

User Manual

FaceDepot 4A

Date: April 2024

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.



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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.

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

About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-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 the **FaceDepot 4A**.

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

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

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

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

Symbols

Convention	Description
	This implies about the notice or pays attention to, in the manual.
	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.

Table of Contents

1	INSTRUCTION FOR USE	8
1.1	STANDING POSITION, POSTURE AND FACIAL EXPRESSION	8
1.2	FACE TEMPLATE REGISTRATION	9
1.3	FINGER PLACEMENT	9
1.4	STANDBY INTERFACE	10
1.5	VIRTUAL KEYBOARD	11
1.6	VERIFICATION MODE	11
1.6.1	FACIAL VERIFICATION	11
1.6.2	MULTI-FACE TEMPLATE VERIFICATION	13
1.6.3	FINGERPRINT VERIFICATION	15
1.6.4	CARD VERIFICATION ★	18
1.6.5	PASSWORD VERIFICATION	20
1.6.6	COMBINED VERIFICATION	21
2	OVERVIEW	24
2.1	APPEARANCE	24
2.2	CONNECTION CABLES AND WIRING DESCRIPTION	25
2.2.1	CONNECTION CABLES	25
2.2.2	WIRING DESCRIPTION	27
3	INSTALLATION	30
3.1	INSTALLATION ENVIRONMENT	30
3.2	HOW TO INSTALL THE DEVICE ON THE WALL?	30
4	MAIN MENU	32
5	USER MANAGEMENT	34
5.1	ADD USERS	34
5.1.1	REGISTER A USER ID AND NAME	34
5.1.2	SETTING THE USER ROLE	35
5.1.3	REGISTER FINGERPRINT	35
5.1.4	REGISTER FACE	36
5.1.5	REGISTER CARD ★	36
5.1.6	REGISTER PASSWORD	37
5.1.7	ACCESS CONTROL ROLE	37
5.2	SEARCH FOR USERS	38
5.3	EDIT USERS	38
5.4	DELETE USERS	39
5.5	DISPLAY STYLE	39
6	USER ROLE	41
7	COMMUNICATION SETTINGS	42
7.1	NETWORK SETTINGS	42

7.2	SERIAL COMM	43
7.3	PC CONNECTION	44
7.4	CELLULAR DATA NETWORK ★	44
7.5	WI-FI SETTINGS ★	46
7.6	CLOUD SERVER SETTINGS	47
7.7	WIEGAND SETUP	48
7.8	NETWORK DIAGNOSIS	51
8	SYSTEM SETTINGS	53
8.1	DATE AND TIME	53
8.2	ATTENDANCE	54
8.3	FACE PARAMETERS	55
8.4	FINGERPRINT	58
8.5	SECURITY SETTINGS	59
8.6	USB UPGRADE	60
8.7	FACTORY RESET	61
9	PERSONALIZE SETTINGS	62
9.1	INTERFACE SETTINGS	62
9.2	VOICE SETTINGS	63
9.3	BELL SCHEDULES	63
9.4	PUNCH STATES OPTIONS	65
9.5	SHORTCUT KEY MAPPINGS	65
10	DATA MANAGEMENT	67
10.1	DELETE DATA	67
11	ACCESS CONTROL	69
11.1	ACCESS CONTROL OPTIONS	69
11.2	TIME SCHEDULE	71
11.3	HOLIDAY SETTINGS	72
11.4	ACCESS GROUPS	73
11.5	COMBINED VERIFICATION SETTINGS	74
11.6	ANTI-PASSBACK SETUP	75
11.7	DURESS OPTIONS SETTINGS	76
12	USB MANAGER	78
12.1	USB DOWNLOAD	78
12.2	USB UPLOAD	79
12.3	DOWNLOAD OPTIONS	80
13	ATTENDANCE SEARCH	81
14	PRINT SETTINGS	82
14.1	PRINT DATA FIELD SETTINGS	82
14.2	PRINT OPTIONS SETTINGS	82

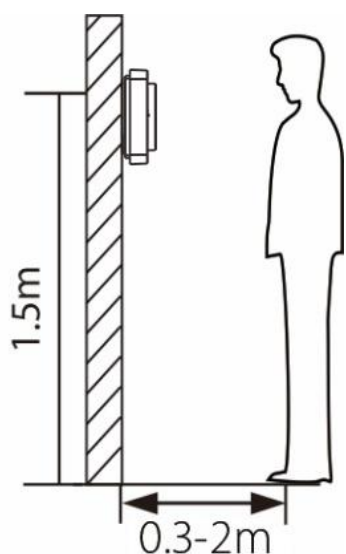
15	WORK CODE	83
15.1	ADD A WORK CODE	83
15.2	ALL WORK CODES	83
15.3	WORK CODE OPTIONS	84
16	AUTOTEST	85
17	SYSTEM INFORMATION	86
APPENDIX 1		87
	REQUIREMENTS OF LIVE COLLECTION AND REGISTRATION OF VISIBLE LIGHT FACE TEMPLATES	87
	REQUIREMENTS FOR VISIBLE LIGHT DIGITAL FACE TEMPLATE DATA	88
APPENDIX 2		89
	PRIVACY POLICY	89
	ECO-FRIENDLY OPERATION	92
	ATTACHMENT 1	94

1 Instruction for Use

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

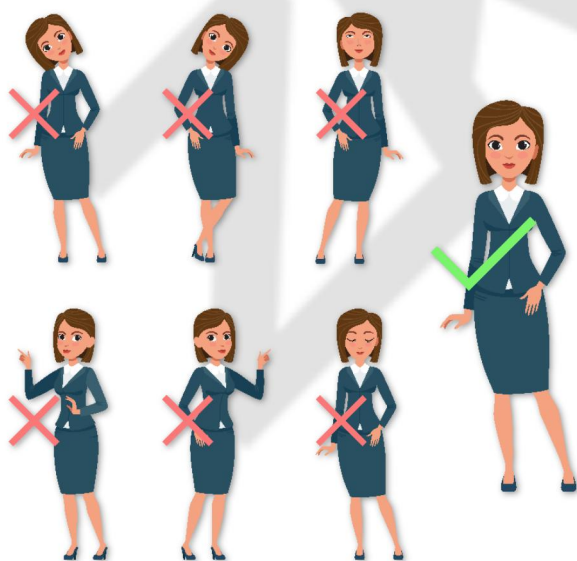
1.1 Standing Position, Posture and Facial Expression

- **The recommended distance**



The distance between the device and a user whose height is in a range of 1.55m to 1.85m is recommended to be 0.3 to 2m. Users may slightly move forward or backward to improve the quality of facial images captured.

- **Recommended Standing Posture and Facial Expression**



Standing Posture



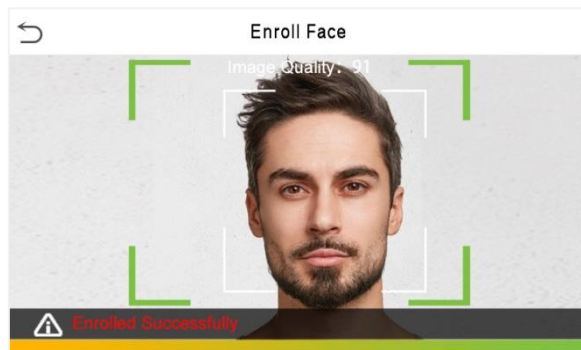
Facial Expression



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

1.2 Face Template Registration

Try to keep the face in the centre of the screen during registration. Please face towards the camera and stay still during face template registration. The screen should look like this:



Correct face registration and authentication method

● Recommendation for registering a face

- When registering a face template, maintain a distance of 40cm to 80cm between the device and the face.
- Be careful not to change your facial expression. (Smiling face, drawn face, wink, etc.)
- If you do not follow the instructions on the screen, the face template registration may take longer or may fail.
- Be careful not to cover the eyes or eyebrows.
- Do not wear hats, masks, sunglasses, or eyeglasses.
- Be careful not to display two faces on the screen. Register one person at a time.
- It is recommended for a user wearing glasses to register both faces with and without glasses.

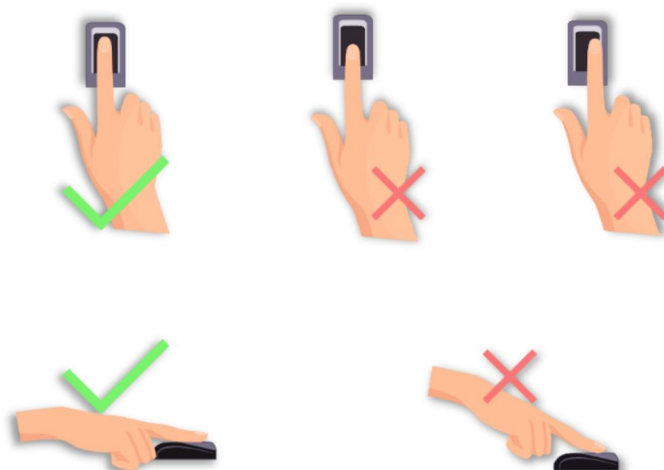
● Recommendation for authenticating a face template

- Ensure that the face appears inside the guideline displayed on the screen of the device.
- If the glasses have been changed, authentication may fail. If the face without glasses has been registered, authenticate the face template without glasses further. If the face with glasses has been registered, authenticate the face with the previously worn glasses.
- If a part of the face is covered with a hat, a mask, an eye patch, or sunglasses, authentication may fail. Do not cover the face, allow the device to recognize both the eyebrows and the face.

1.3 Finger Placement

Recommended fingers: Index, middle, or ring fingers.

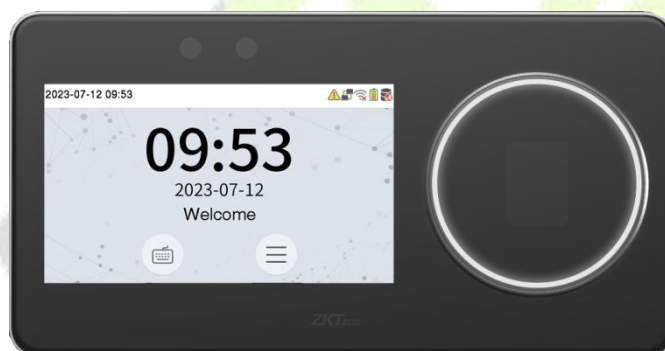
Avoid using the thumb or pinky, as they are difficult to accurately tap onto the fingerprint reader.



Note: Please use the correct method when pressing your fingers onto the fingerprint reader for registration and identification.

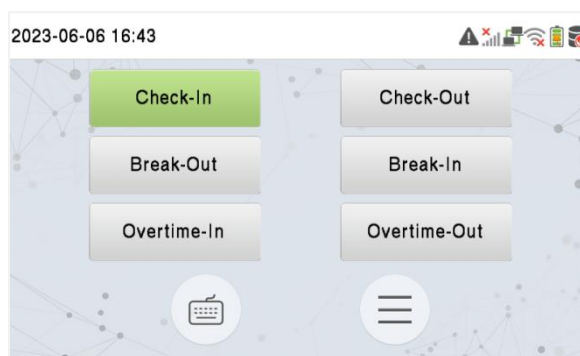
1.4 Standby Interface

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



Note:

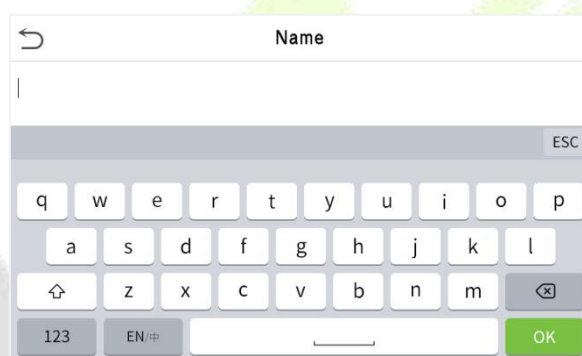
1. Tap  to open the interface to enter the User ID.
2. When there is no super administrator registered in the device, tap  to enter the menu.
3. After setting the super administrator, it requires the super administrator's verification before entering the menu operation. For the security of the device, it is recommended to register a super administrator the first time you use the device.
4. The punch state options can also be displayed and used directly on the standby interface. Tap anywhere on the screen apart from the icons, and six shortcut keys appears on the screen, as shown in the figure below:



Press the corresponding punch state key to select your current punch state, which is displayed in green. Please refer to "[Shortcut Key Mappings](#)" for the specific operation method.

- Note: The punch state options are off by default and need to select other mode options in the "Punch State Option" to get the punch state options on the standby screen.

1.5 Virtual Keyboard



Note: The device supports the input of English characters, numbers, and symbols. Tap [123] to switch to the numeric and special character keyboard, and tap [ABC] to return to the alphabetic keyboard. Tap the input box, and the virtual keyboard appears. Tap [ESC] to exit the keyboard screen.

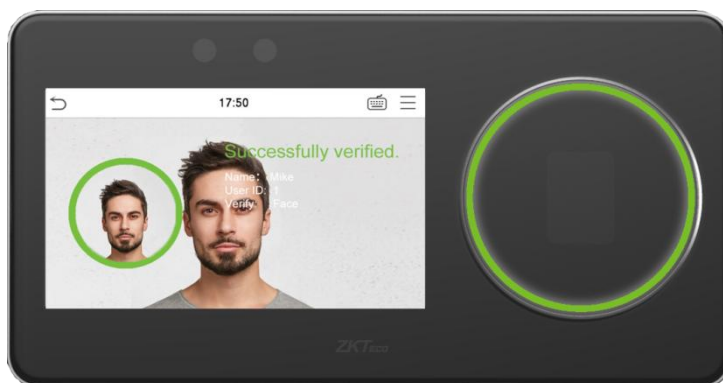
1.6 Verification Mode

When verification is successful, the indicator light turns green, and when verification fails, the indicator light turns red.

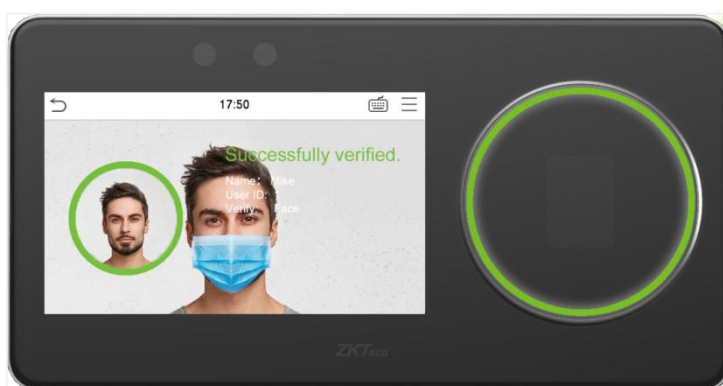
1.6.1 Facial Verification

1:N Facial Verification

In this verification mode, the device compares the collected facial images with all face data registered in the device. The following is the pop-up prompt of a successful comparison result.

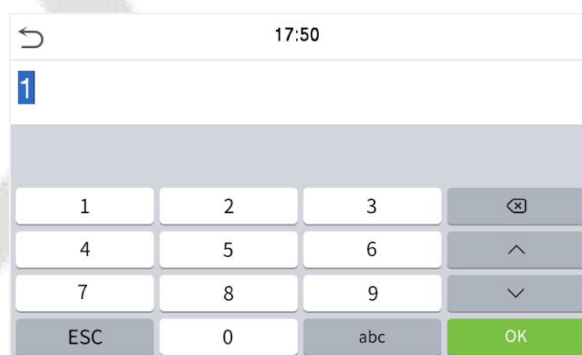


The device supports mask recognition, allowing users to be accurately recognized even if they are wearing a mask.

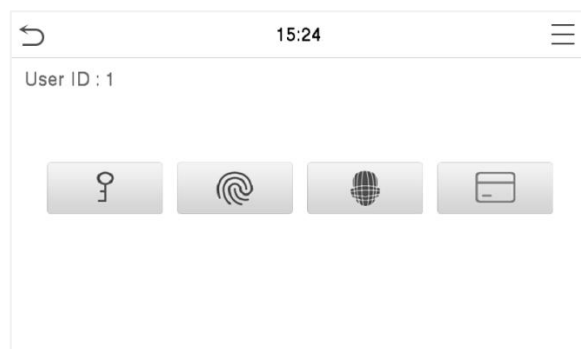


1:1 Facial Verification

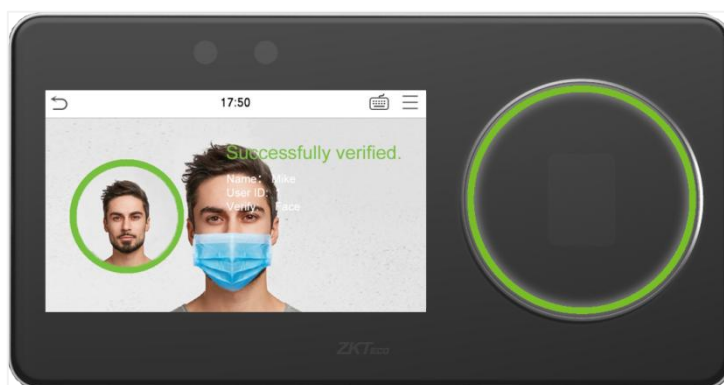
In this verification mode, the device compares the face captured by the camera with the facial template related to the entered user ID. Tap  on the main interface and enter the 1:1 facial verification mode and enter the user ID and tap **[OK]**.



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



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



1.6.2 Multi-face Template Verification

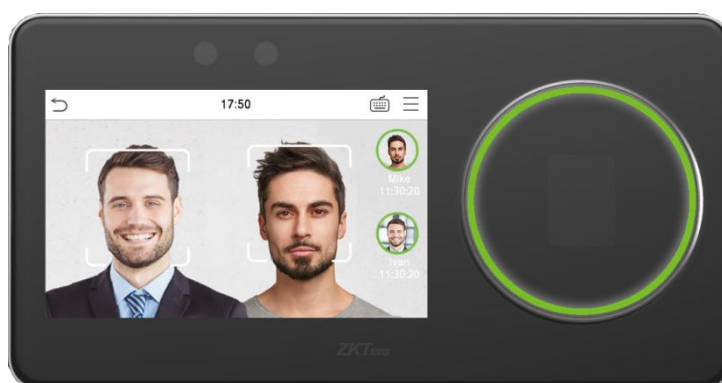
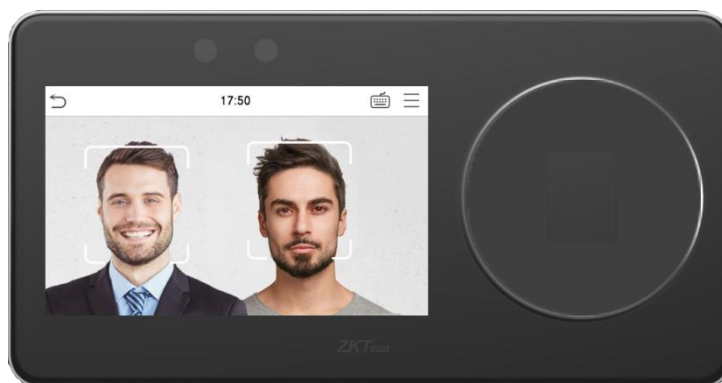
1: N Multi-face Verification

In this verification mode, the device compares the obtained multi-person facial images with all the face template data stored in it. At the same time, the device can verify up to two people. The number of verification results displayed on the right side, can be customized. The image below depicts the pop-up prompt for a successful comparison result.

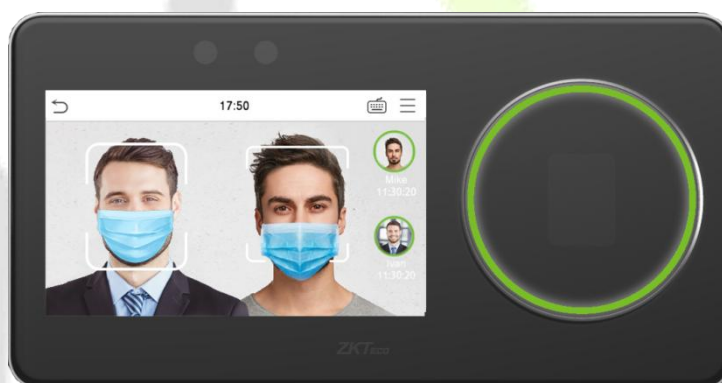
Tap **System > Face > Recognition Settings > Identifying Mode > Multi-face Identifying > Count to Display** to set the number of the verification results to be displayed.



Note: The Count to Display can be set between 1 to 2.

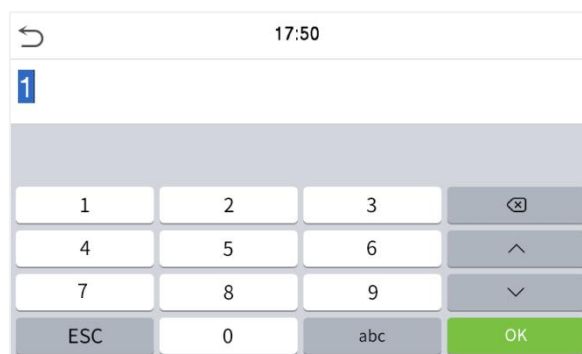


Also supports multi-person mask recognition.



1:1 Multi-face Verification

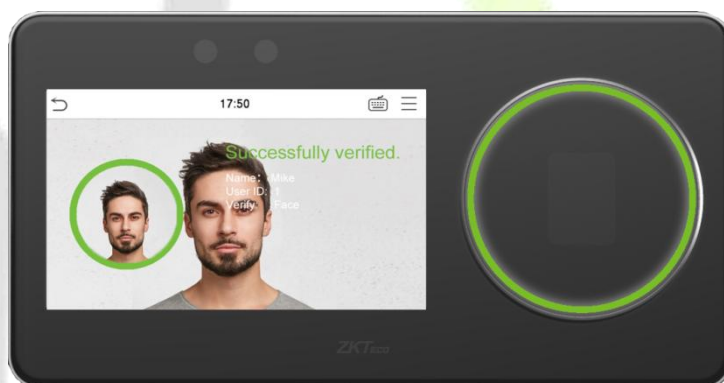
In this verification mode, the device compares the face captured by the camera with the facial template associated to the entered user ID. Tap  on the main interface and select the 1:1 facial verification mode and enter the user ID and tap **[OK]**.



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



icon to enter the face template verification mode.



1.6.3 Fingerprint Verification

1:N Fingerprint Verification Mode

Compares the fingerprint that is being pressed onto the fingerprint reader with all of the fingerprint data that is stored in the device.

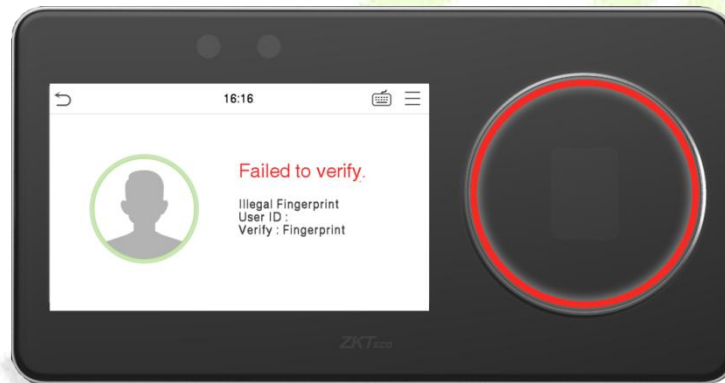
The device enters the fingerprint authentication mode when a user presses his/her finger onto the fingerprint scanner.

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

Successful Verification:



Failed Verification:



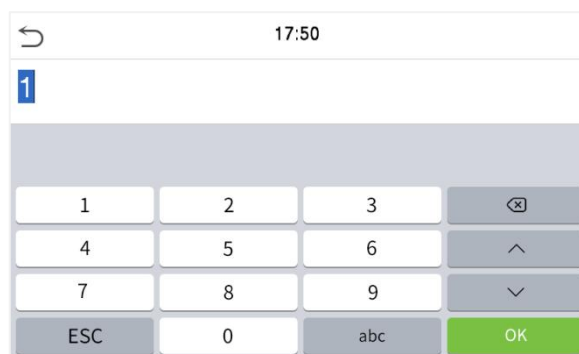
1:1 Fingerprint Verification Mode

Compares the fingerprint that is being pressed onto the fingerprint reader with the fingerprints that are linked to User ID input via the virtual keyboard.

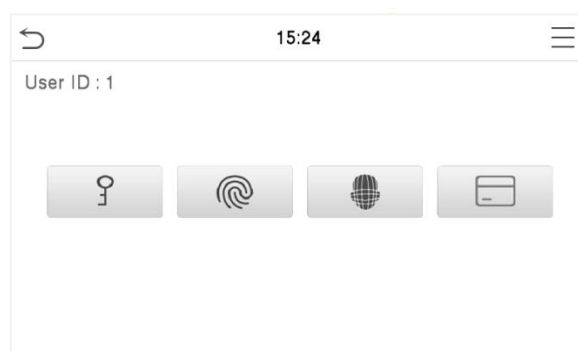
Users may verify their identities with 1:1 verification mode when they cannot gain access with 1:N authentication method.

Tap  on the main interface and enter the 1:1 fingerprint verification mode.

Input the user ID and tap **[OK]**.

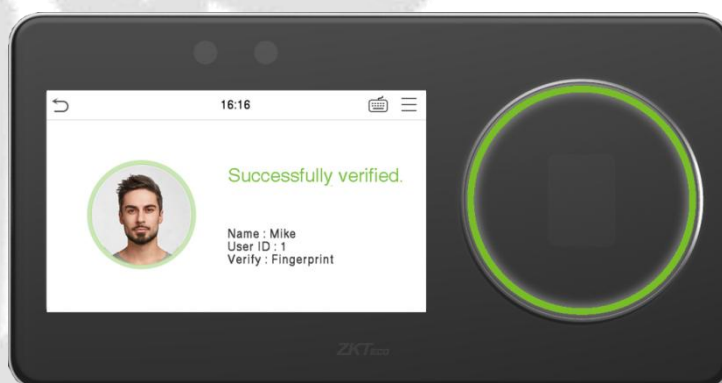


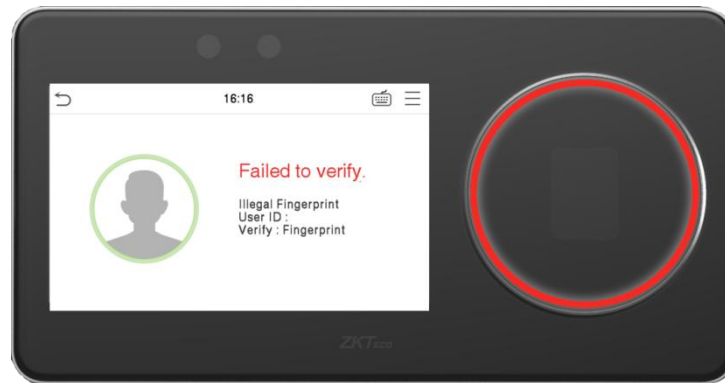
If the user registered password, card and face in addition to the fingerprint, and the verification method is set to Password/Fingerprint/Card/Face, the following screen will appear. Select the  icon to enter fingerprint verification mode.



Press the fingerprint to verify.

Successful Verification:

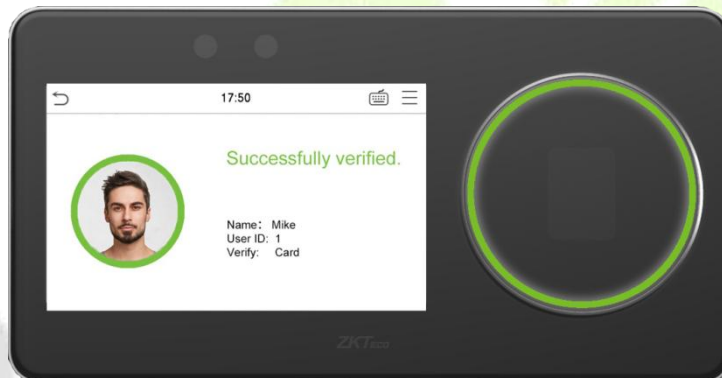


Failed Verification:

1.6.4 Card Verification ★

1:N Card Verification

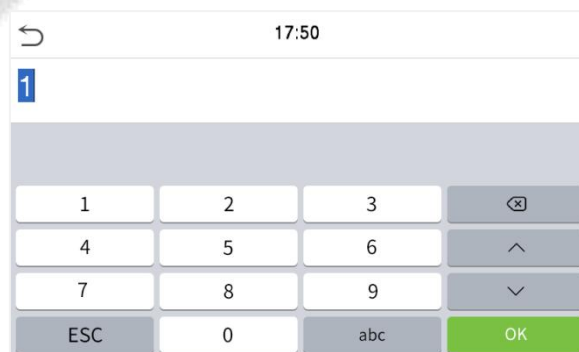
This verification mode compares the card number in the Card induction area with all the card number data registered in the device; the following is the card verification screen.



1:1 Card Verification

Tap the  button on the main screen to open the 1:1 Card verification mode.

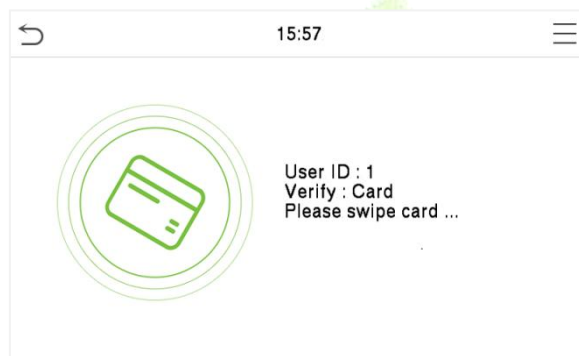
1. Input the user ID and tap **[OK]**.



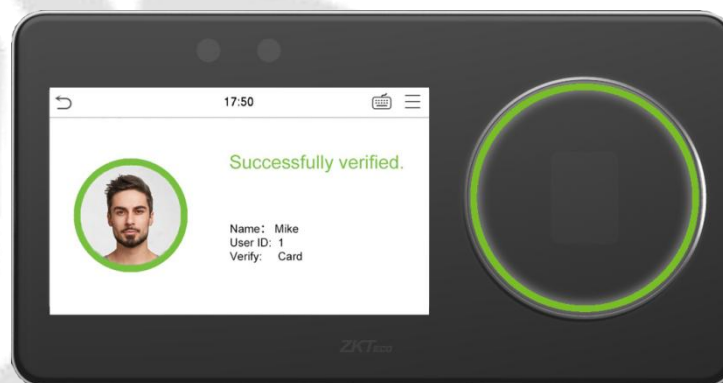
If the user has registered password, fingerprint and face in addition to card, and the verification method is set to Password/Fingerprint/Card/Face, the following screen will appear. Select the  icon to enter the card verification mode.

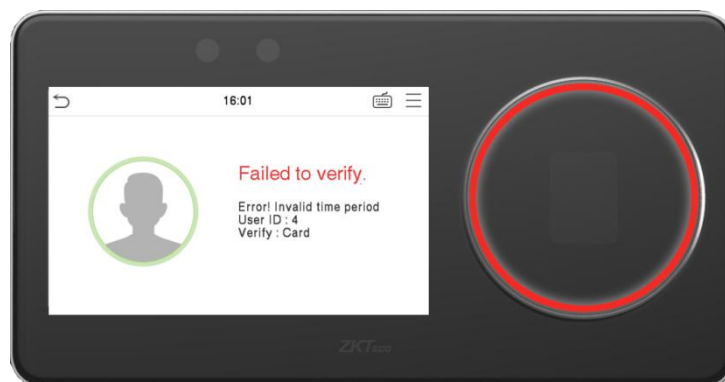


2. Swipe the card above the card area (the card must be registered first).



Successful Verification:



Failed Verification:

1.6.5 Password Verification

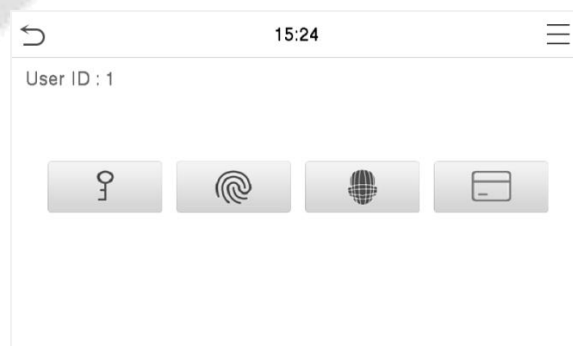
The Password Verification mode compares the entered password with the registered User ID and Password.

Tap the  button on the main screen to open the 1:1 password verification mode.

1. Input the user ID and tap [OK].



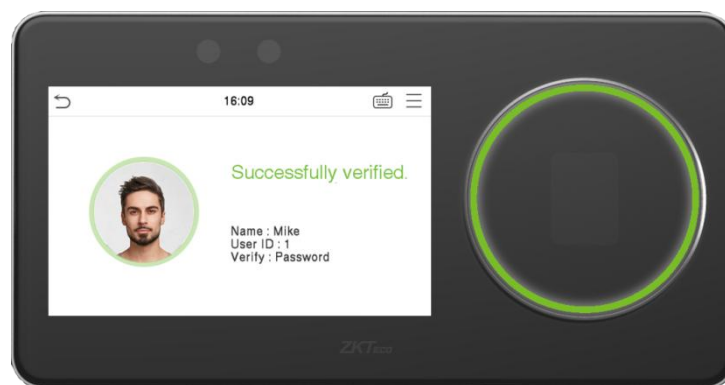
If the user registered fingerprint, card and face in addition to password, and the verification method is set to Password/Fingerprint/Card/Face, the following screen will appear. Select the  icon to enter the password verification mode.



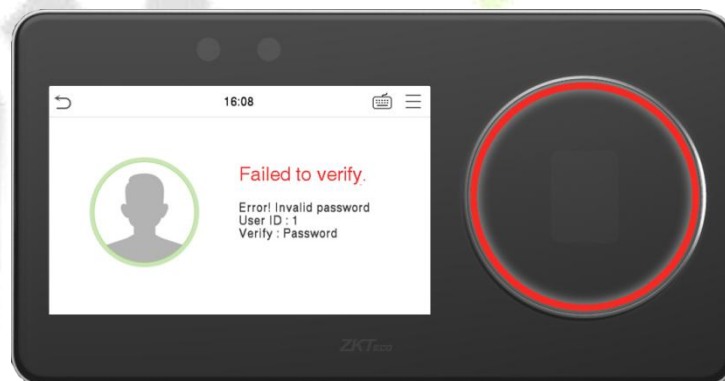
2. Input the password and tap **[OK]**.



Successful Verification:



Failed Verification:



1.6.6 Combined Verification

This device allows you to use a variety of verification methods to increase security. There are a total of 22 distinct verification combinations that can be implemented, as listed below:

Combined Verification Symbol Definition

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

Verification Mode 1= 2=

☒ Apply Group Mode

☐ Password/Fingerprint/Card/Face

☐ Fingerprint Only

☐ User ID Only

☐ Password

Verification Mode 1= 2=

☐ Card Only

☐ Fingerprint/Password

☐ Fingerprint/Card

☐ User ID+Fingerprint

☐ Fingerprint+Password

Verification Mode 1= 2=

☐ Fingerprint+Card

☐ Fingerprint+Password+Card

☐ Password+Card

☐ Password/Card

☐ User ID+Fingerprint+Password

Verification Mode 1= 2=

☐ Fingerprint+(Card/User ID)

☐ Face Only

☐ Face+Fingerprint

☐ Face+Password

☐ Face+Card

Verification Mode 1= 2=

☐ Face+Fingerprint

☐ Face+Password

☒ Face+Card

☐ Face+Fingerprint+Card

☐ Face+Fingerprint+Password

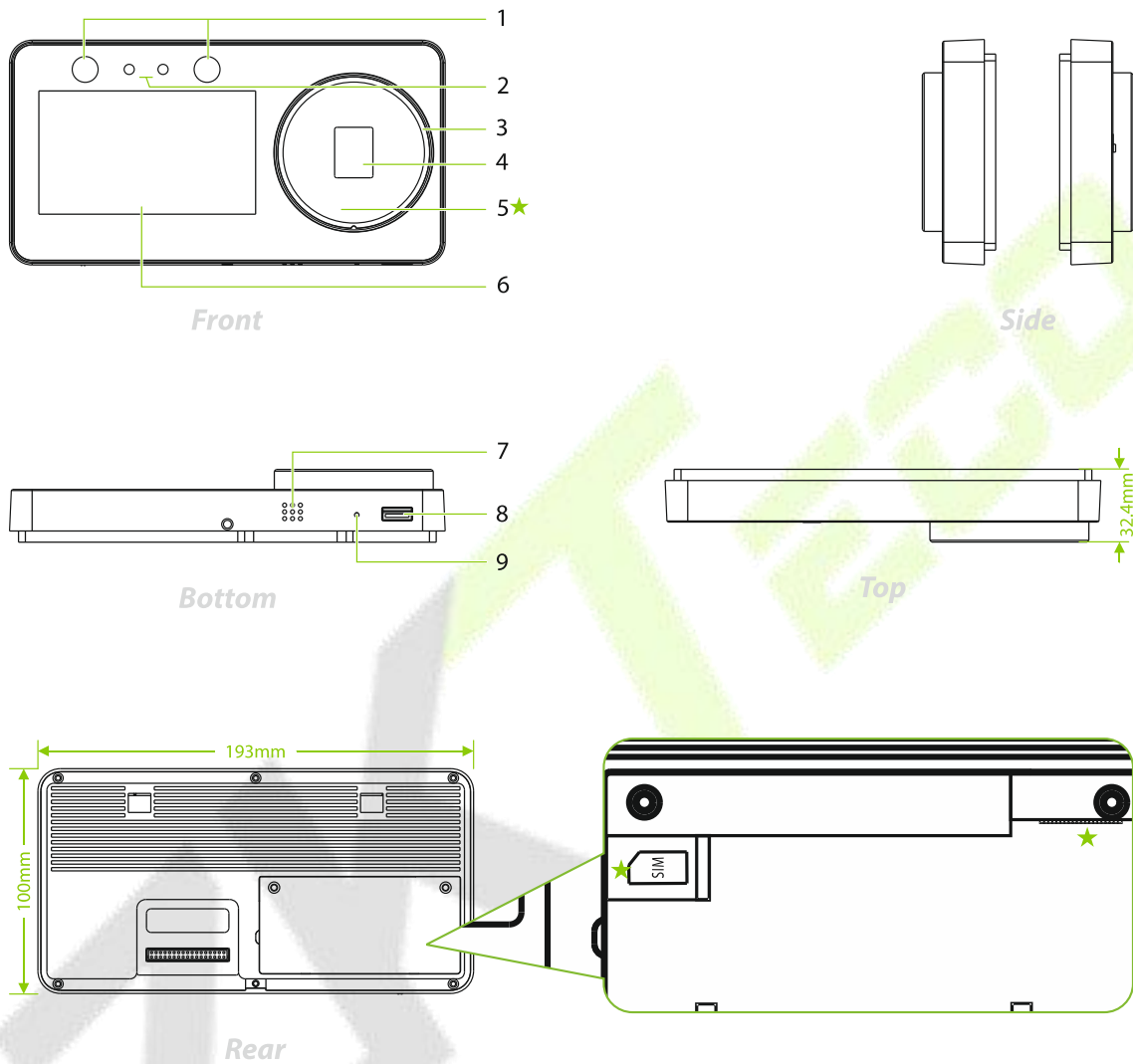
Procedure to set for Combined Verification Mode

1. Combined verification requires personnel to register all the different verification methods. Otherwise, employees will not be able to successfully verify the combined verification process.

2. For instance, when an employee has registered only for the face data, but the Device verification mode is set as "Face + Password", the employee will not be able to complete the verification process successfully.
3. This is because the Device compares the face template of the person with the registered verification template (both the Face and the Password) previously stored to that Personnel ID in the Device.
4. But as the employee has registered only the Face but not the Password, the verification will not get completed and the Device displays "Verification Failed".

2 Overview

2.1 Appearance



No.	Description
1	Near-Infrared Flash
2	Camera
3	Indicator Light
4	Fingerprint Sensor
5	Card Reading Area ★

6	4.3-inch Touchscreen
7	Speaker
8	USB
9	Rest



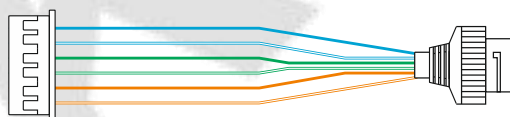
Note: When verification is successful, the indicator light turns green, and when verification fails, the indicator light turns red.

2.2 Connection Cables and Wiring Description

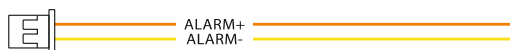
2.2.1 Connection Cables



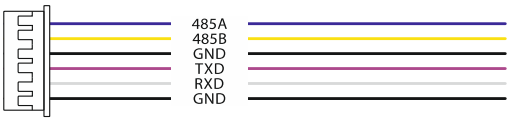
Pin	Description
4	Power In



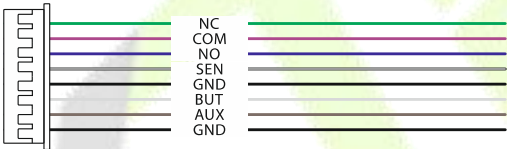
Pin	Description
6	Network



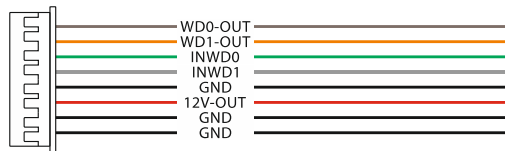
Pin	Description
2	ALARM+
	ALARM-
	Alarm



Pin	Description	
6	485A	RS485
	485B	
	GND	
	TXD	RS232
	RXD	
	GND	



Pin	Description	
8	NC	Lock
	COM	
	NO	
	SEN	Door Sensor, Exit Button
	GND	
	BUT	
	AUX	Auxiliary In
	GND	

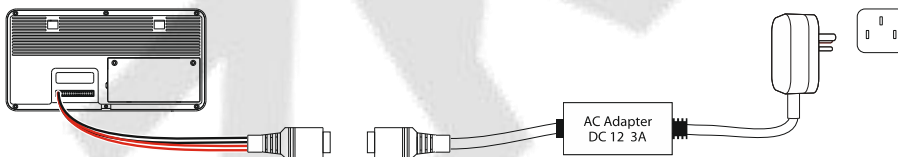


Pin	Description
8	WD0-OUT
	WD1-OUT
	INWD0
	INWD1
	GND
	12V-OUT
	GND
	GND

Wiegand Out, Wiegand In

2.2.2 Wiring Description

● Power Connection

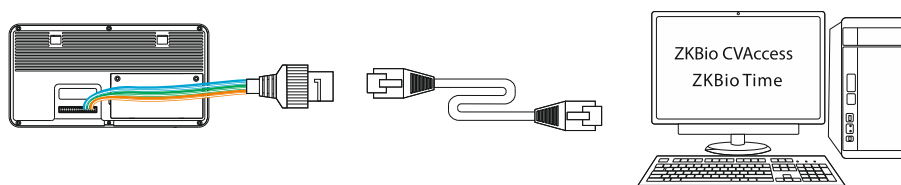


Recommended power supply

- Rating of 12V and 3A
- To share the power with other devices, use an AC Adapter with higher current ratings.

● Ethernet Connection

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



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

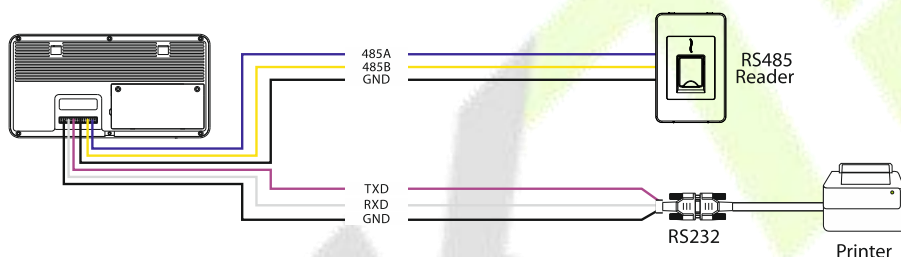
Click on **[COMM.]** > **[Ethernet]** > **[IP Address]** , input the IP address and click on **[OK]**.



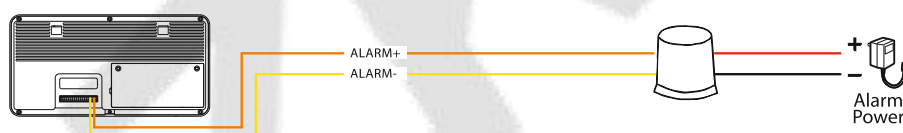
Note: In LAN, the IP addresses of the server (PC) and the device must be in the same network segment when connecting to the ZKBio CVAccess/ZKBio Time software.

● RS485 and RS232 Connection

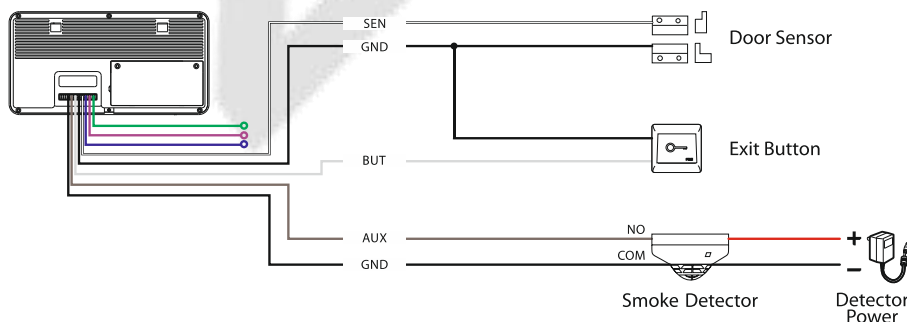
The RS485 and the RS232 lets user connect to multiple readers to the device. The RS232 and RS485 can be connected to the terminal, as shown in the figure below.



● Alarm Connection

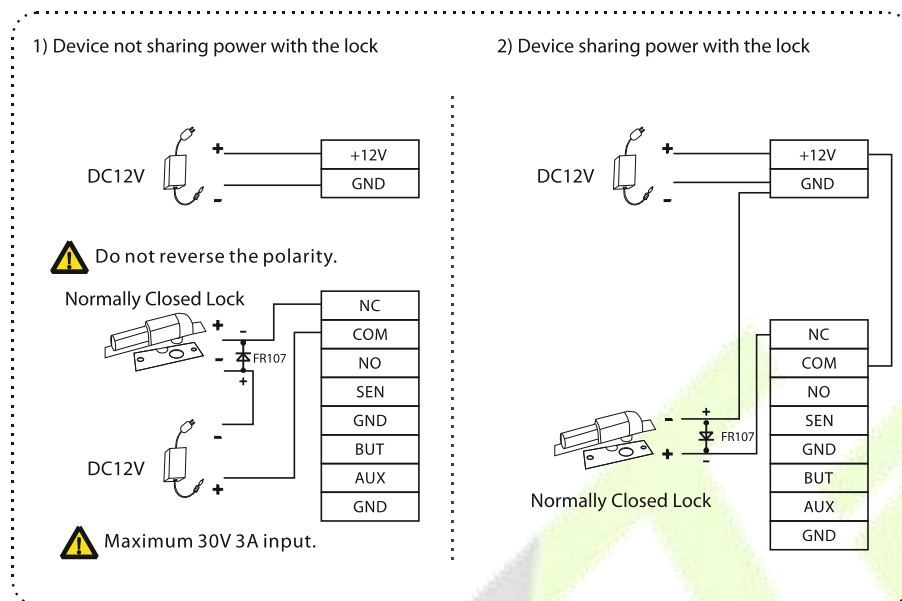


● Door Sensor, Exit Button & Auxiliary Connection



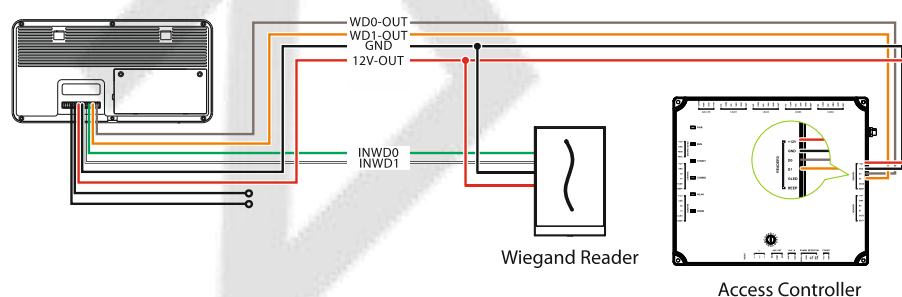
● Lock Relay Connection

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:



● Wiegand Reader Connection

Wiegand card reader connects to the top 4 pins of the wiegand terminal and the last two pins are used by the Access controller, as shown in the following figure. It sends the credentials to the device via wiegand communication.



3 Installation

3.1 Installation Environment

Please refer to the following recommendations for installation.



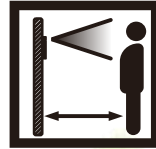
INSTALL INDOORS
ONLY



AVOID GLASS
REFRACTION



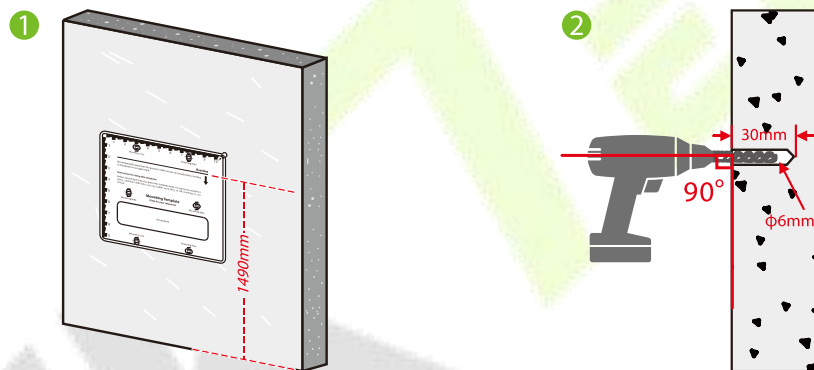
AVOID DIRECT
SUNLIGHT
AND EXPOSURE



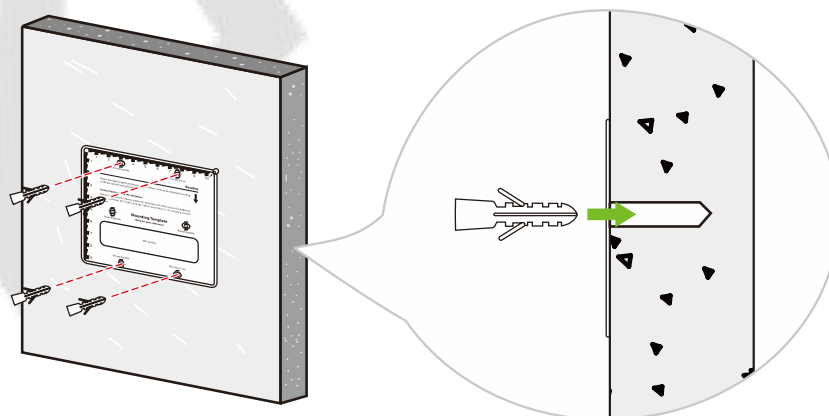
KEEP EFFECTIVE
DISTANCE
0.3 to 2m

3.2 How to Install the Device on the Wall?

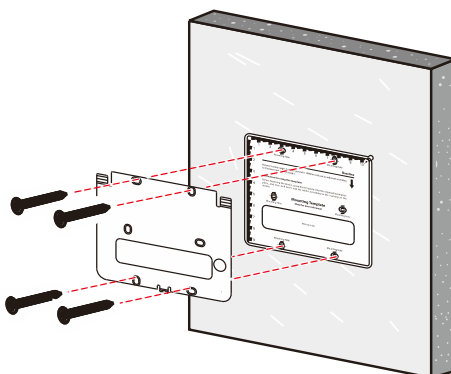
1. Stick the mounting template to the wall and drill holes according to the mounting template.



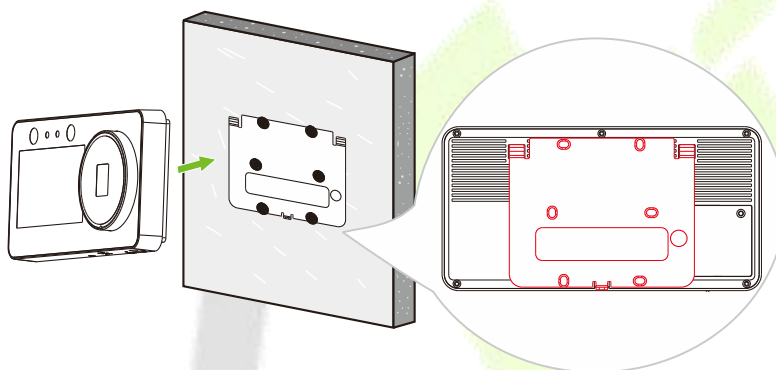
2. Insert the expansion tubes into the mounting holes.



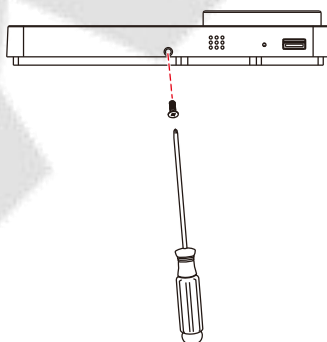
3. Attach the backplate on the wall using the wall mounting screws.



4. Attach the terminal to the backplate.

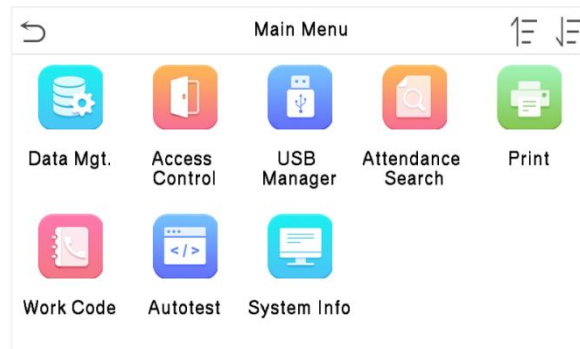
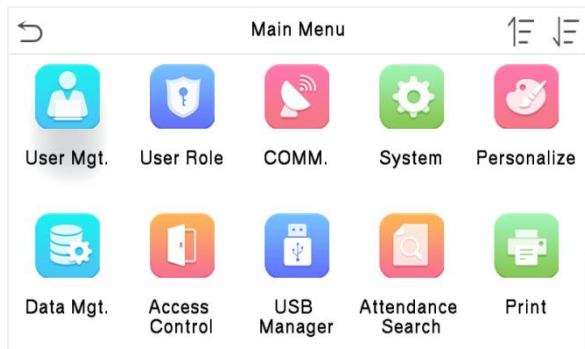


5. Fasten the terminal to the backplate with a security screw.



4 Main Menu

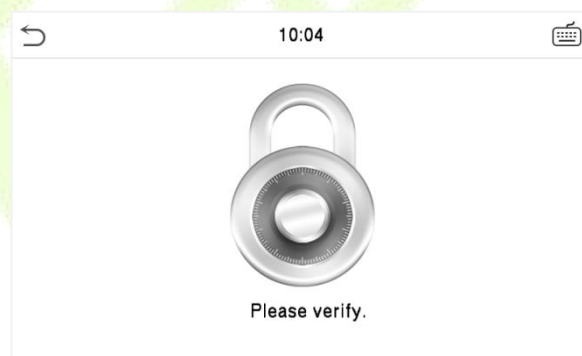
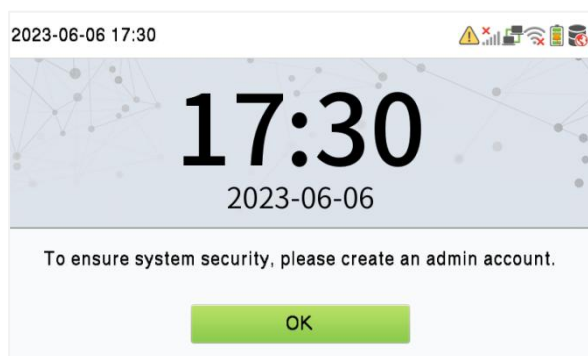
Tap  on the initial interface to enter the main menu, as shown below:



Menu	Description
User Mgt.	To add, edit, view, and delete the basic information about a user.
User Role	To set the permission scope of the custom role, that is, the rights to operate the system.
COMM.	To set the relevant parameters of the network, Serial Comm, PC Connection, Cellular Data Network ★, Wi-Fi ★, Cloud Server, Wiegand and Network Diagnosis.
System	To set the parameters related to the system, including Date Time, Attendance, Face and Fingerprint templates, USB Upgrade, Resetting to factory settings and Security Settings.
Personalize	To customize settings of User Interface, Voice, Bell Schedules, Punch State Options and Shortcut Key Mappings settings.
Data Mgt.	To delete all the relevant data in the device.
Access Control	To set the parameters of the lock and the relevant access control device including options like Time Rule Setting, Holiday Settings, Access Groups, Combine Verification, Anti-passback Setup and Duress Option Settings.
USB Manager	To upload or download the specific data by a USB drive.
Attendance Search	To query the specified attendance record, check Attendance Photos and Blocklist attendance photos.

Print	To set printing information and functions (if the printer is connected to the device).
Work Code	Set different type of work.
Autotest	To automatically test whether each module functions properly, including the screen, audio, camera, fingerprint and real-time clock.
System Info	To view the data capacity, device and firmware information and privacy policy of the device.

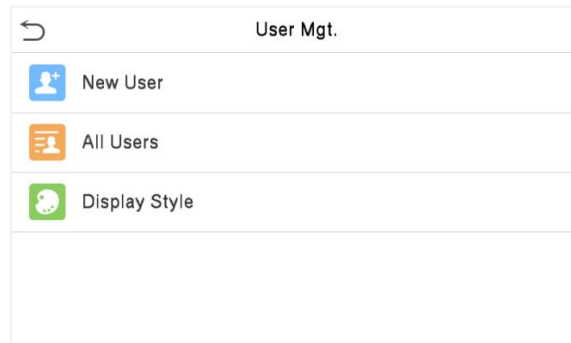
 **Note:** When users use the product for the first time, they should operate it after setting administrator privileges. Tap User Mgt. to add an administrator or edit user permissions as a super administrator. If the product does not have an administrator setting, the system will show an administrator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



5 User Management

5.1 Add Users

Tap **User Mgt.** on the main menu. Tap **New User**.



5.1.1 Register a User ID and Name

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

New User	
User ID	1
Name	
User Role	Normal User
Fingerprint	0
Face	0

New User	
Fingerprint	0
Face	0
Card	
Password	
Access Control Role	



Note:

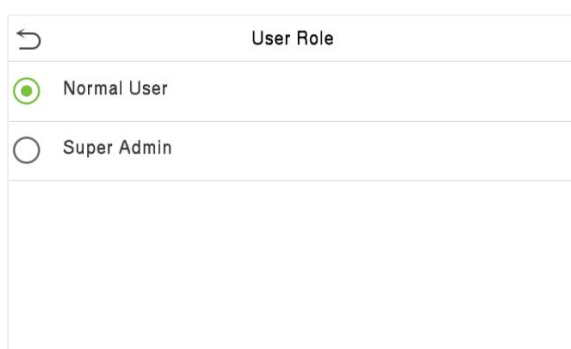
1. A username may contain 34 characters.
2. The user ID may contain 1 to 9 digits by default, support number and [alphanumeric](#).
3. During the initial registration, you can modify your ID, which cannot be modified after registration.
4. If a message "**Duplicated**" pops up, you must choose another ID.

5.1.2 Setting the User Role

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

Tap **User Role** to select **Normal User** or **Super Admin**.

- **Super Admin:** The Super Administrator owns all management privileges in the Device.
- **Normal User:** If the Super Admin is registered already in the device, then the Normal Users will not have the privilege to manage the system and can only access authentic verifications.
- **User Defined Roles:** The Normal User can also be assigned custom roles with User Defined Role. The user can be permitted to access several menu options as required.

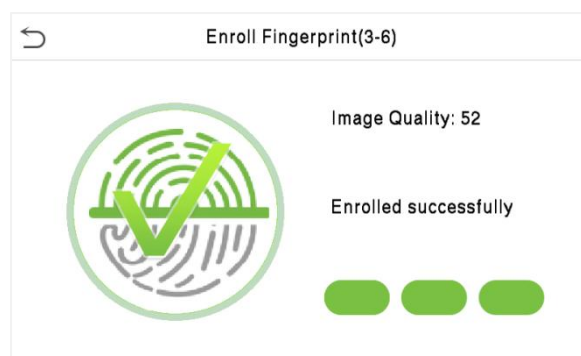
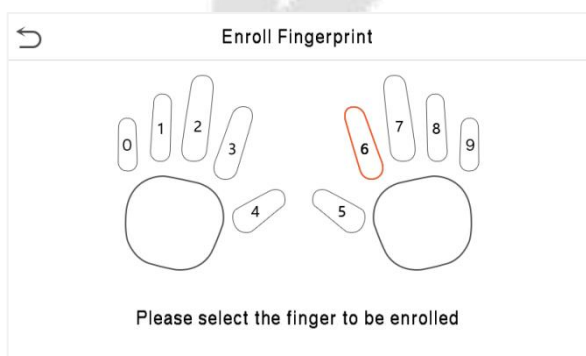


Note: If the selected user role is the Super Admin, then the user must pass the identity authentication to access the main menu. The authentication is based on the authentication method(s) that the super administrator has registered.

5.1.3 Register Fingerprint

Tap **Fingerprint** in the **New User** interface to enter the fingerprint registration page.

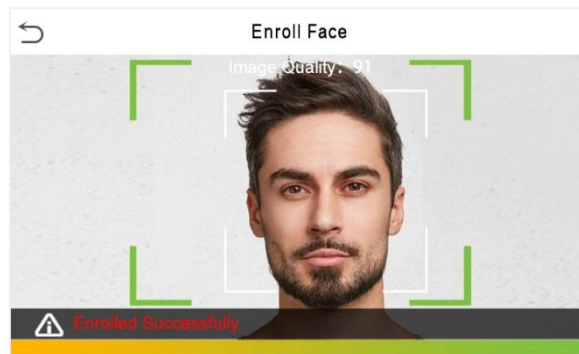
- Select the finger to be enrolled.
- Press the same finger on the fingerprint reader three times.
- Green indicates that the fingerprint was enrolled successfully.



5.1.4 Register Face

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

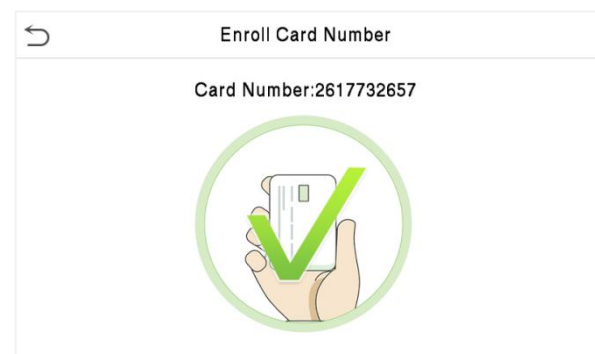
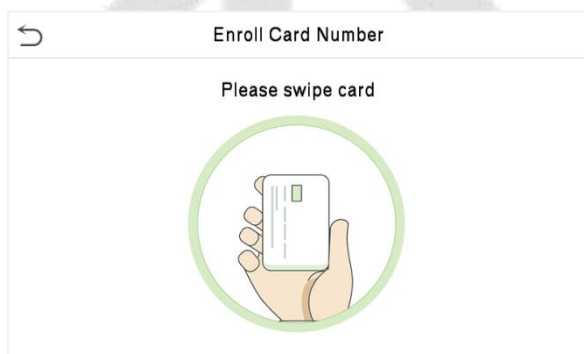
- Please face towards the camera and place yourself in such a way that your face image fits inside the white guiding box and stays still during face registration.
- A progress bar shows up while registering the face and then "**Enrolled Successfully**" message is displayed as the progress bar completes.
- If the face is registered already then, the "**Duplicated Face**" message shows up. The registration interface is as follows:



5.1.5 Register Card ★

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

- Swipe the card underneath the card reading area on the Card interface. The registration of the card will be successful.
- If the card has already been registered, the message "**Error! Card already enrolled**" appears. The registration interface looks like this:



5.1.6 Register Password

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

- On the Password interface, enter the required password and re-enter to confirm it and tap **OK**.
- If the re-entered password is different from the initially entered password, then the device prompts the message as "**Password not match!**", where the user needs to re-confirm the password again.
- The password may contain 1 to 8 digits by default.

5.1.7 Access Control Role

The **Access Control Role** sets the door access privilege for each user. It includes the access group, verification mode and it facilitates setting the group access time period.

- Tap **Access Control Role > Access Group** to assign the registered users to different groups for better management. New users belong to Group 1 by default and can be reassigned to other groups. The device supports up to 99 Access Control groups.
- Select verification mode for the user, click **Access Control Role > Verification Mode**.
- The user may specify one or more fingerprints that have been registered as a duress fingerprint(s). When press the finger corresponding to the duress fingerprint on the sensor and pass the verification, the system will immediately generate a duress alarm.
- Select whether to apply the group time period for this user. It is enabled by default. If the group time period is not applied, you need to set the unlocking time for this user. The time period of this

user does not affect the time period of any other member in this group. To set the unlocking time for this user, tap **Apply Group Time Period** > Time Period 1. Enter the Time Period number and tap **OK**. 50 time periods can be set in the device and three time periods can be set for each user. For details, see Time Schedule Settings.

5.2 Search for Users

On the main menu, tap **User Mgt.**, and then tap **All Users** to search a User.

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

All Users	
1	Mike
2	lucy
3	Ivan

5.3 Edit Users

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

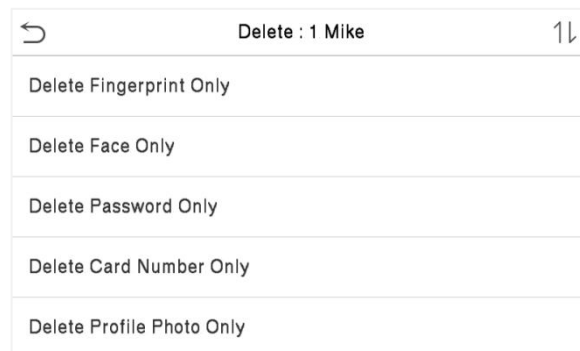
User : 1 Mike
Edit
Delete

Edit : 1 Mike	1↓
User ID	1
Name	Mike
User Role	Normal User
Fingerprint	2
Face	1

Note: The operation of editing a user is the same as that of adding a user, except that the user ID cannot be modified when editing a user. For further details, refers "[Add Users](#)".

5.4 Delete Users

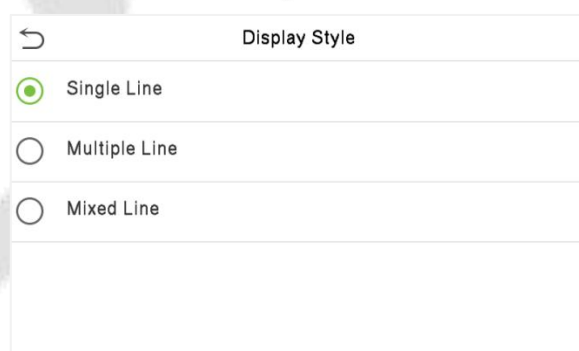
On the **All-Users** interface, tap on the required user from the list and tap **Delete** to delete the user or specific user information from the device. On the **Delete** interface, tap on the required operation, and then tap **OK** to confirm the deletion.



- **Delete User:** Deletes all the user information (deletes the selected User as a whole) from the Device.
- **Delete Fingerprint Only:** Deletes the fingerprint information of the selected user.
- **Delete Face Only:** Deletes the face information of the selected user.
- **Delete Password Only:** Deletes the password information of the selected user.
- **Delete Card Number Only:** Deletes the card information of the selected user.
- **Delete Profile Photo Only:** Deletes the profile photo of the selected user.

5.5 Display Style

On the main menu, tap **User Mgt.**, and then tap **Display Style** to enter Display Style setting interface.



All the Display Styles are shown as below:

Single Line:

All Users		
1	Mike	   
2	lucy	
3	Ivan	

Multiple Line:

All Users	
1	Mike
2	lucy
3	Ivan

Mixed Line:

All Users	
1 Mike	   
2 lucy	
3 Ivan	

6 User Role

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

The screenshots illustrate the steps to configure a user-defined role. The first shows the main 'User Role' menu. The second shows the 'User Defined Role 1' configuration screen where the role is disabled. The third shows the same screen with the role enabled. The fourth shows the 'Define User Role' screen where specific permissions are selected for the role.

- On the main menu, tap **User Role**, and then tap on the **User Defined Role** to set the user defined permissions.
- The permission scope of the custom role can be set up into 3 roles, that is, the custom operating scope of the menu functions of the user.
- On the **User Defined Role** interface, toggle **Enable Defined Role** to enable or disable the user defined role.
- Tap on **Name** and enter the custom name of the role.
- Then, by tapping on Define User Role, select the required privileges for the new role, and then tap the Return button.
- During privilege assignment, the main menu function names will be displayed on the left and its sub-menus will be listed on the right.
- First tap on the required main menu function name, and then select its required sub-menus from the list.

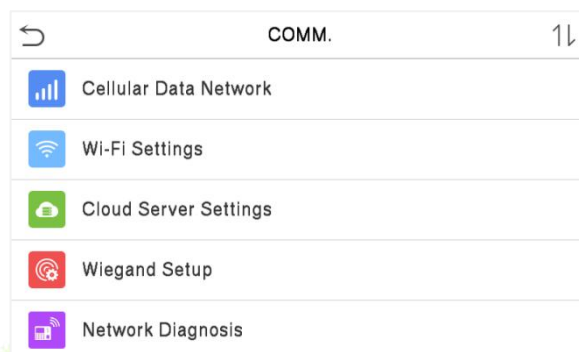
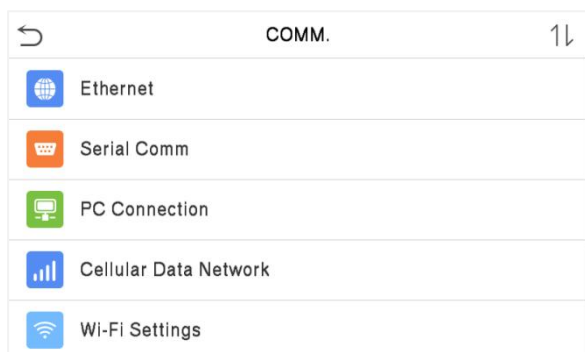


Note: If the User Role is enabled for the Device, tap on **User Mgt.** > **New User** > **User Role** to assign the created roles to the required users. But if there is no super administrator registered in the Device, then the device will prompt "**Please enroll super admin first!**" when enabling the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

7 Communication Settings

Communication Settings are used to set the parameters of the Network, Serial Comm, PC Connection, Cellular Data Network ★, Wi-Fi ★, Cloud server, Wiegand and Network Diagnosis.

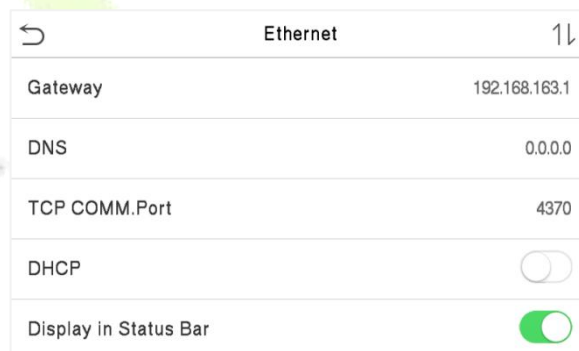
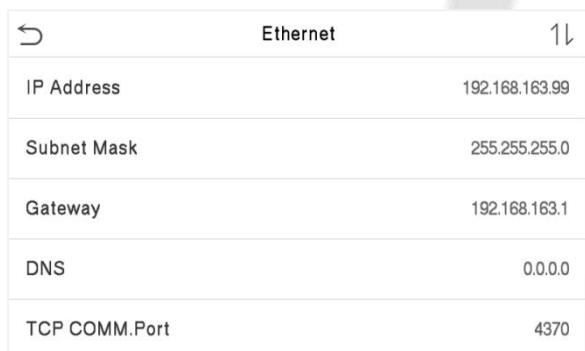
Tap **COMM.** on the main menu.



7.1 Network Settings

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

Tap **Ethernet** on the **Comm.** Settings interface.



Menu	Description
IP Address	The factory default value is 192.168.1.201. Please set the IP Address as per the requirements.
Subnet Mask	The factory default value is 255.255.255.0. Please set the value as per the requirements.
Gateway	The factory default address is 0.0.0.0. Please set the value as per the requirements.

DNS	The factory default address is 0.0.0.0. Please set the value as per the requirements.
TCP COMM. Port	The factory default value is 4370. Please set the value as per the requirements.
DHCP	Dynamic Host Configuration Protocol, which is to dynamically allocate IP addresses for clients via server.
Display in Status Bar	To set whether to display the network icon on the status bar.

7.2 Serial Comm

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

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

Serial Comm	
Serial Port	No Using
Baudrate	115200

Serial Port	
☒	No Using
☐	RS232(PC)
☐	Print Function

Menu	Description
Serial Port	No Using: No communication with the device through the serial port. RS232(PC): Communicate with the device through the RS232 serial port. Print Function: Communicate with the print through the RS232 serial port.
Baud Rate	There are 4 baud rate options at which the data communicates with PC. They are: 115200 (default), 57600, 38400, and 19200. The higher the baud rate, the faster is the communication speed, but also less reliable. Hence, a higher baud rate can be used when the communication distance is short; when the communication distance is long, choosing a lower baud rate is more reliable.

7.3 PC Connection

Comm Key facilitates to improve the security of the data by setting up the communication between the device and the PC. Once the Comm Key is set, a password is required to connect the device to the PC software.

Tap **PC Connection** on the **Comm.** Settings interface.



PC Connection	
Comm Key	*****
Device ID	1
HTTPS	☒

Menu	Description
Comm Key	Comm Key: The default password is 0, which can be changed. The Comm Key may contain 1 to 6 digits.
Device ID	The identity number of the device, which ranges between 1 and 254. If the communication method is RS232/RS485, you need to input this device ID in the software communication interface.
HTTPS	To increase the security of software access, users can enable the HTTPS protocol to create a secure and encrypted network transmission and assure the security of sent data through identity authentication and encrypted communication. This function is enabled by default. This function can be enabled or disabled through the menu interface, and when changing the HTTPS status, the device will pop up a security prompt, and restart after confirmation.

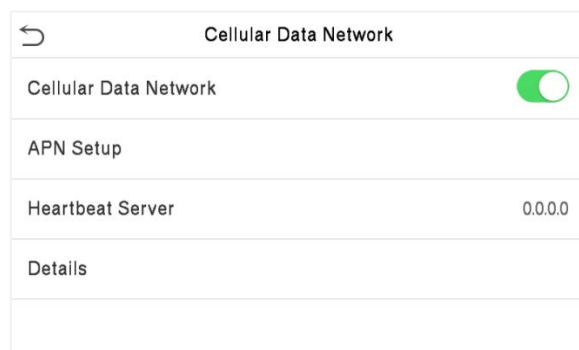
7.4 Cellular Data Network ★

When the equipment is in the Dial-Up Network, make sure the device is in the coverage of GPRS or WCDMA signal, and it is must know of the used modem type, APN name and access number and so on. Before enabling, please insert the All-in-one card into the 4G module first.

Tap **Cellular Data Network** on the **Comm.** Settings interface.

Toggle the  button to enable the Cellular Data Network. Under normal circumstances, the device will automatically connect to the mobile network after being enabled. If you cannot connect, you can

manually set the relevant parameters to connect. When the mobile network is connected successfully, the initial interface will display the mobile network  logo.



Menu	Description
Cellular Data Network	Whether to enable the mobile network.
APN Setup	To set APN information, such as the dial number, user name and password. APN: Access Point Name, provided by the operator and not supported in the CDMA network. Dial Number: Number of the cellular data network. User Name and Password: To verify whether the user has the privilege to use this network.
Heartbeat Server	To detect the connection status of the mobile network. The terminal periodically sends ICMP packets to the heartbeat server to detect whether the terminal is online. When the terminal is offline, the device automatically performs dial-up connection again. Therefore, when setting the heartbeat server, ensure that the heartbeat server can be pinged and remain online stably for a long term. Note: Generally, the customer can set the heartbeat server address as the ADMS server address.
Details	To view the information about mobile network connection, such as network mode, IP address, received data, and sent data.

 **Note:** When using cellular data network function, the device must be powered by external power supply; when the device is powered only by the back-up battery, the cellular data network function is automatically turned off; with external power, the user is required to manually turn on the cellular data network function switch.

7.5 Wi-Fi Settings ★

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

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

Tap **Wi-Fi Settings** on the **Comm.** Settings interface to configure the Wi-Fi settings.



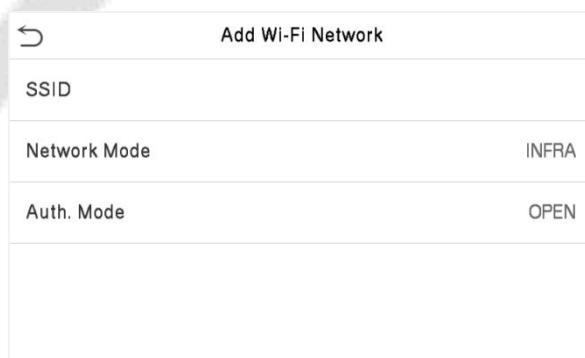
Searching the Wi-Fi Network

- WIFI is enabled in the device by default. Toggle the  button to enable or disable WIFI.
- Once the Wi-Fi is turned on, the device will search for the available Wi-Fi within the network range.
- Tap on the required Wi-Fi name from the available list and input the correct password in the password interface, and then tap **Connect to Wi-Fi (OK)**.
- When the WIFI is connected successfully, the initial interface will display the Wi-Fi  logo.

Adding Wi-Fi Network Manually

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

On this interface, 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

On the **Wi-Fi Settings** interface, tap on **Advanced** to set the relevant parameters as required.

Ethernet	
DHCP	☒
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS	0.0.0.0

Menu	Description
DHCP	Dynamic Host Configuration Protocol (DHCP) dynamically allocates IP addresses to network clients. If the DHCP is enabled, then the IP cannot be set manually.
IP Address	The IP address for the Wi-Fi network, the default is 0.0.0.0. It can be modified according to the network availability.
Subnet Mask	The default Subnet Mask of the Wi-Fi network is 255.255.255.0. It can be modified according to the network availability.
Gateway	The Default Gateway address is 0.0.0.0. It can be modified according to the network availability.
DNS	The factory default address is 0.0.0.0. Please set the value as per the requirements.

7.6 Cloud Server Settings

This represents the settings used for connecting the ADMS server.

Tap **Cloud Server Settings** on the **Comm.** Settings interface.

Cloud Server Settings	
Server Mode	ADMS
Enable Domain Name	☐
Server Address	0.0.0.0
Server Port	8081
Enable Proxy Server	☐

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

7.7 Wiegand Setup

The menu is used to set the Wiegand Input & Output parameters.

Tap **Wiegand Setup** on the **Comm.** Settings interface.

Wiegand Setup
Wiegand Input
Wiegand Output

Wiegand Input

Wiegand Options	
Wiegand Format	
Wiegand Bits	26
Pulse Width(us)	100
Pulse Interval(us)	1000
ID Type	User ID

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

Definitions of various common Wiegand formats:

Menu	Description
Wiegand26	ECCCCCCCCCCCCCCCCCCCCCCCCO It consists of 26 bits of binary code. The 1st bit is the even parity bit of the 2nd to 13th bits, while the 26th bit is the odd parity bit of the 14th to 25th bits. The 2nd to 25th bits is the card numbers.
Wiegand26a	ESSSSSSSSSSSSSSSSSSSSSSSSCO It consists of 26 bits of binary code. The 1st bit is the even parity bit of the 2nd to 13th bits, while the 26th bit is the odd parity bit of the 14th to 25th bits. The 2nd to 9th bits is the site codes, while the 10th to 25th bits are the card numbers.
Wiegand34	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCO It consists of 34 bits of binary code. The 1st bit is the even parity bit of the

	2nd to 17th bits, while the 34th bit is the odd parity bit of the 18th to 33rd bits. The 2nd to 25th bits is the card numbers.
Wiegand34a	ESSSSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCO It consists of 34 bits of binary code. The 1st bit is the even parity bit of the 2nd to 17th bits, while the 34th bit is the odd parity bit of the 18th to 33rd bits. The 2nd to 9th bits is the site codes, while the 10th to 25th bits are the card numbers.
Wiegand36	OFFFFFFFFFCCCCCCCCCCCCCCCCCCME It consists of 36 bits of binary code. The 1st bit is the odd parity bit of the 2nd to 18th bits, while the 36th bit is the even parity bit of the 19th to 35th bits. The 2nd to 17th bits is the device codes. The 18th to 33rd bits is the card numbers, and the 34th to 35th bits are the manufacturer codes.
Wiegand36a	EFFFFFFFFFCCCCCCCCCCCCCCCCCCO It consists of 36 bits of binary code. The 1st bit is the even parity bit of the 2nd to 18th bits, while the 36th bit is the odd parity bit of the 19th to 35th bits. The 2nd to 19th bits is the device codes, and the 20th to 35th bits are the card numbers.
Wiegand37	OMMMMSSSSSSSSSSSCCCCCCCCCCCCCCCCCCE It consists of 37 bits of binary code. The 1st bit is the odd parity bit of the 2nd to 18th bits, while the 37th bit is the even parity bit of the 19th to 36th bits. The 2nd to 4th bits is the manufacturer codes. The 5th to 16th bits is the site codes, and the 21st to 36th bits are the card numbers.
Wiegand37a	EMMMFFFFFFFFFSSSSSSCCCCCCCCCCCCCCCCCCO It consists of 37 bits of binary code. The 1st bit is the even parity bit of the 2nd to 18th bits, while the 37th bit is the odd parity bit of the 19th to 36th bits. The 2nd to 4th bits is the manufacturer codes. The 5th to 14th bits is the device codes, and 15th to 20th bits are the site codes, and the 21st to 36th bits are the card numbers.
Wiegand50	ESSSSSSSSSSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCO It consists of 50 bits of binary code. The 1st bit is the even parity bit of the 2nd to 25th bits, while the 50th bit is the odd parity bit of the 26th to 49th bits. The 2nd to 17th bits is the site codes, and the 18th to 49th bits are the card numbers.

"C" denotes the card number; "E" denotes the even parity bit; "O" denotes the odd parity bit;
"F" denotes the facility code; "M" denotes the manufacturer code; "P" denotes the parity bit; and "S"
denotes the site code.

Wiegand Output

Wiegand Options	
Wiegand Format	
Wiegand Output Bits	26
Failed ID	Disabled
Site Code	Disabled
Pulse Width(us)	100

Wiegand Options	
Failed ID	Disabled
Site Code	Disabled
Pulse Width(us)	100
Pulse Interval(us)	1000
ID Type	User ID

Menu	Description
Wiegand Format	Values range from 26 bits, 34 bits, 36 bits, 37 bits, and 50 bits.
Wiegand Output Bits	After choosing the Wiegand format, you can select one of the corresponding output digits in the Wiegand format
Failed ID	If the verification is failed, the system will send the failed ID to the device and replace the card number or personnel ID with the new ones.
Site Code	It is similar to the Device ID. The difference is that a site code can be set manually, and is repeatable in a different device. The valid value ranges from 0 to 256 by default.
Pulse Width(us)	The pulse width represents the changes in the quantity of electric charge with high-frequency capacitance regularly within a specified time.
Pulse Interval(us)	The time interval between pulses.
ID Type	Select between the User ID and Card number.

7.8 Network Diagnosis

Network Diagnosis	
IP Address Diagnostic Test	0.0.0.0
Start the Diagnostic Test	

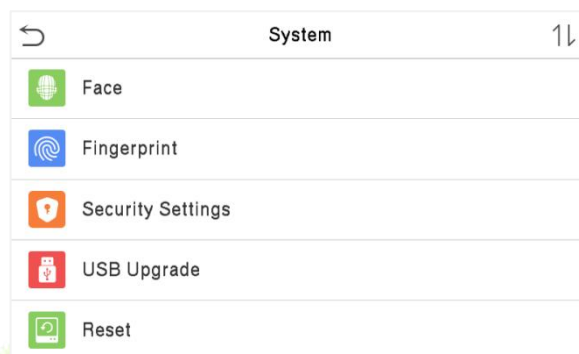
Network Diagnosis	
IP Address Diagnostic Test	192.168.163.75
Start the Diagnostic Test	
Smooth Network	
OK	

Menu	Description
IP Address Diagnostic Test	The factory default address is 0.0.0.0. Please set the value as per the requirements.
Start the Diagnostic Test	Tap start to automatically diagnose the network.

8 System Settings

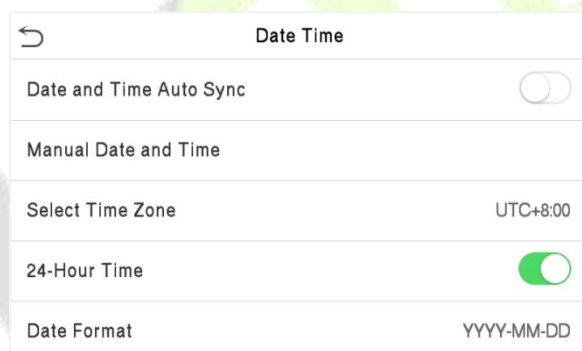
The System Settings is used to set the related system parameters to optimize the performance of the device.

Tap **System** on the main menu interface.



8.1 Date and Time

Tap **Date Time** on the **System** interface.



- Tap **Date and Time Auto Sync** to enable automatic time synchronization based on the service address you enter.
- Tap **Manual Date and Time** to manually set the date and time and then tap to **Confirm** and save.
- Tap **Select Time Zone** to manually select the time zone where the device is located.
- Enable or disable this format by tapping 24-Hour Time. If enabled, then select the **Date Format** to set the date.
- 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, 2020) to 18:30 on January 1, 2021. After restoring the factory settings, the time of the device will change to 18:30, January 1, 2021.

8.2 Attendance

Tap **Attendance** on the **System** interface.

Attendance	
Duplicate Punch Period(m)	1
Camera Mode	No photo
Display User Photo	☒
Alphanumeric User ID	☒
Attendance Log Alert	99

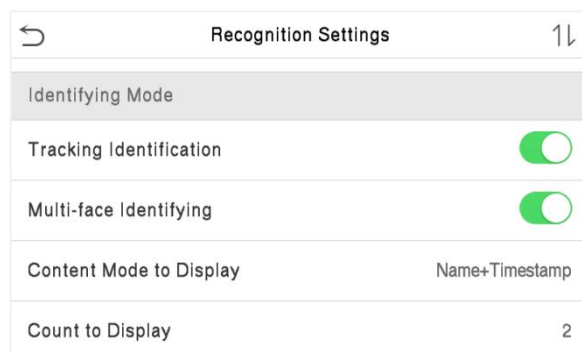
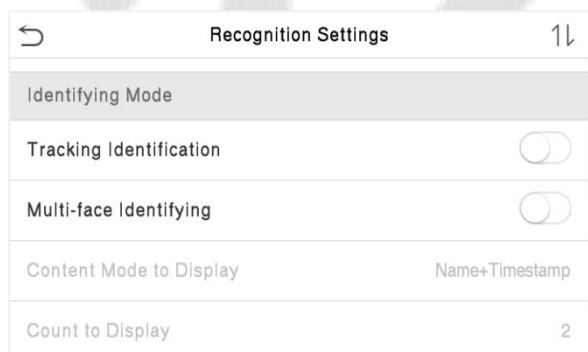
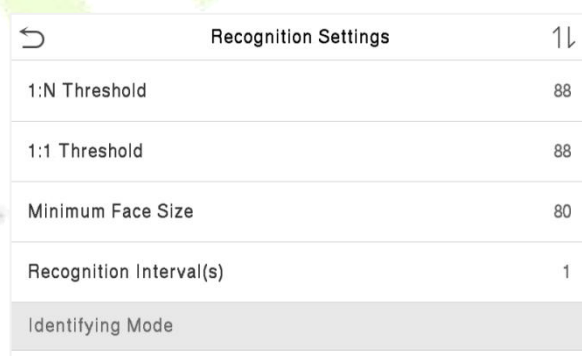
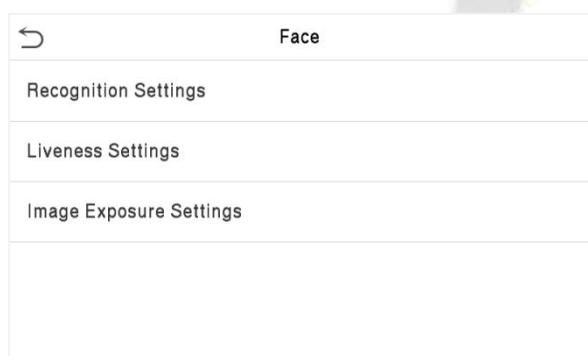
Attendance	
Attendance Log Alert	99
Periodic Del of T&A Data	Disabled
Periodic Del of T&A Photo	99
Periodic Del of Blocklist Photo	99
Authentication Timeout(s)	3

Menu	Description
Duplicate Punch Period (m)	Within the set time range, the attendance record of the same person will not be saved; the valid value ranges from 1 to 999999 minutes.
Camera Mode	This function is disabled by default. When enabled, a security prompt will pop-up and the sound of shutter in the camera will turn on mandatorily. There are 5 modes: No photo: No photo is taken during user verification. Take photo, no save: Photo is taken but not saved during verification. Take photo and save: All the photos taken during verification is saved. Save on successful verification: Photo is taken and saved for each successful verification. Save on failed verification: Photo is taken and saved only for each failed verification.
Display User Photo	Whether to display the user photo when the user passes the verification.
Alphanumeric User ID	Enable/Disable the alphanumeric as User ID.
Attendance Log Alert	When the record space of the attendance reaches the maximum threshold value, the device automatically displays the memory space warning. Users may disable the function or set a valid value between 1 and 9999.
Periodic Del of T&A Data	When attendance logs reach its maximum capacity, the device

	automatically deletes a set of old access logs. Users may disable the function or set a valid value between 1 and 999.
Periodic Del of T&A Photo	When attendance photos reach its maximum capacity, the device automatically deletes a set of old attendance photos. Users may disable the function or set a valid value between 1 and 99.
Periodic Del of Blocklist Photo	When block listed photos reach its maximum capacity, the device automatically deletes a set of old block listed photos. Users may disable the function or set a valid value between 1 and 99.
Authentication Timeout(s)	The amount of time taken to display a successful verification message. Valid value: 1 to 9 seconds.

8.3 Face Parameters

Tap **Face** on the **System** interface.



Liveness Settings	
Single-lens Liveness	☐
Single-lens Liveness Threshold	8
Dual-lens Liveness	☒
Dual-lens Liveness Threshold	1

Image Exposure Settings	
Face AE	☐
WDR	☐
Anti-flicker Mode	50HZ

Menu	Description
Recognition Settings	1:N Threshold: The verification will be successful only if the similarity between the acquired facial image and all registered facial templates is greater than the set value in the 1:N verification mode. The valid value ranges from 0 to 100. The higher the thresholds, the lower the misjudgement rate and higher is the rejection rate, and vice versa. It is recommended to set the default value of 88.
	1:1 Threshold: Under 1:1 verification mode, the verification will only be successful when the similarity between the acquired facial image and the user's facial templates enrolled in the device is greater than the set value. The valid value ranges from 0 to 100. The higher the thresholds, the lower the misjudgement rate and the higher is the rejection rate, and vice versa. It is recommended to set the default value of 88.
	Minimum Face Size: It sets the minimum face size required for facial registration and comparison. If the minimum size of the captured image is smaller than the set value, then it will be filtered off and not recognized as a face. This value can also be interpreted as the face comparison distance. The farther the individual is, the smaller the face, and the smaller number of pixels of the face obtained by the algorithm. Therefore, adjusting this parameter can adjust the farthest comparison of distance of faces. When the value is 0, the face comparison distance is not limited.
	Recognition Interval(s): After the interval identifying is clicked (selected), for example, if the comparison interval is set to 5 seconds, then the face recognition will verify the face every 5 seconds. Valid value: 0 to 9 seconds. 0 means continuous identifying, 1 to 9 means identifying at intervals.
	Identifying Tracking Identification: The same face can only be recognized once. To recognize it again, you must leave the

	Mode face recognition area and re-enter it before it can be recognized again. Multi-face Identifying: When it is toggled on, the device can identify multiple faces at once. The Content Mode to Display, and Count to Display can be configured only if it is toggled on. Content Mode to Display: You can select the content displayed below the user photo in the interface after the face verification is successful. Such as display the Name, User ID + Name, Timestamp, User ID + Timestamp, Name + Timestamp, User ID. Count to Display: You can choose the number of face verification results to be displayed in the interface at once, e.g., if set to 2, the interface displays up to 2 successful user verifications at once. Note: The Count to Display can be set from 1 to 2 users.
Liveness Settings	Single-lens Liveness: It detects the spoof attempt using visible light images to determine if the provided biometric source sample is of a real person (a live human being) or a false representation. Single-lens Liveness Threshold: It facilitates judging whether the captured visible image is a real person (a live human being). The larger the value, the better the anti-spoofing performance using visible light. Dual-lens Liveness: It uses near-infrared spectra imaging to identify and prevent fake photos and videos attack. Dual-lens Liveness Threshold: It is convenient to judge whether the near-infrared spectral imaging is fake photo and video. The larger the value, the better the anti-spoofing performance of near-infrared spectral imaging. Note: For the Anti-Spoofing settings, the user needs to enable both Single-lens Liveness and Dual-lens Liveness. By default, when one of the switches is turned on, the other one would be turned on simultaneously. When the option is turned on or off, the device reboots automatically to execute the function.
Image Exposure Settings	Face AE: When the face is in front of the camera in Face AE mode, the brightness of the face area increases, while other areas become darker. WDR: Wide Dynamic Range (WDR) balances light and extends image visibility for surveillance videos under high contrast lighting scenes and

improves object identification under bright and dark environments.

Anti-flicker Mode: It is used when WDR is turned off. It helps to reduce flicker when the device's screen flashes at the same frequency as the light.



Note:

1. Improper adjustment of the exposure and quality parameters may severely affect the performance of the device. Please adjust the exposure parameter only under the guidance of the after-sales service personnel of our company.
2. Face AE and Multi-face identifying are mutually exclusive options. When the Multi-face identifying feature switch is turned on, the Face AE switch will be automatically turned off. If you turn on Face AE at this time, the recognition mode will change to single face recognition mode.
3. The Face comparison interval and Tracking identification are mutually exclusive options. If the Tracking identification switch is turned on, the Face comparison interval function in the Face Identifying Settings will be disabled, and vice versa.

Process to modify the Facial Recognition Accuracy

- On the **System** interface, tap on **Face > Liveness Settings** and then toggle to enable Single-lens Liveness and Dual-lens Liveness to set the liveness settings.
- Then, on the main menu, tap **Autotest > Test Face** and perform the face test.
- Tap three times for the scores on the right upper corner of the screen, and the red rectangular box appears to start adjusting the mode.

Keep one arm distance between the device and the face. It is recommended not to move the face in a wide range.

8.4 Fingerprint

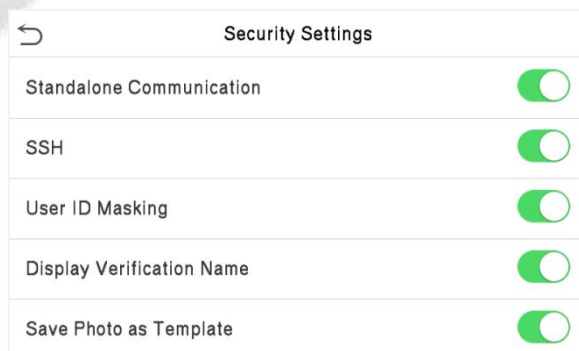
Tap **Fingerprint** on the **System** interface to go to the Fingerprint parameter settings.

Fingerprint	
1:1 Threshold	15
1:N Threshold	35
FP Sensor Sensitivity	Low
1:1 Retry Attempts	3
Fingerprint Image	Always Show

Menu	Description
1:1 Threshold	Under 1:1 verification method, the verification will only be successful when the similarity between the acquired fingerprint data and the fingerprint template associated with the entered user ID enrolled in the device is greater than the set value.
1:N Threshold	Under 1:N verification method, the verification will only be successful when the similarity between the acquired fingerprint data and the fingerprint templates enrolled in the device is greater than the set value.
FP Sensor Sensitivity	To set the sensibility of fingerprint acquisition. It is recommended to use the default level "Medium". When the environment is dry, resulting in slow fingerprint detection, you can set the level to "High" to raise the sensibility; when the environment is humid, making it hard to identify the fingerprint, you can set the level to "Low".
1:1 Retry Attempts	In 1:1 Verification, users might forget the registered fingerprint, or press the finger improperly. To reduce the process of re-entering user ID, retry is allowed.
Fingerprint Image	To set whether to display the fingerprint image on the screen during fingerprint enrollment or verification. Four choices are available: Show for Enroll: to display the fingerprint image on the screen only during enrollment. Show for Match: to display the fingerprint image on the screen only during verification. Always Show: to display the fingerprint image on screen during enrollment and verification. None: Not to display the fingerprint image.

8.5 Security Settings

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



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

8.6 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.

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

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

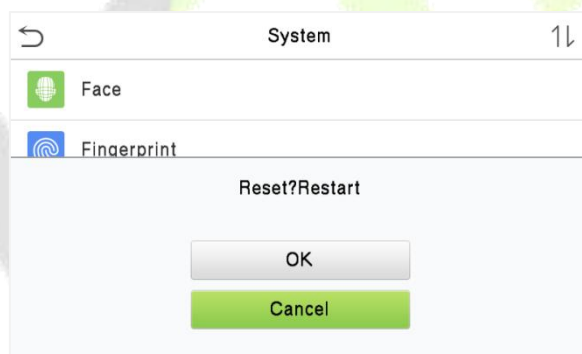


Note: If upgrade file is needed, please contact our technical support. Firmware upgrade is not recommended under normal circumstances.

8.7 Factory Reset

This option restores the device, such as communication settings and system settings, to factory settings (does not clear registered user data).

Tap **Reset** on the **System** interface.



Tap **OK** to reset.

9 Personalize Settings

You may customize the interface settings, audio, and bell.

Tap **Personalize** on the main menu interface.



9.1 Interface Settings

You can customize the display style of the main interface.

Tap **User Interface** on the Personalize interface.

←	User Interface	1↓
	Wallpaper	
	Language	English
	Menu Timeout(s)	99999
	Idle Time to Slide Show(s)	60
	Slide Show Interval(s)	30

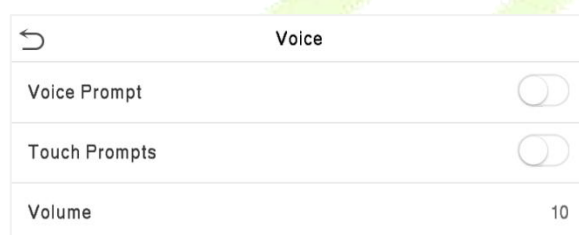
←	User Interface	1↓
	Menu Timeout(s)	99999
	Idle Time to Slide Show(s)	60
	Slide Show Interval(s)	30
	Idle Time to Sleep(m)	Disabled
	Main Screen Style	Style 1

Menu	Description
Wallpaper	To select the main screen wallpaper according to your personal preference.
Language	To select the language of the device.
Menu Timeout (s)	When there is no operation, and the time exceeds the set value, the device will automatically go back to the initial interface. You can disable the function or set the value between 60 and 99999 seconds.
Idle Time to Slide Show (s)	When there is no operation, and the time exceeds the set value, a slide show will be played. It can be disabled, or you may set the value between 3

	and 999 seconds.
Slide Show Interval (s)	This refers to the time interval switching different slide show pictures. The function can be disabled, or you may set the interval between 3 and 999 seconds.
Idle Time To Sleep (m)	If you have activated the sleep mode, when there is no operation, the device will enter the standby mode. You can disable this function or set a value within 1-999 minutes.
Main Screen Style	To select the main screen style according to your personal preference.

9.2 Voice Settings

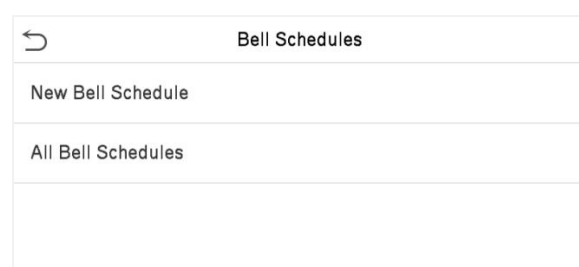
Tap **Voice** on the Personalize interface.



Menu	Description
Voice Prompt	Select whether to enable voice prompts during operation.
Touch Prompts	Select whether to enable keypad sounds.
Volume	Adjust the volume of the device; valid value: 0 to 100.

9.3 Bell Schedules

Tap **Bell Schedules** on the Personalize interface.



Add a Bell

Tap **New Bell Schedule** to enter the adding interface:

New Bell Schedule	
Bell Status	☐
Bell Time	
Repeat	Never
Ring Tone	bell01.wav
Internal Bell Delay(s)	5

Menu	Description
Bell Status	Set whether to enable the bell status.
Bell Time	At this time of day, the device automatically rings the bell.
Repeat	Set the repetition cycle of the bell.
Ring Tone	Select a ring tone.
Internal Bell Delay (s)	Set the duration of the internal bell. Valid values range from 1 to 999 seconds.

Back to the Bell Schedules interface; tap **All Bell Schedules** to view the newly added bell.

Edit a Bell

On the All Bell Schedules interface, tap the bell to be edited.

Tap **Edit**, the editing method is the same as the operations of adding a bell.

Delete a Bell

On the All Bell Schedules interface, tap the bell to be deleted.

Tap **Delete** and select **[Yes]** to delete the bell.

9.4 Punch States Options

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

The screenshot shows a mobile app interface titled 'Punch State Options'. At the top, there is a back arrow and the title. Below the title, there is a toggle switch labeled 'Punch State Mode' which is currently in the 'Off' position.

The screenshot shows a mobile app interface titled 'Punch State Mode'. At the top, there is a back arrow and a refresh icon. Below the title, there is a list of five radio button options: 'Manual Mode', 'Auto Mode', 'Manual and Auto Mode', 'Manual Fixed Mode', and 'Fixed Mode'. None of the options are currently selected.

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

9.5 Shortcut Key Mappings

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

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

Shortcut Key Mappings	
F1	Check-In
F2	Check-Out
F3	Break-Out
F4	Break-In
F5	Overtime-In

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

F1		Function	
Punch State Value	0	☐ Undefined	
Function	Punch State Options	☒ Punch State Options	
Name	Check-In	☐ New User	
		☐ All Users	
		☐ Ethernet	

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

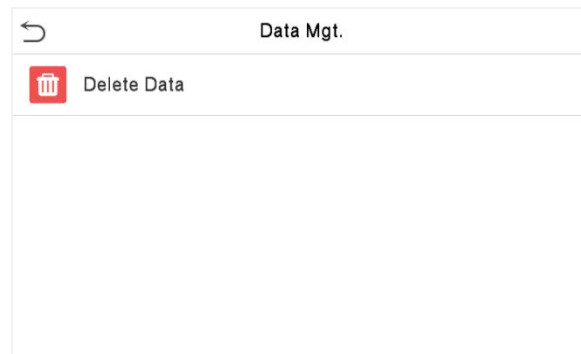


Note: When the function is set to Undefined, the device will not enable the punch state key.

10 Data Management

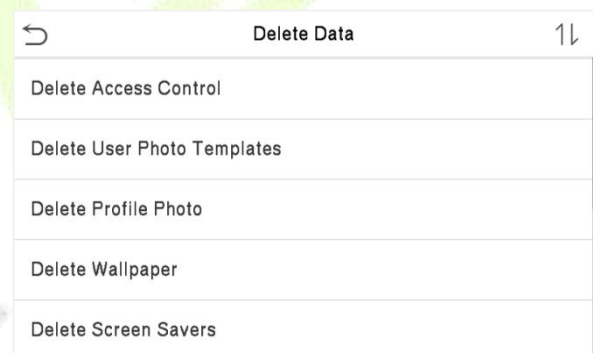
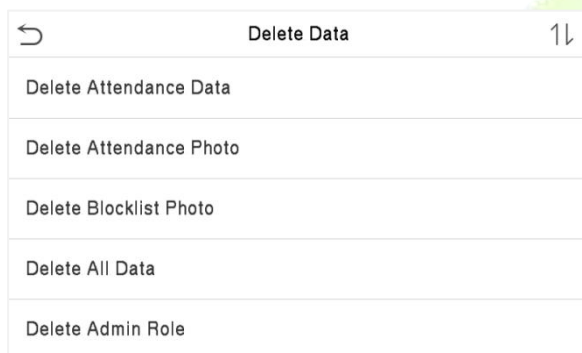
The Data Management is used to delete the relevant data in the device.

Tap **Data Mgt.** on the main menu interface.



10.1 Delete Data

Tap **Delete Data** on the Data Mgt. interface.

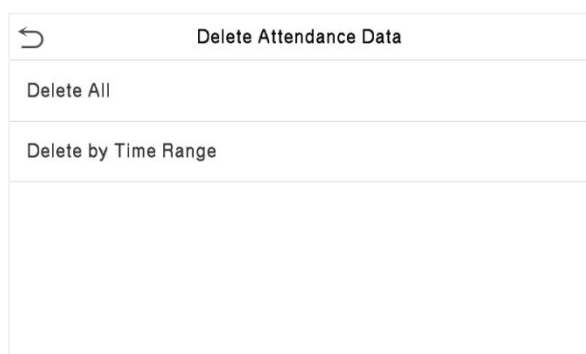


Menu	Description
Delete Attendance Data	To delete attendance data conditionally.
Delete Attendance Photo	To delete attendance photos of designated personnel.
Delete Blocklist Photo	To delete the photos taken during failed verifications.
Delete All Data	To delete information and attendance logs/access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

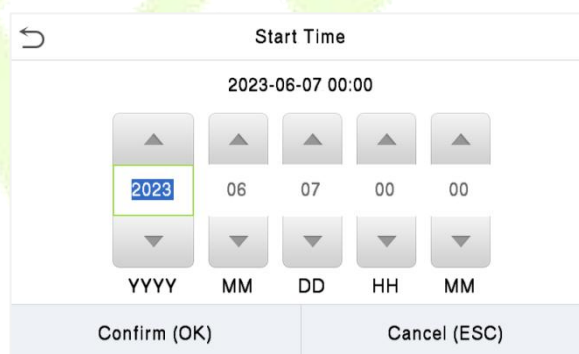
Delete User Photo Templates	To delete user photo templates in the device. When deleting template photos, there is a risk reminder: "Face re-registration is required after an algorithm upgrade."
Delete Profile Photo	To delete all the profile photos on the device.
Delete Wallpaper	To delete all wallpapers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

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

Select Delete by Time Range



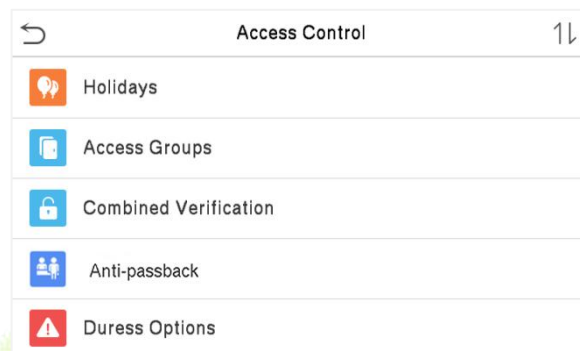
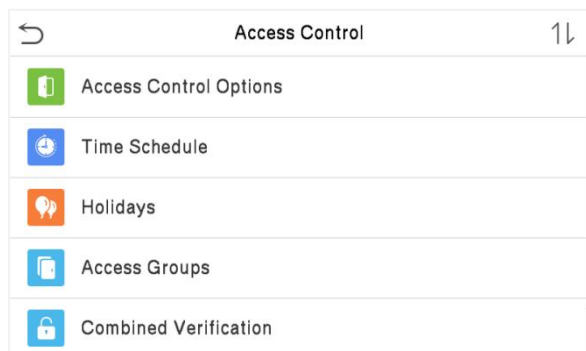
Set the time range and tap OK



11 Access Control

Access Control is used to set the schedule of a door opening, locks control and other parameter settings related to access control.

Tap **Access Control** on the main menu interface.



To gain access, the registered user must meet the following conditions:

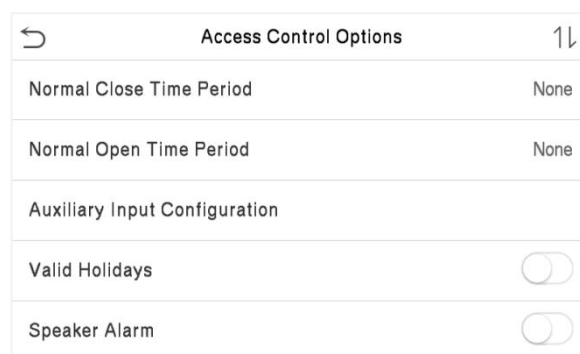
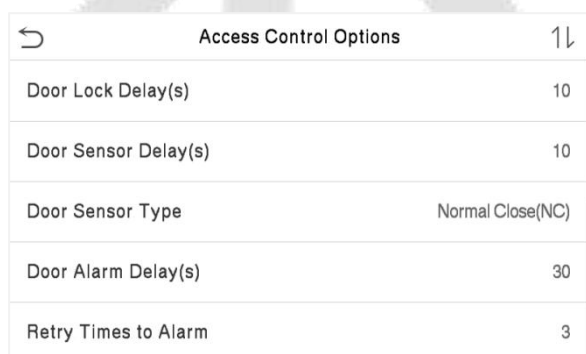
1. The current door unlock time should be within any valid time zone of the user time period.
2. The user's group must be in the door unlock combination (when there are other groups in the same access combo, verification of members of those groups are also required to unlock the door).

In default settings, new users are allocated into the first group with the default group time zone and access combo as "1" and set in an unlocking state.

11.1 Access Control Options

This option is used to set the parameters of the control lock of the device and the related parameters.

Tap **Access Control Options** on the Access Control interface.



Access Control Options	
Normal Open Time Period	None
Auxiliary Input Configuration	
Valid Holidays	☐
Speaker Alarm	☐
Reset Access Settings	

Menu	Description
Door Lock Delay (s)	The length of time that the device controls the electric lock to be in unlock state. Valid value: 1 to 10 seconds; 0 seconds represents disabling the function.
Door Sensor Delay (s)	If the door is not locked and is left open for a certain duration (Door Sensor Delay), an alarm will be triggered. The valid value of Door Sensor Delay ranges from 1 to 255 seconds.
Door Sensor Type	There are three Sensor types: None, Normal Open, and Normal Closed. Normally Open(NO): It means the door is always left open when electric power is on. Normally Closed(NC): It means the door is always left closed when electric power is on. None: It means the door sensor is not in use.
Door Alarm Delay (s)	When the state of the door sensor is inconsistent with that of the door sensor type, an alarm will be triggered after a specified time period, i.e. the Door Alarm Delay. The valid value ranges from 1 to 999 seconds. 0 means immediate alarm.
Retry Time to Alarm	When the number of failed verification reaches a set value, which ranges from 1 to 9 times, an alarm will be triggered. If the set value is "None", the alarm will never be triggered due to failed verifications.
Normal Close Time Period	Scheduled time period for "Normal Close" mode, so that no one can gain access during this period.

Normal Open Time Period	It is the scheduled time-period for “Normal Open” mode so that the door is always open during this period.
Auxiliary Input Configuration	Sets the door unlock time period and auxiliary output type of the auxiliary terminal device. Auxiliary output types include None, Trigger door open, Trigger Alarm, Trigger door open and Alarm.
Valid Holiday	To set if Normal Close Period or Normal Open Period settings are valid in set holiday time period. Choose ON to enable the functions during holiday.
Speaker Alarm	It transmits a sound alarm or disassembly alarm from the local. When the door is closed or the verification is successful, the system cancels the alarm from the local.
Reset Access Setting	The access control reset parameters include door lock delay, door sensor delay, door sensor type, verification mode, door available time period, normal open time period, master device, and alarm. However, erased access control data in Data Mgt. is excluded.

11.2 Time Schedule

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

- The entire system can define up to 50 Time Periods.
- Each time-period represents **7** Time Zones, i.e., **1** week, and each time zone is a standard 24 hour period per day and the user can only verify within the valid time-period.
- The Time Zone format of each time-period is **HH MM-HH MM**, which is accurate to minutes according to the 24-hour clock.

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

The screenshot shows a mobile application interface for 'Time Schedule'. At the top, there is a title bar with a back arrow, 'Time Schedule:01/50', and a dropdown arrow. Below this is a list of days: Sunday, Monday, Tuesday, and Wednesday. Each day has a corresponding time range of '00:00 23:59'. At the bottom, there is a search bar with a magnifying glass icon.

Click the date on which time zone settings is required. Enter the starting and ending time, and then tap OK.

**Note:**

1. The door is inaccessible for the whole day when the End Time occurs before the Start Time (such as 23:57~23:56).
2. It is the time interval for valid access when the End Time occurs after the Start Time (such as 08:00~23:59).
3. The door is accessible for the whole day when the End Time occurs after the Start Time (such that Start Time is 00:00 and End Time is 23:59).
4. The default Time Zone 1 indicates that the door is open all day long.

11.3 Holiday Settings

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

Tap **Holidays** on the Access Control interface.

Add a New Holiday

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

Holidays	
No.	1
Start Date	Undefined
End Date	Undefined
Time Period	1

Edit a Holiday

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

Delete a Holiday

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

11.4 Access Groups

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

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

Access Groups	
New Group	
All Groups	

Add a New Group

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

Access Groups	
No.	2
Verification Mode	Password/Fingerprint/Card/Face
Time Period 1	1
Time Period 2	0
Time Period 3	0

Access Groups	
Verification Mode	Password/Fingerprint/Card/Face
Time Period 1	1
Time Period 2	0
Time Period 3	0
Include Holidays	☐



Note:

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

Edit a Group

On the All Groups interface, select the access group item to be modified. Click Edit and modify access group parameters.

Delete a Group

On the All Groups interface, select the access group item to be deleted and click Delete. Click OK to confirm deletion. The deleted access group is no longer displayed in All Groups.

11.5 Combined Verification Settings

Access groups are arranged into different door-unlocking combinations to achieve multiple verifications and strengthen the security.

In a door-unlocking combination, the range of the combined number N is: $0 \leq N \leq 5$, and the number of members N may all belong to one access group or may belong to five different access groups.

Click **Combined Verification** on the Access Control interface.

Combined Verification	
1	01 00 00 00 00
2	00 00 00 00 00
3	00 00 00 00 00
4	00 00 00 00 00

Combined Verification

1 0 0 0 0

1 2 3 4 5

Confirm (OK) Cancel (ESC)

Tap the door-unlocking combination to be set. Tap the up and down arrows to input the combination number, then tap OK.

Examples:

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

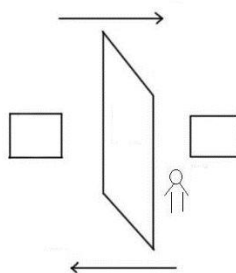
Delete a Door-unlocking Combination

Set all the group numbers as 0 if you want to delete door-unlocking combinations.

11.6 Anti-passback Setup

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

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



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

Anti-passback Setup

Anti-passback Direction

No Anti-passback

Anti-passback Direction

☒ No Anti-passback

☐ Out Anti-passback

☐ In Anti-passback

☐ In/Out Anti-passback

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

11.7 Duress Options Settings

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

Tap **Duress Options** on the Access Control interface.

Duress Options	
Alarm on Password	☐
Alarm on 1:1 Match	☐
Alarm on 1:N Match	☐
Alarm Delay(s)	10

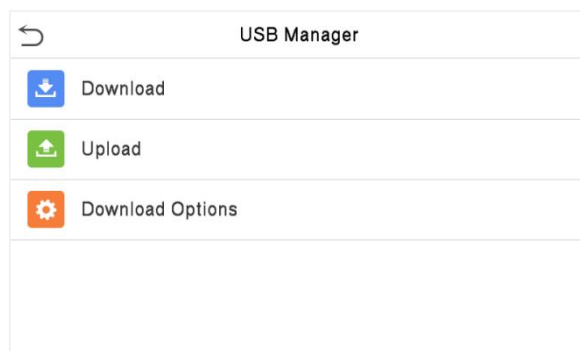
Menu	Description
Alarm on Password	When a user uses the password verification method, an alarm signal will be generated, otherwise there will be no alarm signal.
Alarm on 1:1 Match	When a user uses any fingerprint to perform the 1:1 verification, an alarm signal will be generated, otherwise there will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

12 USB Manager

You can import the user information, and attendance data in the machine to matching attendance software for processing by using a USB disk, or import the user information to other devices for backup.

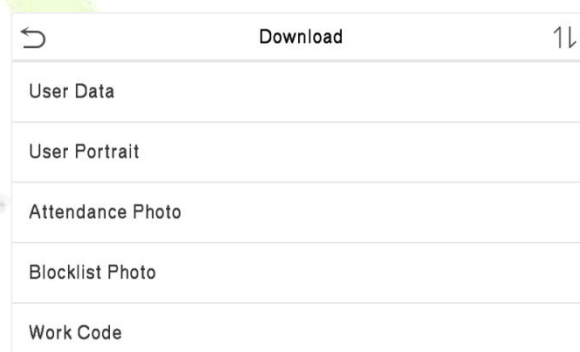
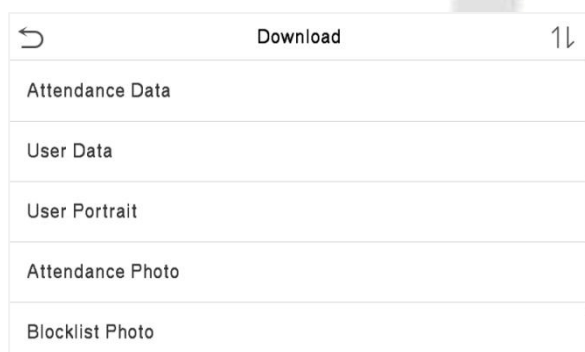
Before uploading/downloading data from/to the USB disk, insert the USB disk into the USB slot first.

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



12.1 USB Download

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



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

	from the device into USB disk.
Work Code	To download all work code from the device into USB disk.



Note: If the user's capacity exceeds 30000, be sure to use **exFAT format** when downloading data using USB disk.

12.2 USB Upload

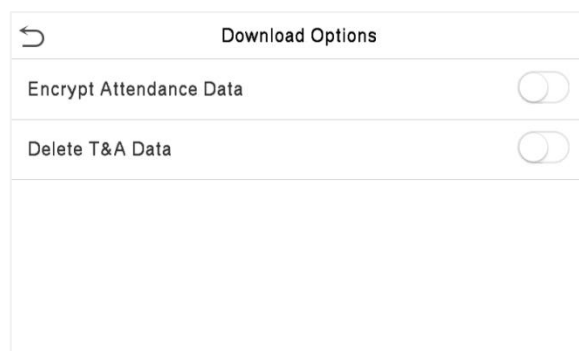
On the **USB Manager** interface, tap **Download**.

←	Upload
Screen Saver	
Wallpaper	
User Data	
User Portrait	
Upload Work Code	

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

12.3 Download Options

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



Menu	Description
Encrypt Attendance Data	The attendance data is encrypted during the uploading and downloading.
Delete T&A Data	After successful downloading, the attendance data on the device is deleted.

13 Attendance Search

Once the identity of a user is verified, the access record is saved in the device. This function enables users to check their event logs.

Select **Attendance Search** on the main menu interface to search for the required record.



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

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

1. Enter the user ID to be searched and tap OK. If you want to search for records of all users, tap OK without entering any user ID.
2. Select the time range in which the records you want to search for.

3. The record search succeeds. Tap the record in green to view its details.

Date	User ID	Time
06-05		Number of Records:02
	2	16:20
	1	16:20

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

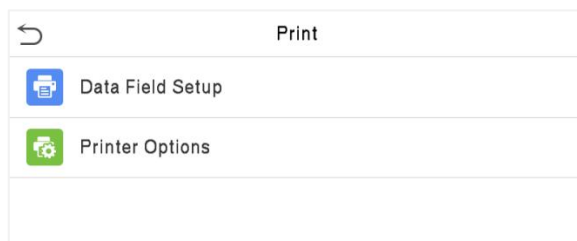
User ID	Name	Time	Mode
2	lucy	06-05 16:20	1

Verification Mode : Fingerprint Punch State : 255

14 Print Settings

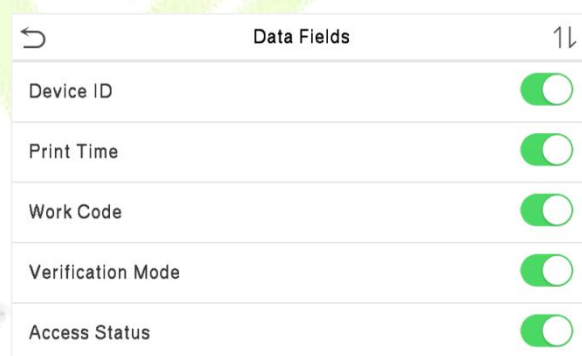
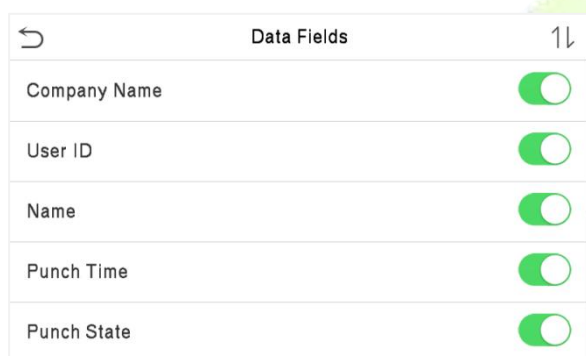
Devices with the printing function can print attendance records when a printer is connected (this function is optional and only implemented in some products).

Tap **Print** on the Main Menu interface.



14.1 Print Data Field Settings

Select **Data Field Setup** on the **Print** interface. Toggle  button to turn on/off the fields requiring a print.



14.2 Print Options Settings

Select the **Printer Options** on the **Print** interface. Toggle  button to enable or disable the **Paper Cut** function.

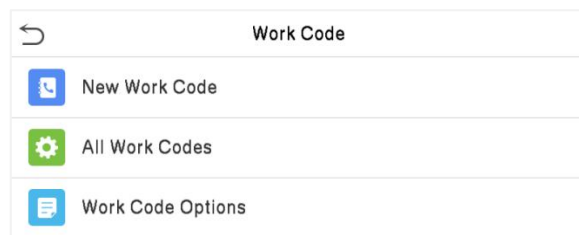


 **Note:** To turn on the **Paper Cut** function, it is required to connect the device with a printer with paper cutting function, so that the printer will cut papers according to the selected printing information while printing.

15 Work Code

Employees' salaries are subject to their attendance records. An employee can be engaged in more than one type of work which may vary with time. As the pay varies according to the work types, the FFR terminal provides a parameter to indicate the corresponding work type for every attendance record to facilitate rapid understanding of different attendance situations during the handling of attendance data.

Tap **Work Code** on the main menu interface.



15.1 Add a Work Code

Menu	Description
ID	It is the digital code of the work code. Users may set a valid value between 1 and 99999999.
Name	It is the naming of the work code.

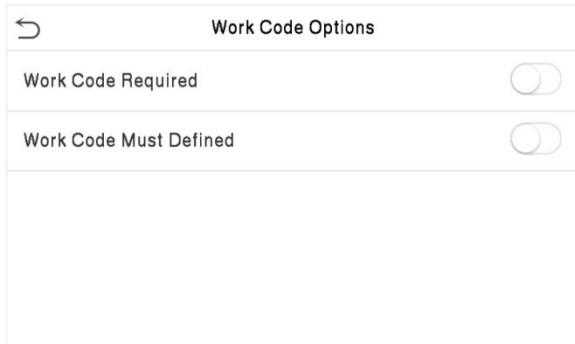
15.2 All Work Codes

You can view, edit and delete work codes in All Work Codes. The process of editing a work code is the same as adding a work code, except that the ID is not allowed to be modified.

ID	Name
1	Test
2	HR

15.3 Work Code Options

To set whether entering the work code is a must and whether the entered work code must exist during authentication.

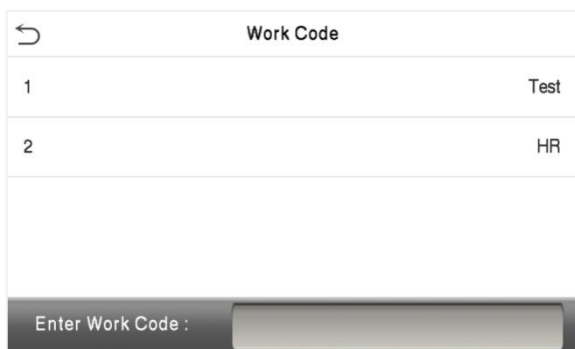


Work Code Options	
Work Code Required	☐
Work Code Must Defined	☐



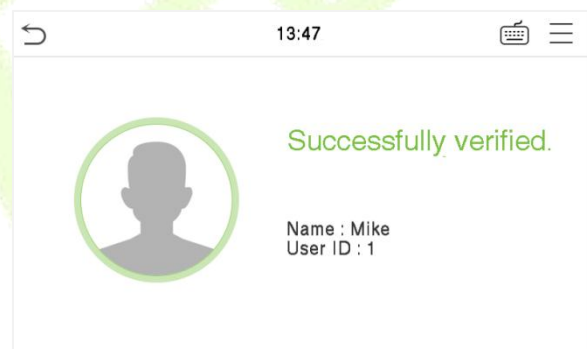
Work Code Options	
Work Code Required	☒
Input Screen Timeout(s)	5
Work Code Must Defined	☒

In **1: N** or **1:1** verification, the system will automatically pop up the following window. Select the corresponding Word Code manually to verify successfully.



Work Code	
1	Test
2	HR

Enter Work Code :



13:47

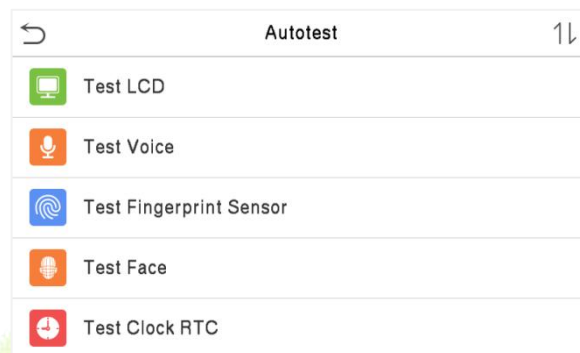
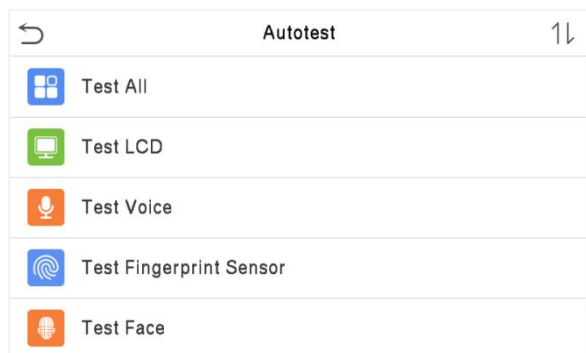
Successfully verified.

Name : Mike
User ID : 1

16 Autotest

To automatically test whether all modules in the device function properly, which include the LCD, Audio, Camera, fingerprint and real-time clock (RTC).

Tap **Autotest** on the main menu interface.

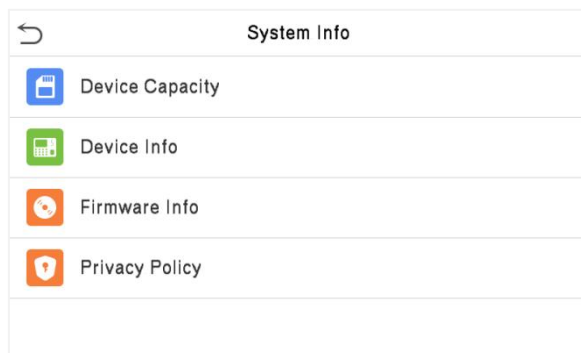


Menu	Description
Test All	To automatically test whether the LCD, audio, camera, fingerprint and RTC are normal.
Test LCD	To automatically test the display effect of LCD screen by displaying full-color, pure white, and pure black to check whether the screen displays the colors normally.
Test Voice	To automatically test whether the audio files stored in the device are complete and the voice quality is good.
Test Fingerprint Sensor	To test the fingerprint sensor by pressing a finger on the scanner to check if the acquired fingerprint image is clear. When you are pressing a finger on the scanner, the fingerprint image will display on the screen.
Test Face	To test if the camera functions properly by checking the pictures taken to see if they are clear enough.
Test Clock RTC	To test the RTC. The device tests whether the clock works normally and accurately with a stopwatch. Touch the screen to start counting and tap it again to stop counting.

17 System Information

With the system information option, you can view the storage status, the version information of the device, and so on.

Click **System** Info on the main menu interface.



Menu	Description
Device Capacity	Displays the current device's user storage, password, fingerprint, face and card ★ storage, administrators, attendance records, attendance and blocklist photos.
Device Info	Displays the Device's name, Serial number, MAC Address, Face and fingerprint algorithm version information, platform information, MCU Version, manufacturer and manufacture Date.
Firmware Info	Displays the Firmware version and other version information of the device.
Privacy Policy	The privacy policy control will appear when the gadget turns on for the first time. After tapping "I have read it," the customer can use the product regularly. Tap System Info -> Privacy Policy to view the content of the privacy policy. The privacy policy's content does not allow for U disc export. Note: The current privacy policy's text is only available in Simplified Chinese/English. However, translation of other multi-language content is underway, with more iterations.

Appendix 1

Requirements of Live Collection and Registration of Visible Light Face Templates

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



Image1 Face Capture Area

Requirements for Visible Light Digital Face Template Data

Digital photo should be straightly edged, colored, half-portrayed with only one person, and the person should be uncharted and not in uniform. Persons who wear eyeglasses should remain to put on eyeglasses for photo capturing.

- **Eye Distance**

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

- **Facial Expression**

Plain face or smile with eyes naturally open are recommended.

- **Gesture and Angel**

Horizontal rotating angle should not exceed $\pm 10^\circ$, elevation should not exceed $\pm 10^\circ$, and depression angle should not exceed $\pm 10^\circ$.

- **Accessories**

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

- **Face**

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

- **Image Format**

Should be in BMP, JPG or JPEG.

- **Data Requirement**

Should comply with the following requirements:

- 1) White background with dark-colored apparel.
- 2) 24bit true color mode.
- 3) JPG format compressed image with not more than 20kb size.
- 4) Definition rate between 358 x 441 to 1080 x 1920.
- 5) The vertical scale of head and body should be 2:1.
- 6) The photo should include the captured person's shoulders at the same horizontal level.
- 7) The captured person should be eyes-open and with clearly seen iris.
- 8) Plain face or smile is preferred, showing teeth is not preferred.
- 9) The captured person should be clearly seen, natural in color, and without image obvious twist, no shadow, light spot or reflection in face or background, and appropriate contrast and lightness level.

Appendix 2

Privacy Policy

Notice:

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

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

I. Collected Information

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

- 1. User Registration Information:** At your first registration, the feature template (**Fingerprint template/Face template/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/privacy_protection.html to learn more about how we collect, use, and securely store your personal information. To keep pace with the rapid development of technology, adjustment of business operations, and to cope with customer needs, we will constantly deliberate and optimize our privacy protection measures and policies. Welcome to visit our official website at any time to learn our latest privacy policy.

Eco-friendly Operation



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

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

Hazardous or Toxic substances and their quantities

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

○ 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.



Attachment 1

"Hereby, ZKTECO CO.,LTD declares that this Product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

"This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter."

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

Phone : +86 769 - 82109991

Fax : +86 755 - 89602394

www.zkteco.com

