ZKTECO ProBio(QR) Biometric Identification Terminal User Guide

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QUICK START GUIDE

ProBio(QR)

Version: 1.0
Date: May 2021

Safety Precautions

Before installation, please read the following precautions carefully to prevent risks and dangers to this product, users and surroundings.

Do not expose to direct sunlight, water, dust and soot.

Do not place any magnetic object near the product. Magnetic objects such as Magnet, CRT, TV, Monitor or Speaker may damage the device.

Do not place the device next to any heating equipment.

Prevent water, drinks or chemicals leaking into the device.

This product is not intended for use by children unless they are supervised.

Do not drop or damage the device.

Do not disassemble, repair or modify the device.

Do not use the device for any purpose other than those specified.

Remove dusts or dirts regularly. While cleaning, wipe dust off with a smooth cloth or towel instead of water.

Contact your supplier in case of any problem!

User Registration

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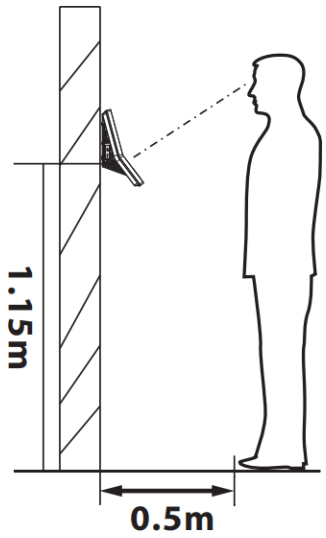
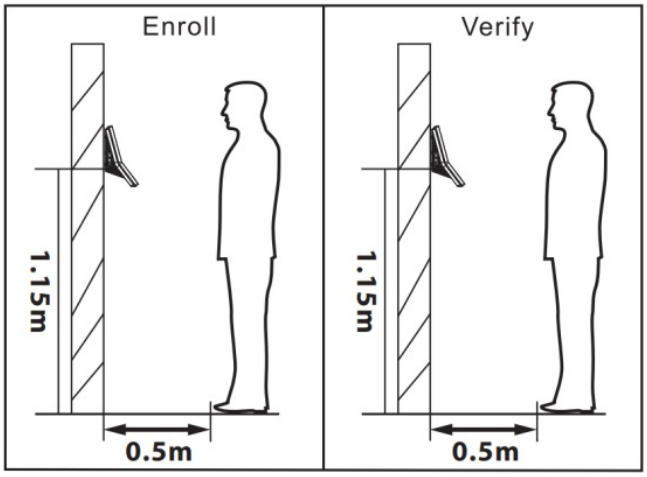
1) Recommended Standing Position



For user heights between 1.5m to 1.8m, it is recommended to install the device at 1.15m height above ground (can be modified according to the user's average height).

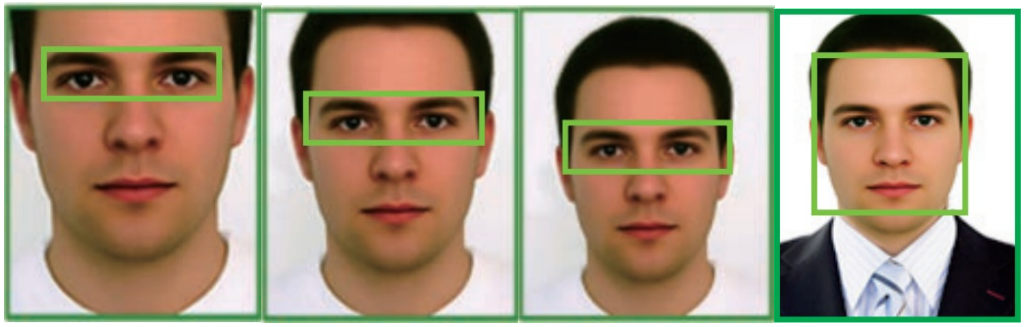
Recommended Registration and Verification Position



Recommended Procedures (as shown in the left image): During registration and verification procedures, the position of device should not be changed to ensure high verification preciseness. If it is necessary to move the device, its vertical height should not be changed.

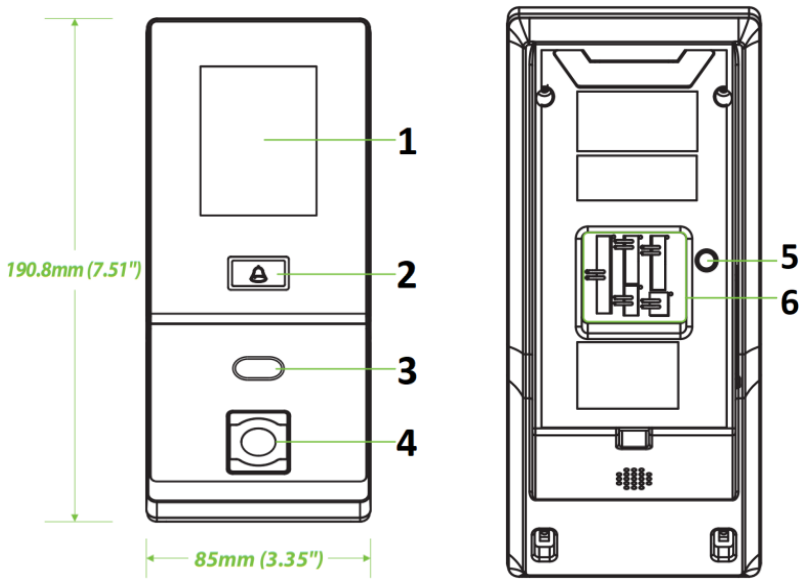
2) Registration

a. During registration, it is required to adjust your upper body to fit your eyes into the green frame on the screen.
b. During verification, it is required to show your face in the center of the screen and fit your face into the green frame in the screen.

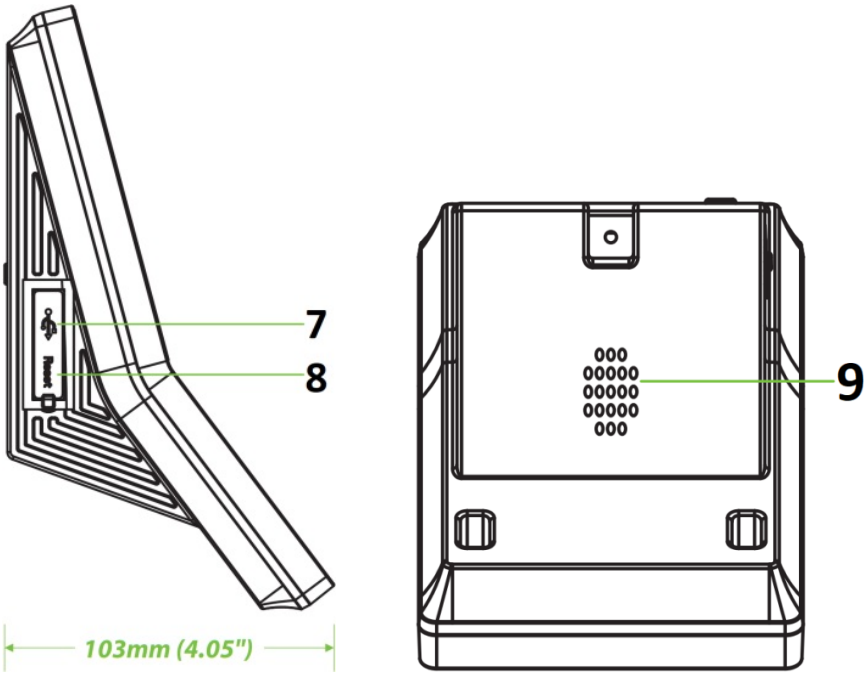


Device Overview

Front **Back**



Left Side **Bottom**



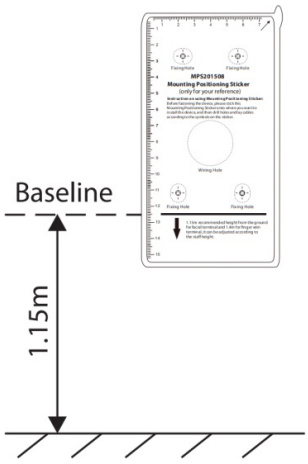
1. 2.8″ Touch Screen
2. Doorbell
3. Camera
4. Card Reading Area & QR Code Scanner
5. Tamper Switch
6. Terminal Block
7. USB Port
8. Reset Button
9. Speaker

Device Installation

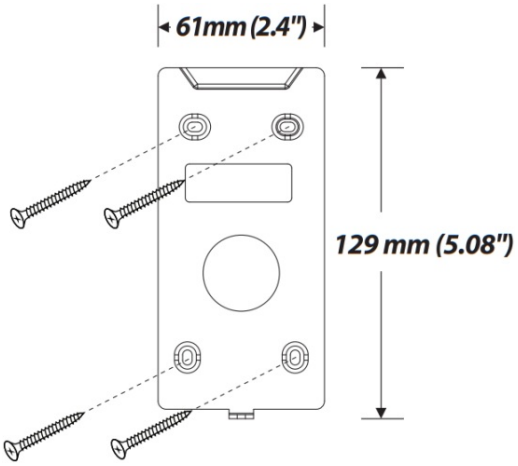
Installation on the wall

1. Attach the mounting template sticker to the wall, and drill holes according to the mounting paper.
2. Fix the back plate on the wall using the wall mounting screws.
3. Attach the device to the back plate.
4. Fasten the device to the back plate with a security screw.

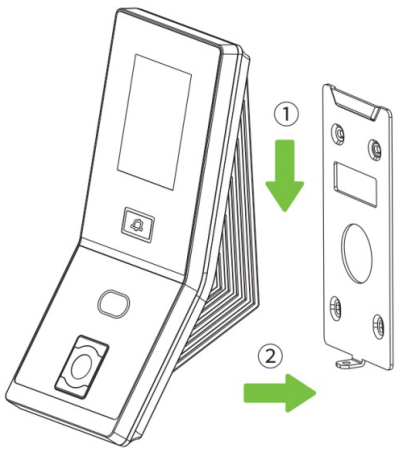
(1)



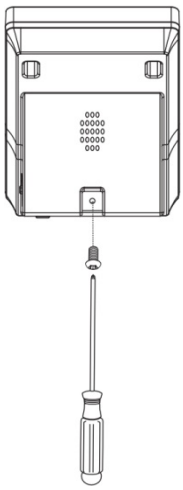
(2)



(3)

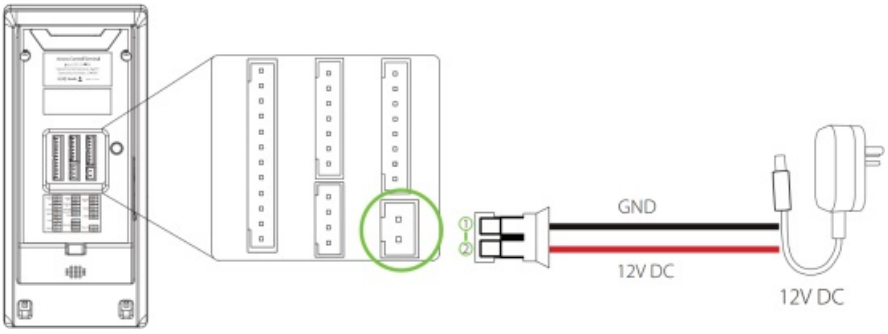


(4)

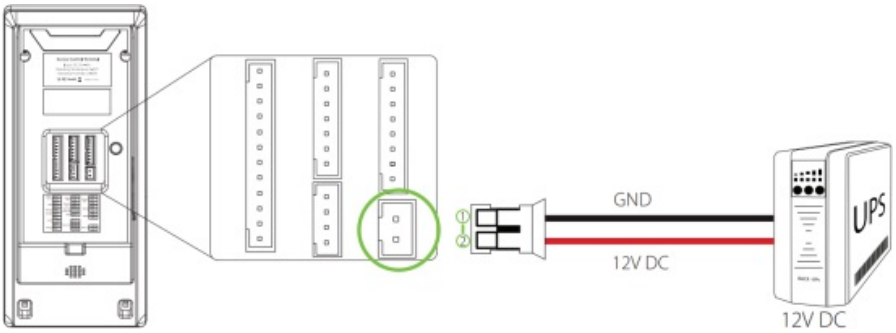


Power Connection

Without UPS



With UPS (Optional)



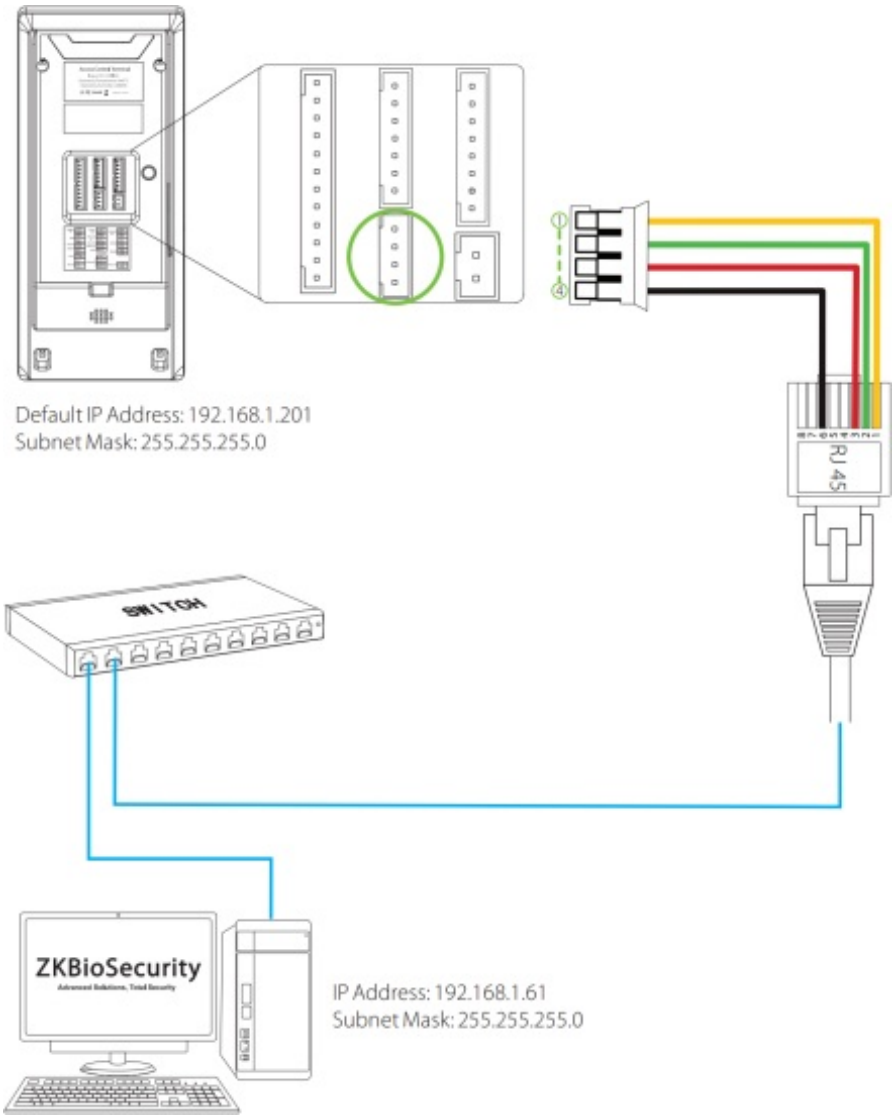
Recommended AC Adapter

- Recommended AC Adapter: **12V, 3A**
- To share the power with other devices, use an AC Adapter with higher current ratings

Ethernet Connection

LAN Connection

Connect the device and the software over an Ethernet cable. An example is shown below:



DESCRIPTION	WIRE	
RJ45-1	Yellow	
RJ45-2	Green	
RJ45-3	Red	
RJ45-6	Black	

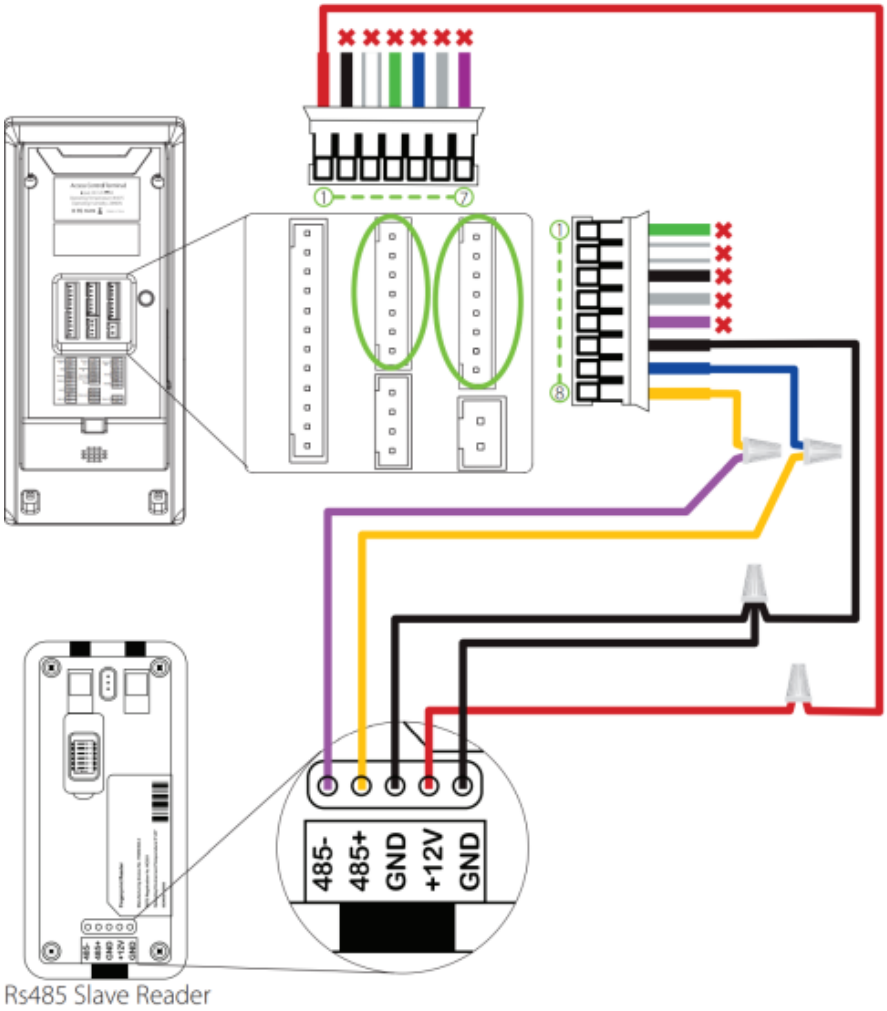
Note:

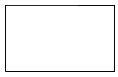
In LAN, the IP Addresses of the Server (PC) and the device must be in the same network segment when connecting to the ZKBioSecurity software.

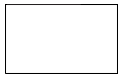
Click **[Comm.] > [Ethernet] > [IP Address]**, enter the IP address and click **[OK]**.

RS485 Connection

Rs485 Slave Reader Connection



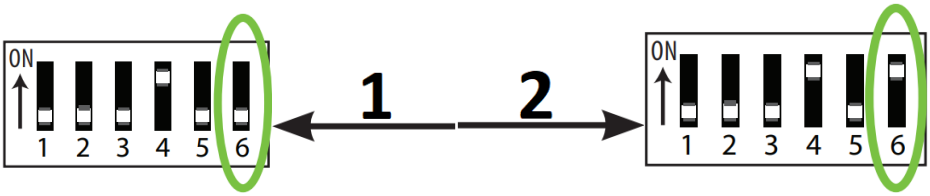
DESCRIPTION	WIRE	
+12V	Red	
GND ✕	Black	
IWD0 ✕	White	
IWD1 ✕	Green	
RLED ✕	Blue	
GLED ✕	Gray	
BEEP ✕	Purple	

DESCRIPTION	WIRE	
WD0 ✕	Green	
WD1 ✕	White	
GND ✕	Black	
RXD ✕	Gray	
TXD ✕	Purple	
GND	Black	
485A	Blue	
485B	Yellow	

✕ Do not use

DIP Settings

1. There are six DIP switches on the back of RS485 slave reader, switches 1 to 4 are for RS485 address, switch 5 is reserved, and switch 6 is for reducing noise on a long RS485 cable.
2. If the RS485 slave reader is powered from the terminal, the length of wire should be less than 100 meters or 330 ft.
3. If the cable length is more than 200 meters or 600 ft., the number 6 switch should be turned ON as shown below.

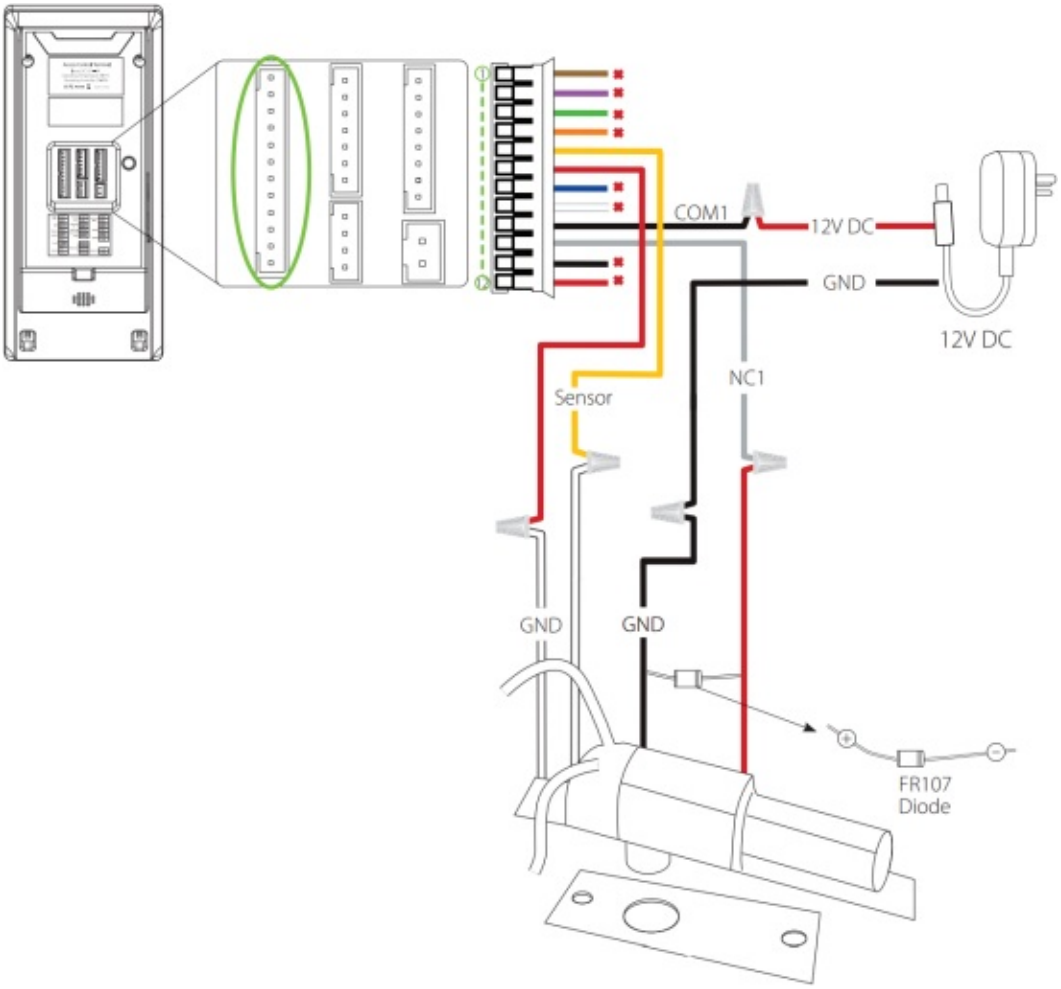


1. Distance: Less 200 meters
2. Distance: More than 200 meters

Lock Relay Connection

The system supports both **Normally Opened Lock** and **Normally Closed Lock**. The **NO Lock** (Normally Opened when powered) is connected with '**NO**' and '**COM**' terminals, and the **NC Lock** (Normally Closed when powered) is connected with '**NC**' 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:

Device Not Sharing Power with the Lock



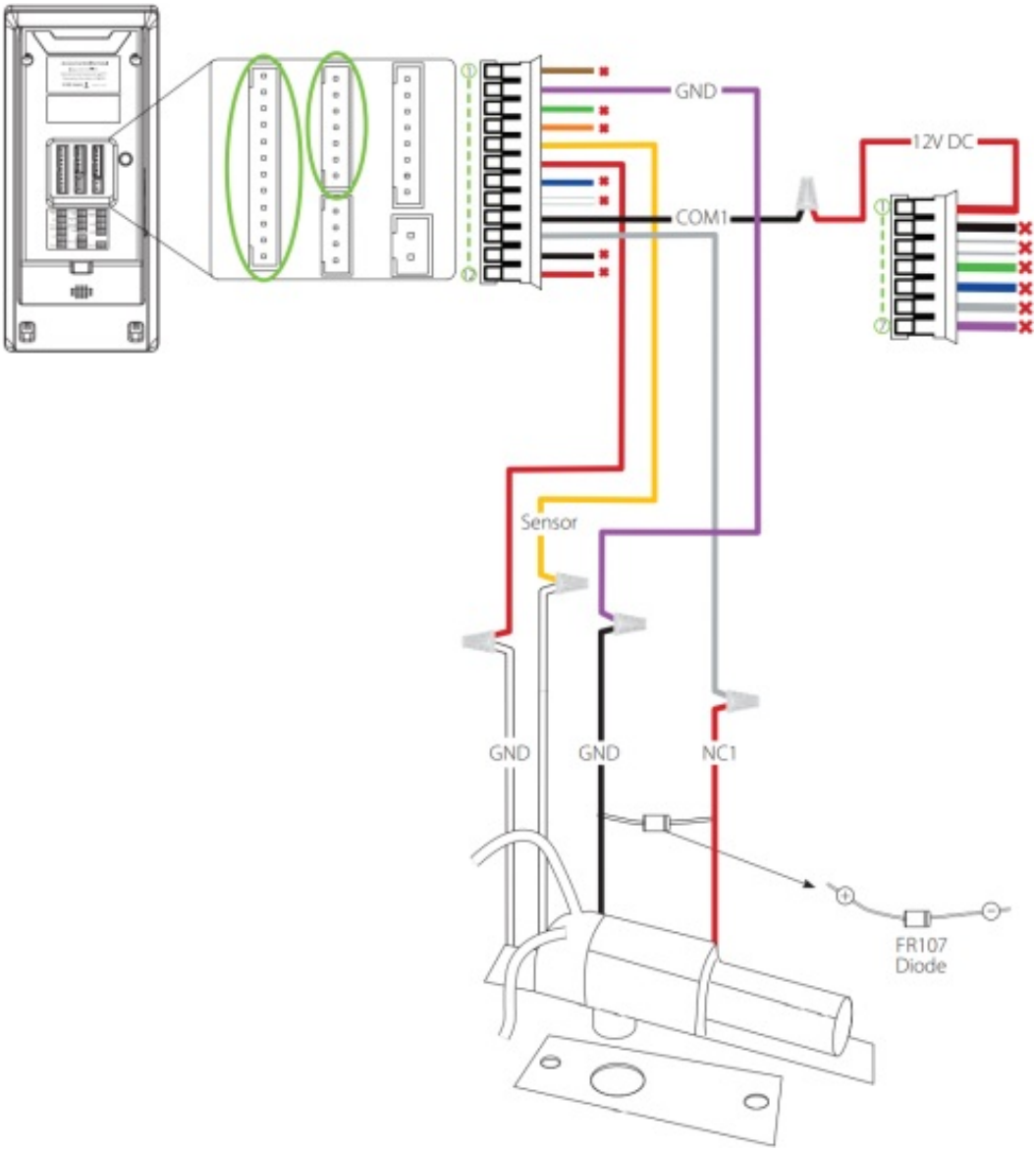
Normally Closed Lock

DESCRIPTION	WIRE	
AUX ✕	Brown	
GND ✕	Purple	
BELL- ✕	Green	
BELL+ ✕	Orange	
SEN	Yellow	
GND	Red	
BUT ✕	Blue	
NO1 ✕	White	
COM1	Black	
NC1	Gray	
AL- ✕	Black	
AL+ ✕	Red	

✕ Do not use

⚠ Do not reverse the polarities.

Device Sharing Power with the Lock



Normally Closed Lock

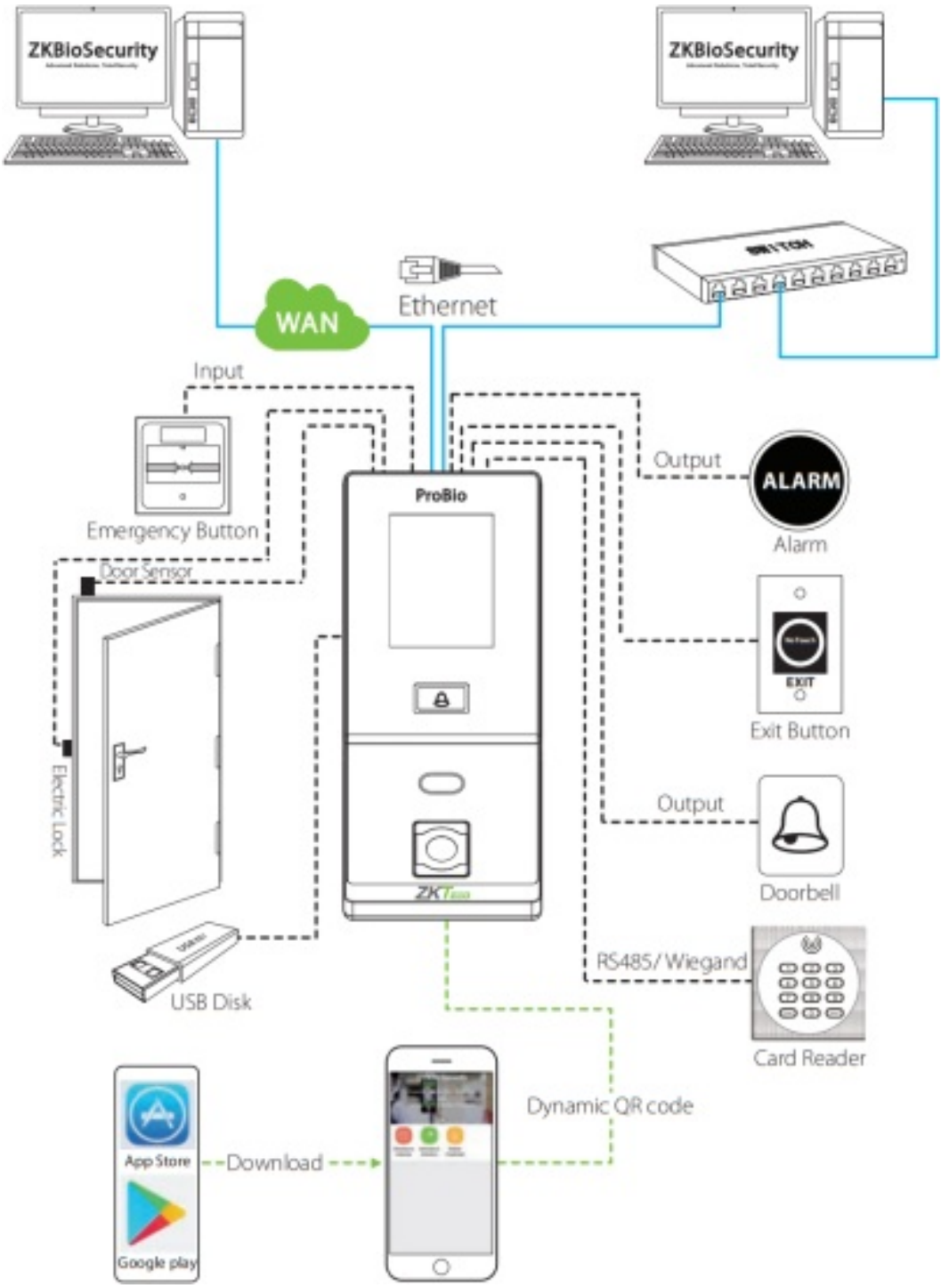
DESCRIPTION	WIRE	
AUX	Brown	
GND	Purple	
BELL-	Green	
BELL+	Orange	
SEN	Yellow	
GND	Red	
BUT	Blue	
NO1	White	
COM1	Black	
NC1	Gray	
AL-	Black	
AL+	Red	

DESCRIPTION	WIRE	
+12V	Red	
GND	Black	
IWD0	White	
IWD1	Green	
RLED	Blue	
GLED	Gray	
BEEP	Purple	

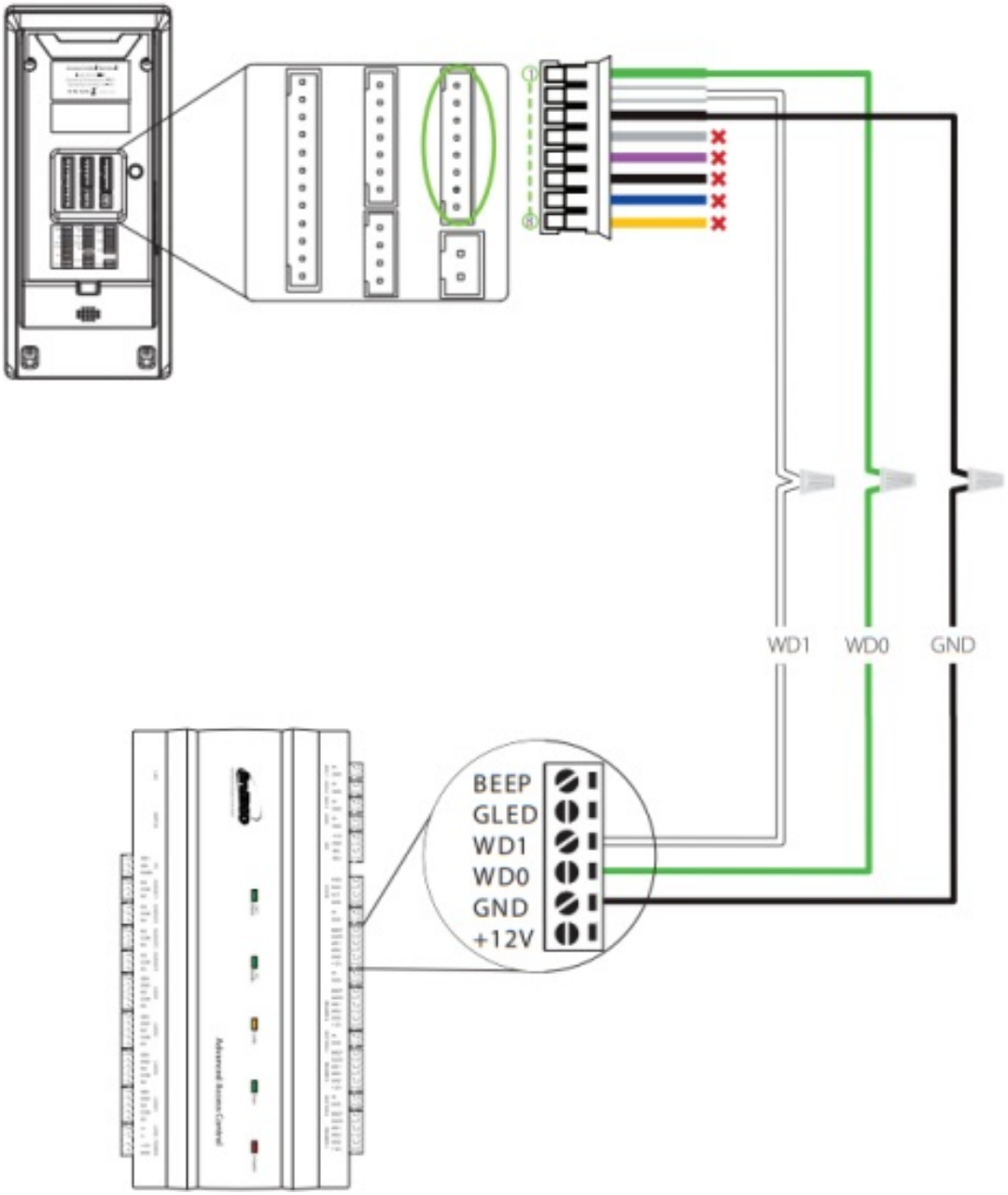
Do not use

Do not reverse the polarities.

Standalone Installation



Wiegand Output Connection


WD1
WD0
GND
BEEP
GLED
WD1
WD0
GND
+12V

DESCRIPTION	WIRE	
WD0	Green	
WD1	White	
GND	Black	
RXD ✖	Gray	
TXD ✖	Purple	
GND ✖	Black	
485A ✖	Blue	
485B ✖	Yellow	

✖ Do not use

Device Operation

User Registration

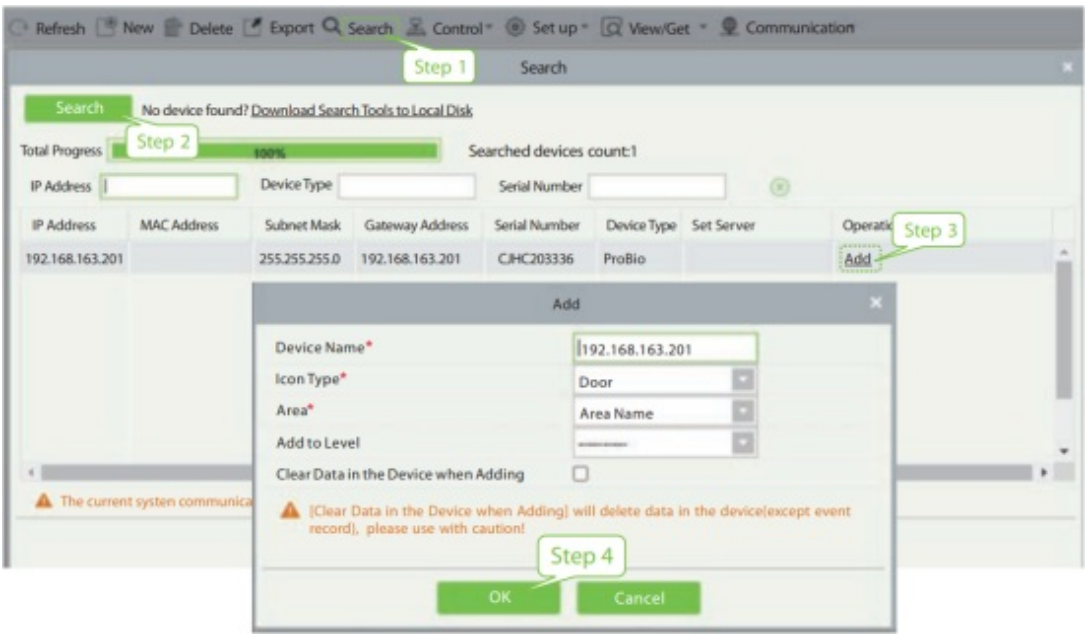
When there is no Super Administrator set in the device, click on ⌨ to enter the menu. Add a new user and set the User Role to Super Admin. The system will request the Administrator's verification before entering the menu. It is recommended to register a Super Administrator initially for security purposes.

Method 1: Register on the device

Tap on ⋮⋮⋮ > **[User Mgt.] > [New User]** to register a new user. The options include entering the User ID and Name, setting User Role, registering Face, Card Number, Password, adding User Photo, and setting Access Control role.

Method 2: Register on ZKBioSecurity software

Please set the IP Address and Cloud Service Server Address in the **Comm.** menu option on the device.
1. Click **[Access]>[Device]>[Device]>[Search]** to search the device on the software. When an appropriate Server Address and port is set on the device, the searched devices will be displayed automatically.



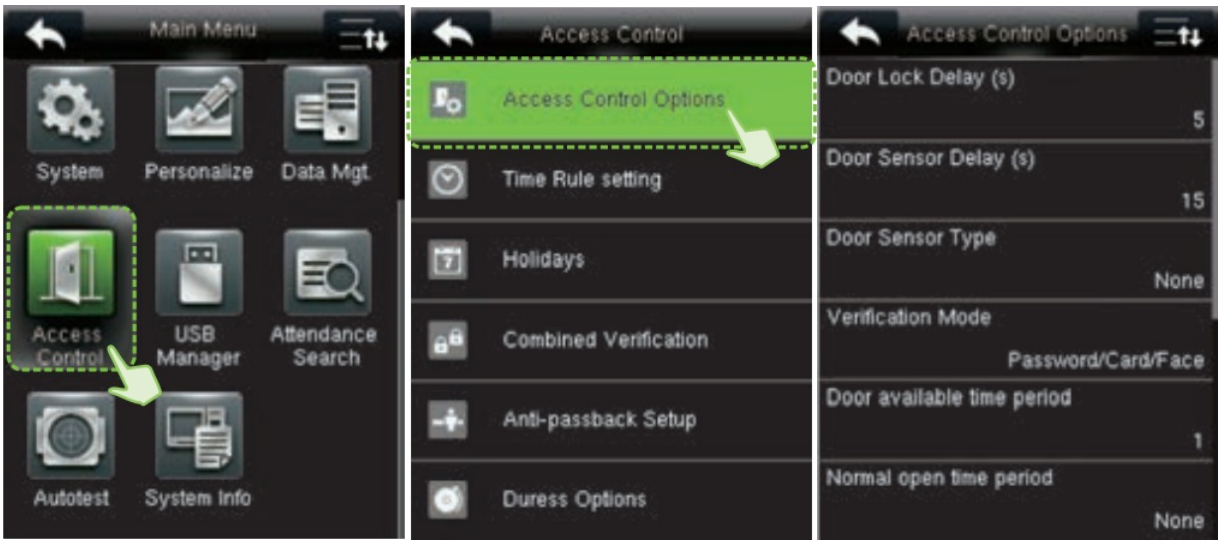
2. Click **[Add]** in the operation column, a new window will pop-up. Select the Icon type, Area, and Add to Level from each drop-down and click **[OK]** to add the device.
3. Click **[Personnel] > [Person] > [New]** and fill in all the required fields to register a new user in the software.
4. Click **[Access] > [Device] > [Control] > [Synchronize All Data to Devices]** to synchronize all the data to the device including the new users.
For more details, please refer the ZKBioSecurity User Manual.

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 Setting]** to set the Server Address and Server Port, 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 Settings



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

QR Code as the Mobile Credential

The device can recognize the QR code image on the ZKBioSecurity Mobile APP captured by the QR code scanner, making it easy to access without contact.
Please set the IP Address and Cloud Service Server Address in the **COMM.** menu option on the device.

1. Mobile APP Configuration

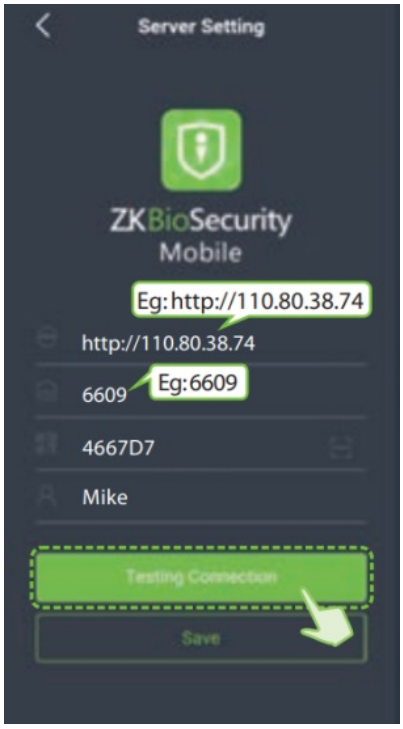
After downloading and installing the , the user needs to set the Server before login.
a. On the Server, choose **[System] > [Authority Management] > [Client Register]** to add a registered App client.
b. Open the App on the Smartphone. On the login screen, tap **[Server Setting]** and type the IP Address or the Domain Name of the Server, and its Port Number.
c. Tap the QR Code icon to scan the QR code of the new App client. After the client is identified successfully, set the Client Name and tap **[Testing Connection]**.
d. After the network is connected successfully, tap **[Save]**.

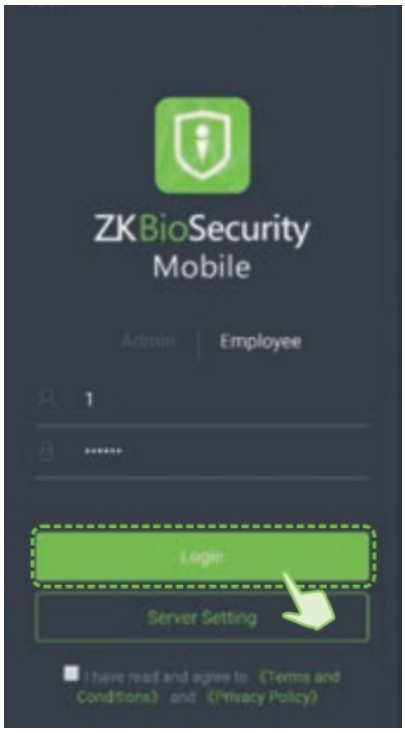
2. Employee Mobile Login

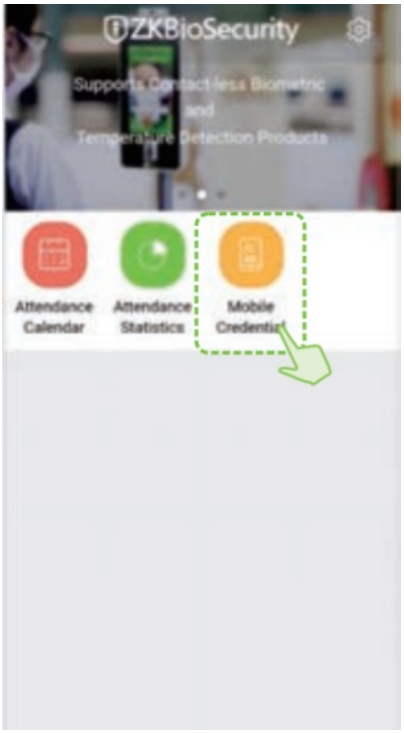
The Mobile Credential function is only valid when logging in as an employee. Tap on Employee to switch to Employee Login screen. Employees can login with the Personnel ID in **[Personnel] > [Personnel] > [Person]** and self-service password. The default self-service password is **123456**.

3. Scan the QR Code

Find the access control QR code on the ZKBioSecurity Mobile App. Show the QR code to the QR code scanner of the device. The device prompts that the verification is successful.
Note:
1. The user must have a card number registered in advance on the device or on the software.
2. When scanning, the QR code and the scanner must stay parallel at a distance of 15 to 30cm.
For more details, please refer the **ZKBioSecurity Mobile APP User Manual**.


Server Setting
ZKBioSecurity
Mobile
Eg:http://110.80.38.74
http://110.80.38.74
6609
Eg:6609
4667D7
Mike
Testing Connection
Save


ZKBioSecurity
Mobile
Admin
Employee
1
Login
Server Setting
I have read and agree to (Terms and Conditions) and (Privacy Policy)


ZKBioSecurity
Attendance Calendar
Attendance Statistics
Mobile Credential

Mobile Credential
ZKBioSecurity

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Documents / Resources

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References

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Manuals+,