Manuals+ — User Manuals Simplified.

ZKTECO Face–V3L Speed Fingerprint Access Control

ZKTECO Face-V3L Speed Fingerprint Access Control User Guide

Contents

ZKTECO

ZKTECO Face-V3L Speed Fingerprint Access Control

Specifications

- Near-infrared Flash
- Flash Microphone
- Camera
- 2.4-inch Touchscreen
- Doorbell Button
- Fingerprint Sensor
- Speaker
- Terminal Block

Installation Environment

Please refer to the following recommendations for installation:

- INSTALL INDOORS ONLY
- AVOID GLASS REFRACTION
- AVOID DIRECT SUNLIGHT AND EXPOSURE
- KEEP EFFECTIVE DISTANCE 0.3-1.2m

Device Installation

1. Attach the mounting template sticker to the wall, and drill holes according to the mounting paper.
2. Fix the backplate on the wall using wall mounting screws.

3. Attach the device to the backplate.
4. Fasten the device to the backplate with a security screw.

Standalone Installation

- Alarm
- Door Sensor
- Reader
- Lock
- TCP/IP Power Connection
- Exit Button
- ZKBio Access IVS
- 12V ratings.
- Ethernet Connection

Connect the device and computer software over an Ethernet cable.

As shown in the example below:

- ZKBio Access IVS
- Default IP address: 192.168.1.201 Subnet mask: 255.255.255.0
- IP address: 192.168.1.130 Subnet mask: 255.255.255.0
- 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 Access IVS software.

Wiegand Reader Connection

- 485A 485B WD0-OUT WD1-OUT INWD0 INWD1 GND 12V-OUT
- WD0 WD1
- Access Controller
    - WD0 WD1 GND +12V

Wiegand Reader

Note: 485A and 485B can be connected to the Barrier gate or the 485 Reader, separately, but cannot be connected to the gate and reader at the same time.

RS485 Connection

- 485A 485B WD0-OUT WD1-OUT INWD0 INWD1 GND 12V-OUT
- 485+ 485GND +12V
- 485 Reader

Door Sensor, Exit Button, Alarm & Auxiliary Connection

- ExitButton
- NC COM NO SEN GND BUT AUX GND BELL+ BELLALARM+ ALARM-
- Door Sensor
- Smoke Detector
- NO COM
- Alarm Power
- Alarm

Lock Relay Connection

The system supports Normally Opened Lock and Normally Closed Lock. The NO LOCK (normally unlocked when power-on) is connected with 'NO' and 'COM' terminals, and the NC LOCK (normally locked when power-on) is connected with 'NC' and 'COM' terminals. Take NC Lock as an example below:

- Device not sharing power with the lock
- Device sharing power with the lock

DC12V

- +12V GND
- DC12V
- +12V GND
- Normally Closed Lock
- FR107
- DC12V Maximum 30V 3A input.
- NC COM NO SEN GND BUT AUX GND BELL+ BELLALARM+ ALARM-
- FR107
- Normally Closed Lock

USB Connection

- The device supports the connection of a KF1000-U reader and USB disk.
- KF1000-U Reader
- KF1000-U For more details, please refer to the KF1000-U User Manual.
- USB Disk
- USB Disk For more details, please refer to the SpeedFace-V3LUser Manual.
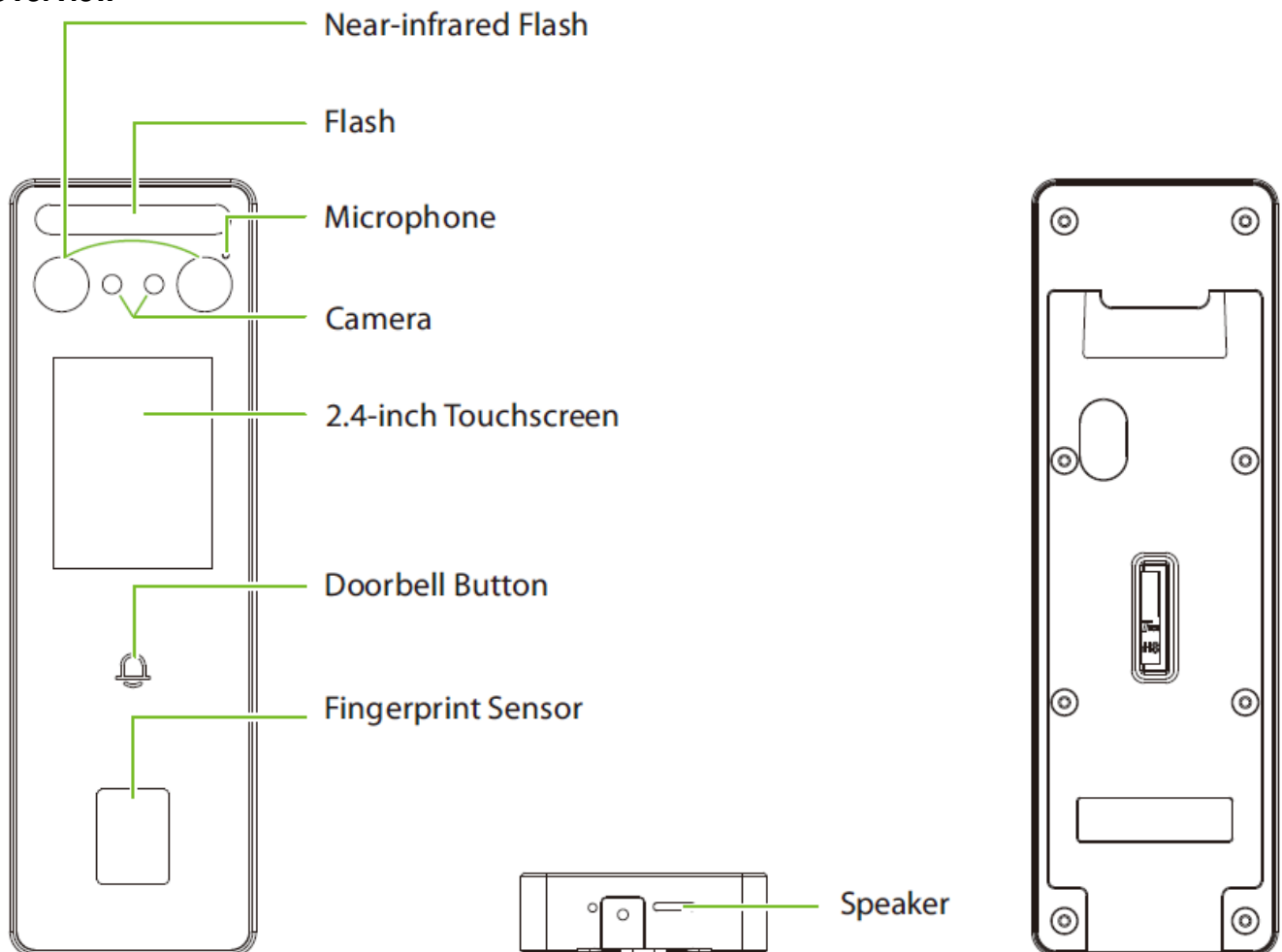
User Registration

1. Method 1: Register on the Device
2. Method 2: Register on ZKBio Access IVS Software
    1. Please set the IP address and cloud service server address in the Comm. Menu option on the device.
    2. Click [Attendance] > [Attendance Device] > [Authorized Device] to search the
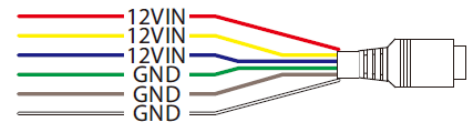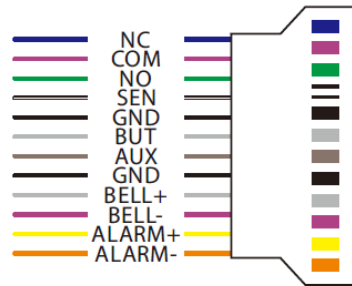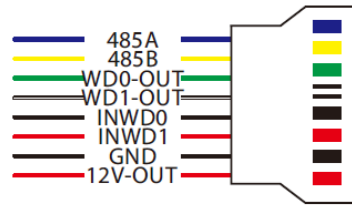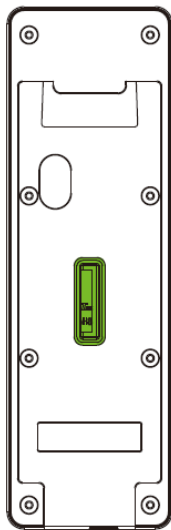
FAQ

- Q: Can the device be installed outdoors?

  A: No, the device should be installed indoors only.
- Q: What is the recommended installation distance?

  A: The recommended installation distance is between 0.3 1.2 meters.
- Q: How do I connect the device to the computer software?

  A: You can connect the device and computer software over an Ethernet cable.
- Q: Can I connect both the gate and reader to 485A and 485B?

  A: No, 485A and 485B can be connected to the Barrier gate or the 485 Reader separately, but not to both at the same time.
- Q: How do I register users?

  A: There are two methods for user registration. You can either register on the device itself or register on the ZKBio Access IVS software.

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

Terminal Block

485A
485B
WD0-OUT
WD1-OUT
INWD0
INWD1
GND
12V-OUT

NC
COM
NO
SEN
GND
BUT
AUX
GND
BELL+
BELL-
ALARM+
ALARM-

12VIN
12VIN
12VIN
GND
GND
GND

TX+
TX-
RX+
RX-

Installation Environment

Please refer to the following recommendations for installation

INSTALL
INDOORS ONLY

AVOID GLASS
REFRACTION

AVOID DIRECT
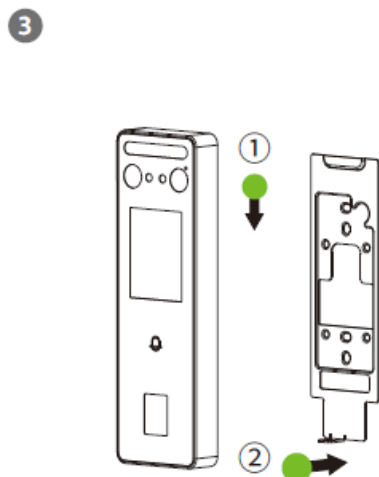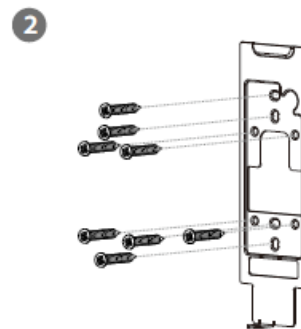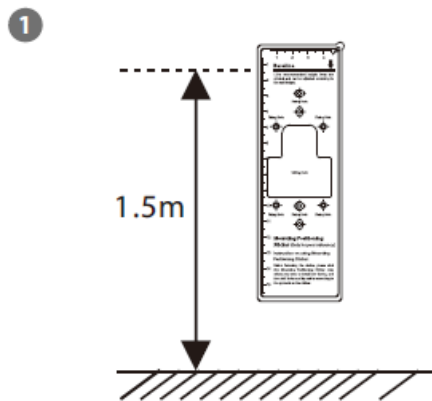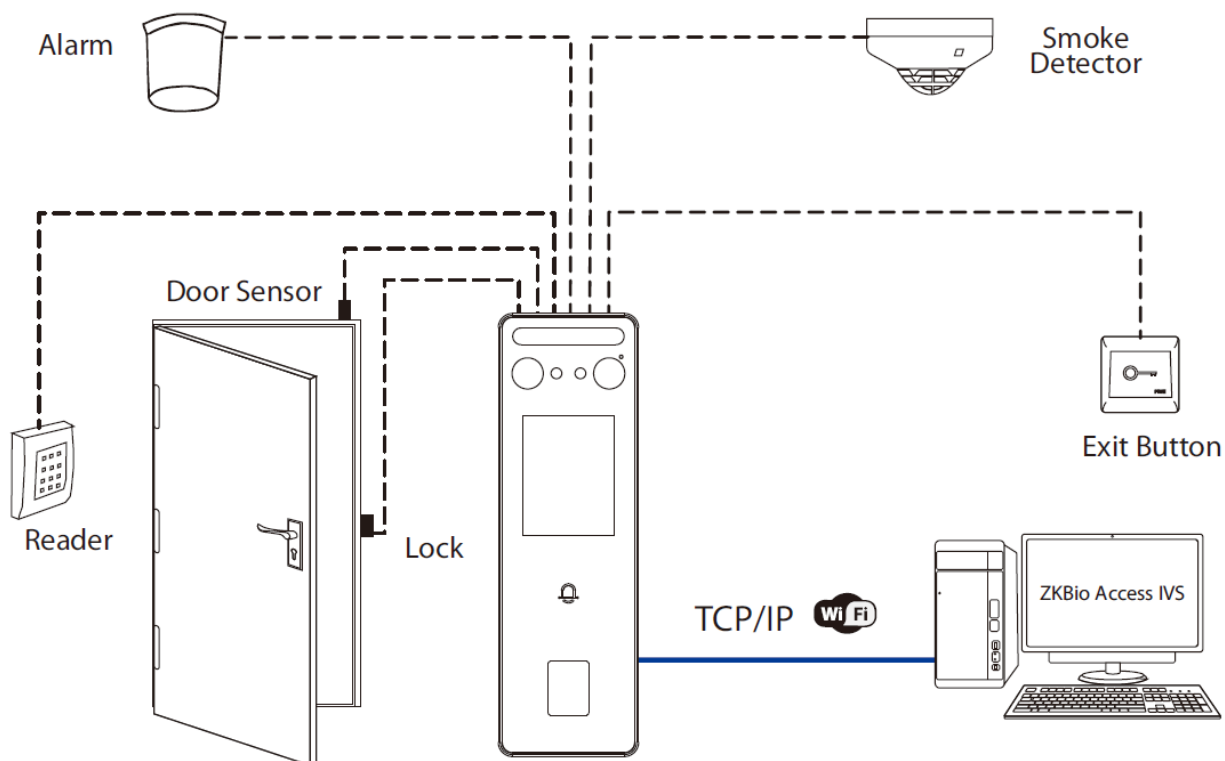SUNLIGHT
AND EXPOSURE
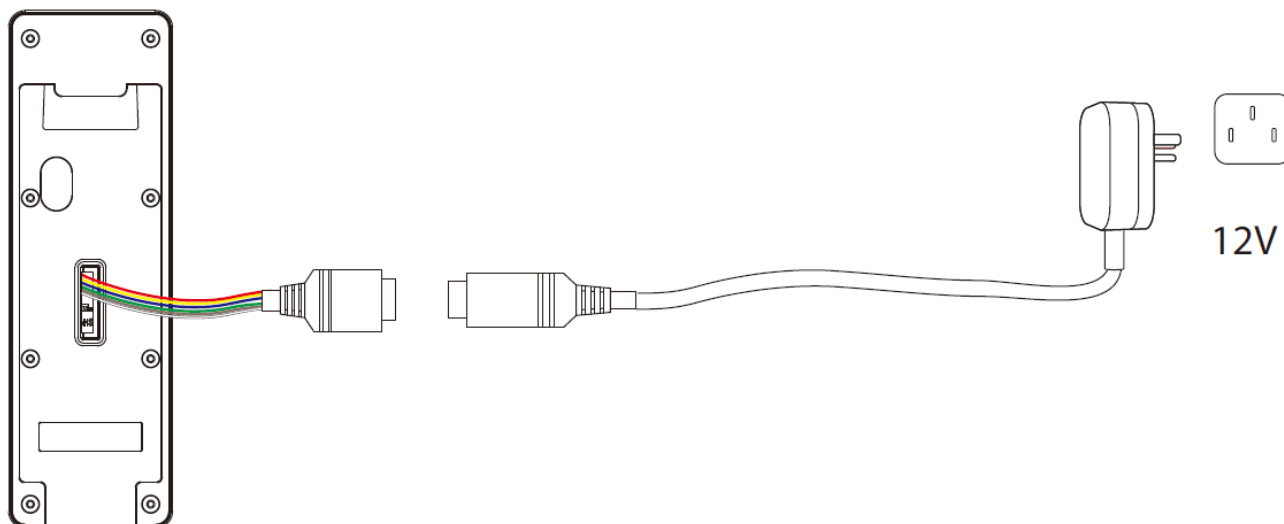
KEEP EFFECTIVE
DISTANCE
0.3-1.2m

Device Installation

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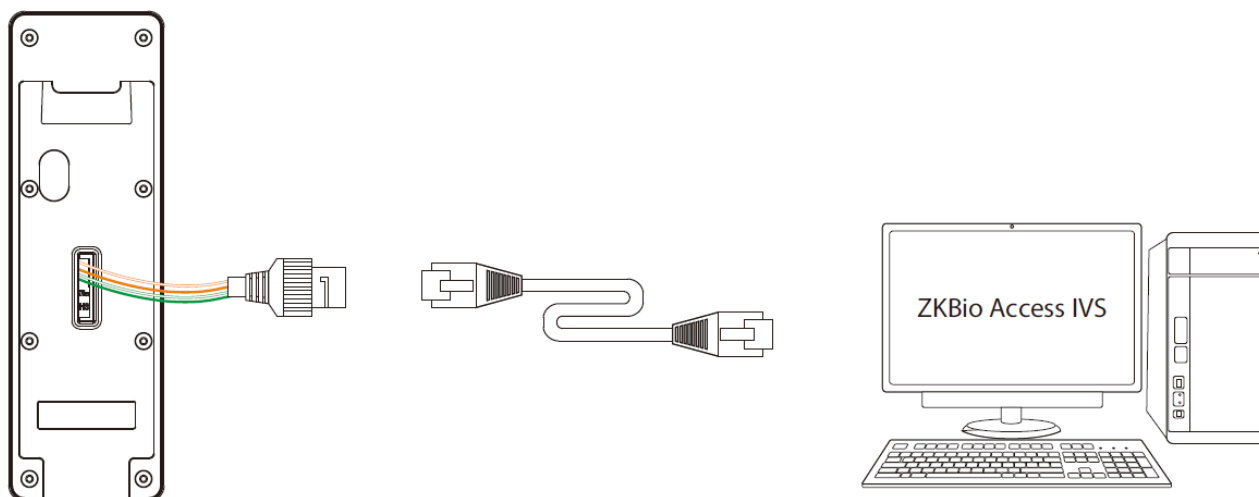4. Fasten the device to the backplate with a security screw
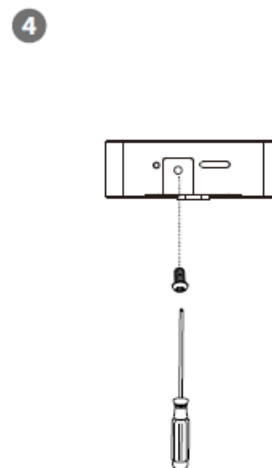
Standalone Installation

Power Connection

Recommended AC Adapter

1. 12V ± 10%, at least 1500mA.
2. To share the power with other devices, use an AC Adapter with higher current ratings

Ethernet Connection

Default IP address: 192.168.1.201
Subnet mask: 255.255.255.0

IP address: 192.168.1.130
Subnet mask: 255.255.255.0

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

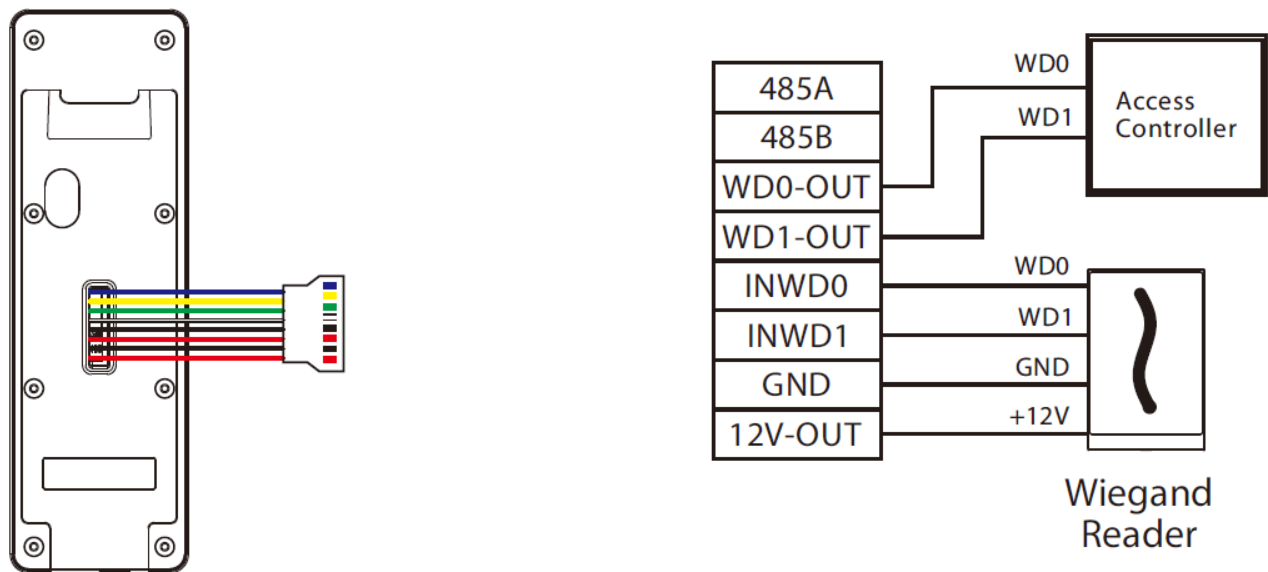Click on [COMM.] > [Ethernet] > [IP Address] , input the IP address and click on [OK].
Note: In LAN, the IP addresses of the server (PC) and the device must be in the same network segment when connecting to the ZKBio Access IVS software.
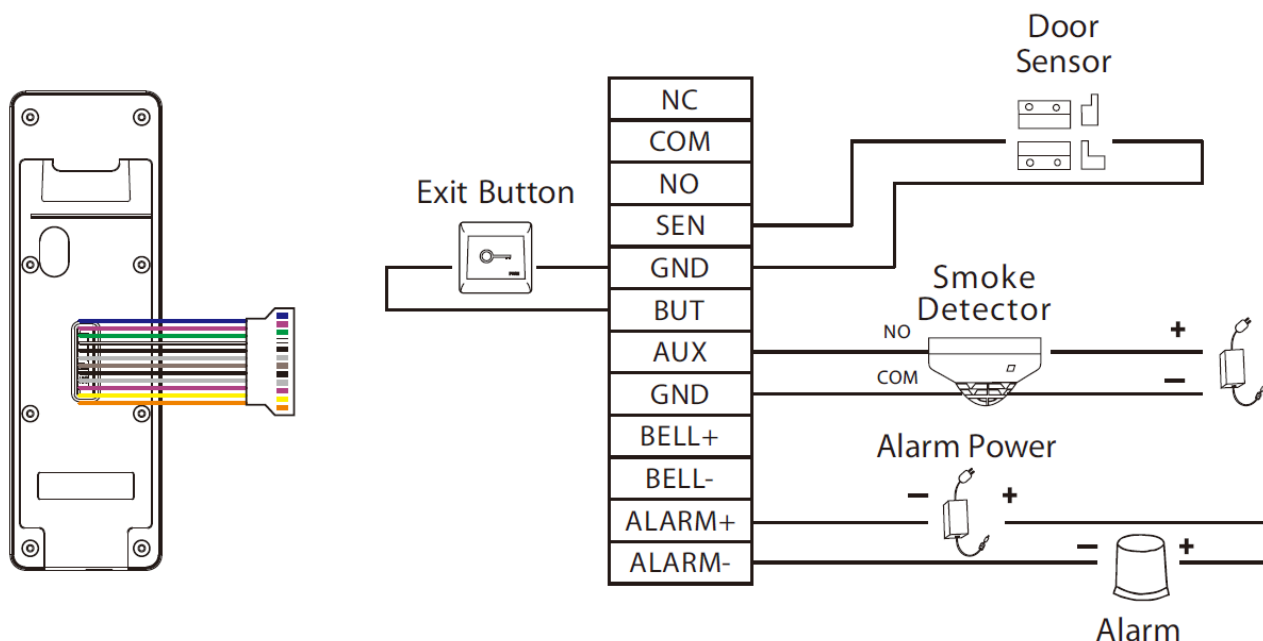
Wiegand Reader Connection
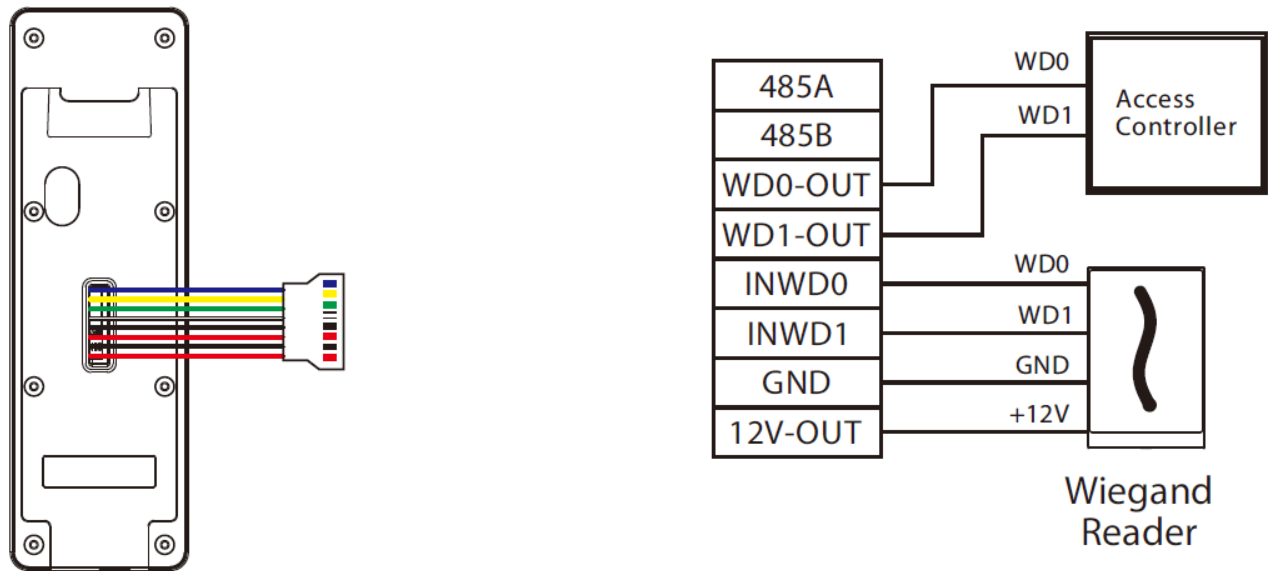
Note: 485A and 485B can be connected to the Barrier gate or the 485 Reader, separately, but cannot be connected to the gate and reader at the same time
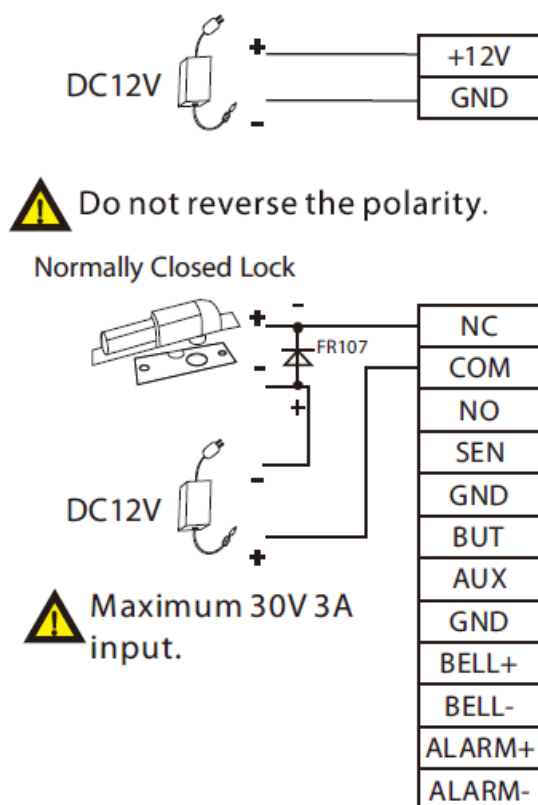
RS485 Connection
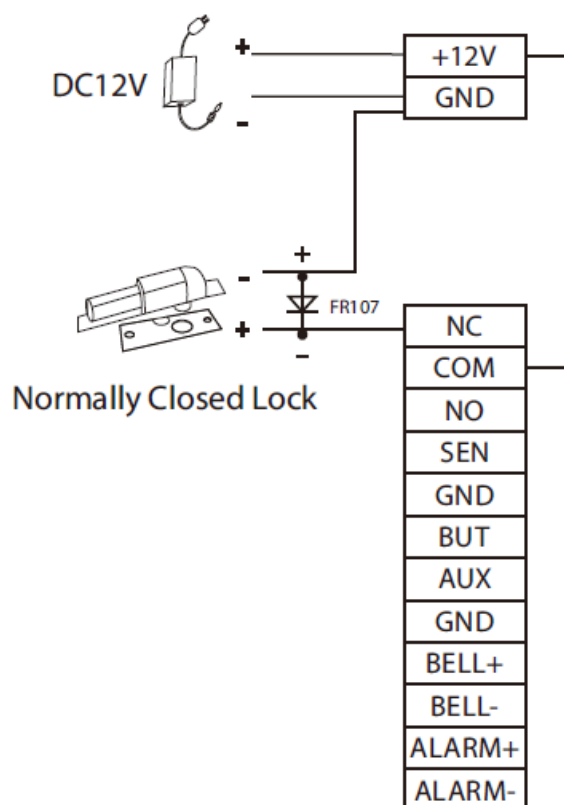

Door Sensor, Exit Button, Alarm & Auxiliary Connection

Door Sensor

NC
COM
NO
SEN
GND
BUT
AUX
GND
BELL+
BELL-
ALARM+
ALARM-

Exit Button

Smoke Detector
NO
COM

Alarm Power

Alarm

Lock Relay Connection

The system supports Normally Opened Lock and Normally Closed Lock. The NO LOCK (normally unlocked when power-on) is connected with 'NO' and 'COM' terminals, and the NC LOCK (normally locked when power-on) is connected with 'NC' and 'COM' terminals. Take NC Lock as an example below:


1) Device not sharing power with the lock

DC12V
+12V
GND

⚠ Do not reverse the polarity.

Normally Closed Lock
FR107
DC12V
⚠ Maximum 30V 3A input.

NC
COM
NO
SEN
GND
BUT
AUX
GND
BELL+
BELL-
ALARM+
ALARM-

2) Device sharing power with the lock

DC12V
+12V
GND

Normally Closed Lock
FR107

NC
COM
NO
SEN
GND
BUT
AUX
GND
BELL+
BELL-
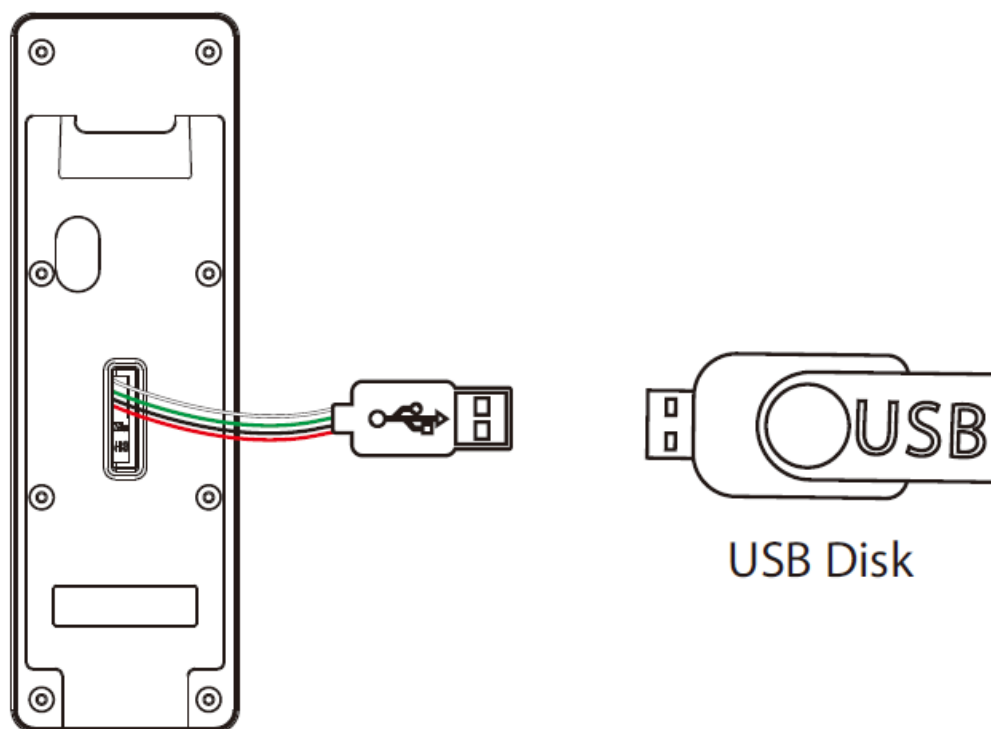ALARM+
ALARM-

USB Connection

The device supports the connection of a KF1000-U reader and USB disk.

KF1000-U Reader
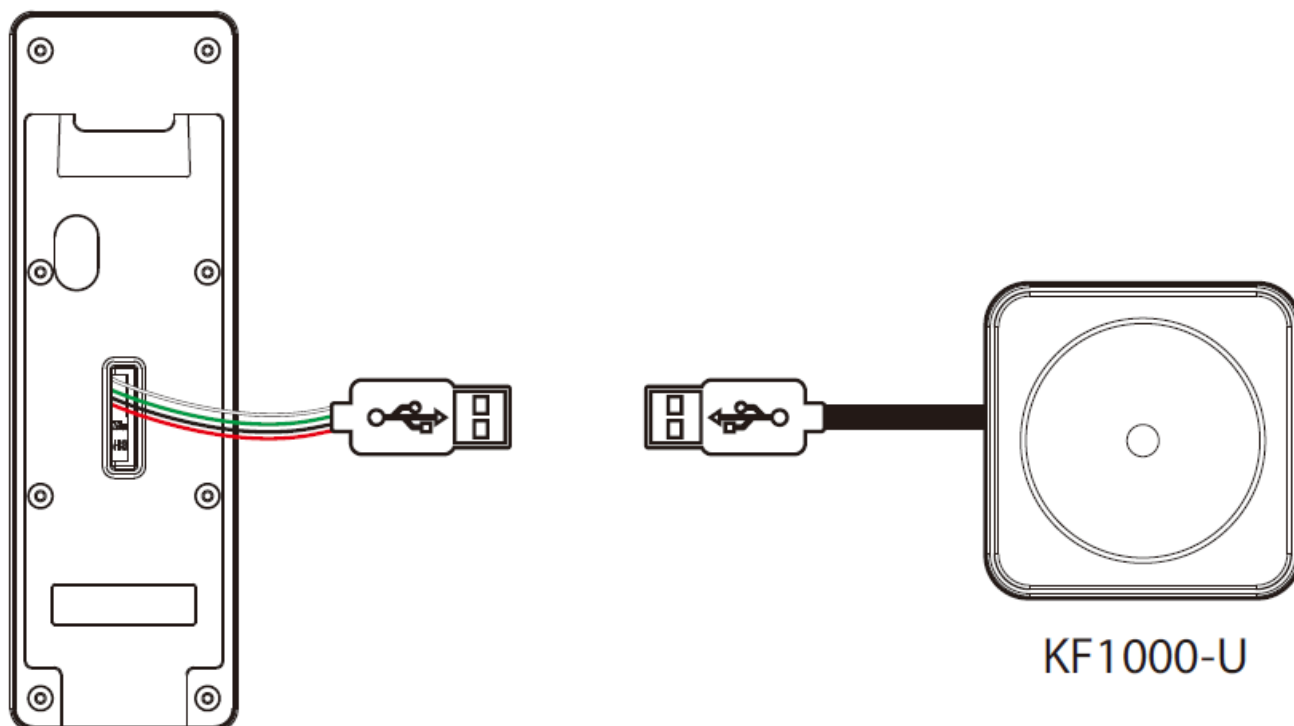
KF1000-U

For more details, please refer to the KF1000-U User Manual.

USB Disk

USB Disk

For more details, please refer to the SpeedFace-V3L User Manual

User Registration

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

Method 1: Registering on the Device

Click on > [User Mgt.] > [New User] to register a new user. The options include entering the user ID and Name, setting the User Role and Access Control Role, and registering Fingerprint, Face, Card Number, and Password.
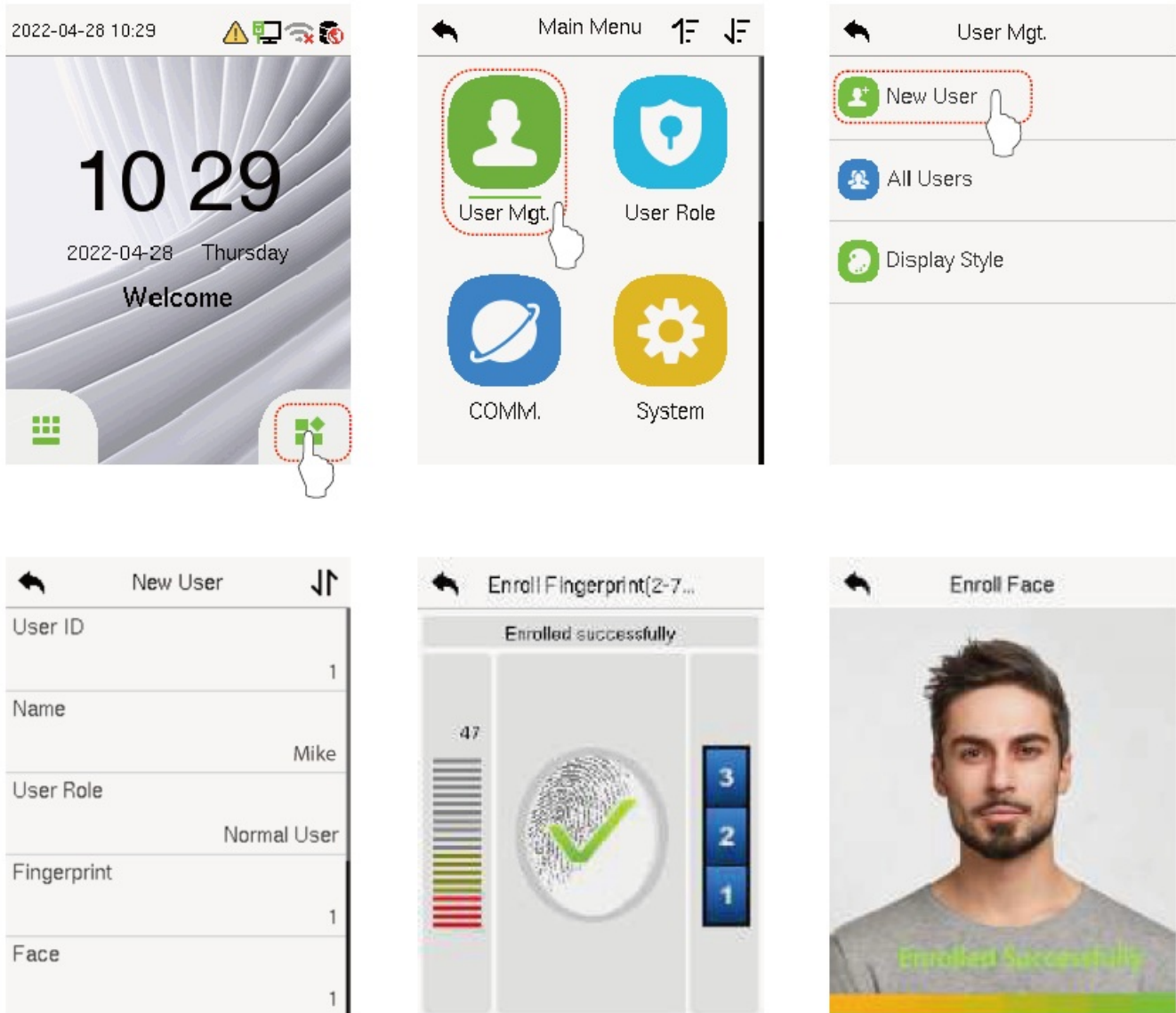
Method 2: Register on ZKBio Access IVS Software

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 for the device on the software. When an appropriate server address and port is set on the device, the searched devices are displayed automatically.
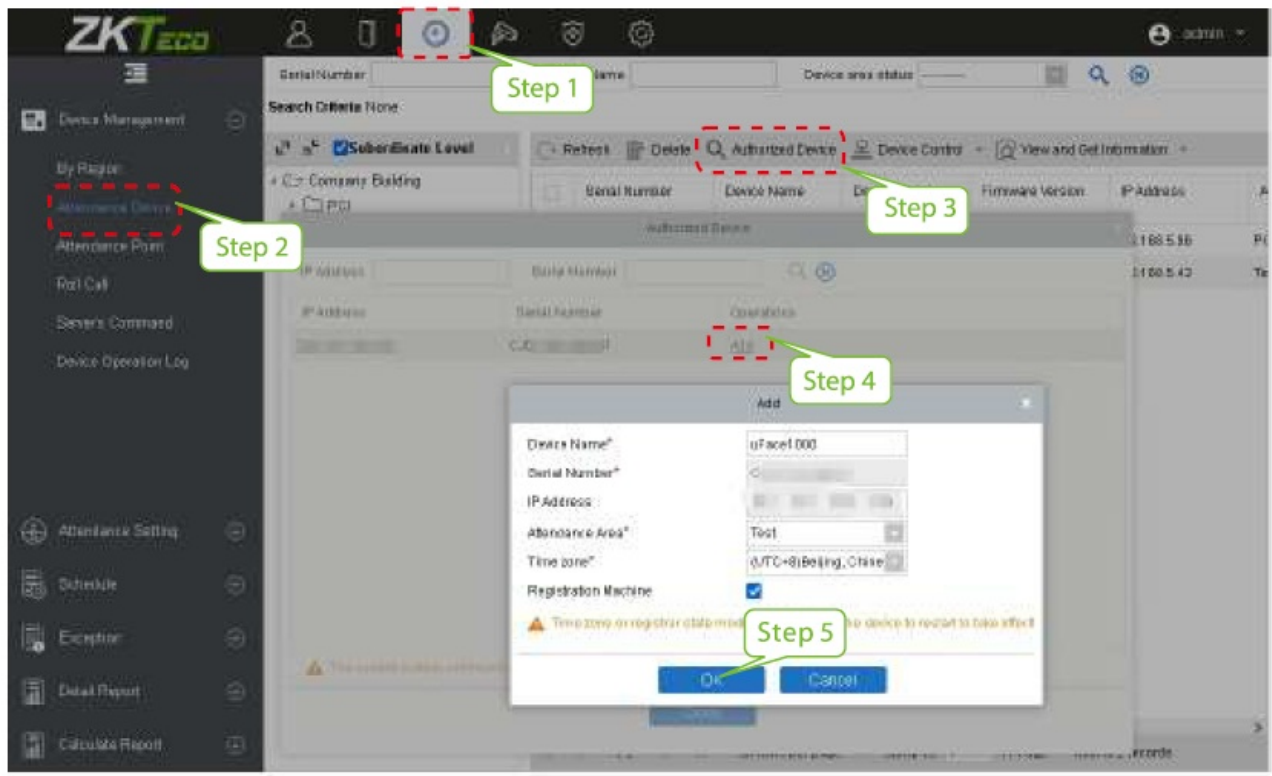
2. Click [Add] in the operation column, a new window will pop up. Select Icon type, Area, and Add to Level from each dropdown and click [OK] to add the device

3. Click [Personnel] > [Person] > [New] and fill in all the required fields to register a New user 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 Access IVS User Manual.

Method 3: Register on the Phone

Once the ZKBio Access IVS software is installed, the users can 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 log onto ''http://Server address: Port/app/v1/adreg'' by the mobile phone to register users.

2. The users will 2. be displayed in [Personnel] > [Pending Review], click [View].
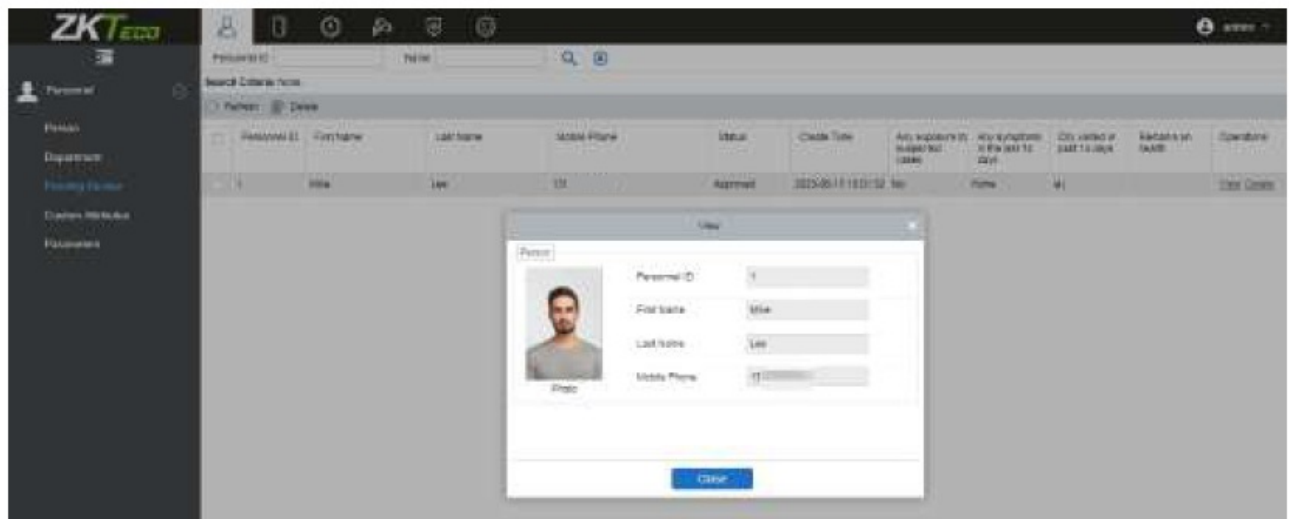
Ethernet and Cloud Server Settings

- 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 Setting] 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.
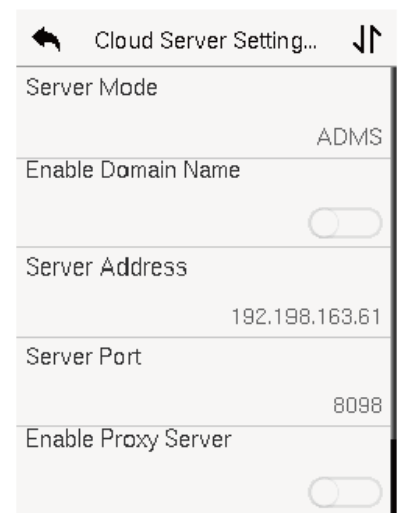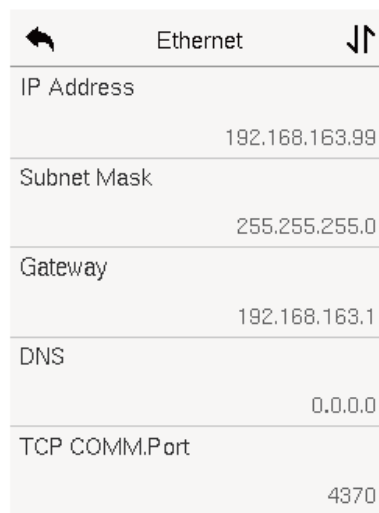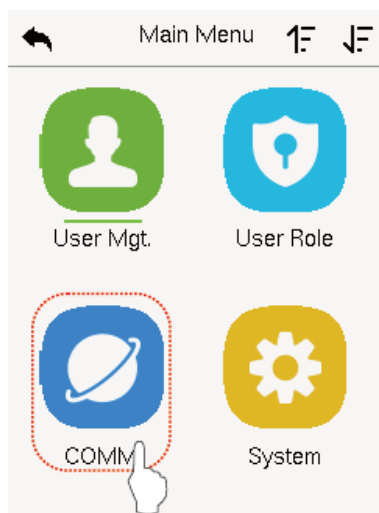
Note:
While pairing the device with ZKBio Access IVS software. Make sure that the option Enable Domain Name is disabled and the correct server address and port are entered. Server Address: Set as the IP address of the ZKBio Access IVS server. Server Port: Set as the service port of ZKBio Access IVS.
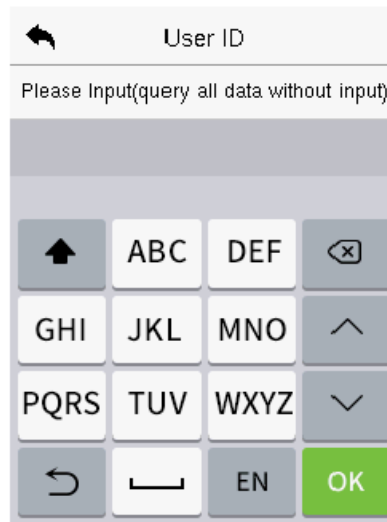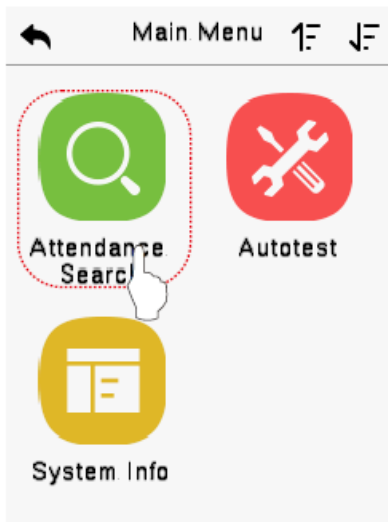
Access Control Setting

Click on to enter the access control m > [Access Control] anagement interface and set relevant parameters of access control
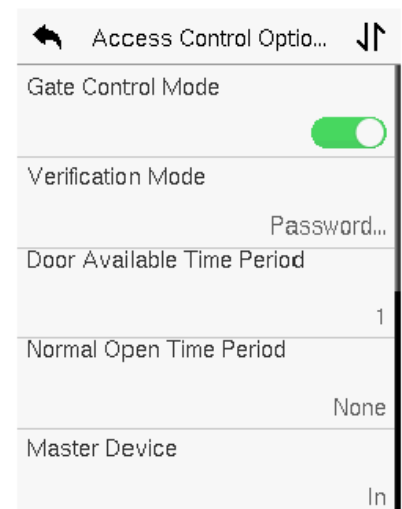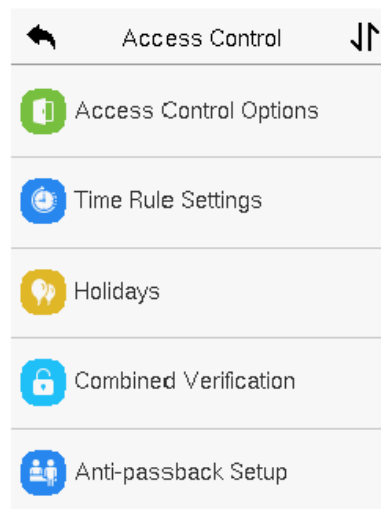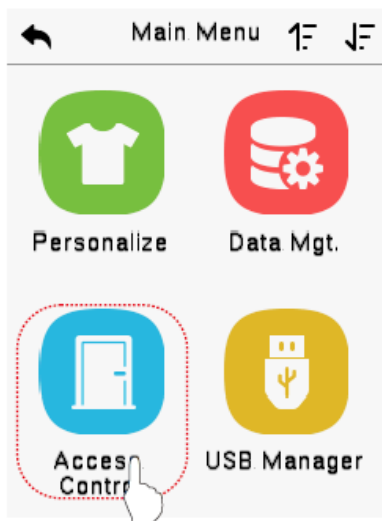
Attendance Record

Click on > [Attendance Record] to enter the record query interface, input the user ID, and select the time range, the corresponding attendance record will be displayed.
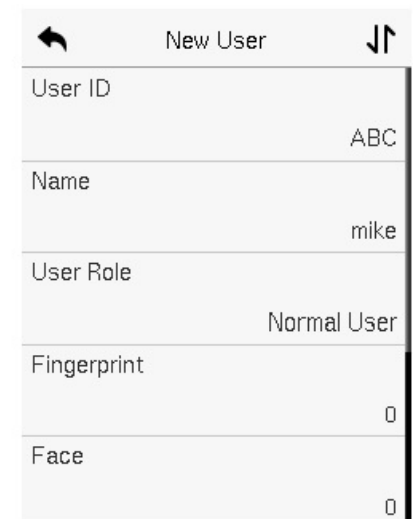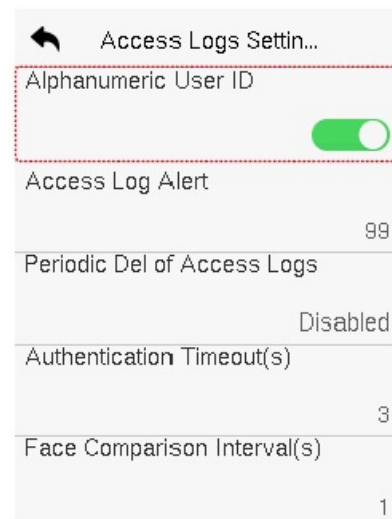
System Setting

Click on > [System] to enter the system interface to set the related system parameters for optimizing the accessibility of the device.
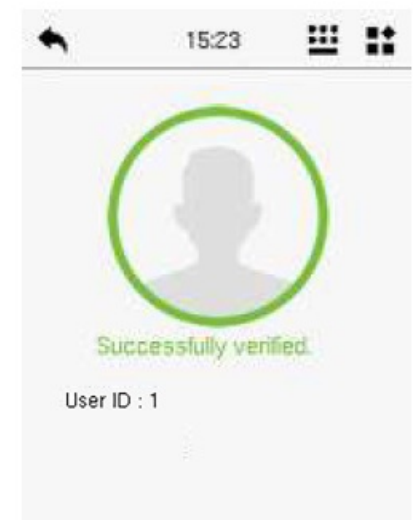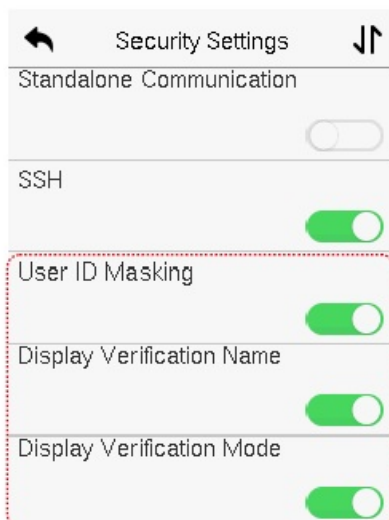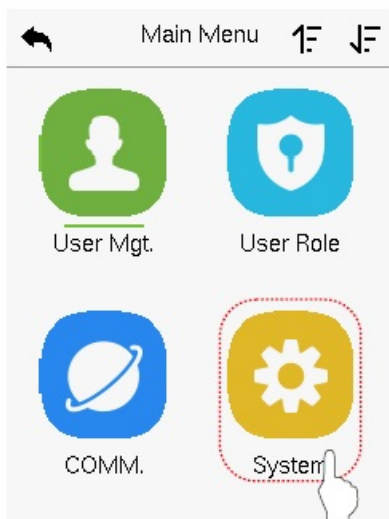
Face			Face			Fingerprint	
1:N Threshold Value	47		Live Detection Threshold	70		1:1 Threshold Value	15
1:1 Threshold Value	63		Anti-spoofing Using NIR	⬤		1:N Threshold Value	35
Face Enrollment Threshold	70		Anti-flicker Mode	50HZ		FP Sensor Sensitivity	Low
Face Pitch Angle	30		Face Algorithm			1:1 Retry Attempts	3
Face Rotation Angle	25		Save Photo as Template	⬤		Fingerprint Image	Always Show

Documents / Resources

ZKTECO Face-V3L Speed Fingerprint Access Control [pdf] User Guide
Face-V3L Speed Fingerprint Access Control, Face-V3L, Speed Fingerprint Access Control,
Fingerprint Access Control, Access Control, Control

References

- **User Manual**