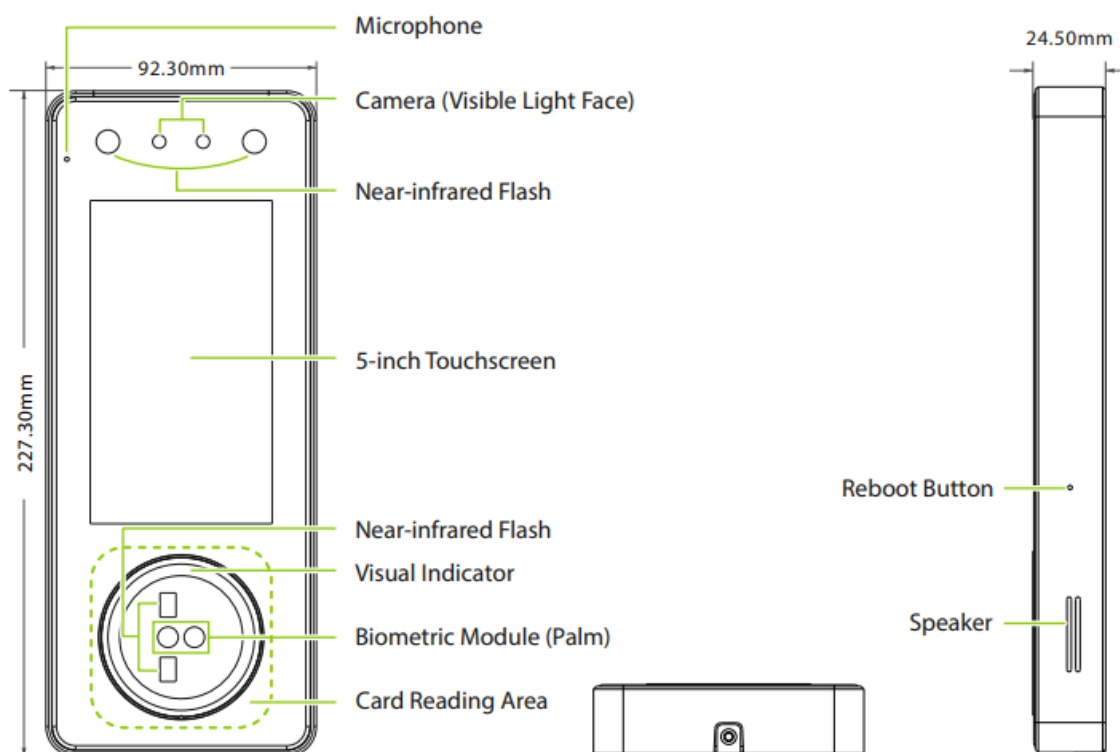
Navigate to COMM.> Ethernet > IP Address, input the IP address, and click on OK. Ensure the server and device IP addresses are in the same network segment.

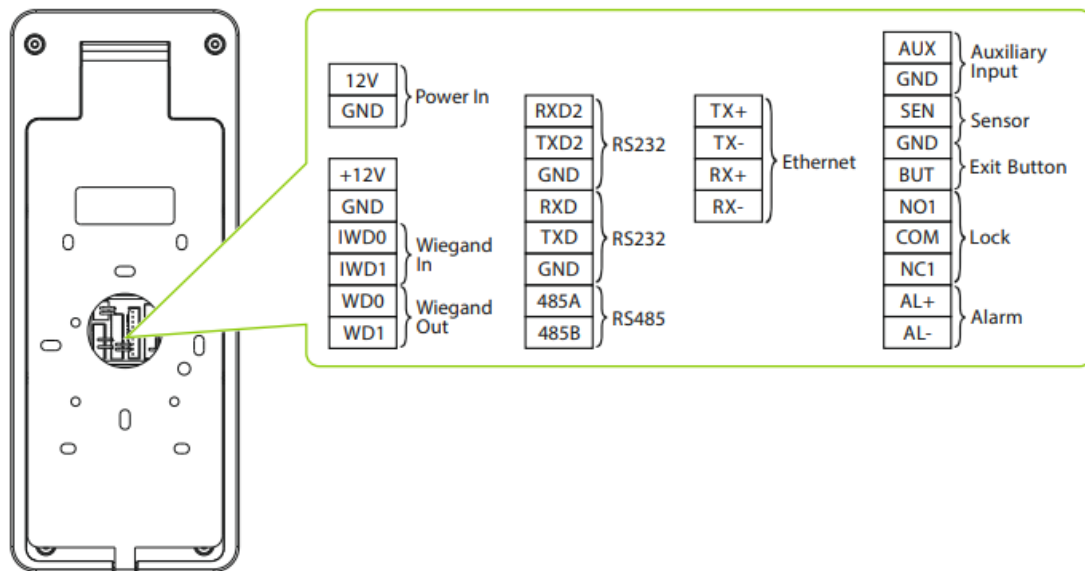
What is the power requirement for the device?

The device requires DC 12V 3A power input.

Due to regular upgrades of systems and products, ZKTeco could not guarantee exact consistency between the actual product and the written information in this manual.

## Overview





## Installation Environment

Please refer to the following recommendations for installation.



## Recommended Palm Gestures



### NOTE:

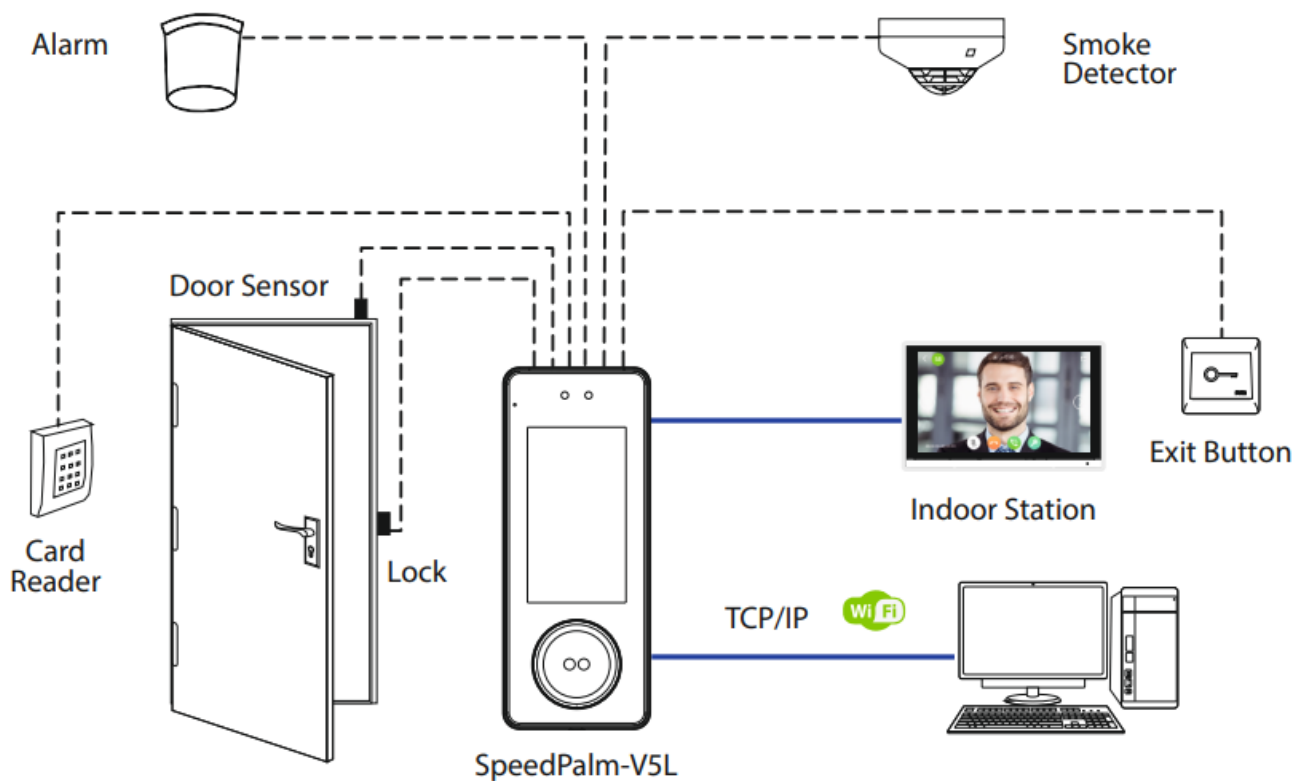
1. Place your palm within 5 to 15 cm of the device.
2. Place your palm in front of the biometric module, such that the palm is placed parallel to the device.
3. Make sure to keep space between your fingers.

## Recommended Standing Posture and Facial Expression

Please keep your facial expression and standing posture natural while enrolment or verification.

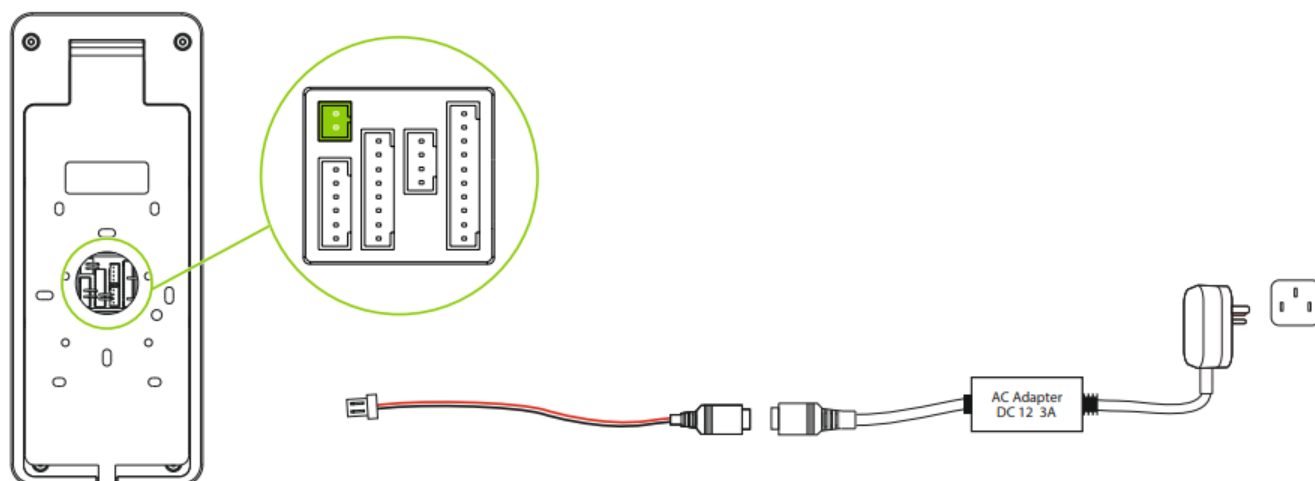


## Standalone Installation



## CONNECTIONS

### Power Connection

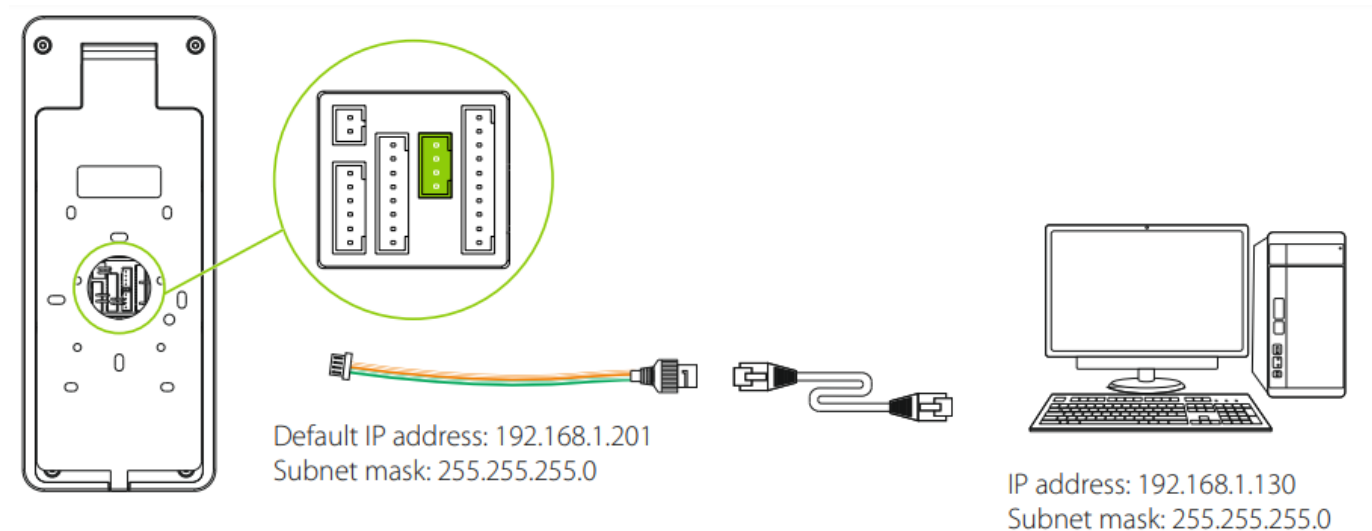


### Recommended power supply

1. 12V  $\pm$  10%, at least 3,000mA.
2. To share the power with other devices, use a power supply with higher current ratings.

## Ethernet Connection

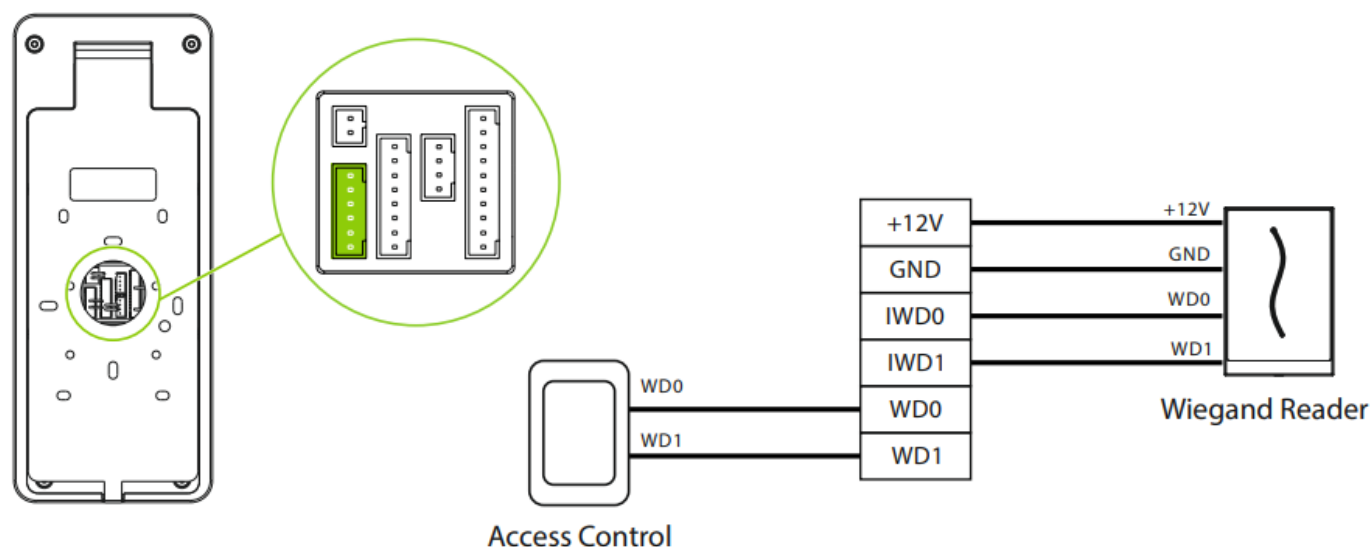
Connect the device and computer software over an Ethernet cable. As shown in the example below:



Click on [COMM.] > [Ethernet] > [IP Address] , input the IP address and click on [OK].

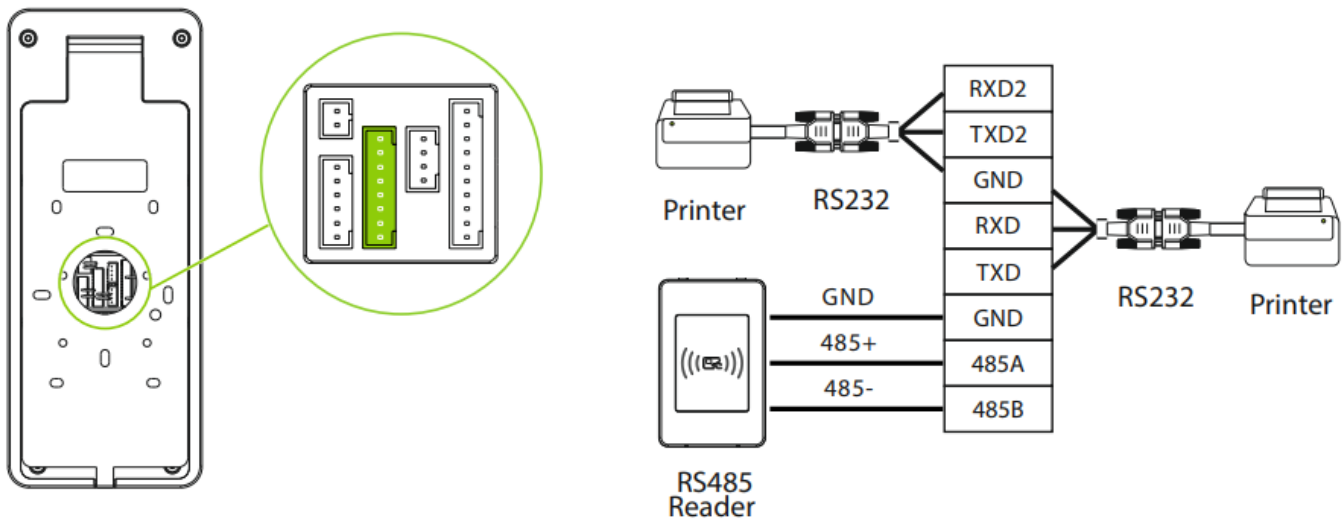
**Note:** In LAN, the IP addresses of the server (PC) and the device must be in the same network segment when connecting to the ZKBio CVAccess/ZKBio Time /ZKBio CVSecurity software.

## Wiegand Connection



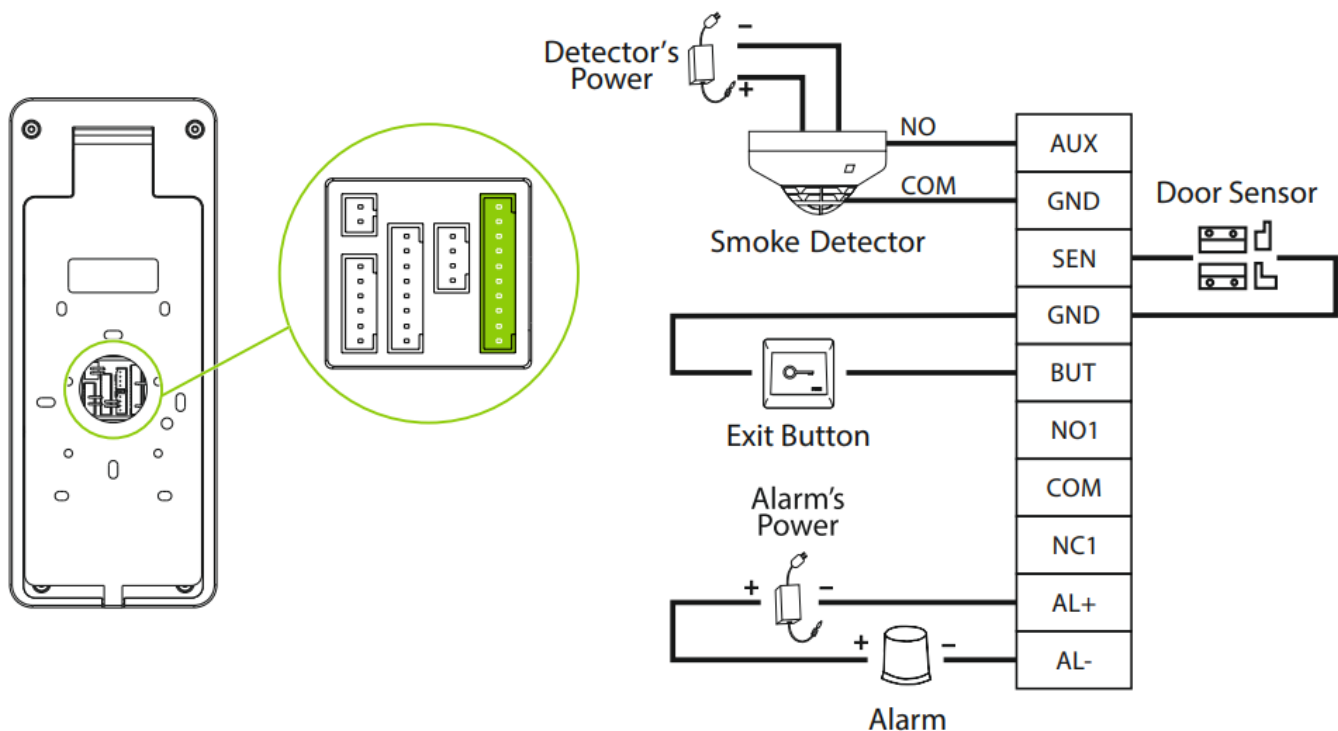
## RS485 and RS232 Connection ★

The RS485 and the RS232 lets user connect to multiple readers to the device. The RS232 and RS485 can be connected to the terminal, as shown in the figure below.



**Note:** Not all products have the function with ★ , the real product shall prevail.

### Door Sensor, Exit Button & Auxiliary Connection

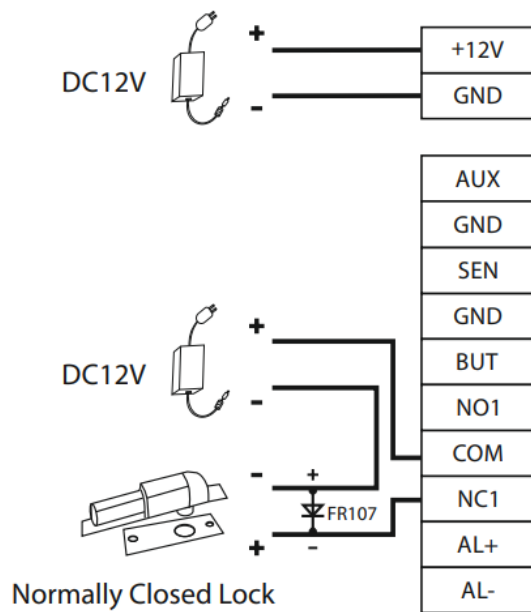


### Lock Relay Connection

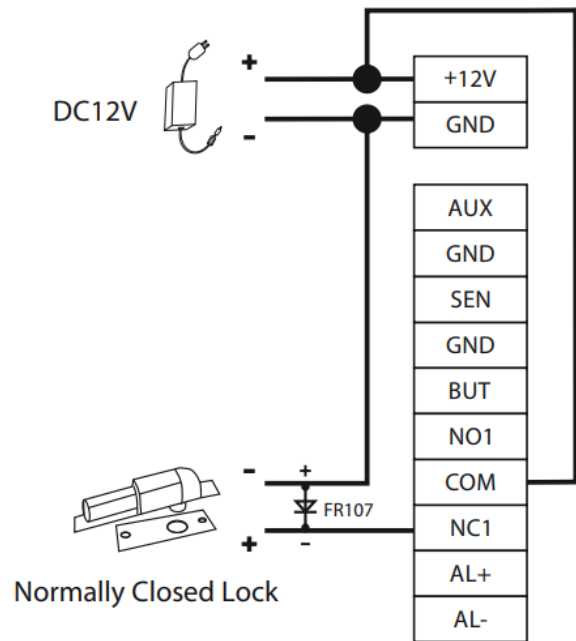
The system supports both Normally Opened Lock and Normally Closed Lock. The NO Lock (normally opened when powered) is connected with 'NO1' and 'COM' terminals, and the NC Lock (normally closed when powered) is connected with 'NC1' and 'COM' terminals. The power can be shared with the lock or can be used separately for the lock, as shown in the example with NC Lock below:




### 1) Device not sharing power with the lock




### 2) Device sharing power with the lock

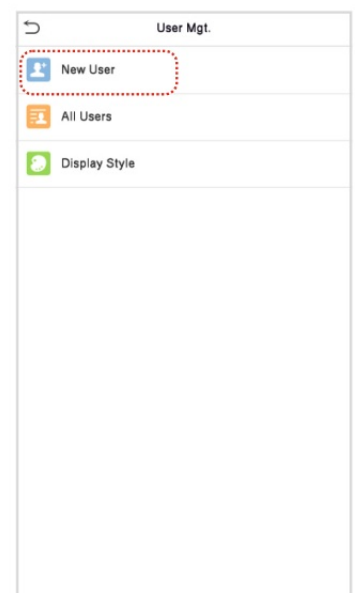
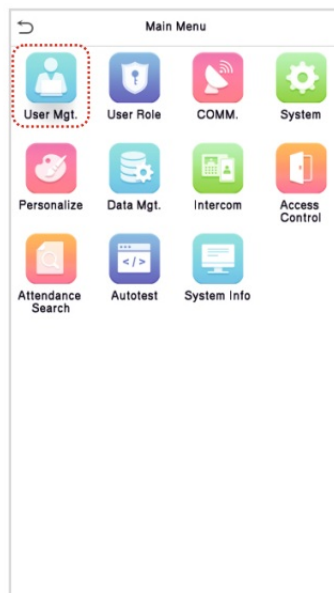
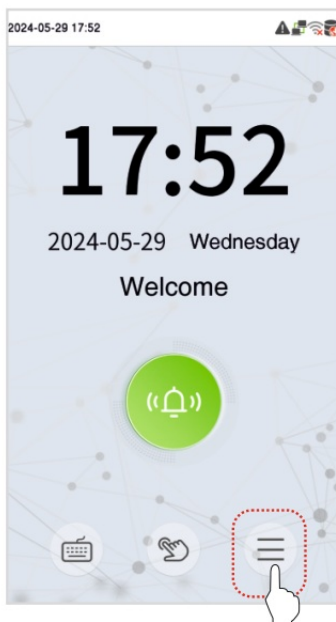


## User Registration

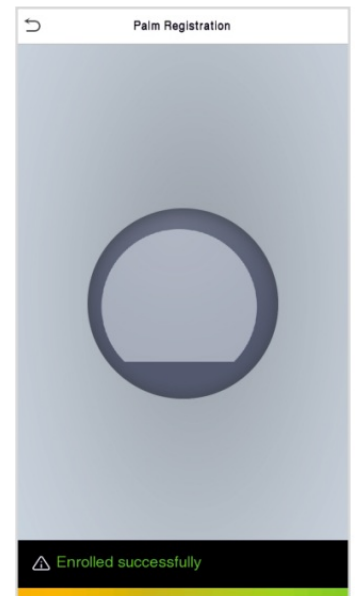
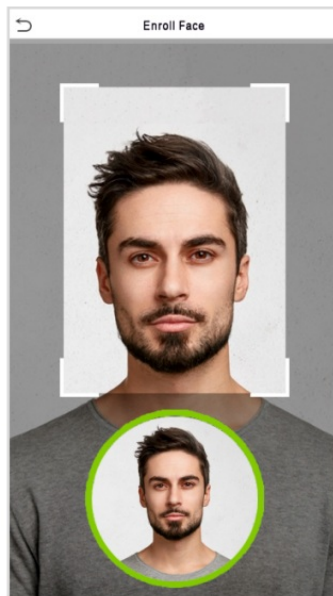
When there is no super administrator set in the device, click on  to enter the menu. Add a new user and set User Role to Super Admin, then the system will request for the administrator's verification before entering the menu. It is recommended to register a super administrator initially for security purposes.

### Method 1: Register on the Device

Click on  > [User Mgt.] > [New User] to register a new user. The options include entering the user ID and Name, setting User Role and Access Control Role, registering Face, Palm, Card, Password and Profile Photo.



New User	
User ID	1
Name	
User Role	Normal User
Palm	0
Face	0
Card	0
Password	
Profile Photo	0
Access Control Role	

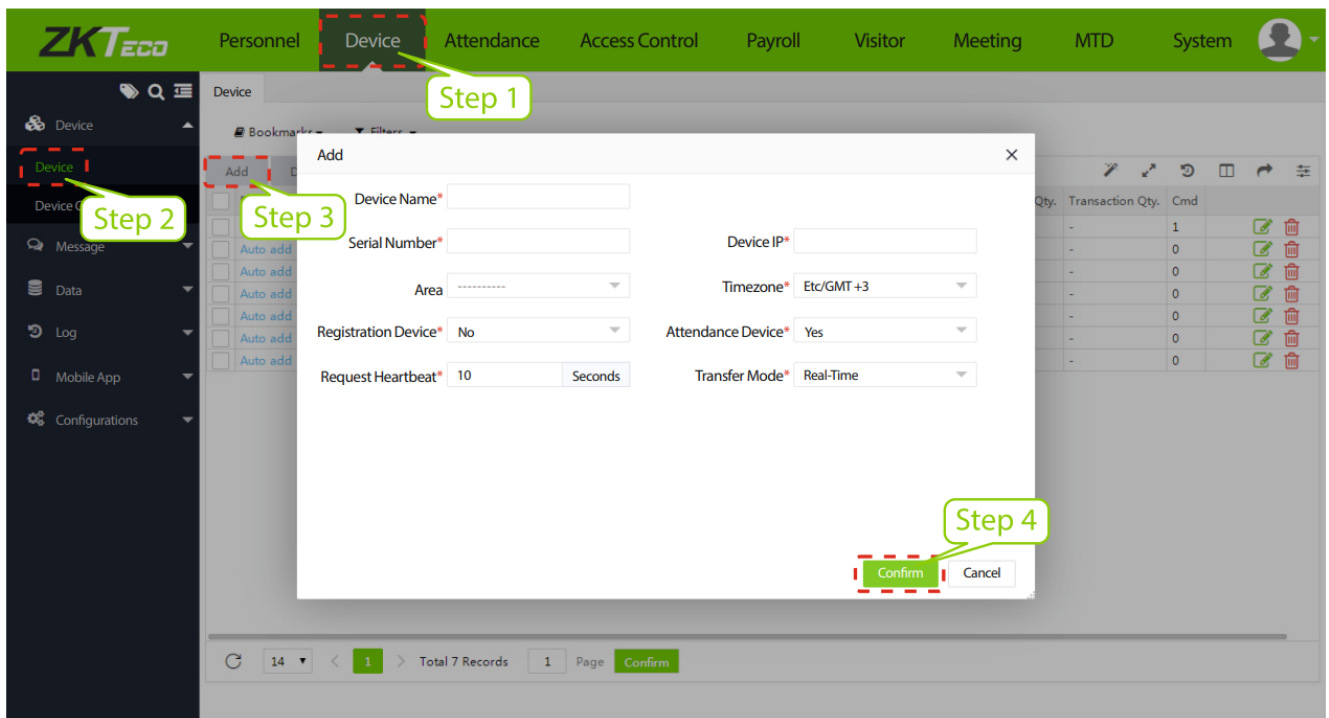


## Method 2: Registering on ZKBio Time Software

### Register on the PC

Please set the IP address and cloud service server address on the device.

1. Click [Device] > [Device] > [Add] to add the device to the software. It can automatically be added when the device's server address and port are set.



2. Click [Personnel] > [Employee] > [Employee] > [Add] to register users in the software.
3. Synchronize personnel on the software to the devices in the corresponding area.
4. In the personnel list, select an employee(s) and click [More] > [Resynchronize to device] to access the confirmation interface for synchronizing.

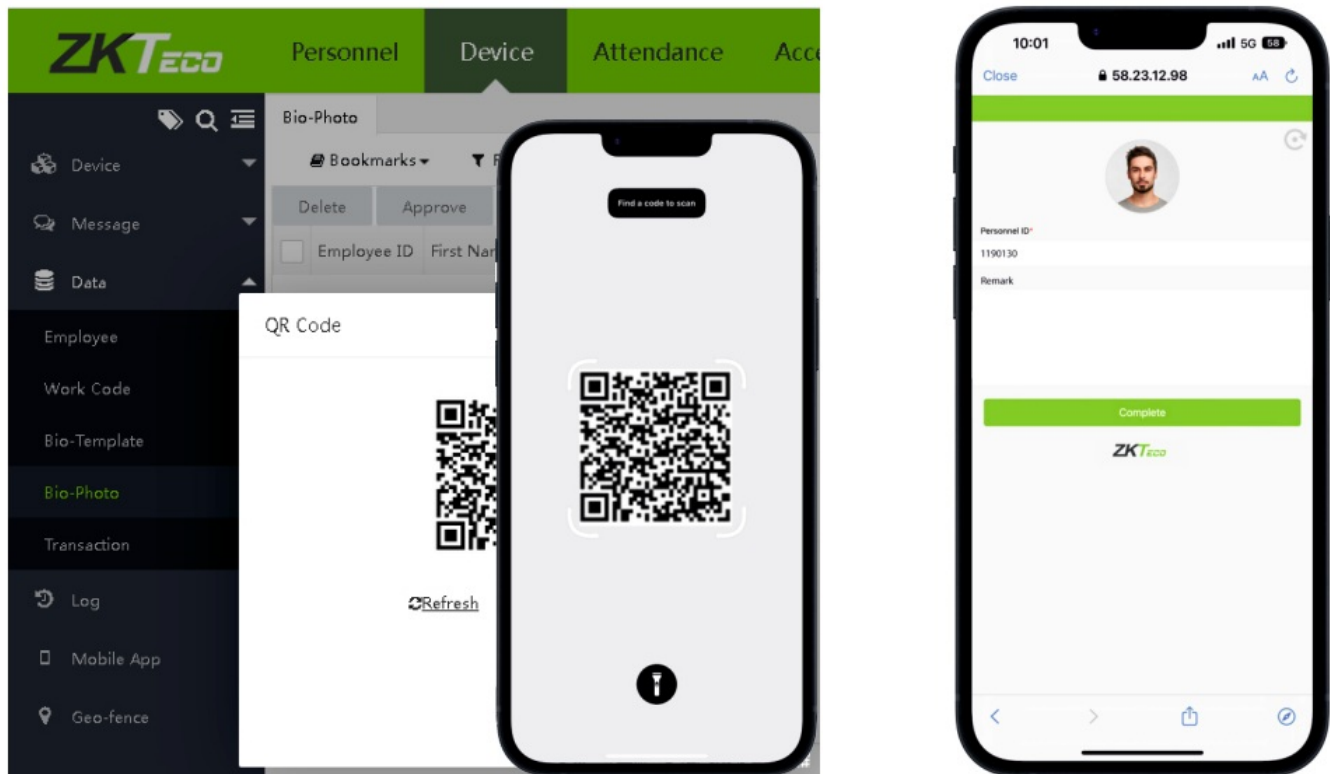
For more details, please refer to the ZKBio Time User Manual.

### Register on the Phone

Once the ZKBio Time software is installed, the users could enroll their face template via a browser application on

their own mobile phone.

Click [Device] > [Data] > [Bio-Photo] > [QR Code] scan the QR code to enroll user's face template.



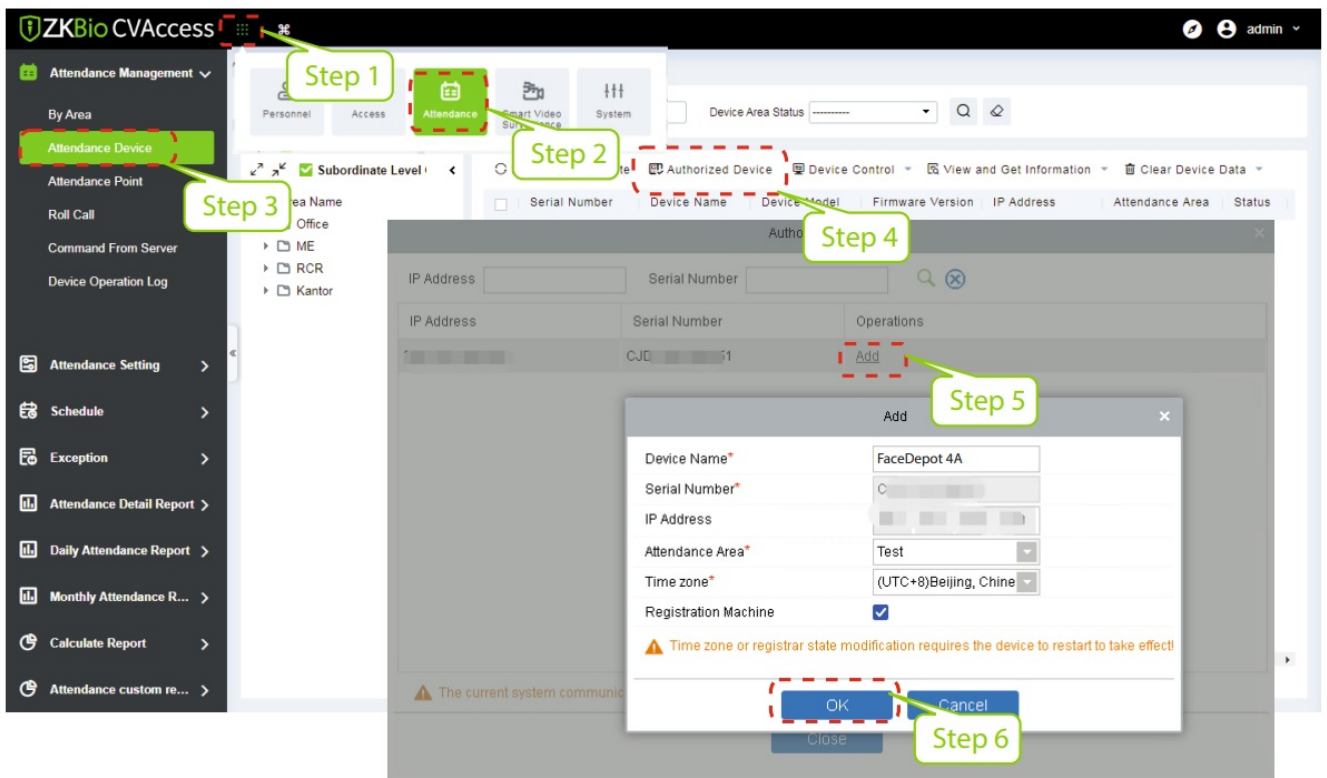
**Note:** Before registering a person's face, you need to register the information about the user on ZKBio Time software in advance. As, personnel ID, name and phone number, etc.

### Method 3: Register on ZKBio CVAccess Software

#### Register on the PC

Please set the IP address and cloud service server address in the Comm. Menu option on the device.

1. Click [Attendance] > [Attendance Device] > [Authorized Device] to search the device on the software. When an appropriate server address and port is set on the device, the searched devices are displayed automatically.



2. Click [Add] in operation column, a new window will pop-up. Select Icon type, Area, and Add to Level from each dropdowns and click [OK] to add the device.
3. Click [Personnel] > [Person] > [New] and fill in all the required fields to register a new users in the software.
4. Click [Attendance] > [Attendance Device] > [Device Control] > [Synchronize Software Data to the Device] to synchronize all the data to the device including the new users.

For more details, please refer to the ZKBio CVAccess User Manual.

### Register on the Phone

Once the ZKBio CVAccess software is installed, the users could enroll their face via a browser application on their own mobile phone.

1. Click [Personnel] > [Parameters], input "http://Server address: Port" in the QR Code UGL bar. The software will automatically generate a QR code. Scan the QR code or login onto "http://Server address: Port/app/v1/adreg" by the mobile phone to register users.

Personnel Registration

Personnel ID

10

First Name

Last Name

Last Name

OK

ZKBio CVAccess

Personnel / Personnel / Parameters

Self-service Registration


Enable Self Registration:

☒ Yes ☐ No

QR Code URL:

<http://192.168.163.86:8088/app/v1/adreg/tokenAdreg>

Download QR code image



Personal sensitive information protection

- ☒ Personnel ID
- ☒ Last Name
- ☒ Certificate Number
- ☒ Email
- ☒ Photo
- ☒ Card Number
- ☒ First Name
- ☒ Gender
- ☒ Mobile Phone
- ☒ Birthday
- ☒ Face Picture

2. The users will be displayed in [Personnel] > [Pending Review], click [View].

ZKBio CVAccess

Personnel / Personnel / Pending Review

Personnel ID  Name

<input type="checkbox"/>	Personnel ID	First Name	Last Name	Mobile Phone	Status	Create Time	Operations
<input type="checkbox"/>	1						<input type="button" value="Edit"/>
<input type="checkbox"/>	10						<input type="button" value="Edit"/> <input type="button" value="Delete"/>

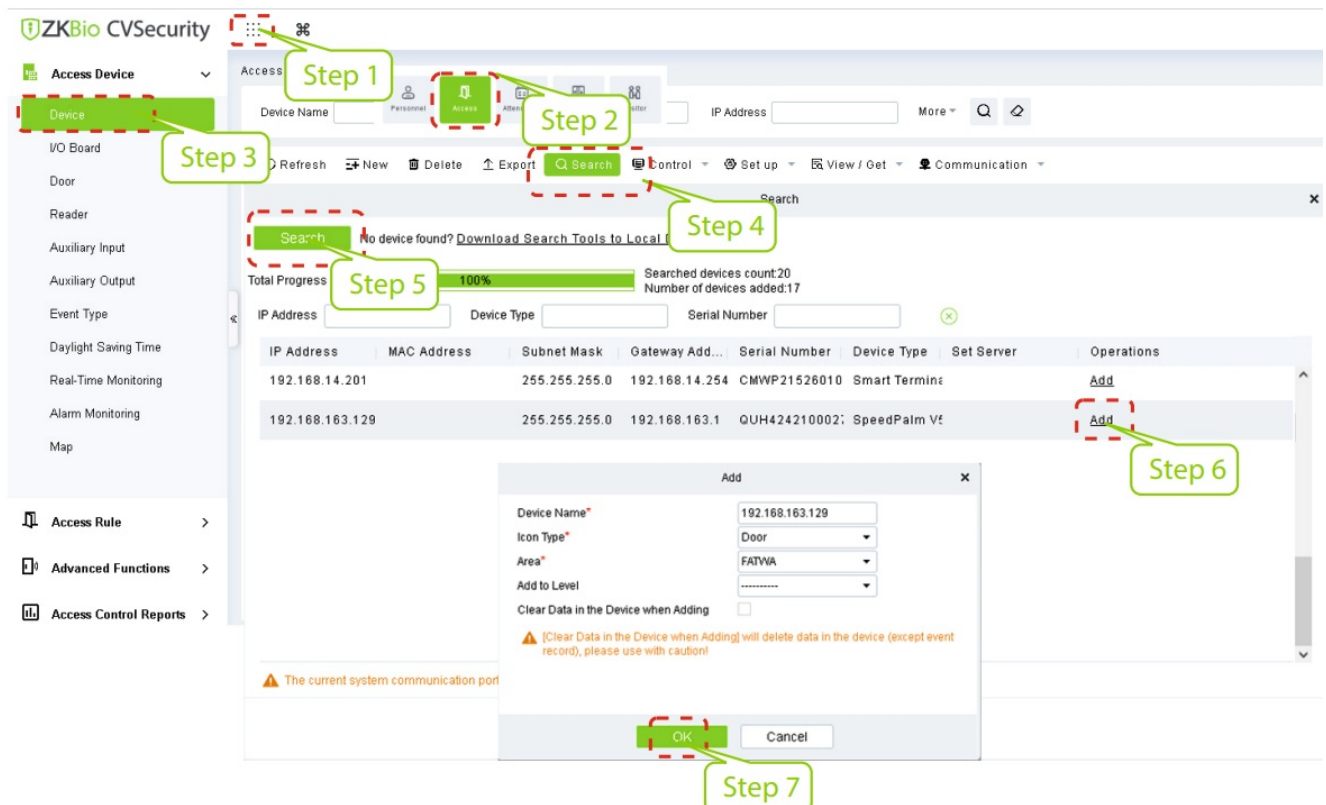
No data

#### Method 4: Register on ZKBio CVSecurity Software

##### Register on the PC

Please set the IP address and cloud service server address in the Comm. Menu option on the device.

1. Click [Access] > [Access Device] > [Device] > [Search Device] to search the device on the software. When an appropriate server address and port is set on the device, the searched devices are displayed automatically.



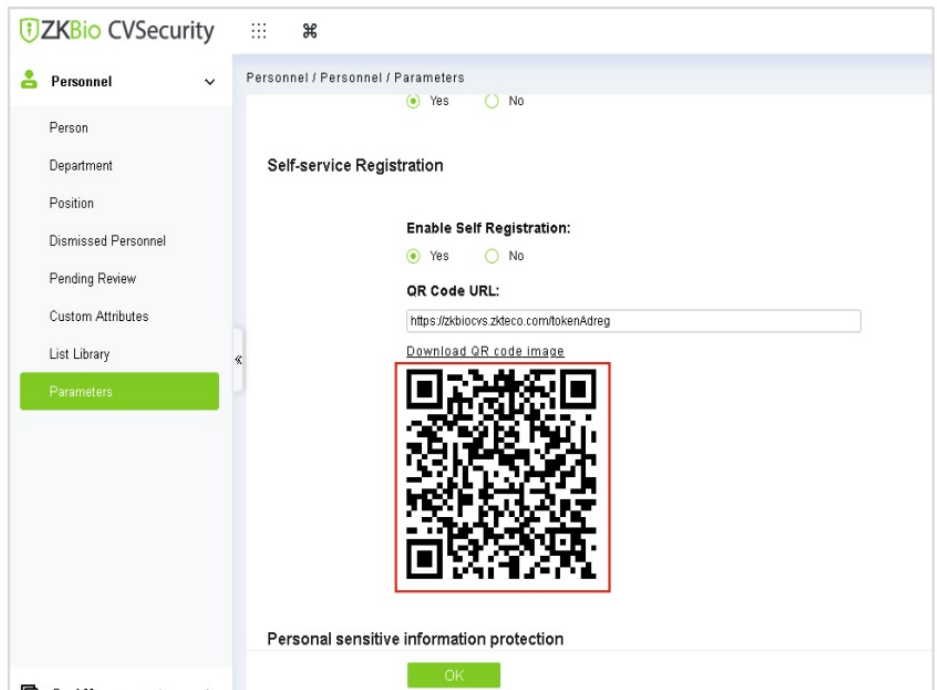
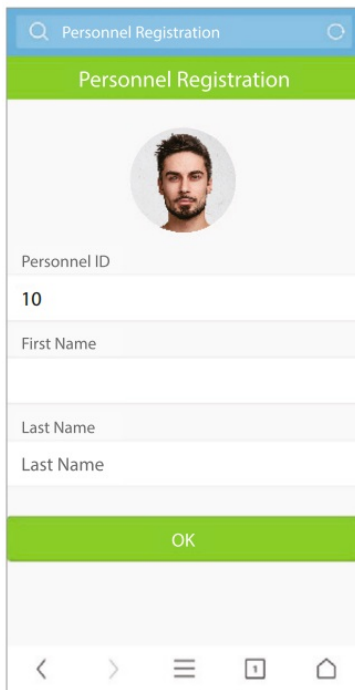
2. Click [Add] in operation column, a new window will pop-up. Select Icon type, Area, and Add to Level from each dropdowns and click [OK] to add the device.
3. Click [Personnel] > [Person] > [New] and fill in all the required fields to register a new users in the software.
4. Click [Access] > [Access Device] > [Device Control] > [Synchronize Software Data to the Device] to synchronize all the data to the device including the new users.

For more details, please refer to the ZKBio CVSecurity User Manual.

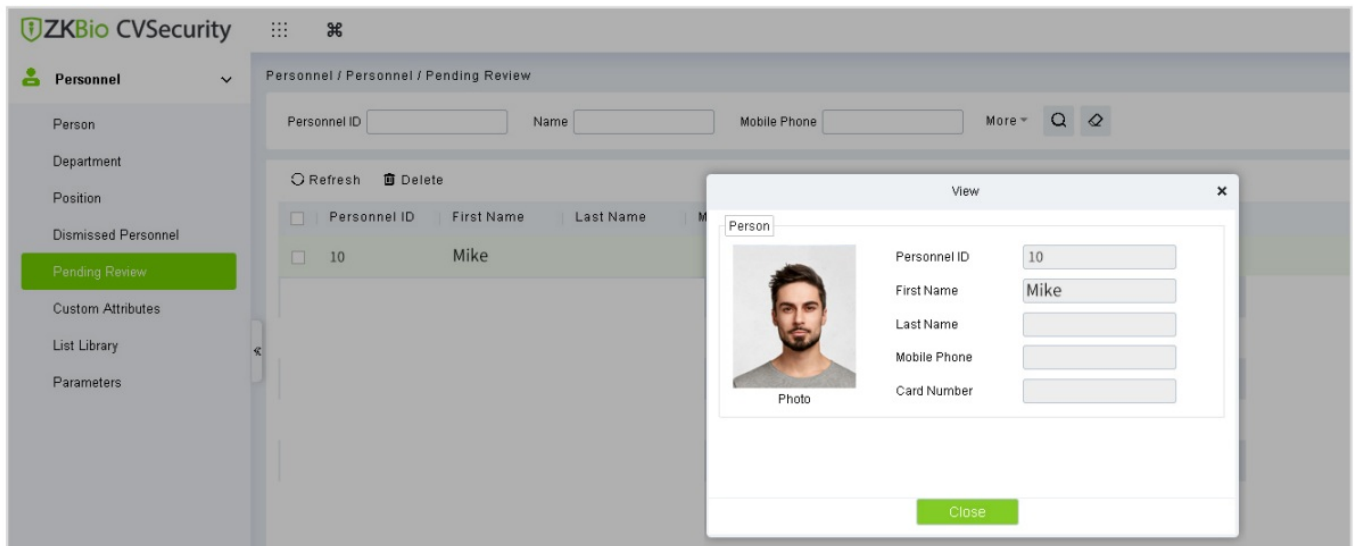
## Register on the Phone

Once the ZKBio CVSecurity software is installed, the users could enroll their face template via a browser application on their own mobile phone.



1. Click [Personnel] > [Parameters], input "http://Server address: Port" in the QR Code UGL bar. The software will automatically generate a QR code. Scan the QR code or login onto "http://Server address: Port/app/v1/adreg" by the mobile phone to register users.





2. The users will be displayed in [Personnel] > [Pending Review], click [View].

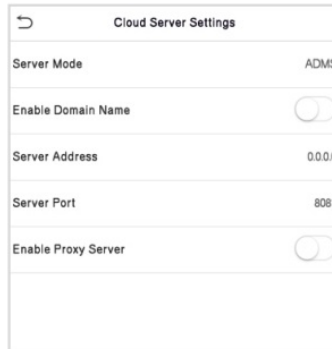
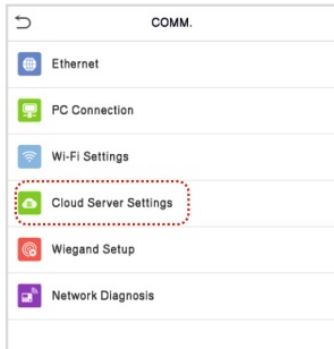
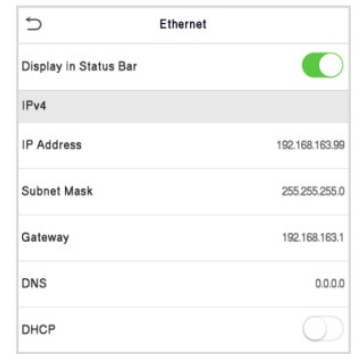
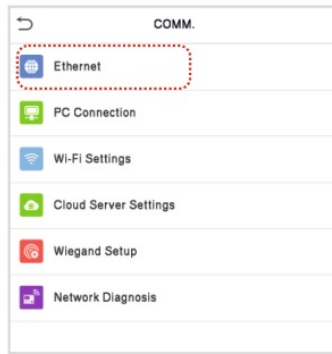


## Ethernet and Cloud Server Settings


Click on  > [COMM.] > [Ethernet] to set the network parameters. If the TCP/IP communication of the device is successful, the icon  will be displayed in the upper right corner of the standby interface.

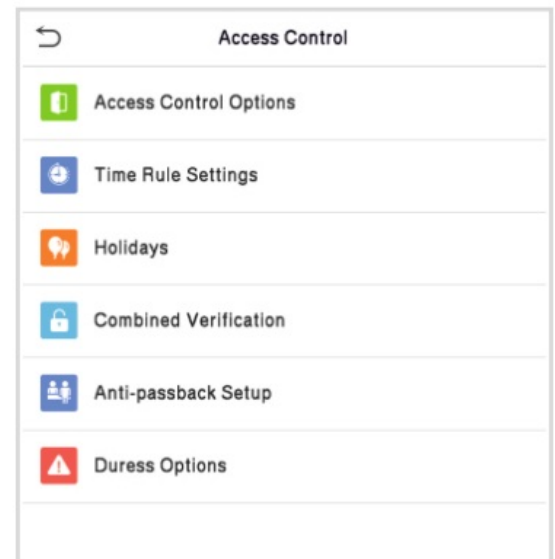
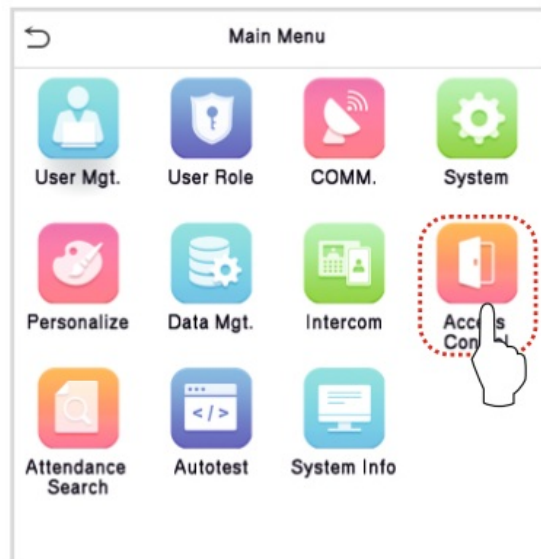
Click on  > [COMM.] > [Cloud Server Settings] to set the server address and server port, that is, the IP address and port number of the server after the software is installed. If the device communicates with the server successfully, the icon  will be displayed in the upper right corner of the standby interface.





## Access Control Setting

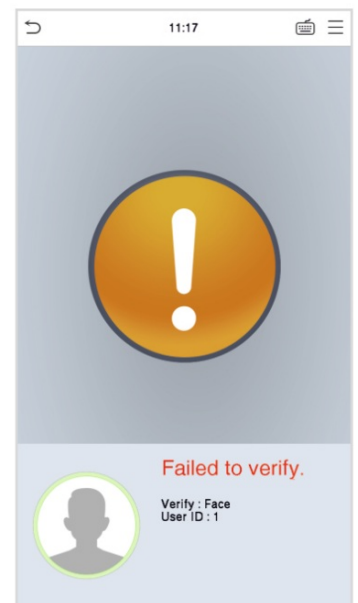
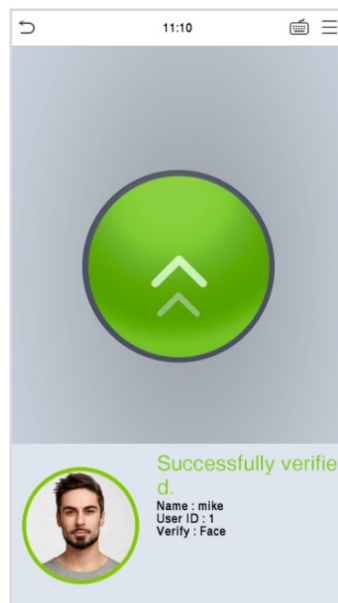
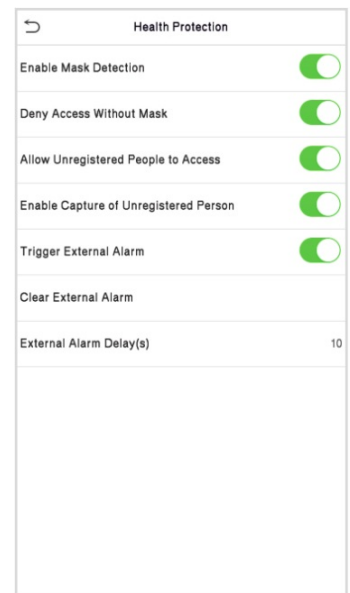
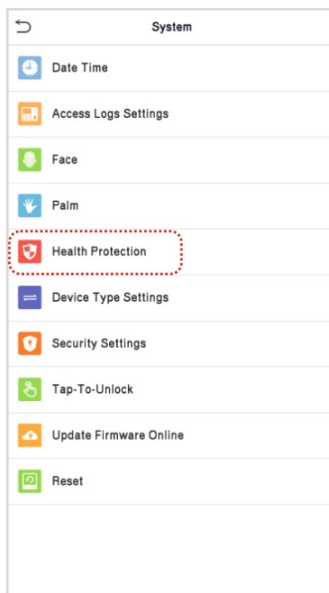
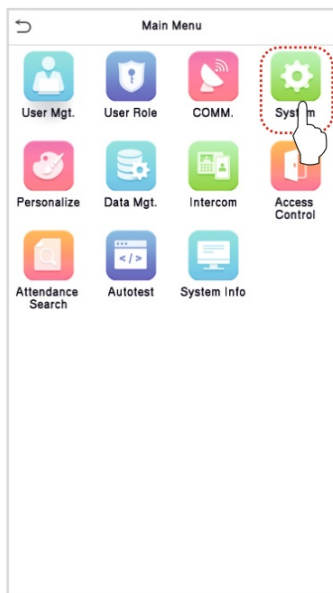
Click on  > [Access Control] to enter the access control management interface and set relevant parameters of access control.



## Health Protection

Click on  > [System] > [Health Protection] to enable mask detection.






## SIP Settings

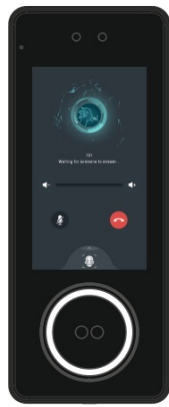
This function needs to be used with the indoor station.

### Local Area Network Use

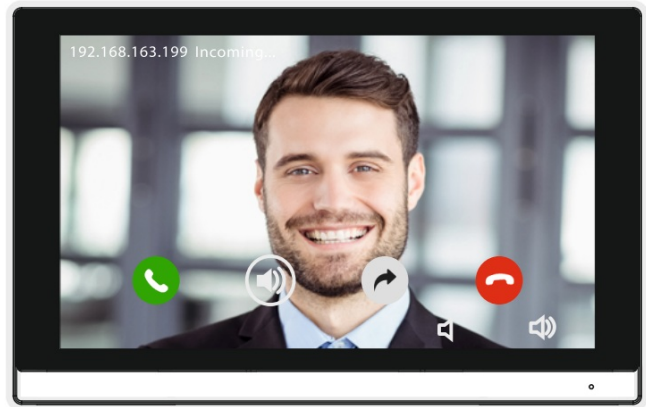
1. Set the indoor station to the same network segment as the device.
2. Click on [Intercom] > [SIP Settings] > [Advanced Settings] > [DTMF] to set the value as same as the value of DTMF in the indoor station.
3. On the SIP Settings interface, enter [Contact List] > [Add] to add the connected indoor station.
  - **Device Number:** Customize the number of the indoor station.
  - **Call Address:** It is the IP Address of the indoor station.

### Enter the IP Address/Device Number of the Indoor Station

Click  icon on the standby page to enter the IP address/Device Number of the indoor station in the pop-up interface of the device.




SpeedPalm-V5L



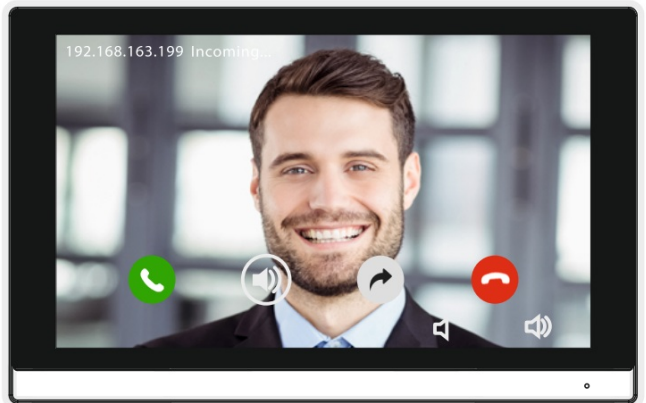
Indoor Station

## Calling by Shortcut

1. Click on  > [Intercom] > [SIP Settings] > [Contact List].
2. Click Add, input device number and call address to add a new contact member.  
**Note:** Call address and the SpeedPalm-V5L device must be in the same network segment.
3. Click [SIP Settings] > [Calling Shortcut Settings], select any item except admin, and enter the form information you just uploaded.
4. Then you can enter the device number or click shortcut key in the call screen to directly implement the video intercom.





SpeedPalm-V5L



Indoor Station

## Direct Calling Mode

1. Click on  > [Intercom] > [SIP Settings] > [Contact List].
2. Click Add, input device number and call address to add a new contact member.  
**Note:** Call address and the SpeedPalm-V5L device must be in the same network segment.
3. Click [SIP Settings] > [Calling Shortcut Settings] > [Call Mode] > [Direct Calling Mode] > [Add]. Select the IP addresses of the indoor stations that you want to call, then the indoor stations will be displayed in the list.
4. Then you can tap the  icon on the device to call the indoor stations at the same time.



SpeedPalm-V5L



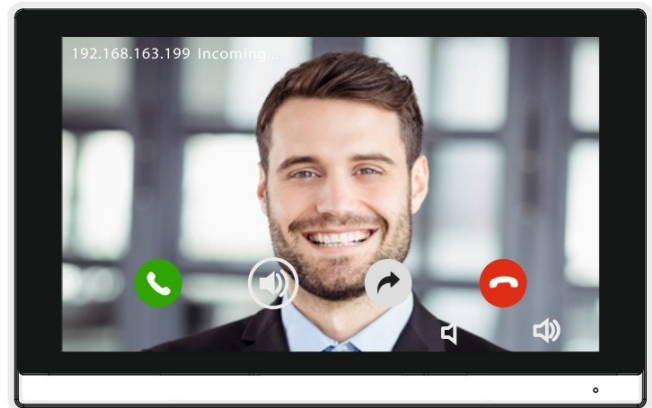
Indoor Station

## SIP Server

1. Click on > [Intercom] > [SIP Settings] > [Local Settings] to activate the SIP server, and set the SIP server parameters.
2. Once the SIP is set up correctly, a green dot will appear in the upper right corner of the call page to indicate that the SpeedPalm-V5L device is connected to the server.  
You can call the account name of the indoor station.



SpeedPalm-V5L



Indoor Station

**Note:** Users must obtain the server address and password from the distributor or build the server themselves if they need to activate the SIP server.

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)



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## Documents / Resources

	<a href="#">ZKTECO SpeedPalm-V5L Face and Palm Authentication Terminal</a> [pdf] User Guide SpeedPalm-V5L, SpeedPalm-V5L Face and Palm Authentication Terminal, Face and Palm Authentication Terminal, Palm Authentication Terminal, Authentication Terminal, Terminal
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## References

- [ZKTeco | Biometrics and Computer Vision](#)
- [User Manual](#)

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