



EFACE3000 User Manual



About This Manual

- This manual introduces the operation of user interfaces and menu functions of 4.3 inches Touch Screen & Facial Attendance Terminal series products. For the installation, Please refer to *4.3-Inches Touch Screen & Facial Attendance Terminal Quick Start Guide*.
- Not all the devices have the function with ★, the real product prevails.
- The pictures in this manual may not be exactly consistent with those of your product; the actual product's display shall prevail.

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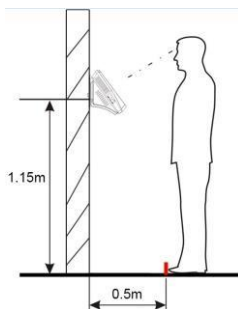
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1 Guidance Notes

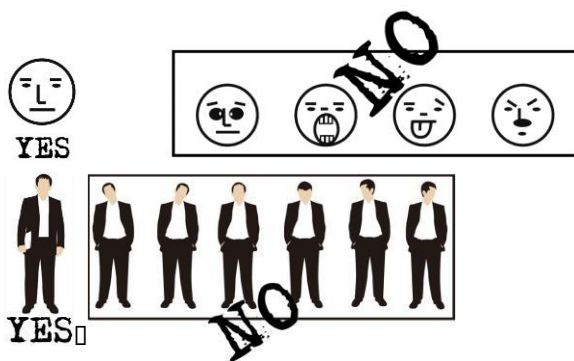
1.1 Standing Position, Facial Expression and Stance

- Recommended Standing Position



✓ The distance between a person and the device is recommended to be 0.5 meters (applicable height range from 1.5–1.8 meters). The distance can be adjusted based on the effect of facial image captured by the device.

- Facial Expression and Stance

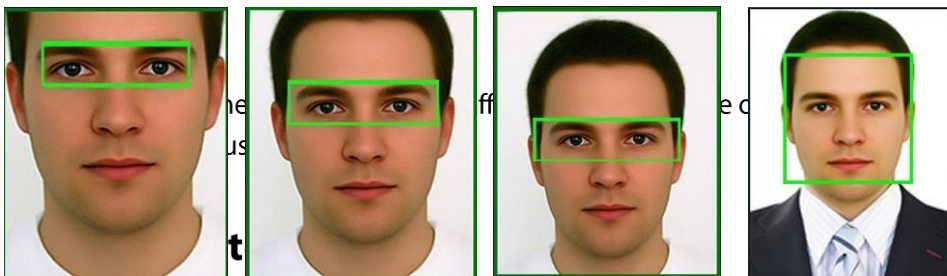


Note: During enrollment and verification, keep the facial expression and stance natural.

1.2 Posture for Enrollment and Comparison

During enrollment, you need to move forward or backward to ensure that your eyes are within the green frame.

During comparison, ensure that the face is displayed in the center of the screen and is within the green frame.



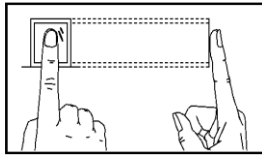
It is recommended that display the face in the middle of the screen, and focus eyes inside the green

When the device is powered on, please press the power switch on the left side of the device, wait for a minute and the initial interface will be shown as following.

1.3 Method of Pressing Fingerprint

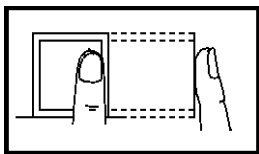
It is recommended to use the **index finger**, **middle finger** or **ring finger**; avoid using the thumb or little finger.

1. Correct way to press the fingerprint:

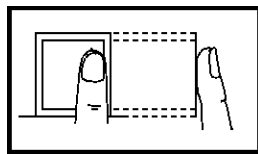


Press the finger horizontally onto the fingerprint sensor; the center of the fingerprint should be placed on that of the sensor.

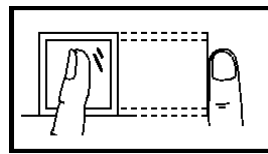
2. Wrong ways to press the fingerprint:



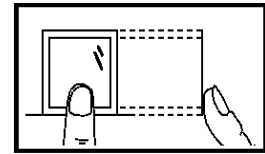
Vertical



Sides



Slanted

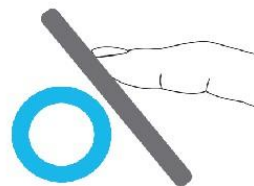
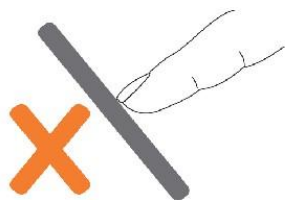


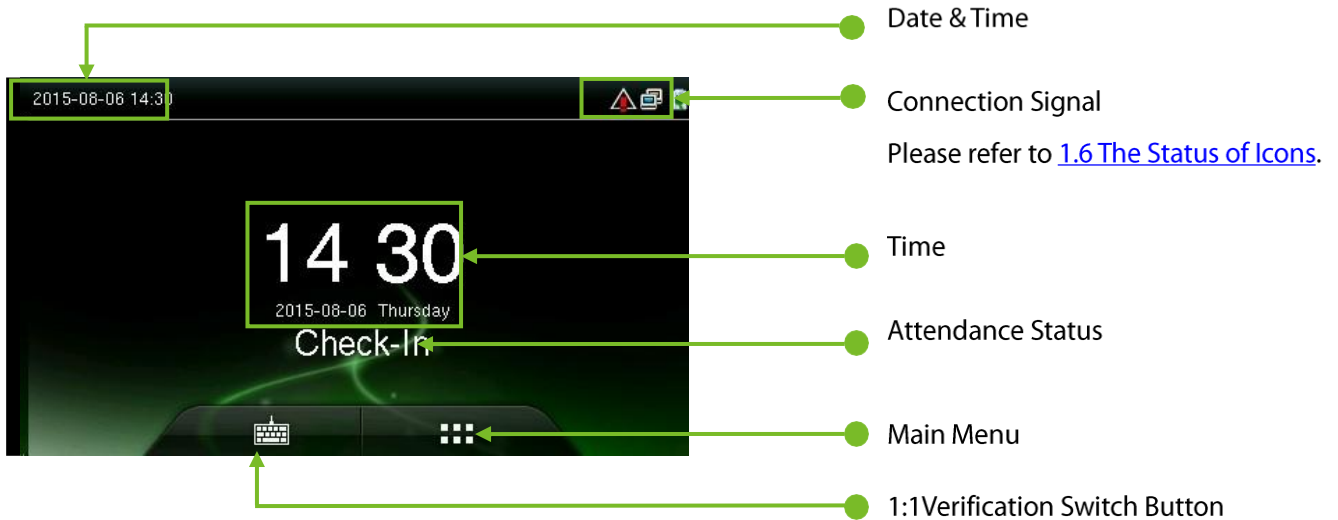
Too Low

NOTE: Please use the correct method of pressing fingerprint for registration and verification. Our company does not undertake the responsibility for the lowered verification performance caused by user's improper operation. The rights to final interpretation and amendment are reserved.

1.4 Usage of the Touch Screen

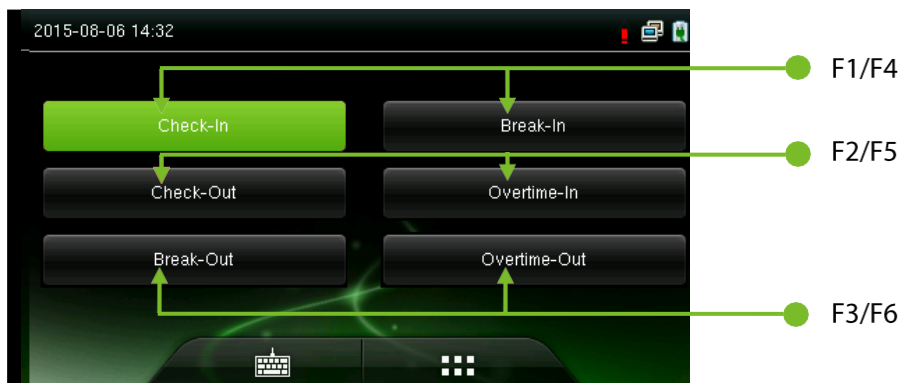
You may tap the touch screen, or tap and slide it using a finger pulp. Taping the screen with a fingertip or fingernail may compromise the use effect.







NOTE:



















- ✧ Attendance Status include Check-In, Check-Out, Break-In, Break-Out, Overtime-In, and Overtime-Out.
- ✧ You can change the Attendance Status by taping the initial screen where there is no icon.



You can press a corresponding shortcut key to select current attendance status, which is displayed in green. For details, see the introduction in section 8.5 Shortcut Key Definitions below.

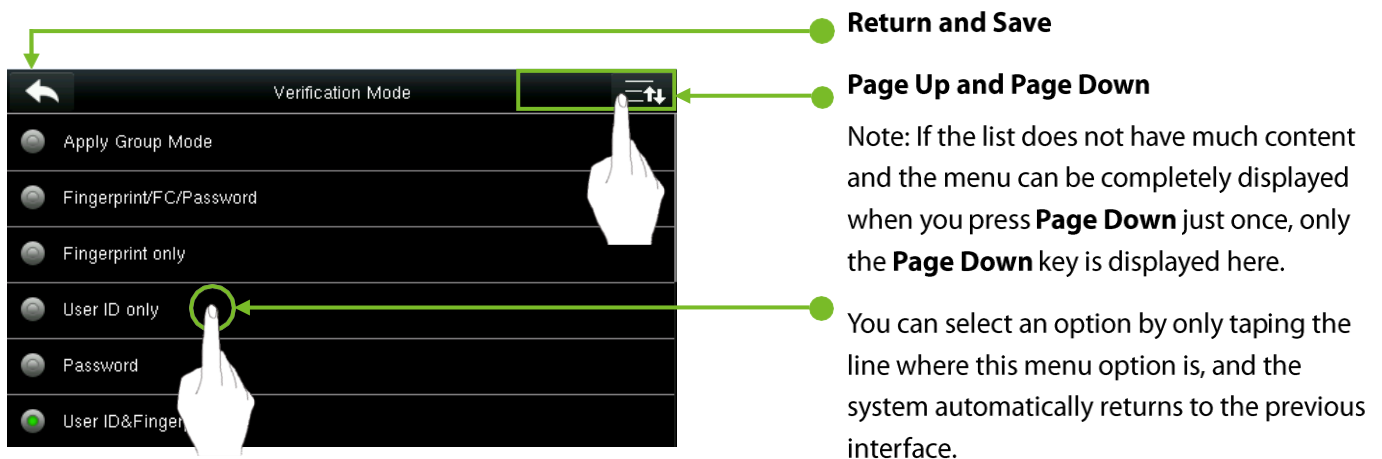
- ✧ Tap  to enter the main menu interface, please verify the admin when it is registered.
- ✧ Tap  to enter the interface of 1:1 verify mode and enter the user ID. For details, see section [1.8 Verify Mode](#).

1.6 Status of Icons

Status Icon	Name	Description
	Cell signal	<p>The status icons indicate whether you are within the coverage of the cellular mobile network, with more green bars indicating stronger signal.</p> <p>G: indicates that the current mobile network is GPRS network, over which the device accesses the Internet.</p> <p>E: indicates that the operator's EDGE (GSM) network is available, over which the device accesses the Internet.</p> <p>W: indicates that the current mobile network is WCDMA network, over which the device accesses the Internet.</p> <p>H: indicates that the current mobile network is HSDPA network, over which the device accesses the Internet.</p> <p>T: indicates that the current mobile network is TD-SCDMA network, over which the device accesses the Internet.</p> <p>1X: indicates that the current mobile network is CDMA 1X network, over which the device accesses the Internet.</p> <p>3G: indicates that the operator's 3G UMTS (GSM) or EV-DO (CDMA) network is available.</p>
		
		
		
		
		
		
		Indicates that no mobile network is available.
	Bell	Indicates that you have set the bell.
		Indicates that a disassembly alarm.
	Ethernet	Indicates that the connection to Ethernet has been established.
		Indicates that the Ethernet is disconnected.
	ADMS Server	The connection between device and ADMS server is successful.
		The connection between device and ADMS server is failed.
		The communication data of ADMS are transmitting.
	Short Messages	There are public short messages.
	Wi-Fi signal	The Wi-Fi connection is normal.
		The Wi-Fi connection fails.

1.7 Touch Operations

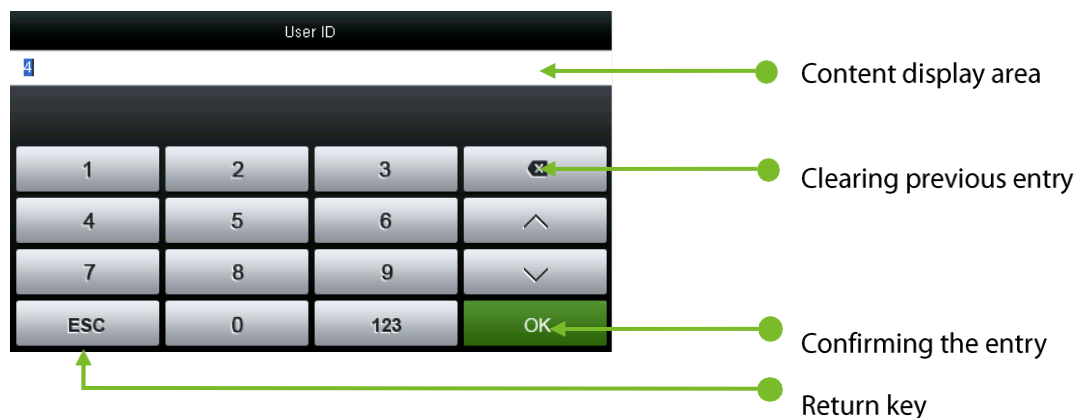
1.7.1 Basic Operations



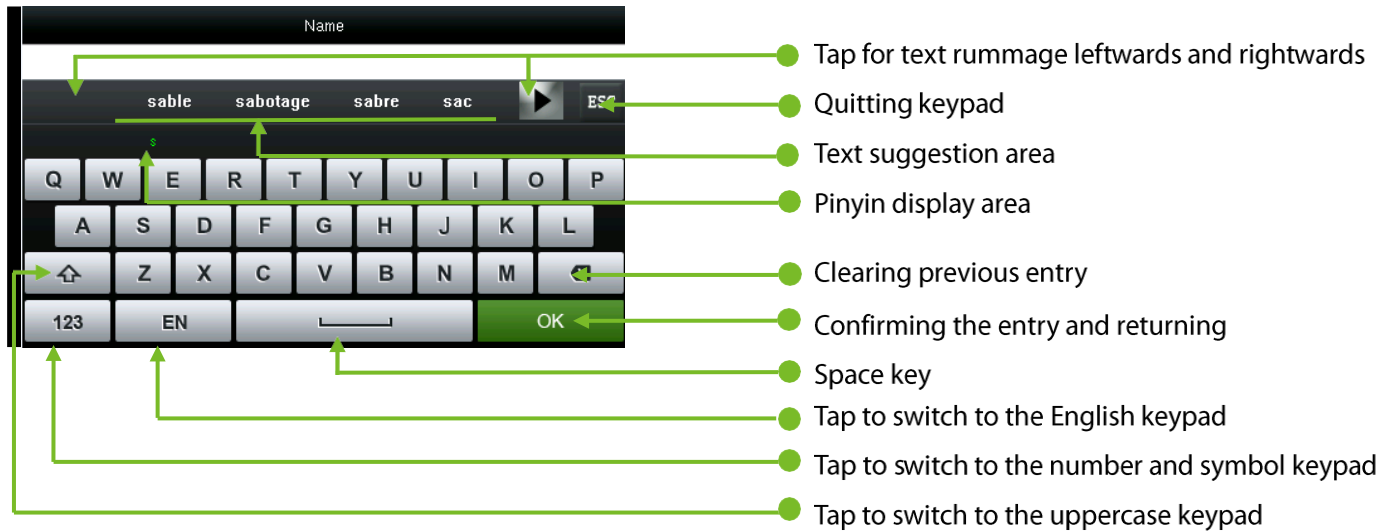
Note: During operations, after registering or modifying user information or setting parameters, you need to tap **Return/Save** to make the settings take effect. If timeout and no operations on the interface, the system returns to the main interface without saving registration, user information modification or parameter settings.

1.7.2 Soft Keypad

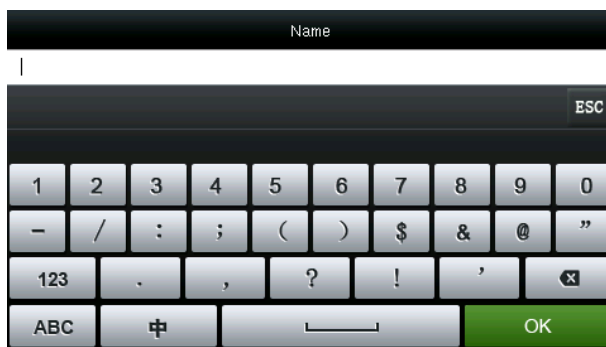
- **Digital Keypad**



● Letter Keypad



● Digital and Letter Keypad



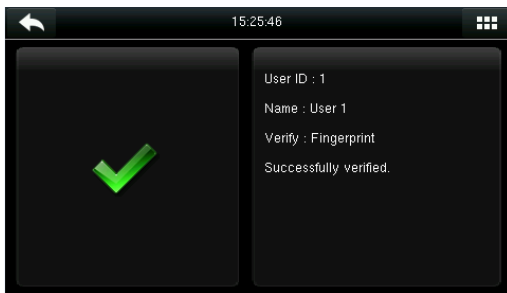
1.8 Verify Mode

1.8.1 Fingerprint Verification ★

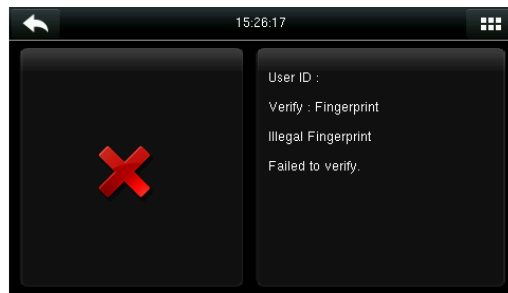
● 1:N Fingerprint Verification

Under this fingerprint verification method, a fingerprint collected by the sensor is verified with all fingerprints stored in the device.

- ◆ To enter the fingerprint verification mode. The device automatically distinguishes face and fingerprint verification, just pressing finger on the collector. Shall be fingerprint authentication mode.
- ◆ Please use the correct way to press fingerprint onto the fingerprint sensor (for detailed instruction, please refer to [1.3 Method of Pressing Fingerprint](#)).




Verification Succeeds

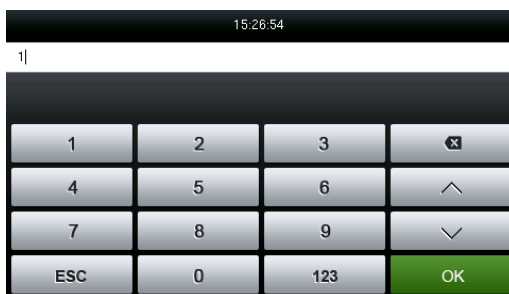


Verification Fails

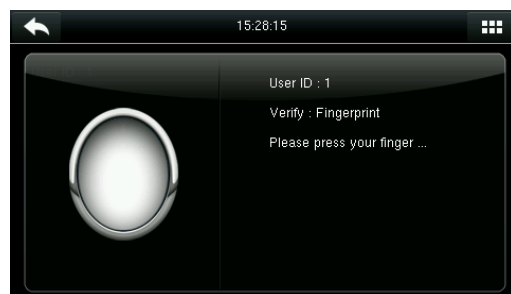
● 1:1 Fingerprint Verification

Under this fingerprint verification method, a fingerprint collected by the sensor is verified with the fingerprint corresponding to the entered user ID. Please use this method when difficulty is encountered in 1:N fingerprint verification.

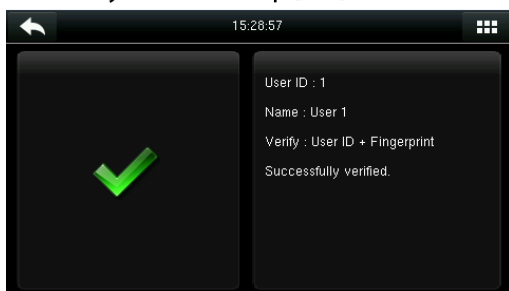
- ◆ Press  on the screen to enter 1:1 Verify Mode.



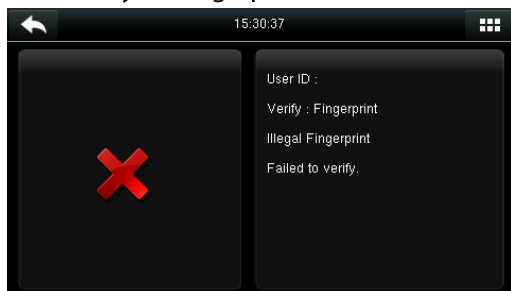
1. Enter your ID and tap [OK].



2. Press your fingerprint for verification.

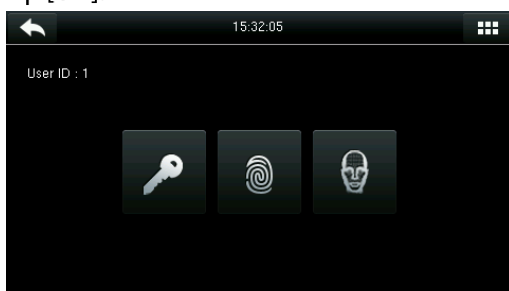


3. Verification succeeds.

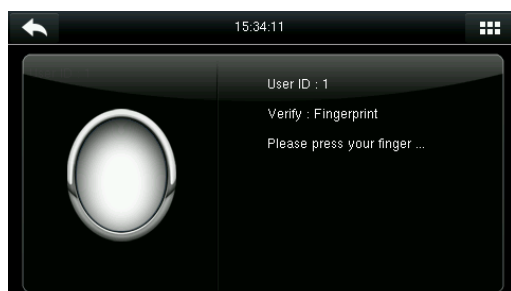


4. Verification fails.

If you have registered multiple verification modes, the following interface appears after you enter your ID and tap [OK].



Tap the Fingerprint icon to access the fingerprint verification interface.



Press your finger onto the fingerprint scanner to scan your fingerprint for verification. The result is displayed as above.

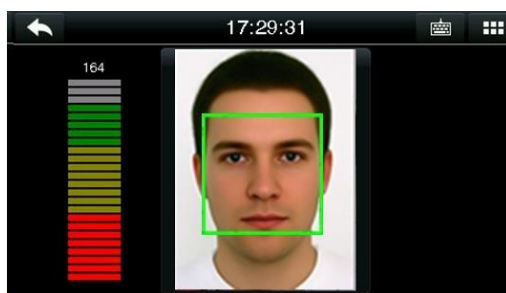
Note: If you have registered only your fingerprint, you will access the fingerprint verification interface directly after entering your ID. If you have registered in multiple verification modes, the icons of registered verification modes are displayed, as the above figure with Password, Fingerprint and Face displayed.

1.8.2 Face-based Attendance

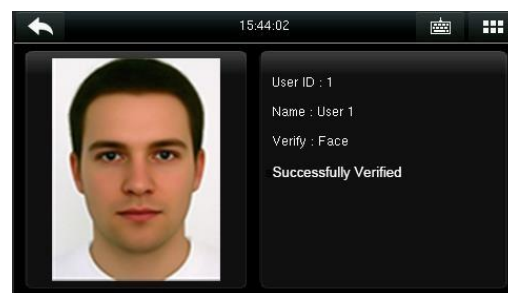
● 1:N Face-based Attendance

Compare the facial image captured by the camera with all facial data in the device.

- ◆ The device automatically differentiates between face and fingerprint verification modes. Place your face within the capture area of the camera (without your finger being placed at the fingerprint scanner), and the device automatically performs detection in face verification mode.



Conduct comparison in the correct way on the main interface.

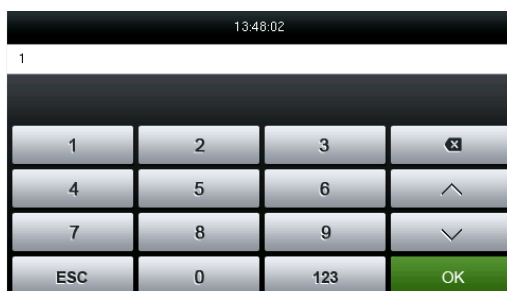


Verification passed.

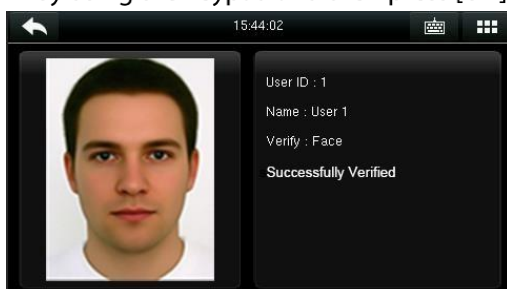
● 1:1 Face-based Attendance

Compare the captured facial image with the facial image associated with the entered user ID.

Note: If "No data registered" is prompted after a user enter the ID and press **[OK]**, the user corresponding to this ID does not exist.



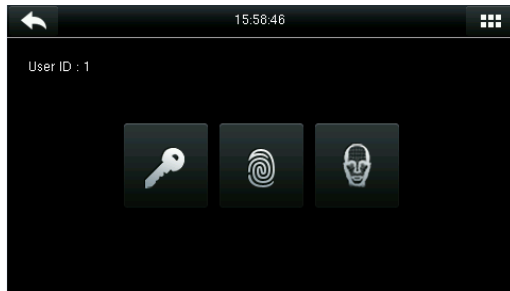
1. Enter the user ID into the main interface by using the keypad and then press **[OK]**.



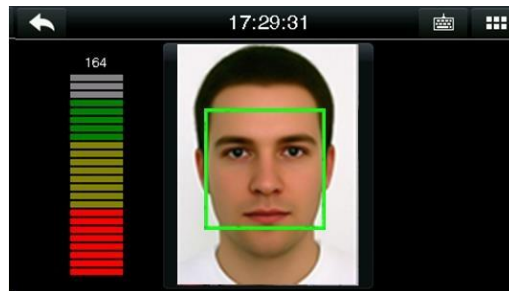
2. Compare the faces in the right way.

3. Verification passed. If the verification fails for 20 consecutive seconds, the system returns to the main interface.

If you have registered multiple verification modes, the following interface appears after you enter your ID and tap [OK].



Tap the **Face** icon to access face verification.



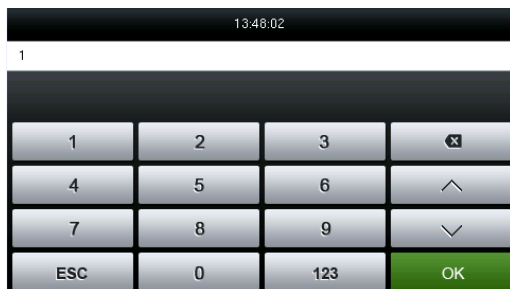
The verification result is displayed as above.

Note: If you have registered only your face, you will access the face verification interface directly after entering your ID. If you have registered in multiple verification modes, the icons of registered verification modes are displayed, as shown in the above figure with Password, Fingerprint and Face displayed.

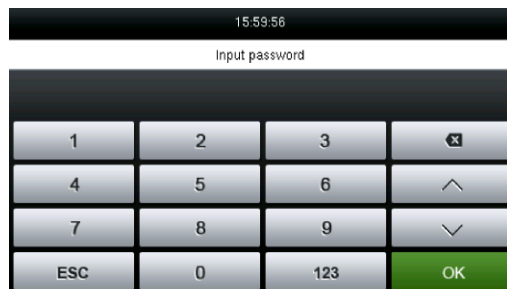
1.8.3 Password Verification

Under this verification method, the entered password is verified with the password of the entered user ID.

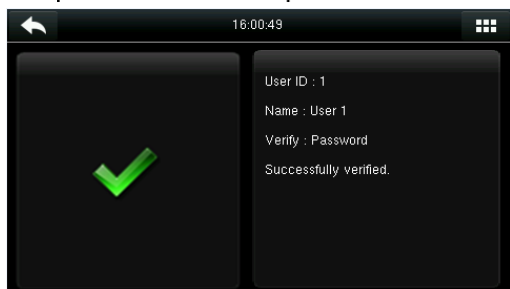
- ◆ Tap the [1:1] button on the main interface to enter 1:1 verification mode.



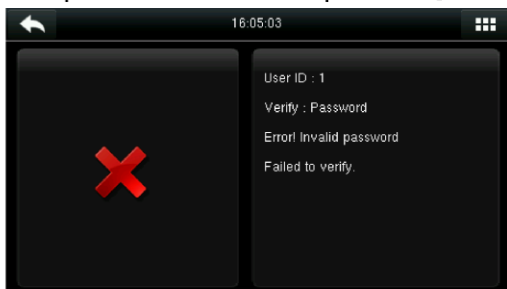
1. Input the user ID and press [OK].



2. Input the Password and press [OK].

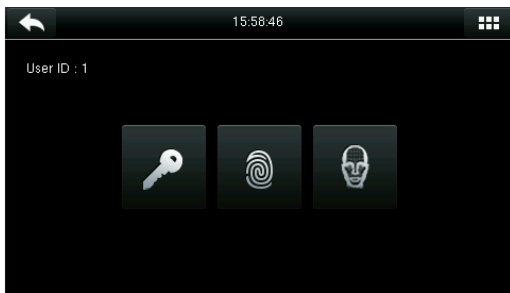


3. Verification succeeds.

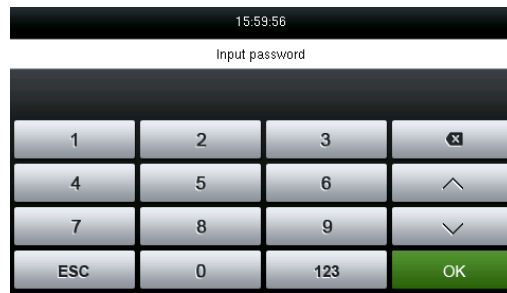


4. Verification fails.

If you have registered multiple verification modes, the following interface appears after you enter your ID and tap [OK].



Tap the Key icon to access password verification.



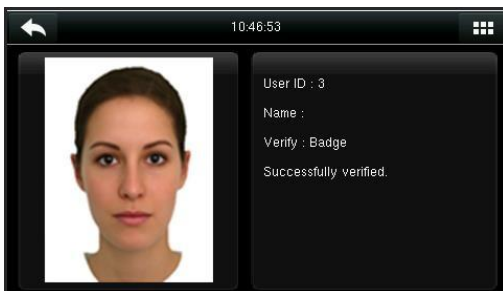
The verification result is displayed as above.

Note: If you have registered only the password, you will access the password verification interface directly after entering your ID. If you have registered in multiple verification modes, the icons of registered verification modes are displayed, just as the above figure showing that Password, Fingerprint and Face have been registered.

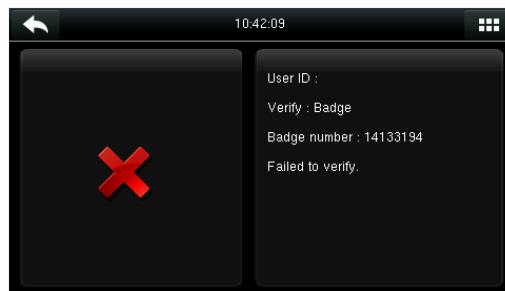
1.8.4 Card Verification ★

Card function is optional, only products with a built-in card module are equipped with card verification function.

- ◆ Swipe the card above the card reader (the card must be registered first)



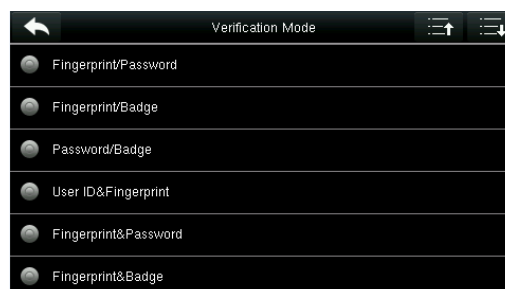
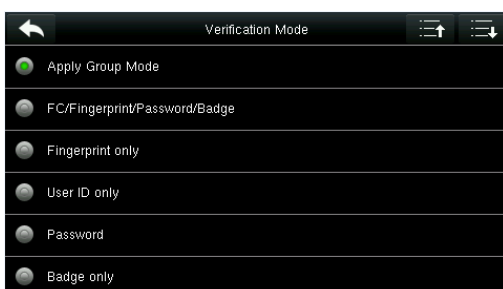
Verification succeeds.

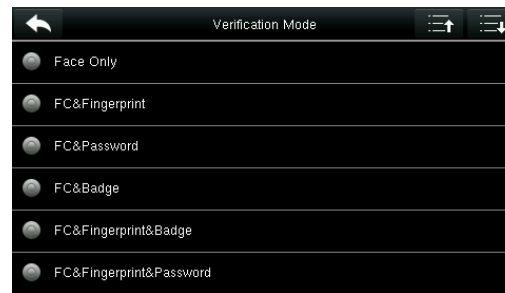
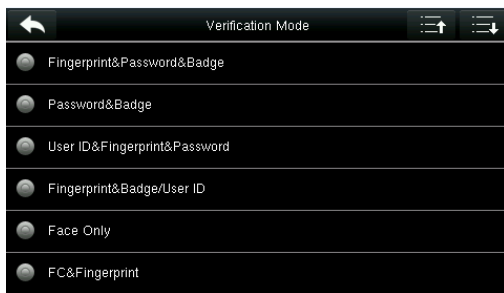


If the card is not registered, "Failed to verify" is prompted.

1.8.5 Combined Verification

In order to meet the needs of some access control occasions with high security and in consideration of the diversity of access control, the device provides a wide range of verification modes, which can be combined as required for individual users and user groups. The device supports 21 combinations verification modes, as shown in the following figure.





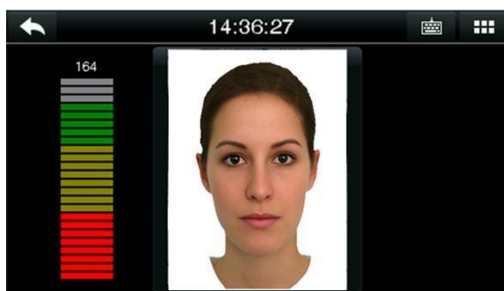
Note:

"/" means Or, and "&" means And.

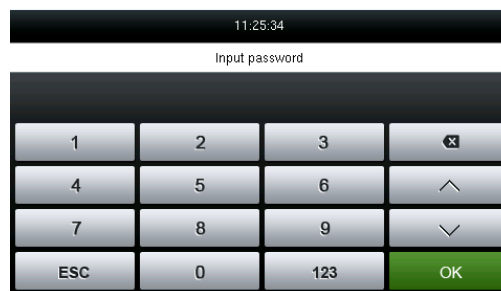
In combination verification mode, you must register required verification information, otherwise the verification may fail. For example, if user A uses **Fingerprint Registration** but the verification mode is **PW**, this user will never pass verification.

The following takes **Face&Password** as an example to introduce the combination verification mode.

- ◆ Place your face within the capture area of the camera, and the device automatically performs detection in face verification mode.



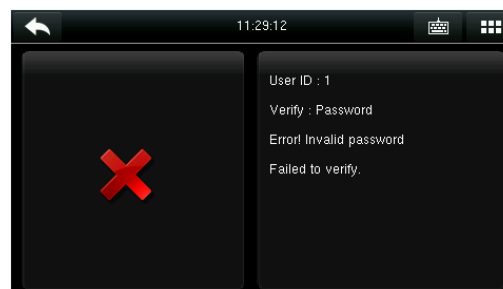
1. The face verification proceeds. passes. Enter the password and tap [OK].



2. The password entry interface pops up after verification




3. Face&Password verification succeeds.



4. Face&Password verification fails.


Note: The combination verification is available only if corresponding verification modes are selected during user registration. For details, see section [3.9 Setting the Access Control Rights](#).

2 Main Menu

When the device is in standby mode, press  to open the main menu.



Menu Item	Description
	Basic information of registered users, including user ID, user role, fingerprint, badge ★ (ID and MiFare card are optional), password and access control role.
User Role	To set user roles for accessing into the menu and changing settings.
	To set the related parameters of the communication between the device and PC, including Ethernet parameters such as IP address etc., serial Comm, PC connection, Wi-Fi, ADMS★ and Wiegand settings.
	To set related parameters of the system and upgrade firmware, including setting date & time, attendance and fingerprint parameters ★ and resetting to factory settings.
Personalize	This includes interface display, voice, bell, punch state key mode and shortcut key settings.
Data Mgt.	
Access Control:	
	To transfer data such as user data and attendance logs from the USB disk to the supporting software or other devices.
Attendance Search	
Print ★	
Short Message	To set public or private short messages, which are read by specified objects within the specified time after attendance, facilitating information transmission.
Work Code	To mark different work categories, facilitating user attendance check.
Auto test	To automatically test different module's functions, including the LCD, voice, keyboard, fingerprint sensor ★, camera and clock RTC test.
System Info	To check device capacity, device and firmware information.

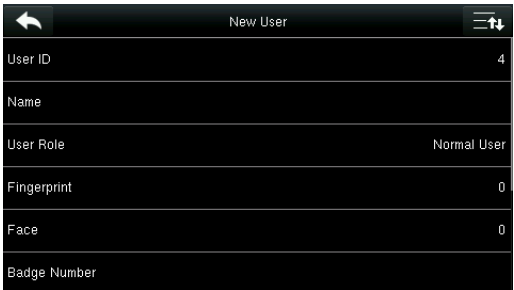
Note: If no super administrator is available on the device, anyone can access the menu for operations by pressing . After an administrator is set on the device, identity authentication needs to be conducted by the administrator for menu access. A user can access the menu only after successful identity authentication. For device security purposes, it is recommended that an administrator be registered when the device is used for the first time. For specific operations, see section [3.3 Setting the User Role](#).

3. Adding User

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



Tap **New User**.



Tap **Page Down** to view other options.

3.1 Entering a User ID

The device automatically assigns user IDs for personnel, starting from 1 and so on. The user ID can also be entered manually.

Select **User ID**



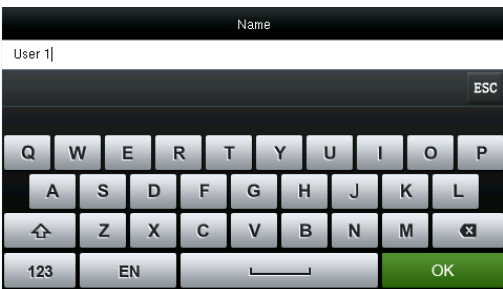
press **OK** for confirmation.

Note:

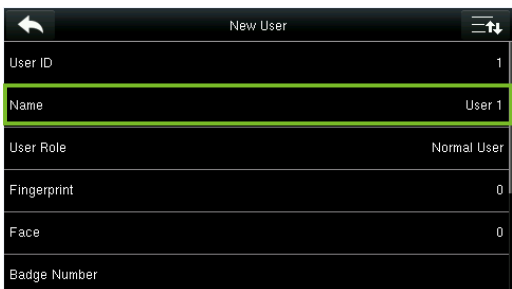
1. By default, a user ID contains 1-9 digits. To extend the length, consult our pre-sales technical support personnel.
2. During the initial registration, you can modify your ID, which cannot be modified after registration.
3. If "ID Already Exists" is prompted, this ID has been used. Please enter another ID.

3.2 Entering User Name

Select **User Role**



Enter your name and tap  to save and return. The name entry is completed.

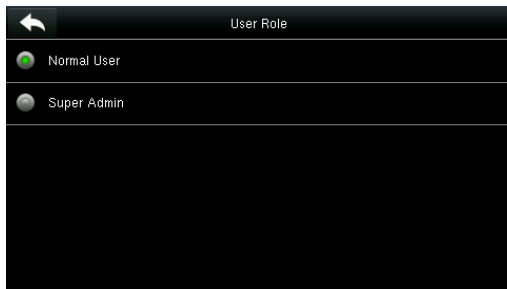


Note: By default, a user name contains 1-12 characters. For details, see section **1.7.2 Soft Keypad**.

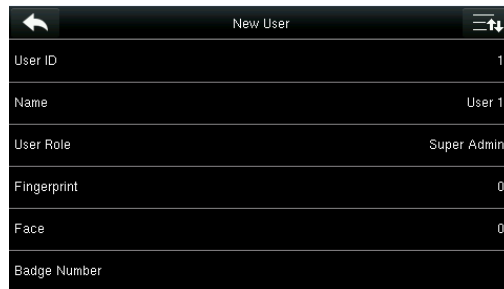
3.3 Setting the User Role

There are two types of Roles respectively granted to two types of users: the User and Administrator. User are only granted the rights of facial, fingerprint★, or password verification, while Administrator are granted the access to the main menu for various operations apart from having all the privileges granted to User.

Tap **User Role**.




Select a user role.

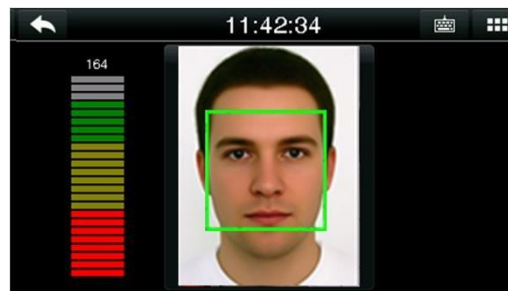


The user role selection is completed.

If the selected user role is **Super Admin**, identity authentication needs to be conducted for main menu access. The authentication process depends on the authentication mode that the super administrator has registered. The following is an example of accessing the main menu as the super administrator by face authentication.



Press  on the main interface.



Place your face in front of the camera for authentication.

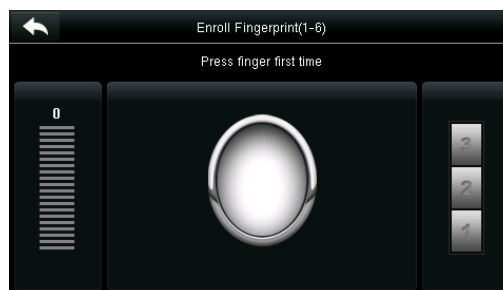
You can access the main menu interface directly after passing authentication.

3.4 Registering a Fingerprint ★

Press **[Fingerprint]**



1. Tap to select a finger for fingerprint registration.

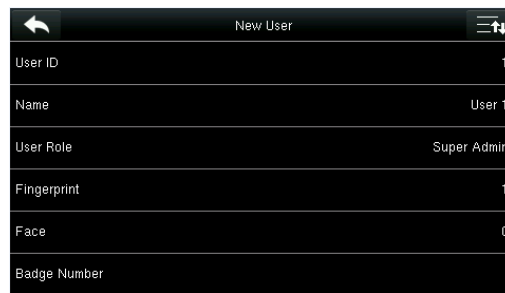


2. Press the same finger onto the fingerprint scanner

for three consecutive times as prompted.

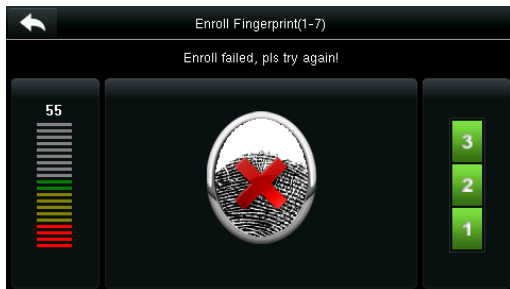


3. The fingerprint registration succeeds.
interface.



4. The system automatically returns to the **New User**

If the fingerprint registration fails, the following prompt appears.



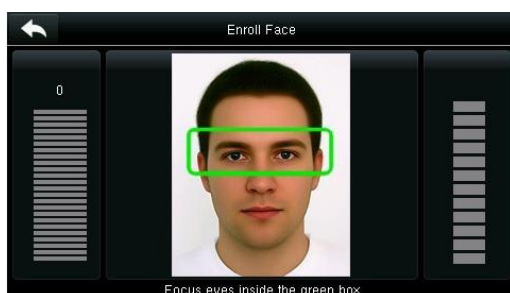
The fingerprint registration fails. You
need to register a fingerprint again.



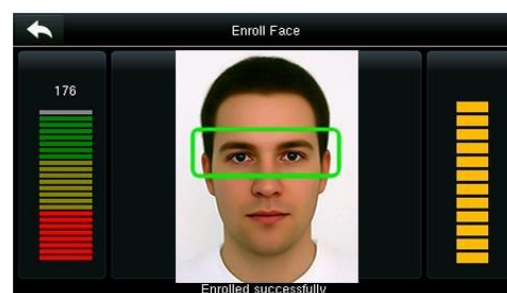
If "Duplicated fingerprint" is prompted,
this fingerprint has already been
registered.

Note: To register another fingerprint, return to the **New User** interface, tap **Fingerprint** again and repeat the above steps to select another finger for fingerprint registration.

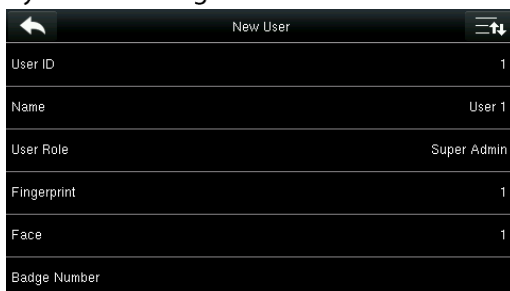
3.5 Registering a Face



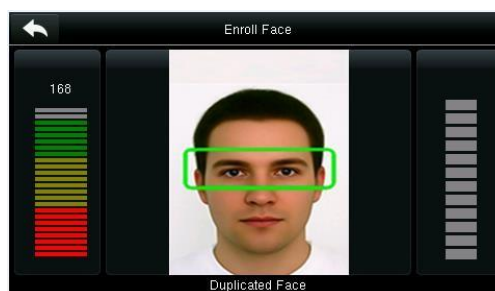
Follow the voice and interface prompts
to move back and forth to place your
eyes within the green frame.



The face registration succeeds.



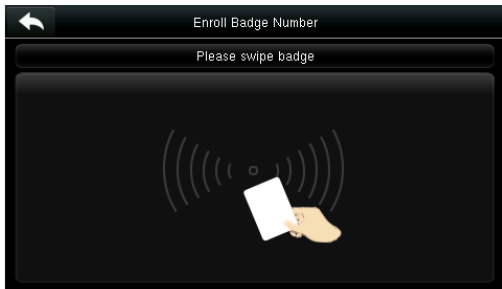
The system automatically returns to the
New User interface.



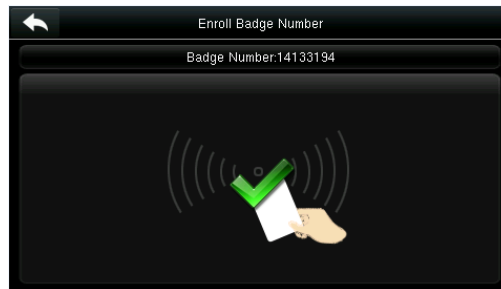
If a duplicate face is registered, the
system prompts: "Duplicated Face".

3.6 Registering a Badge Number ★

Tap Badge Number.



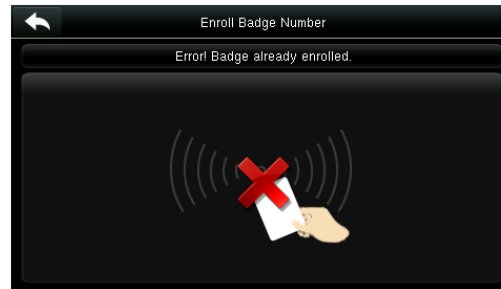
1. Press your badge close underneath the fingerprint collector.



2. The badge number registration succeeds.



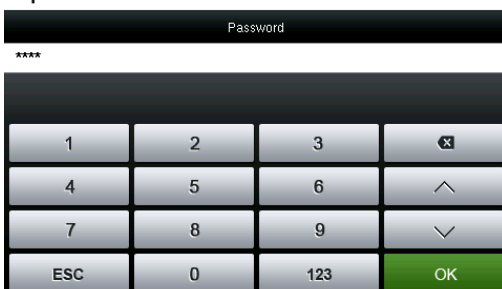
3. The system automatically returns to the **New User** interface.



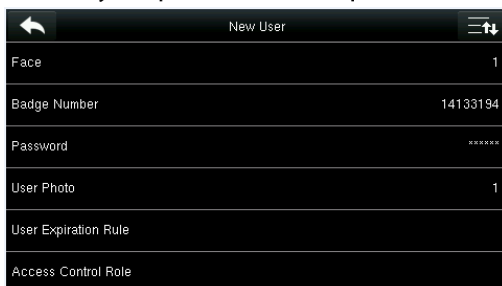
Note: If the badge has already been registered, "Error! Badge already enrolled" is prompted.

3.7 Registering a Password

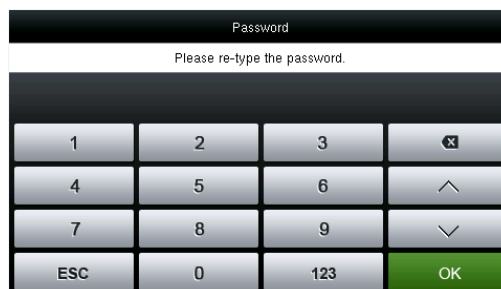
Tap Password.



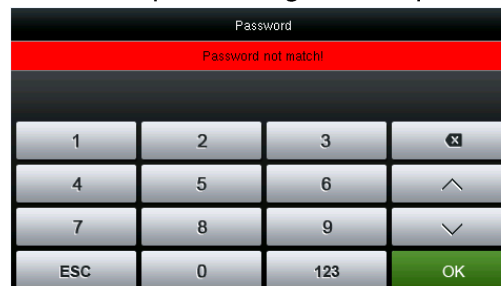
1. Enter your password and tap **OK**.



3. The password registration succeeds and the system returns to the New User interface.



2. Enter the password again and tap **OK**.



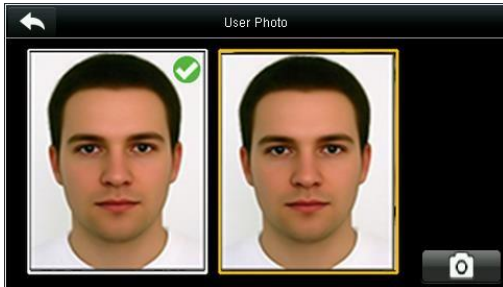
4. If the two entered passwords are different, "Password not match" is prompted.

Note: By default, a password contains 1-8 digits.

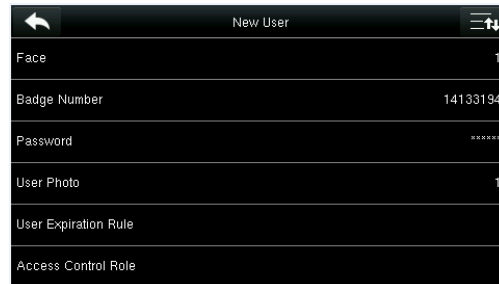
3.8 Registering a Picture

When a user registered with a picture passes the authentication, the registered user picture is displayed.

Tap **User Picture**.



Tap the camera icon to take a picture.



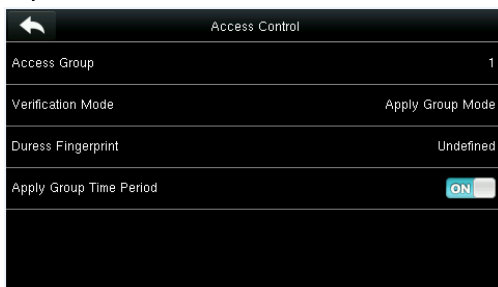
The picture taking is completed, and the system returns to the **New User** interface.

Note: After face registration is completed, the system automatically takes a picture. If you do not want to register a user picture, the picture automatically taken by the system is used by default.

3.9 Setting the Access Control Rights

You can set which group a user belongs to, access verification mode, whether to register a duress fingerprint, and whether to use the group time period. By default, the unlocking permission is granted to newly enrolled users.

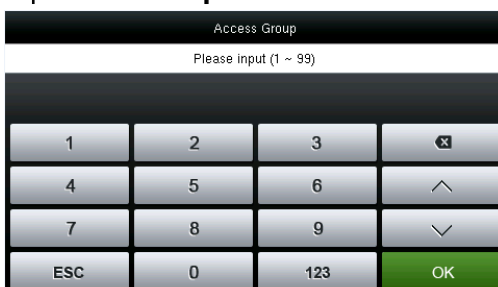
Tap **Access Control Role**.



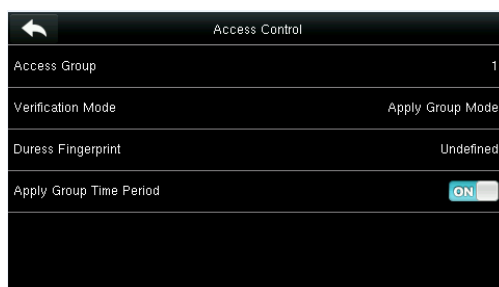
3.9.1 Access Group

Access Group: Select the belonged group. By default, a newly enrolled user belong to group one.

Tap **Access Group**.



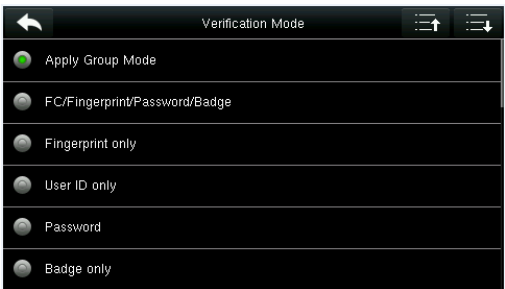
Enter the belonged group and tap **OK**.



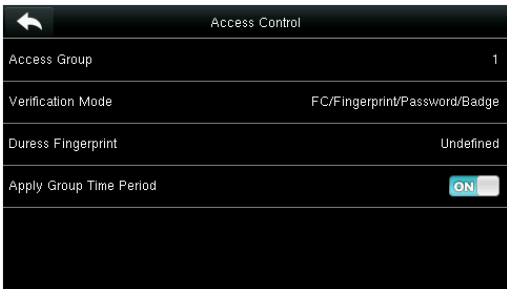
The system returns to the **Access Control** interface.

3.9.2 Verification Mode

Tap **Verification Mode**.



Select a verification mode.



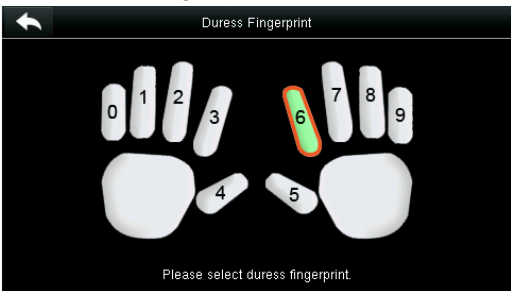
The system automatically returns to the **Access Control** interface.

Note: A user can select **Apply Group Mode**, That is, the user can be verified by using the verification mode of the group to which this user belongs, or by using an individual verification mode. For details on group settings, see section **10.4 Access Group Settings**.

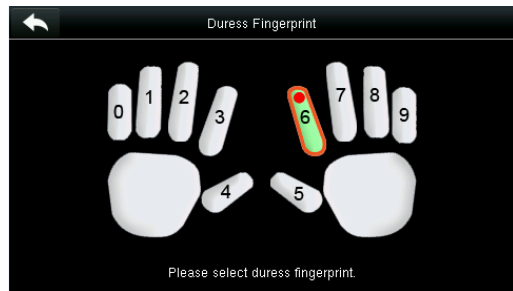
3.9.3 Duress Fingerprint

A fingerprint registered in the device is specially specified as a duress fingerprint. In any case, a duress alarm is generated when a fingerprint matches a duress fingerprint. After a duress fingerprint is cancelled, the fingerprint is not deleted and the corresponding finger can still be used for normal comparison.

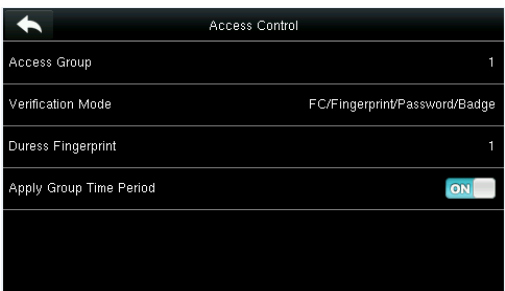
Tap **Duress Fingerprint**.



1. Select a duress fingerprint.



2. The selection succeeds. Tap the **Return** button.



3. The system returns to the Access Control interface.

Note:

1. The selected duress fingerprint must be a registered fingerprint.
2. If you do not want to use a duress fingerprint, access the same menu during user editing and cancel the duress fingerprint.

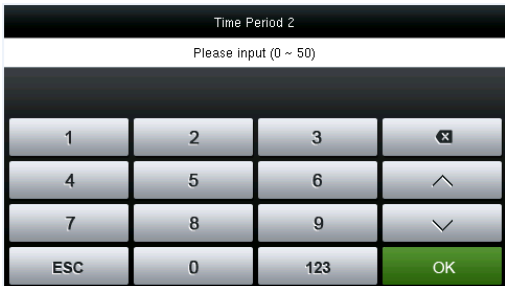
3.9.4 Apply Group Time Period

Choose whether to apply the group time period for this user, yes by default. If the group time period is not applied, you need to set the unlocking time for this user. At this time, the time period of this user does not affect the time period of any other member in this group.

When you set the unlocking time for this user, tap **Apply Group Time Period**.



1. Tap **Time Period 1**.





2. Enter the time period number and tap **OK**.



3. Select time period 2 and 3 in the same way, and enter the time period numbers.

Note: A total of 50 time periods can be set in the device and three time periods can be set for each user. For details, see [10.2 Time Schedule Settings](#).

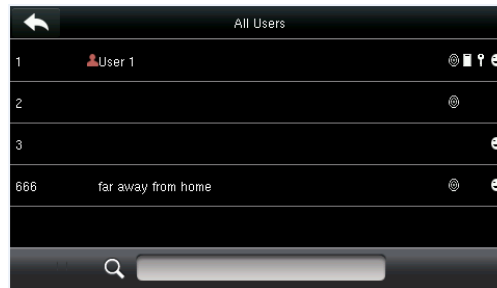
Note: After the above data is registered, tap  to return to the New User interface. To modify registered data, tap the corresponding menu for re-registration. To save the registered data, tap . If the menu is left unattended within the timeout time, the system returns to the main interface, and the registered information is not saved.

4 User Management

Press **User Mgt.** on the main menu interface.



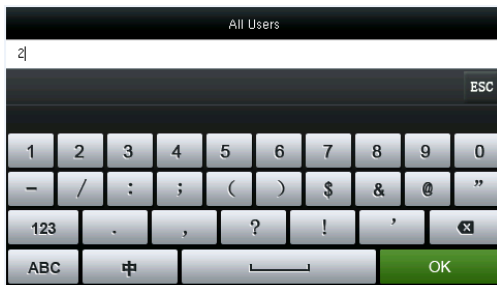
Tap **All Users**.



The **All Users** interface is displayed.

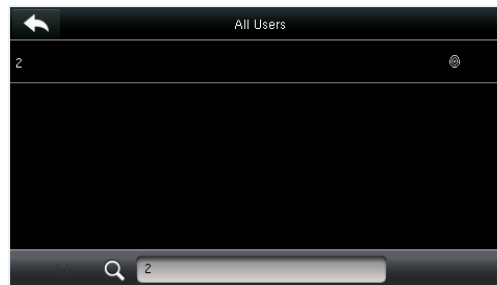
Note: The users are sorted by name, with  indicating the super administrator.

4.1 Searching User



Tap the search bar on user list and enter the retrieval keyword.

Note: The retrieval keyword can be ID, surname, given name or full name.



The system automatically finds the users related to entered keyword.

4.2 Editing User



Choose a user from the list and tap **Edit**.



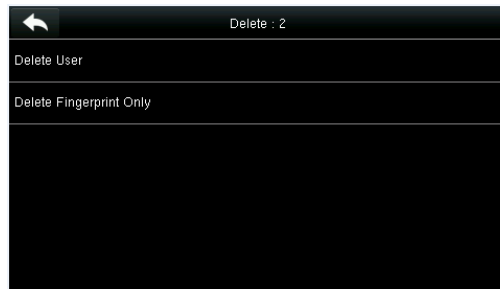
The **Edit User** interface is displayed.

Note: The operation of editing a user is the same as that of adding a user except that the ID cannot be modified in editing a user.

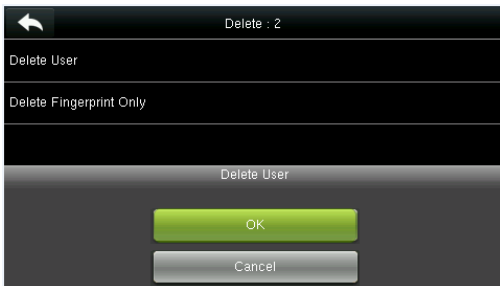
4.3 Deleting a User



Choose a user from the list and tap **Delete**.



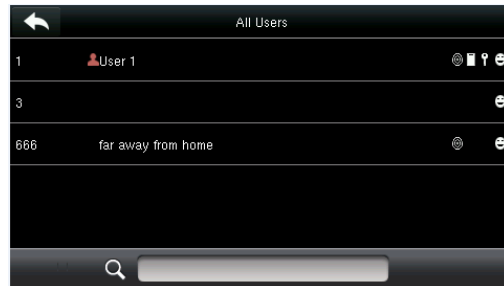
The **Delete User** interface is displayed. (Press Page Down to view other information.)



Select the user information to be deleted and tap **OK**.

Note:

1. When deleting a user, you can choose to delete partial information such as the privilege or fingerprint of the user. If you select **Delete User**, all information of this user is deleted.
2. After the privileges of the super administrator is deleted, the super administrator becomes a common user, without super administrator privileges any more.

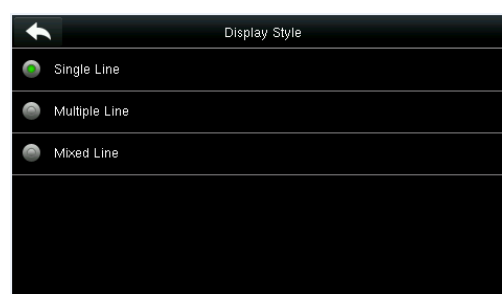


The user is deleted successfully and no longer displayed in the list.

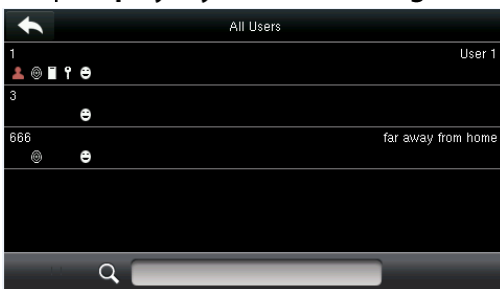
4.4 User Display Style



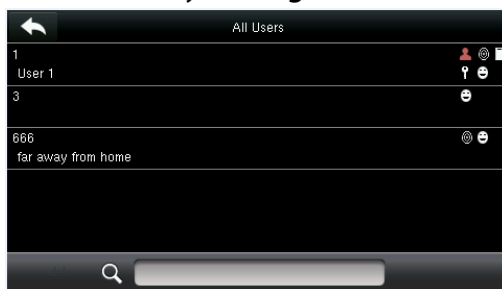
1. Tap **Display Style** on the **User Mgt.** interface.



2. The default style is **Single Line**.



3. The above figure shows all users in the **Multiple Line** style.



4. The above figure shows all users in the **Mixed Line** style.

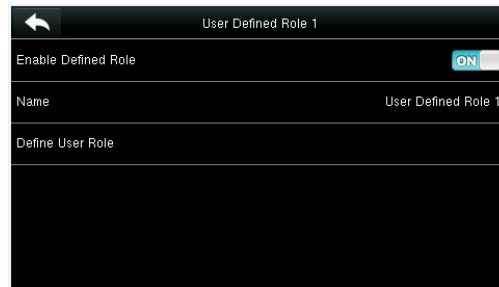
5. User Role

Setting user rights of operating the menu (a maximum of 3 roles can be set).

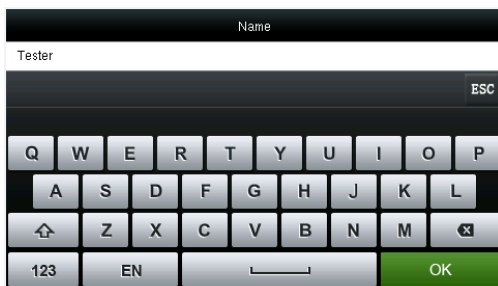
Tap **User Role** on the main menu interface.



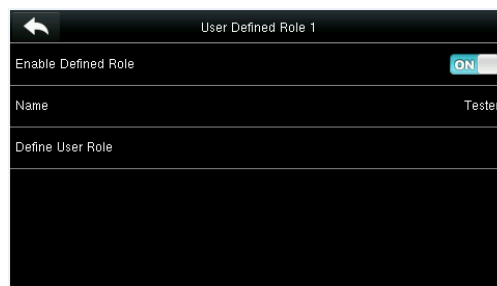
1. Tap any item to set a defined role.



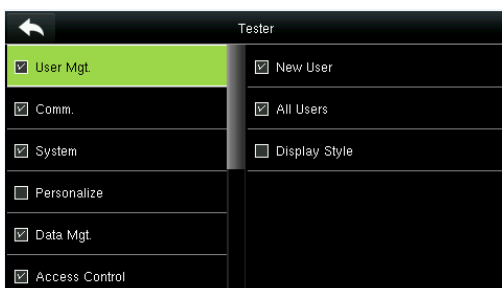
2. Tap **Enable Defined Role** to enable this defined role.



3. Tap **Name** to enter the role name.



4. The system returns to the **User Defined Role** interface.



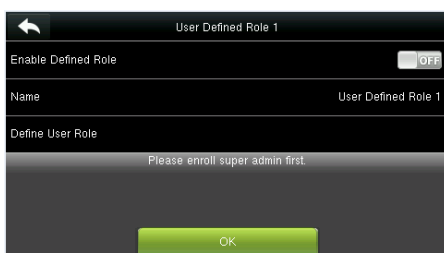
5. Tap **Define User Role** to assign privileges to the role.



6. The role definition is completed.

The privilege assignment is completed. Tap **Return**.

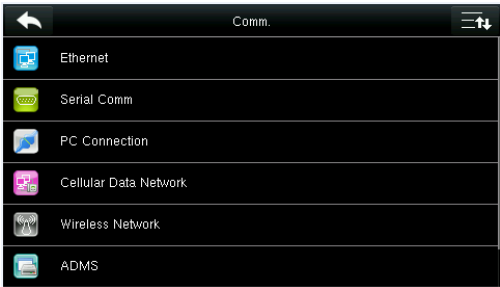
Note: During privilege assignment, the main menu is on the left and its sub-menus on the right. You only need to select the features in sub-menus. If no super administrator is registered in the device, the following prompt appears after you tap **Enable Defined Role**.



6. Comm. Settings

Including ethernet parameters such as IP address etc., serial Comm, PC connection, ADMS★ and Wiegand settings.

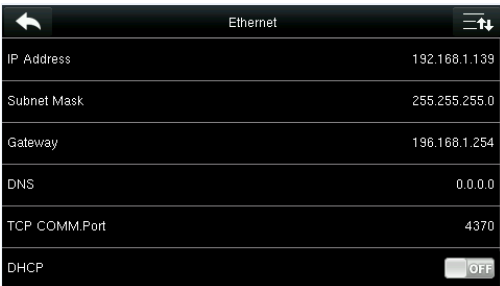
Tap **[Comm.]** on the main menu interface.



6.1 Ethernet Settings

When the device communicates with a PC over the Ethernet, you need to conduct network settings.

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

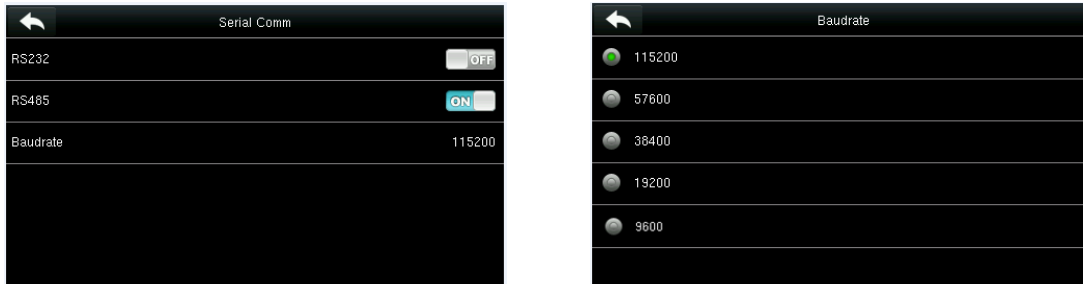


Menu Item	Description
	The factory default value is192.168.1.201, please adjust them according to the actual network situation.
	The factory default value is 255.255.255.0, please adjust them according to the actual network situation.
Gateway	The factory default value is 0.0.0.0, please adjust them according to the actual network situation.
	The factory default value is 0.0.0.0, please adjust them according to the actual network situation.
	The factory default value is 4370, please adjust them according to the actual network situation.
	Dynamic Host Configuration Protocol, which is to dynamically allocate IP addresses for clients via server. If DHCP is enabled, IP cannot be set manually.
Display in Status Bar	To set whether to display the network icon on the status bar.

6.2 Serial Comm. Settings

To establish communication with the device through a serial port (RS232/RS485), you need to conduct serial port settings.

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



Menu Item	Description
RS232	To communicate with the device through an RS232 serial port.
RS485	To communicate with the device through an RS485 serial port.
Baudrate	The rate of the communication with PC; there are 5 options of baud rate: 115200 (default), 57600, 38400, 19200 and 9600. The higher is the baud rate, the faster is the communication speed, but also the less reliable. In general, a higher baud rate can be used when the communication distance is short; when the communication distance is long, choosing a lower baud rate would be more reliable.

Note: If an RS485 serial port is used for communication with the device, the baud rate of the serial port should not be 9600 bps.

6.3 PC Connection


To improve security of data, **Comm Key** for communication between the device and PC needs to be set. If a **Comm Key** is set in the device, the correct connection password needs to be entered when the device is connected to the PC software, so that the device and software can communicate.

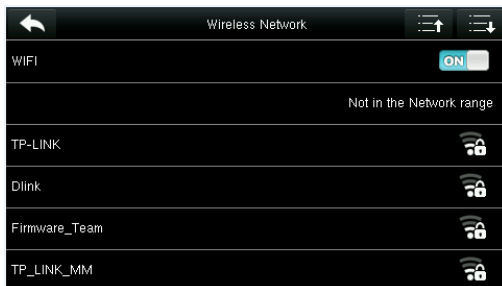
Tap **PC Connection** on the **Comm. Settings** interface.

Menu Item	Description
Comm Key	Comm Key: The default password is 0 (no password). Comm Key can be 1~6 digits and ranges between 0~999999.
Device ID	Identity number of the device, which ranges from 0 to 999999. If the device ID is not set, the software communication interface is required.

6.5 Wi-Fi Setting ★

Wi-Fi is short for Wireless Fidelity. The device provides a Wi-Fi module, which can be built in the device mould or externally connected, to enable data transmission via Wi-Fi and establish a wireless network environment.

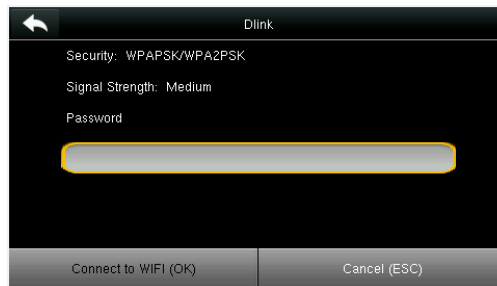
Wi-Fi is enabled in the system by default. If the Wi-Fi network does not need to be used, you can tap the  button to disable Wi-Fi.



1. When Wi-Fi is enabled, tap the searched network.



3. Connecting



2. Tap the password entry text box to enter the password, and tap **Connect to Wi-Fi (OK)**.



4. The connection succeeds, with status displayed on the icon bar.

6.5.1 Adding Wi-Fi Network

If the desired Wi-Fi network is not in the list, you can add the Wi-Fi network manually.



Tap **Page Down** and **Add Wi-Fi Network**.

Enter the parameters of Wi-Fi network.

(The added network must exist.)

After adding, find the added Wi-Fi network in list and connect to the network in the above way.

6.5.2 Advanced Options

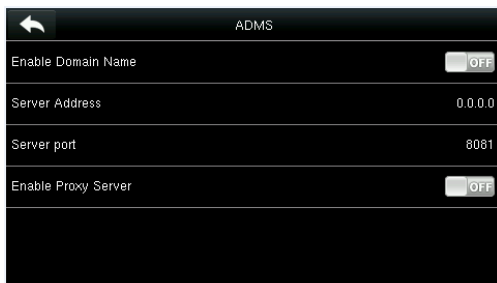
This is used to set Wi-Fi network parameters.



Menu Item	Description
DHCP	Short for Dynamic Host Configuration Protocol, which involves allocating dynamic IP addresses to network clients.
IP Address	IP address of the Wi-Fi network.
Subnet Mask	Subnet mask of the Wi-Fi network.
Gateway Address	Gateway address of the Wi-Fi network.

6.6 ADMS Setting ★

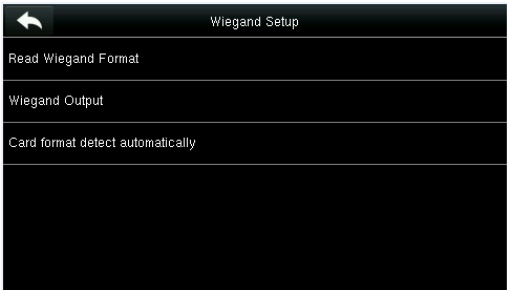
Settings used for connecting with ADMS server. Tap **PC Connection** on the **Comm. Settings** interface.



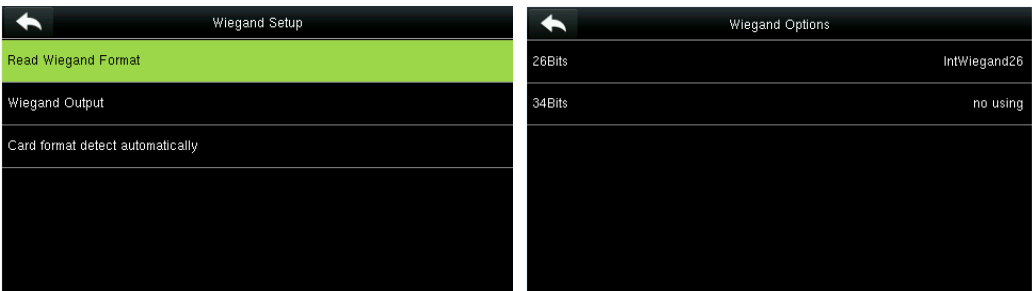
Menu Item	Description
	When this function is enabled, the domain http://www.XXX.com . XXX denotes the domain name when this mode is on; when in XXX.
Server Address	
Server Port	
	Method of enabling proxy. To enable proxy, the proxy server.

6.7 Wiegand Setup

To set the Wiegand output parameters, tap **Wiegand Setup** on the **Comm. Settings** interface.



6.7.1 Read Wiegand Format



Set the Wiegand format matching the card module of the device. After a unified Wiegand format is used, correct card numbers can be read. The Wiegand format can be set to **IntWiegand26**, **IntWiegand26a**, **IntWiegand34**, or **IntWiegand34a** so that card numbers read by the device are in the preset format.

Wiegand Format	Description
IntWiegand26	EEEEEEEEEEEEEEEEEEEEEEEEEEEE 2-13 and bit 26 being the odd parity check bit for bits 14-25 and bits 2-15 being the card number.
IntWiegand26a	ESSSSSSSSSSSSSSSSSSSSSSSSSS 2-13, bit 26 being the odd parity check bit for bits 14-25, bits 2-9 being the area code and bits 10-15 being the card number.
IntWiegand34	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE 2-17 and bit 34 being the odd parity check bit for bits 18-33 and bits 2-15 being the card number.
IntWiegand34a	ESSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS 2-17, bit 34 being the odd parity check bit for bits 18-33, bits 2-9 being the area code and bits 10-15 being the card number.

Note: C stands for card number, E stands for even parity check, and O stands for odd parity check.
Note: This item is available for ID card machine but not MF card machine.

6.7.2 Wiegand Output

Tap **Wiegand Output** on the **Wiegand Setup** interface.

Wiegand Options	
Wiegand Format	
wiegand output bits	26
Failed ID	0
Site Code	-1
Pulse Width(us)	100
Pulse interval(us)	1000

Wiegand Options	
wiegand output bits	26
Failed ID	0
Site Code	-1
Pulse Width(us)	100
Pulse interval(us)	1000
ID Type	User ID

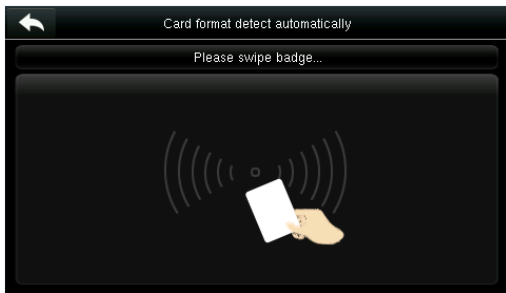
Menu Item	Description
Wiegand Format	Users can select the standard Wiegand formats built in the system. Although multiple choices are supported, the actual format is determined by Wiegand output bits .
Wiegand output	Number of bits of Wiegand data. After choosing [Wiegand output bits], the device will use the set number of bits to find the suitable Wiegand format in [Wiegand Format]. For example, If Wiegand26, Wiegand34a, Wiegand36, Wiegand37a or Wiegand50 is selected in Wiegand Format but Wiegand output bits is set to 36, the Wiegand36 format takes effect.
	It is defined as the output value of failed user verification. The output format depends on the [Wiegand Format] setting. The default value ranges from 0 to 65535.
	It is similar to device ID except that it can be set manually and repeatable with different devices. The default value ranges from 0 to 256.
	The width of pulse sent by Wiegand. The default value is 100 microseconds, which can be adjusted within the range of 20 to 100 microseconds.
Pulse Interval (us)	The default value is 1000 microseconds, which can be adjusted within the range of 200 to 20000 microseconds.
ID Type	Output content after successful verification. User ID or card number can be chosen.

Definitions of Various General Wiegand Formats:

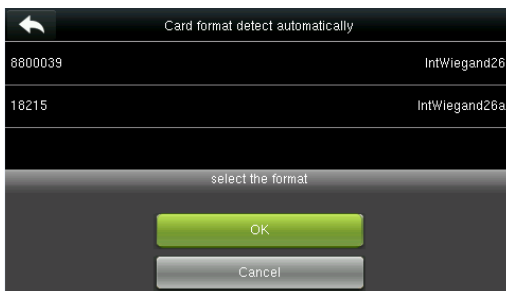
Wiegand Format	Definition
	<p>ECCCCCCCCCCCCCCCCCCCCCCCCCO</p> <p>Consists of 26 bits of binary code. The 1st bit is the even parity bit of the 2nd to 13th bits, while the 26th bit is the odd parity bit of the 14th to 25th bits. The 2nd to 25th bits are the card number.</p>
	<p>ESSSSSSSCCCCCCCCCCCCCCCCCCO</p> <p>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 site code, while the 10th to 25th bits are the card number.</p>
	<p>ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCO</p> <p>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 are the</p>

	card number.
Wiegand34a	ESSSSSSSSCCCCCCCCCCCCCCCCCCCCCCCO Consists of 34 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 17 th bits, while the 34 th bit is the odd parity bit of the 18 th to 33 rd bits. The 2 nd to 9 th bits are the site code, while the 10 th to 25 th bits are the card number.
Wiegand36	OFFFFFFFFFFFFFFFCCCCCCCCCCCCCCCMMME Consists of 36 bits of binary code. The 1 st bit is the odd parity bit of the 2 nd to 18 th bits, while the 36 th bit is the even parity bit of the 19 th to 35 th bits. The 2 nd to 17 th bits are the device code, the 18 th to 33 rd bits are the card number, and the 34 th to 35 th bits are the manufacturer code.
Wiegand36a	EFFFFFFFFFFFFFFFCCCCCCCCCCCCCCCCCO Consists of 36 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 18 th bits, while the 36 th bit is the odd parity bit of the 19 th to 35 th bits. The 2 nd to 19 th bits are the device code, and the 20 th to 35 th bits are the card number.
Wiegand37	OMMMMSSSSSSSSSSSSSCCCCCCCCCCCCCCCCCCE Consists of 37 bits of binary code. The 1 st bit is the odd parity bit of the 2 nd to 18 th bits, while the 37 th bit is the even parity bit of the 19 th to 36 th bits. The 2 nd to 4 th bits are the manufacturer code, the 5 th to 16 th bits are the site code, and the 21 st to 36 th bits are the card number.
Wiegand37a	EMMMFFFFFFFFFFFSSSSSSCCCCCCCCCCCCCCCCCCO Consists of 37 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 18 th bits, while the 37 th bit is the odd parity bit of the 19 th to 35 th bits. The 2 nd to 4 th bits are the manufacturer code, 5 th to 14 th bits are the device code, 15 th to 20 th bits are the site code, and the 21 st to 36 th bits are the card number.
Wiegand50	ESSSSSSSSSSSSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCO Consists of 50 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 25 th bits, while the 50 th bit is the odd parity bit of the 26 th to 49 th bits. The 2 nd to 17 th bits are the site code, and 18 th to 49 th bits are the card number.

C denotes card number, E denotes even parity bit, O denotes odd parity bit, F denotes device code, M denotes manufacturer code, P denotes parity bit, and S denotes site code.

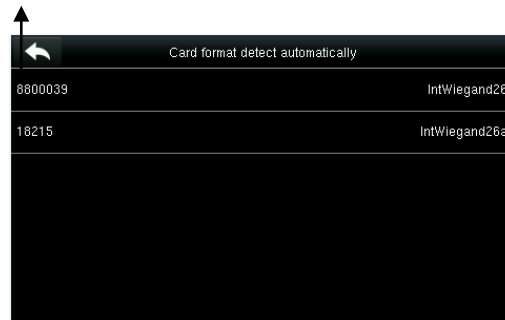


The Wiegand format and parsed card number are automatically detected.



Select the number consistent with the actual card number, and the corresponding format is the Wiegand format which should be selected for reading this type of card.

Card number obtained based on the IntWiegand26 format

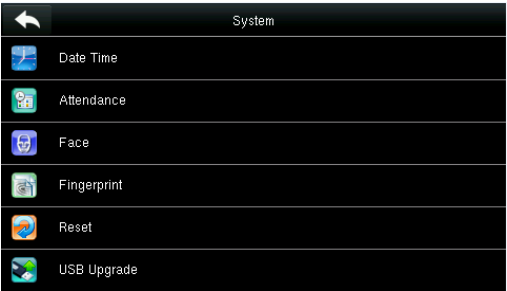


After entering automatic detection, swipe the badge in the card swiping area (on the device or reader).

7. System Settings

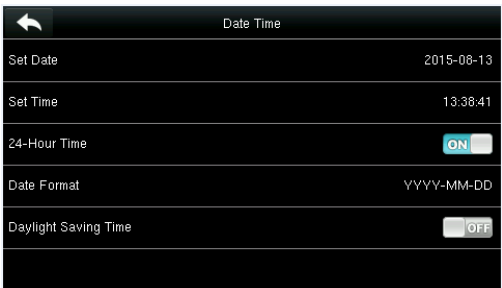
Set related system parameters to maximize the performance of the device.

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

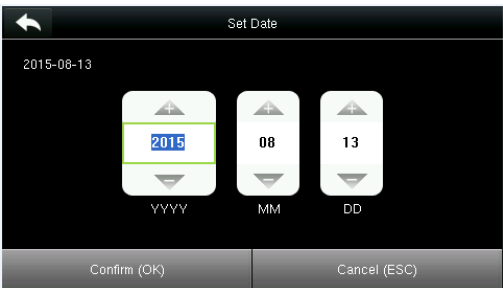


7.1 Date/Time Settings

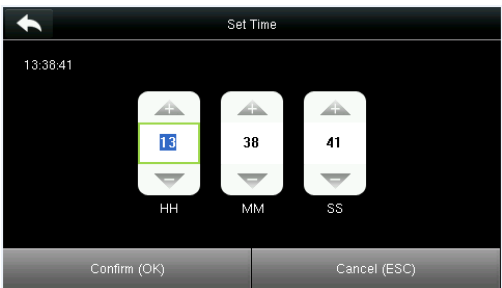
Tap **Date Time** on the **System** interface.



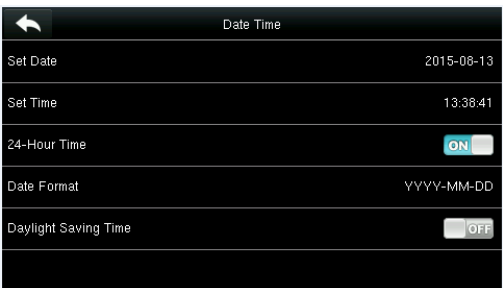
1. Tap **Set Date**.



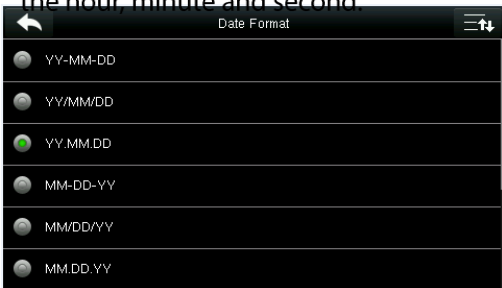
2. Press **Page Up** and **Page Down** to set the year, month and day, and then press **Confirm (OK)**.



3. Tap **Set Time** on the **Date Time** interface and press **Page Up** and **Page Down** to set the hour, minute and second.



4. Tap **24-Hour Time** to choose whether to enable this format.



5. Tap **Date Format** on the **Date Time** interface to select the date display format.



6. Tap **Daylight Saving Time** to choose whether to enable the daylight saving time.



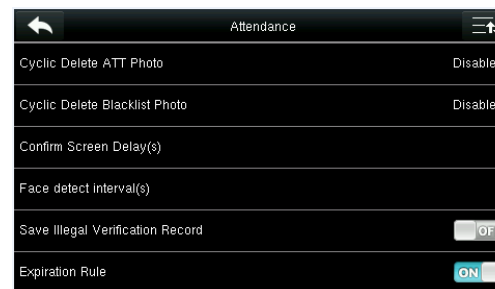
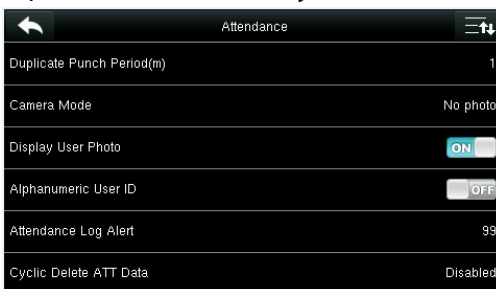
7. Select a daylight saving mode.



8. Set when to start and end the daylight saving time.

7.2 Attendance Parameters

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



Menu Item	Description
Duplicate Punch Period (m)	Within a set time period (unit: minutes), the duplicated attendance logs will not be reserved (value ranges from 1 to 999999 minutes).
	To set whether to take and save pictures in verification; applicable to all users. The No Picture: No picture is taken in user verification. Take picture, no save: Picture is taken but not saved in verification. Take picture and save: Picture is taken and saved in verification. Save on successful verification: Picture is taken and saved in successful verification. Save on failed verification: Picture is taken and saved in failed verification.
Display User Picture	To set user picture to be displayed when a user passes verification. Turn it [ON] to display user picture and [OFF] to disable it.
Alphanumeric User ID	Whether to support letters in employee ID.
	When the remaining storage is smaller than the set value, the device will automatically ranged from 1 to 9999.
Cyclic Delete ATT Data	The number of attendance logs allowed to be deleted in one time when the maximum storage is attained. It can be disabled or set to a value ranged from 1 to 999.
Cyclic Delete ATT Picture	The number of attendance pictures allowed to be deleted in one time when the maximum storage is attained. It can be disabled or set to a value ranged from 1 to 99.
Confirm Screen	

Menu Item	Description
Delay(s)	from 1 to 9 seconds.
Face Detect Interval (s)	To set the face comparison interval as required, within the range of 0-9 s.
Save Illegal Record	To set if failed verifications, such as those caused by access in invalid Time Schedules or is turned on.
	Whether to enable the expiration rule. If yes, conduct the expiration settings, including: retaining user information, and not saving attendance record; retaining user information, and saving attendance record; and deleting user information.

7.3 Face Parameters

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

Face	
1:1 Match Threshold	75
1:N Match Threshold	82
Detect false face	<input checked="" type="checkbox"/>
Exposure	300
Quality	80

		Match Threshold	
FRR	FAR	1:N	1:1
High	Low	85	80
Medium	Medium	82	75
Low	High	80	70

Menu Item	Description
	Under 1:1 Verification Method, only when the similarity between the verifying face and valid value range is 70-120, with larger threshold leading to lower misjudgment rate and higher rejection rate, and vice versa.
	Under 1:N Verification Method, only when the similarity between the verifying face and range is 80-120, with larger threshold leading to lower misjudgment rate and higher rejection rate, and vice versa.
Detect False Face	When this function is enabled, the device automatically deletes the false face.
Exposure	This parameter is used to set a quality threshold for the facial images obtained. The FFR when their quality is higher than the threshold; otherwise, it filters these facial images.
	guidance of the after-sales service personnel from our company.

7.4 Fingerprint Parameters ★

Tap **Fingerprint** on the **System** interface.

Fingerprint	
1:1 Match Threshold	15
1:N Match Threshold	35
FP Sensor Sensitivity	Low
1:1 Retry Times	3
Fingerprint Image	Always show

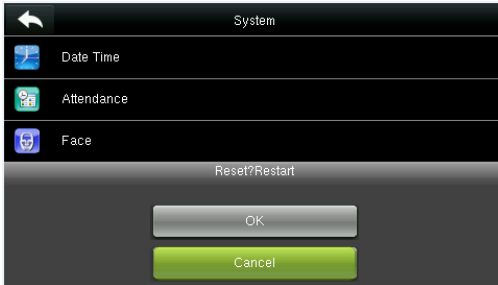
FRR	FAR	Match Threshold	
		1:N	1:1
High	Low	45	25
Medium	Medium	35	15
Low	High	25	10

Menu Item	Description
1:1 Match	Under 1:1 Verification Method, only when the similarity between the verifying verification succeed.
	Under 1:N Verification Method, only when the similarity between the verifying succeed.
	To set the sensibility of fingerprint collection. 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 Times	1:1 Retry Times: In 1:1 Verification or Password Verification, users might forget the registered fingerprint or password, or press the finger improperly. To reduce the process of re-entering user ID, retry is allowed.
	To set whether to display the fingerprint image on the screen in registration or Show for enroll: to display the fingerprint image on the screen only during Show for match: to display the fingerprint image on the screen only during Not show for enroll or match: not to display the fingerprint image in any case.

7.5 Reset to Factory Settings

Reset data such as communication settings and system settings to factory settings.

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

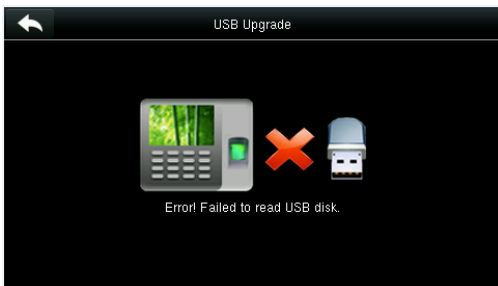


press **[OK]** to finish the reset setting.

7.6 USB Upgrade

With this option, the device firmware can be upgraded by using the upgrade file in a USB disk. Before conducting this operation, ensure that the USB disk is properly inserted into the device and contains the correct upgrade file.

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

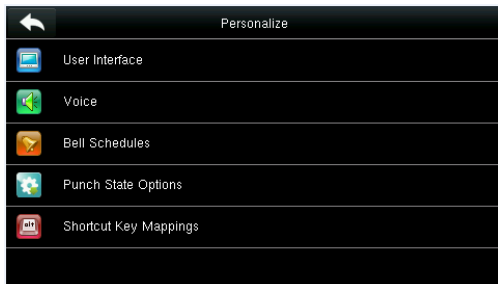


NOTE: If upgrade file is needed, please contact out technical support. Firmware upgrade is not recommended under normal circumstances.

8 Personalize Settings

Conduct related settings of user interface, voice, bell schedule and punch state options, and customize shortcut keys.

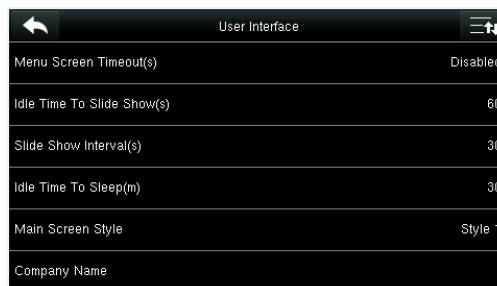
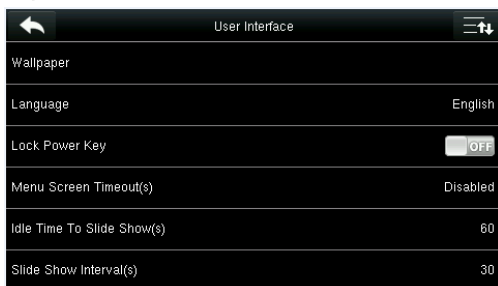
Tap **[Personalize]** on the main menu interface.



8.1 User Interface Settings

You can customize the display style of the home interface.

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

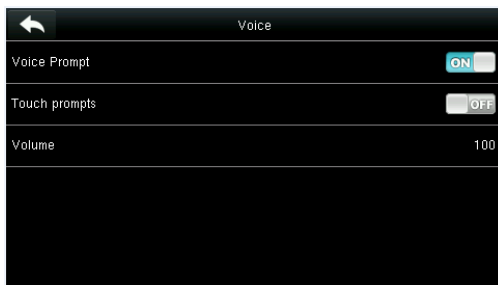


Menu Item	Description
	Select the wallpaper of main screen as required, you can find wallpapers of various styles in the device.
Language	
	To set whether to lock the power key. When this function is enabled, pressing the power key does not work. When this function is disabled, the system shuts down after you press the power key for three seconds.
	When there is no operation in the menu interface and the time exceeds the disable it or set the value to 60~99999 seconds.
Idle Time To Slide Show (s)	When there is no operation in the initial interface and the time exceeds the set value, a slide show will be shown. It can be disabled (set to "None" or set to 3~999 seconds.
	This refers to the interval between displaying different slide show pictures. It can be disabled or set to 3~999 s.
	When there is no operation in the device and the set Sleep Time is attained, the device will enter standby mode. Press any key or finger to cancel standby

	mode. You can disable this function, or set the value to 1~999 minutes. If this function is turned to [Disabled] , the device will not enter standby mode.
Main Screen Style	

8.2 Voice Settings

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



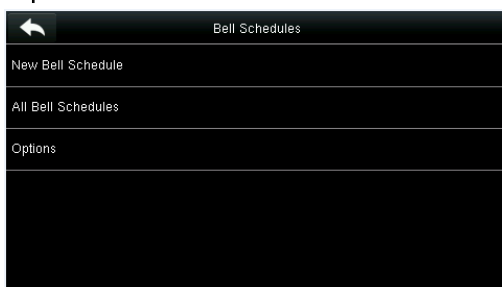
Menu Item	
Voice Prompt	Select whether to enable voice prompts during operating, press [ON] to enable it.
Touch Prompt	Select whether to enable keyboard voice while pressing keyboard, press [ON] to enable it.
Volume	Set the volume of device.

8.3 Bells Settings

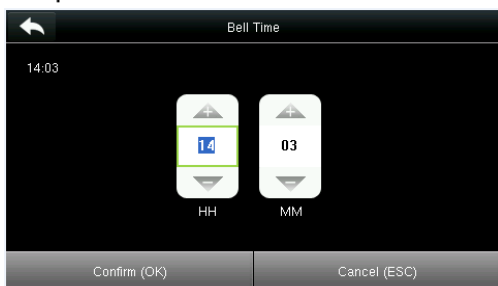
Many companies choose to use bell to signify on-duty and off-duty time. When reaching the scheduled time for bell, the device will play the selected ringtone automatically until the ringing duration is passed.

8.3.1 Add a Bell

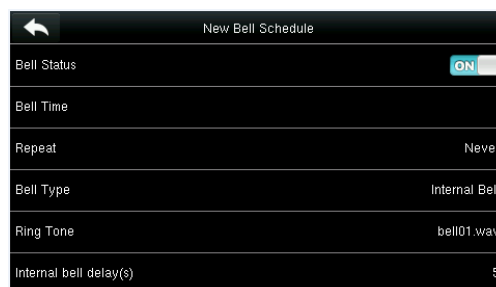
Tap **Bell Schedules** on the **Personalize** interface.



1. Tap **New Bell Schedule**.



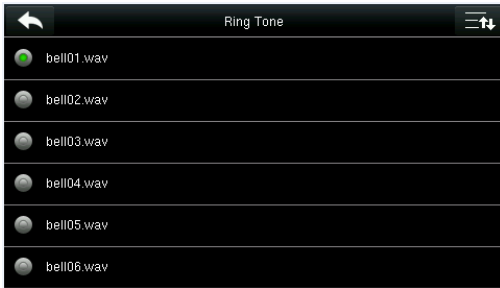
3. Set **Bell Time**.



2. Tap **Bell Status** to enable the bell status.



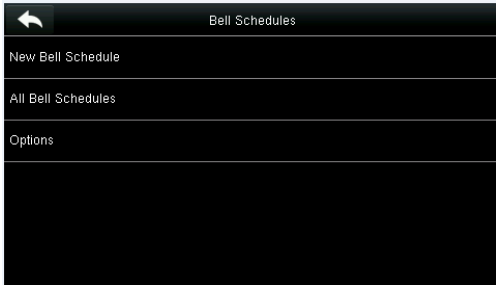
4. Set **Repeat**.



5. Select a ring tone.



6. Select the internal bell delay.



7. Return to the **Bell Schedules** interface and tap **All Bell Schedules**.



8. The added bells are displayed in a list.

8.3.2 Edit a Bell

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



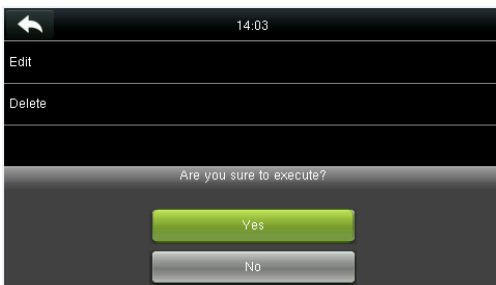
Tap **Edit**.



The editing method is the same as that of a new bell, and not described here.

8.3.3 Delete a Bell

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



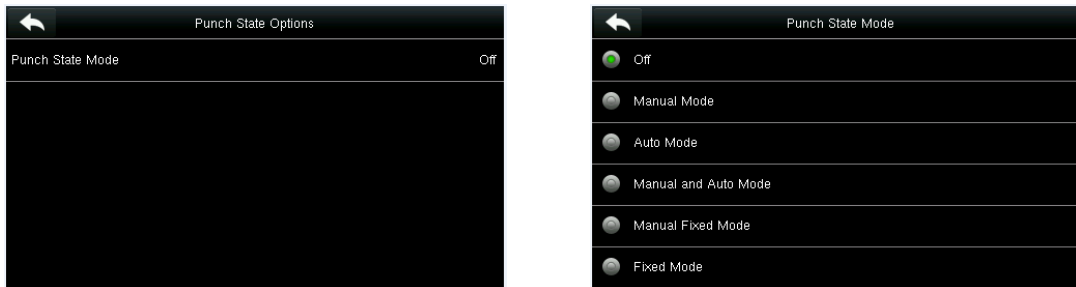
Tap **Delete** and select [Yes] to delete the bell.



The bell is deleted successfully.

8.4 Punch States Settings

Tap **Punch State Options** on the **Personalize** interface.



Menu Item	Description
Punch State Mode	<p>Select a punch state mode, which can be:</p> <p>Off: To disable the punch state key function. The punch state key set under Shortcut Key Mappings menu will become invalid.</p> <p>Manual Mode: To switch the punch state key manually, and the punch state key will disappear after Punch State Timeout.</p> <p>Auto Mode: After this mode is chosen, set the switching time of punch state key in Shortcut Key Mappings; when the switching time is reached, the set punch state key will be switched automatically.</p> <p>Manual and Auto Mode: Under this mode, the main interface will display the auto-switching punch state key, meanwhile supports manually switching punch auto-switching punch state key.</p> <p>Manual Fixed Mode: After punch state key is manually switched, the punch state</p> <p>Fixed Mode: Only the fixed punch state key will be shown and it cannot be switched.</p>
Punch State Timeout (s)	The timeout time of the display of punch state. The value ranges from 5~999 seconds.
Mandatory Attendance State	Whether an attendance state must be selected during verification.

8.5 Shortcut Keys Settings

Shortcut keys can be defined as punch state keys or menu function key. When the device is on the main interface, pressing the set shortcut key will display the attendance state or enter the menu operation interface.

Tap **Shortcut Key Mappings** on the **Personalize** interface.



1. Tap the shortcut key to be set (For the



2. The shortcut key setting interface is displayed.
name of corresponding key, see section [1.5 Initial Interface](#)).



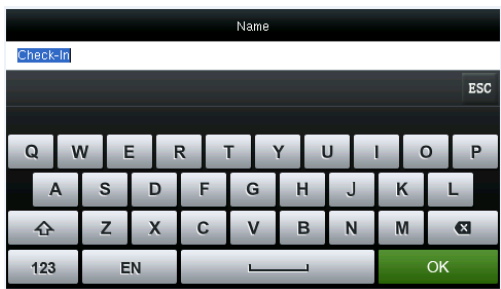
3. Set the state value (value range 0-250).



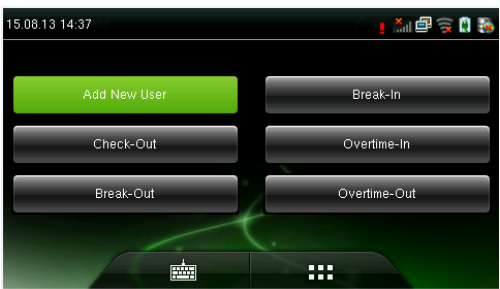
4. Set corresponding function for this touch key.



6. Set the state key name.



7. Customize and enter a name.



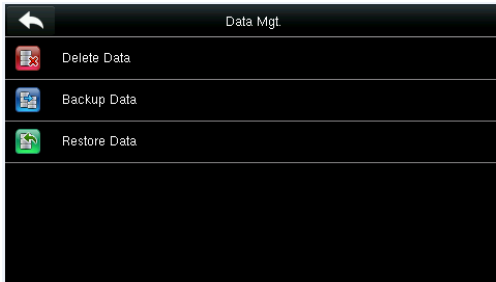
9. Tap the main interface to show the shortcut menu.

Tap the attendance state to make a switch. Tap the function to rapidly access the function settings. (Tap **F1 New User** to rapidly access this menu.)

9 Data Mgt.

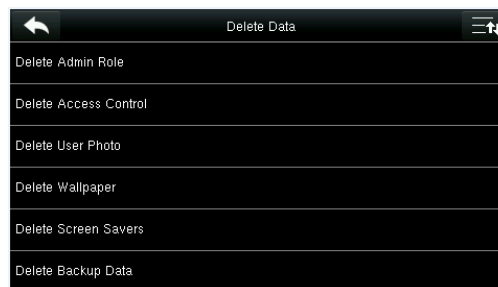
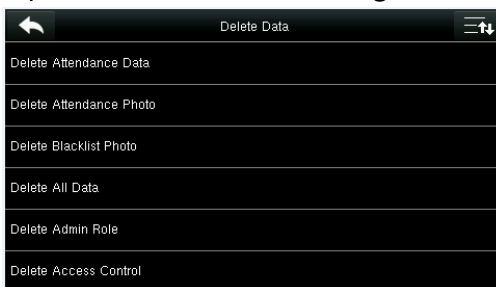
To manage data in the device, which includes delete data, backup data and restore data.

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



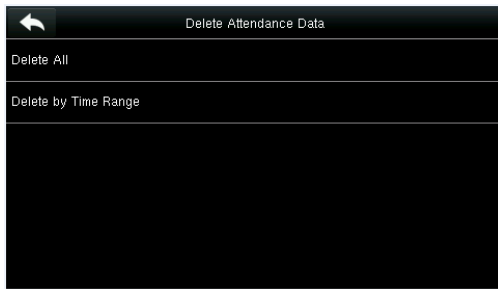
9.1 Delete Data

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

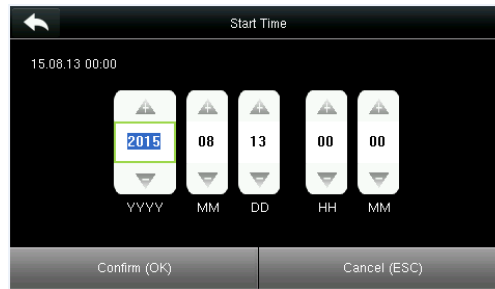


Menu Item	Description
Delete Attendance Data	To delete all attendance data in the device.
Delete Attendance Picture	To delete all users' attendance pictures in the device.
Delete Blacklist Picture	To delete all blacklisted pictures in the device, which means the pictures taken after failed verifications.
Delete All Data	To delete all user information, fingerprints and attendance logs etc.
Delete Admin Role	
Delete Access Control	
Delete User Picture	To delete all user pictures in the device.
Delete Wallpaper	
Delete Screen Savers	
Delete Backup Data	

Note: When deleting the attendance record, attendance picture or blacklist picture, you can select Delete All or Delete by Time Range. When Delete by Time Range is selected, you need to set the time range for data deletion.



Select **Delete by Time Range**.

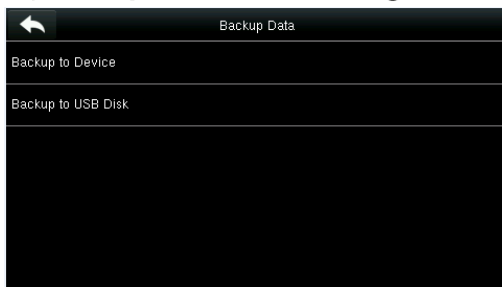


Set the time range and tap **Confirm (OK)**.

9.2 Data Backup

To backup the business data, or configuration data to the device or U disk.

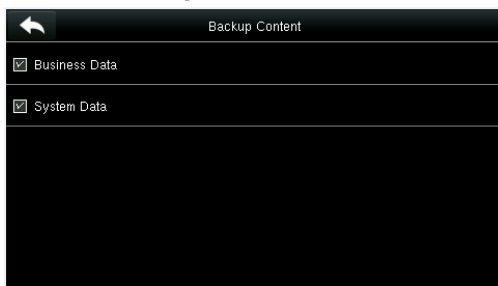
Tap **Backup Data** on the **Data Mgt.** interface.



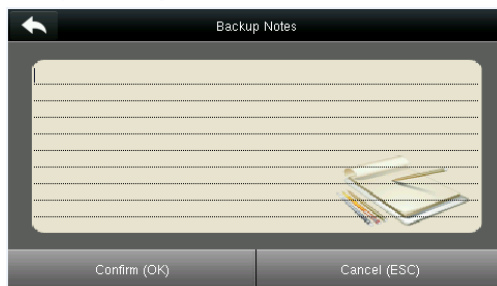
1. Select **Backup to Device**.



2. Tap **Backup Content**.



3. Select the content to be backed up.



4. Make a backup remark. (This step is optional.)



5. Tap **Backup Start**, and the backup succeeds.

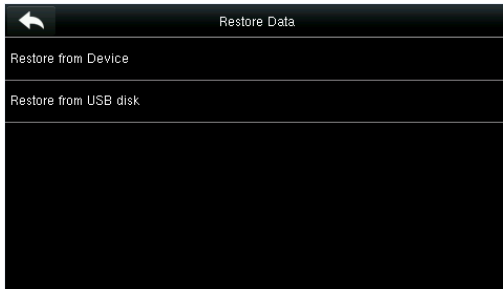
NOTE: The operations of **Backup to Device** are the same as that of **Backup to USB Disk**.

When you choose to save data in a USB disk, ensure that the USB disk is properly plugged into the device.

9.3 Data Restoration

To restore the data in the device or U disk to the device.

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



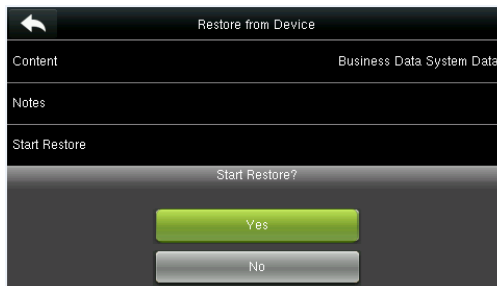
1. Tap **Restore from Device**.



3. Select the data content to be restored.



2. Tap **Content**.



4. Tap **Start Restore** and select **Yes** to confirm restoration.

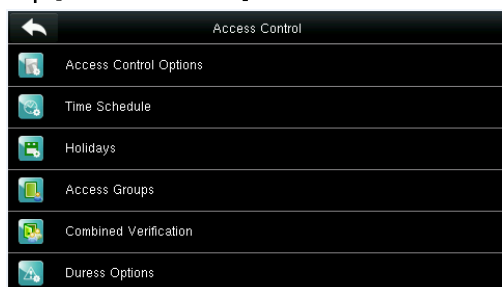
NOTE: The operations of **Restore from Device** are the same as that of **Restore from USB Disk**.

When you choose to save data to a USB disk, ensure that the USB disk is properly plugged into the device and contains corresponding data to be restored.

10 Access Control

Access Control option is used to set the Time Schedule, Holidays, Access Groups, Combined Verification etc., the related parameters for the device to control the lock and other devices.

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



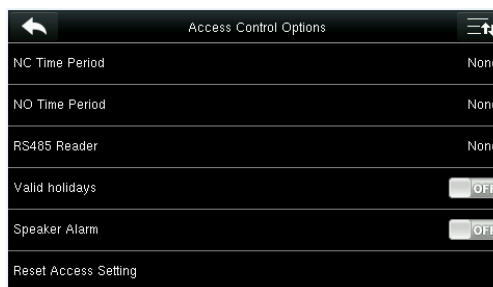
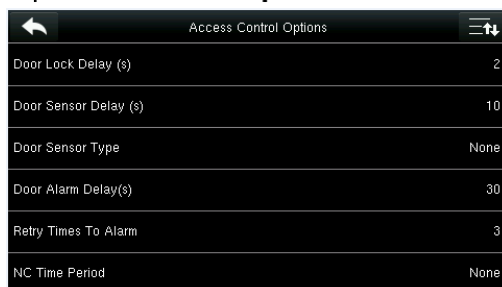
To gain access, the registered user must meet the following conditions:

1. User's access time falls within either user's personal time zone or group time zone.
2. User's group must be in the access combo (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 unlocking state.

10.1 Access Control Options Settings

To set the parameters of the equipment control lock and related equipment.

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



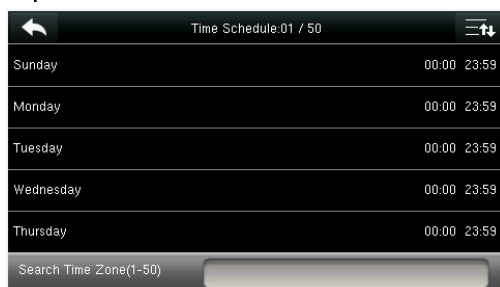
Menu Item	Description
	The period of time of unlocking (from door opening to closing automatically) after the seconds).
Door Sensor	When the door is opened, the door sensor will be checked after a time period; if the triggered. The time period is the Door Sensor Delay (value ranges from 0 to 255 seconds).
	It includes Normally Open , Normally Closed and No . No means door sensor is not in use; Normally Open means the door is opened when electricity is on; Normally Closed means the door is closed when electricity is on.

Menu Item	Description
	When the state of the door sensor is inconsistent with that of the door sensor type, alarm will be triggered after a time period; this time period is the Door Alarm Delay (the value ranges from 1 to 999 seconds).
Alarm	When the number of failed verification reaches the set value (value ranges from 1 to 9 times), the alarm will be triggered. If the set value is None, the alarm will not be triggered after failed verification.
NC Time Period	To set time period for Normally Closed mode, so that no one can gain access during this period.
NO Time Period	To set time period for Normally Open, so that the door is always unlocked during this period.
RS485 Reader	
	To set if NC Time Period or NO Time Period settings are valid in set holiday time period. Choose [ON] to enable the set NC or NO time period in holiday.
	When the [Speaker Alarm] is enabled, the speaker will raise an alarm when the device is being dismantled.
Reset Access Setting	To restore access control parameters.
	After setting NC Time Period , please lock the door well, otherwise alarm might be triggered during NC Time Period .

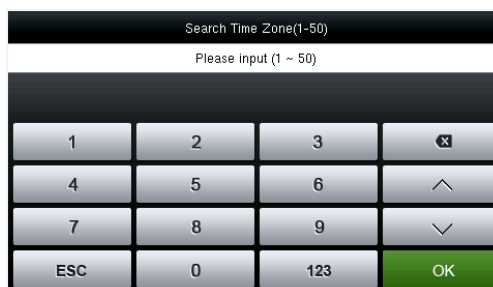
10.2 Time Schedule Settings

Time Schedule is the minimum time unit of access control settings; at most 50 **Time Schedules** can be set for the system. Each **Time Schedule** consists of 7 time sections (a week), and each time section is the valid time within 24 hrs.

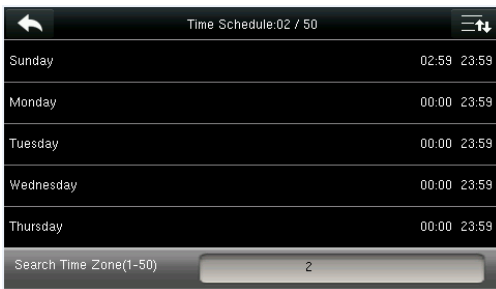
Tap **Time Schedule** on the **Access Control** interface.



1. Tap the input box of Search Time Zone.



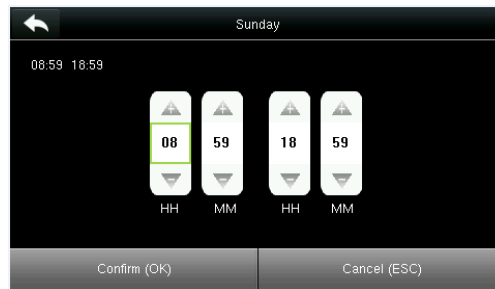
2. Enter the number of the time zone (50 in total) to be searched.



3. Tap the date on which time zone setting is required.

Note:

1. **Valid Time Schedule:** 00:00 ~ 23:59 (Whole-day valid) or when the end time is greater than the start time.
2. **Invalid Time Schedule:** When the end time is smaller than the start time.
3. The default time zone 1 indicates that system is open all day long.



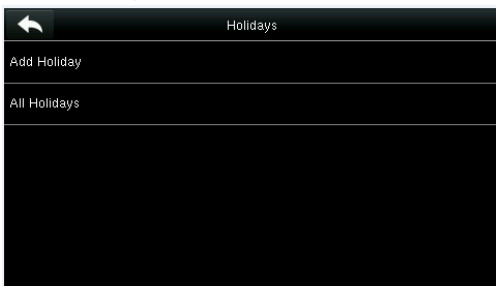
4. Press **Up and Down** to set the start and end time, and then press **Confirm (OK)**.

10.3 Holidays Settings

The concept of holiday and festival is introduced into access control. On holidays or festivals, special access control time may be required, but changing everyone's access control time is very tedious. Therefore, the access control time on holidays and festivals, which applies to all staff, can be set.

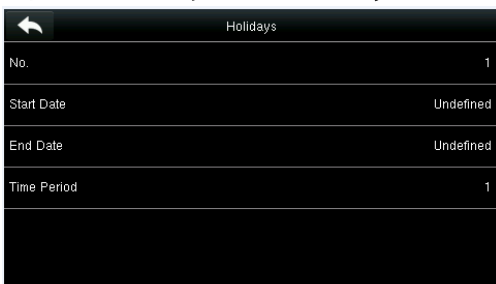
If the access control time on holidays and festivals is set, the opening period of time on holidays and festivals subjects to the time period set here.

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

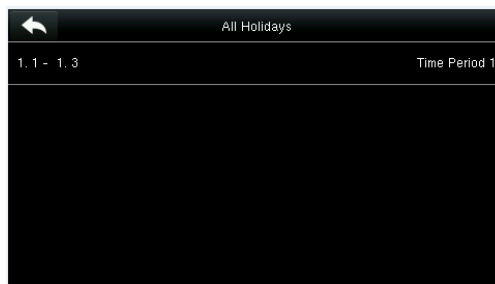


10.3.1 Add New Holiday

Tap **Add Holiday** on the **Holidays** interface.



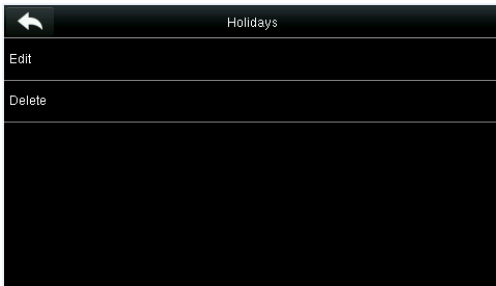
Set holiday parameters.



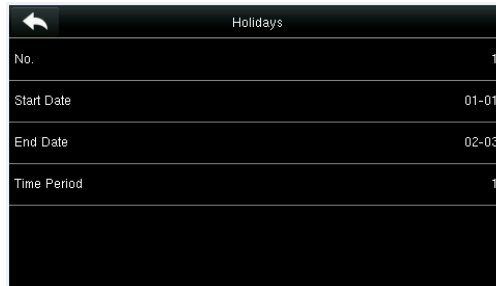
The added holidays are displayed in a list.

10.3.2 Edit Holiday

On the Holidays interface, tap to select an item to be modified.



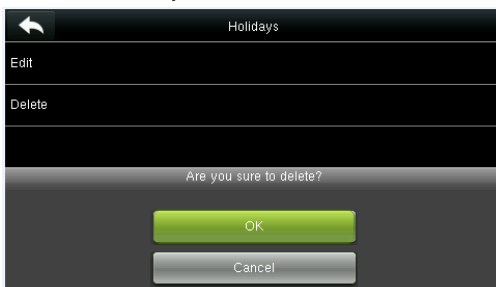
Tap **[Edit]**.



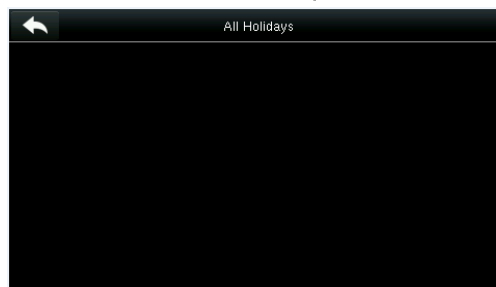
Modify holiday parameters.

10.3.3 Delete a Holiday

On the **Holidays** interface, tap to select a holiday item to be modified, and tap **Delete**.



Tap **OK** to confirm deletion.



After deletion, this holiday is no longer displayed in All Holidays.

10.4 Access Groups Settings

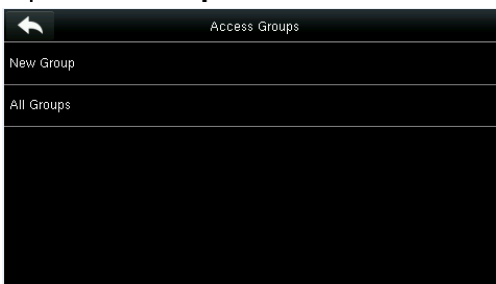
Grouping is to manage users in groups.

Group users' default time zone is set to be the group time zone, while users can set their personal time zone.

When the group verification mode overlaps the user verification mode, the user verification modes prevails.


Each group can set 3 time zones at most, as long as one of them is valid, the group can be verified successfully. By default, the newly enrolled user belongs to Access Group 1, and can also be allocated to other access group.

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



10.4.1 Add New Group

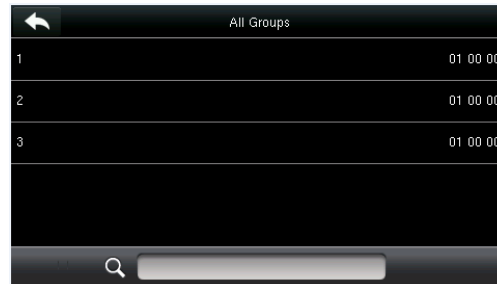
Tap **New Group** on the **Access Groups** interface.



The screenshot shows the 'Access Groups' interface with the following parameters:

Parameter	Value
No.	3
Verification Mode	Face/Fingerprint/Password/Badge
Time Period 1	1
Time Period 2	0
Time Period 3	0
Include Holidays	<input type="checkbox"/> OFF

Set access group parameters.



The screenshot shows the 'All Groups' interface with a list of access groups:

No.	Time
1	01 00 00
2	01 00 00
3	01 00 00

The added access groups are displayed in a list. You can rapidly search for groups by number.

Note:

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

10.4.2 Edit Group

On the **All Groups** interface, tap to select the access group item to be modified.



The screenshot shows the 'Access Groups' interface with the 'Edit' button highlighted.

Tap **Edit**.



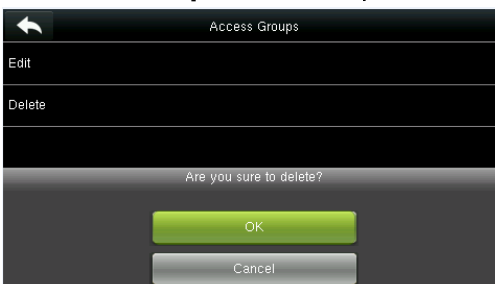
The screenshot shows the 'Access Groups' interface with the following parameters:

Parameter	Value
No.	3
Verification Mode	Fingerprint Only
Time Period 1	1
Time Period 2	0
Time Period 3	0
Include Holidays	<input checked="" type="checkbox"/> ON

Modify access group parameters.

10.4.3 Delete a Group

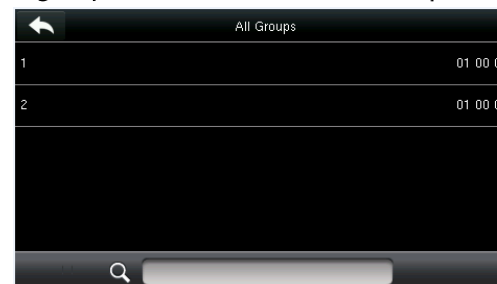
On the **All Groups** interface, tap to select the access group item to be modified, and tap **Delete**.



The screenshot shows the 'Access Groups' interface with the 'Delete' button highlighted. Below it, a confirmation dialog is displayed:

Are you sure to delete?

Tap **OK** to confirm deletion.



The screenshot shows the 'All Groups' interface with a list of access groups:

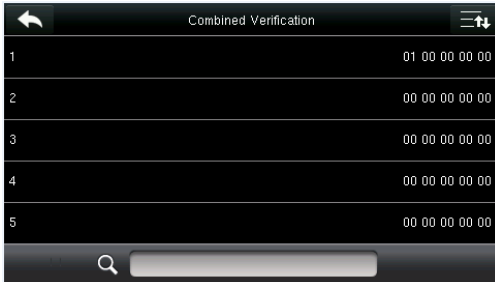
No.	Time
1	01 00 00
2	01 00 00

The deleted access group is no longer displayed in **All Groups**.

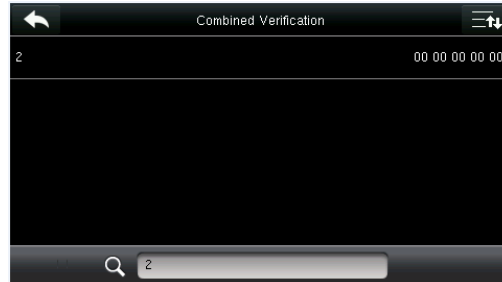
10.5 Combined Verification Settings

Combine two or more members to achieve multi-verification and improve security.

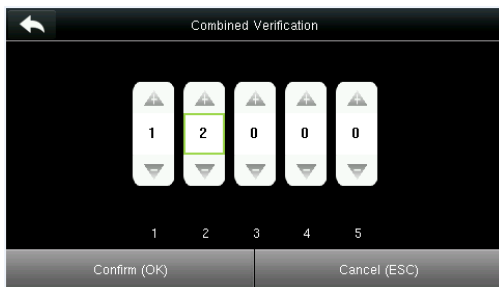
Tap **Combined Verification** on the **Access Control** interface.



1. Tap the unlocking combination to be set or tap the search bar and enter a unlocking combination number to find the specific combination.



2. Tap this unlocking combination item.



Note: In a Combined Verification, the range of user number is: $0 \leq N \leq 5$. If you need to delete a unlocking combination, directly set all digits of the combination number to 0. If you need to modify a combination, directly tap corresponding combination item to conduct setting again.

3. Tap **Up** and **Down** to enter the combination number, and then press [**Confirm (OK)**].

10.6 Duress Options Settings

When users come across duress, select duress alarm mode, the device will then open the door as usual and send the alarm signal to the backstage alarm.

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



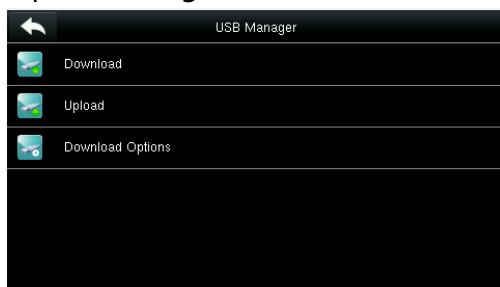
Menu Item	Description
Alarm on 1:1 Match	In [ON] state, when a user uses 1:1 Verification Method to verify any registered fingerprint, alarm will be triggered. In [OFF] state, no alarm signal will be triggered.
Alarm on 1: N Match	In [ON] state, when a user uses 1:N Verification Method to verify any registered fingerprint, alarm will be triggered. In [OFF] state, no alarm signal will be triggered.
Alarm on Password	In [ON] state, when a user uses password verification method, alarm will be triggered. In [OFF] state, no alarm signal will be triggered.
	When duress alarm is triggered, the device will send out alarm signal after 10 seconds (default); the alarm delay time can be changed (value ranges from 1 to 999 seconds).

11 USB Manager

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

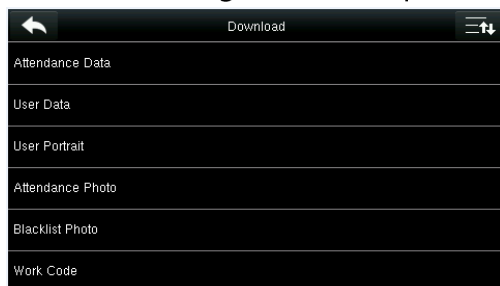
Before uploading/downloading data from/to the USB disk, insert the USB disk into the USB slot first.

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



11.1 USB Download

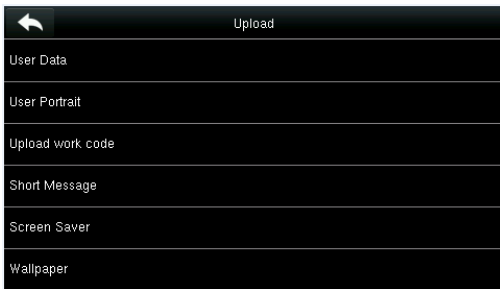
On the **USB Manager** interface, tap **Download**.



Menu Item	Description
Attendance Data	To download attendance data in specified time period into USB disk.
User Data	To download all user information and fingerprints from the device into USB disk.
User Portrait	To download all user pictures from the device into a USB disk.
Attendance Picture	To download all attendance pictures from the device into USB disk.
Blacklist Picture	To download all blacklisted pictures (pictures taken after failed verifications) from the device into USB disk.
Work Code	
Short Message	

11.2 USB Upload

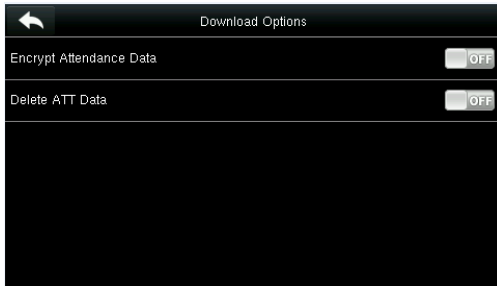
On the **USB Manager** interface, tap **Upload**.



Menu Item	Description
Upload User Data	<p>To upload the JPG picture named after a work code in the USB disk to the device. During uploading, you can select Upload Current Picture or Upload All Pictures. The picture is displayed after successful authentication.</p> <p>During uploading, you need to create a folder named "picture" in the root directory of the USB disk, and put the user picture in this directory. A maximum of 2000 pictures are supported and each picture cannot exceed 20 KB. Pictures are named in the format of X.jpg, of which X indicates the actual user ID and must be in JPG format.</p>
Upload Work Code	To upload work codes in the USB disk to the device.
Upload Short Message	To upload short messages saved in the USB disk to the device.
	<p>To upload all screen savers from USB disk into the device. You can choose Upload selected picture or Upload all pictures. The images will be displayed on the device's main interface after upload. During uploading, you need to create a folder named "advertise" in the root directory of the USB disk, and put the advertising pictures in this directory. A maximum of 20 pictures are supported and each picture cannot exceed 30 KB. The picture name and format are not limited, with formats such as jpg, png and bmp supported.</p>
	<p>To upload all wallpapers from USB disk into the device. You can choose Upload selected picture or Upload all pictures. The images will be displayed on the screen after upload. During uploading, you need to create a folder named "wallpaper" in the root directory of the USB disk, and put the wallpaper pictures in this directory. A maximum of 20 pictures are supported and each picture cannot exceed 30 KB. The picture name and format are not limited, with formats such as jpg, png and bmp supported.</p>
	<p>The size of a single user picture or attendance picture does not exceed 10 KB, and the device can save a total of 10,000 user pictures and attendance pictures.</p> <p>The optimal size of an advertising picture or wallpaper is 640*480.</p>

11.3 Download Options Settings

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

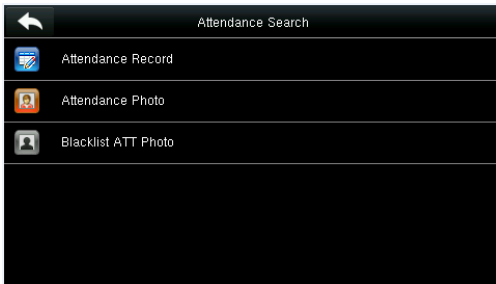


Menu Item	Description
Encrypt Attendance Data	During uploading and downloading, the attendance data is encrypted.
Delete ATT Data	After successful downloading, the attendance data on the device is deleted.

12 Attendance Search

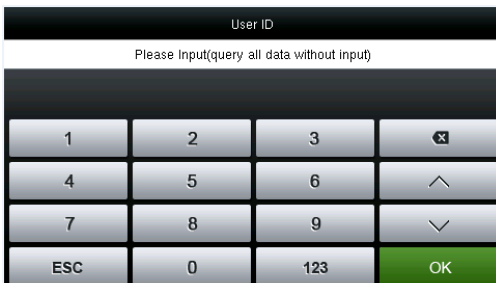
When users verify successfully, attendance records are saved in the device. This function enables users to check attendance logs.

Tap **Attendance Search** on the main menu interface.



The process of querying attendance pictures and blacklist pictures is the same as that of querying attendance records. The following is an example of querying attendance records.

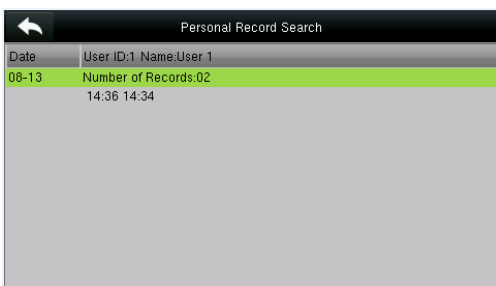
On the **Attendance Record** interface, tap **Attendance Record**.



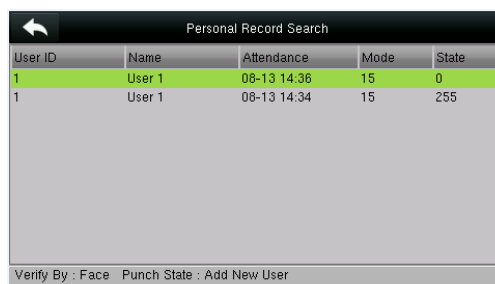
1. Enter the user ID to be searched and tap **OK**. Taping **OK** without entering a user ID searches the attendance records of all employees.



2. Select the time range for attendance record query.




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



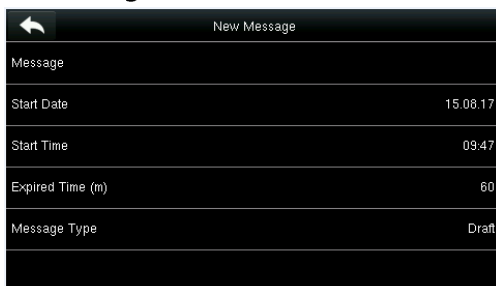
4. The above figure shows the details of this record.

14 Short Message

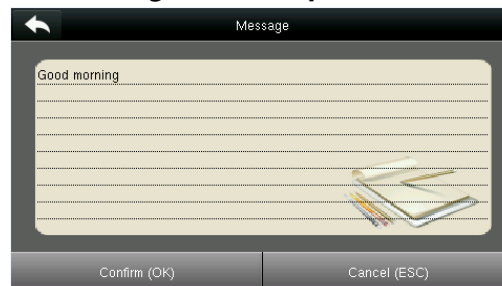
SMS is similar to notice. The operator can edit the notice content in advance and make it into SMS displayed on the screen. SMS includes common SMS and individual SMS. If common SMS is set,  will be displayed in information column at the top of standby interface in the specified time. If individual SMS is set, the employee who can receive SMS can see SMS after successful attendance.

14.1 Add a New Short Message

1. Entering the content: Enter the content of a short message with an input method.

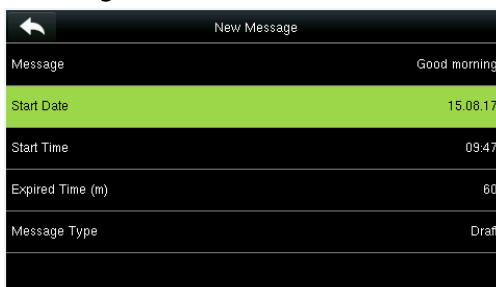


Tap **Message**.

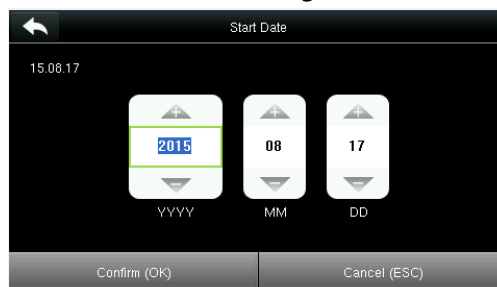


Enter the content and press **OK** to save the entered content and quit.

2. Setting the start date and time: the date and time when the short message becomes valid.



Select **Start Date** and press **OK**.



Press the numeric keys on the keypad to enter the date and press **OK**.

3. Set Expired time(m)SMS appears in the effective time. After the effective time, it won't appear.

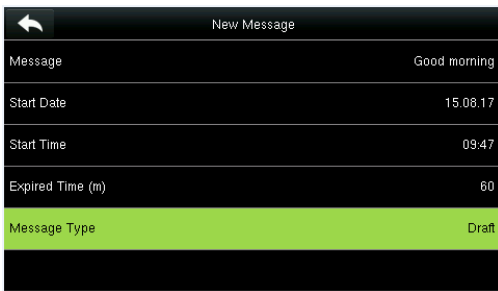
Notes: For public short messages, the effective period is also the display period. For private short messages, you need to set a display period after setting an effective period. That is, the display period of a private short message can be viewed when you punch in or out during the effective period of the message.

4. Set Message type

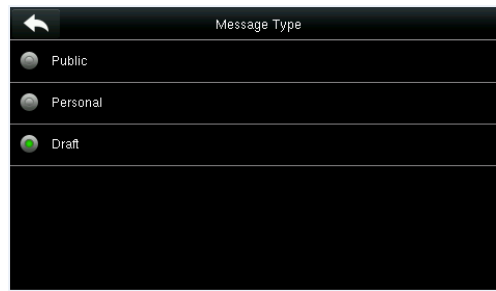
Public: SMS able to be seen by all employees.

Personal: SMS aimed at individual only.

Draft: Preset SMS, no difference of individual SMS or common SMS.



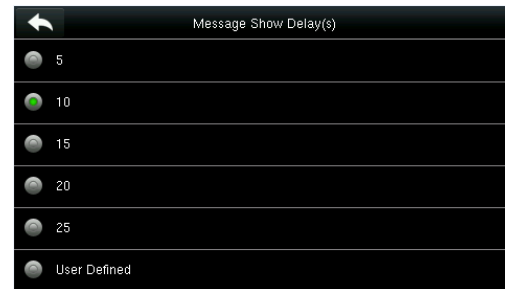
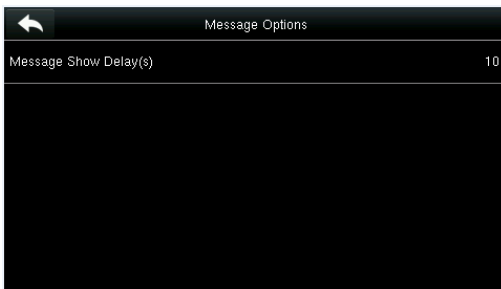
Select **Message** Type and press **OK**.




Press ▼ to select a type and press **OK** for confirmation.

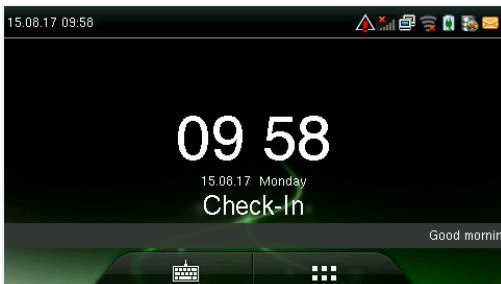
14.2 Message Options

Set the personal Message Show Delay time on the initial interface.

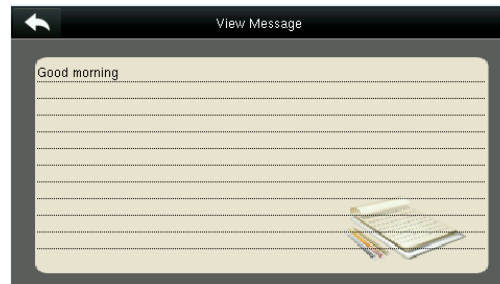


14.3 View the Public Messages and Personal Message

After a public short message is set, the short message icon  is displayed on the upper right of the main interface, and the public short message content is displayed in scroll mode below. The content of a personal short message is displayed after successful user authentication.



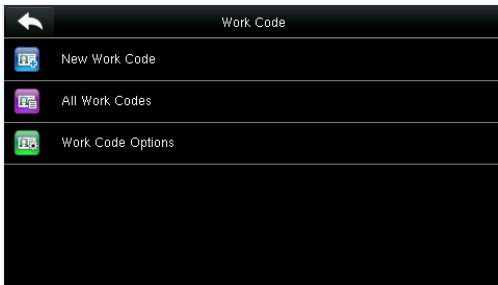
The public short message is displayed in the lower part of the interface.



The personal short message is displayed after successful user authentication.

15 Work Code

Employees' salaries are subject to their attendance records. Employees may be engaged in different types of work which may vary with time periods. Considering the salaries vary with 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.

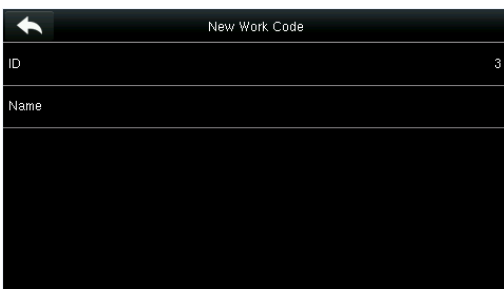


15.1 Add a Work Code

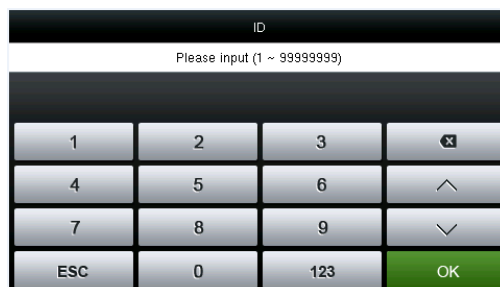
No.: A digital code of the work code.

Label: The meaning of the work code.

1. Editing an ID



Select **ID**.

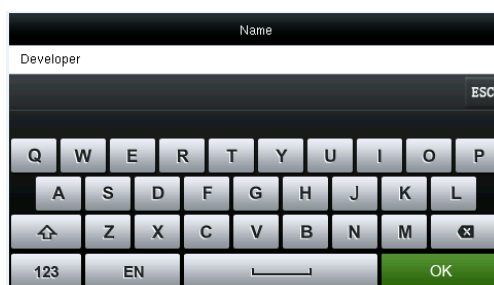


Press the numeric keys to assign a number between 1~99999999.

2. Editing a name



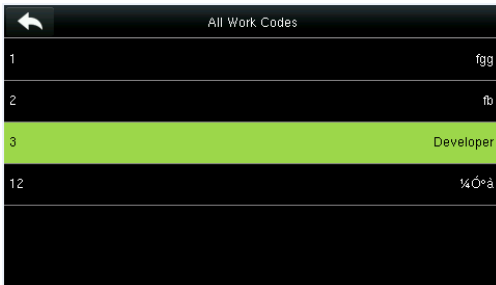
Select **Name**.



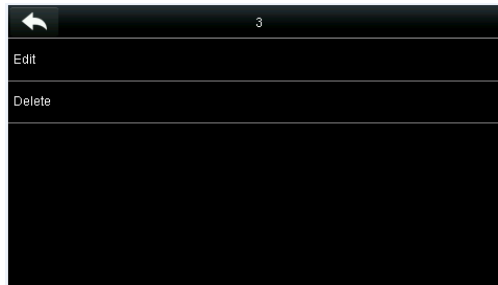
Press * to select an input method and enter a name.

15.2 All Work Codes List

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



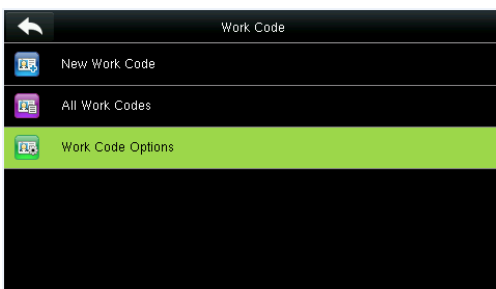
View the information about all work codes.



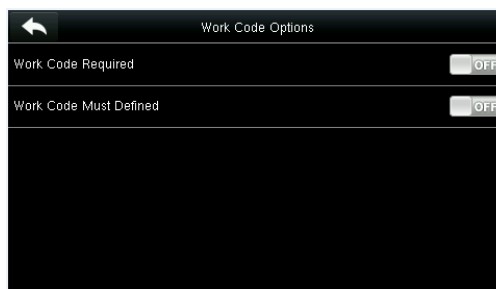
Edit or delete a work code.

15.3 Work Code Options

To set whether the work code must be entered and whether the entered work code must exist during authentication.



Select **Work Code Options**.

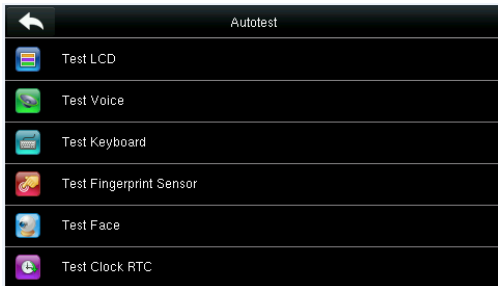


Press **ON/OFF** to turn on or off.

16 Autotest

To automatically test whether all modules in the device function properly, which include the LCD, voice, keyboard, fingerprint sensor ★, camera and RTC (Real-Time Clock).

In the initial interface, press **[Autotest]** to enter the **Autotest** interface.

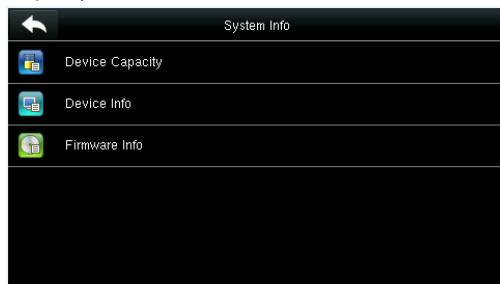


Menu Item	Description
	To test the display effect of LCD screen by displaying full color, pure white, and pure black to check whether the screen displays colors properly.
	The device automatically tests whether the voice files stored in the device are complete and the voice quality is good.
Test Fingerprint Sensor★	To test the fingerprint sensor by pressing fingerprint to check if the collected fingerprint screen.
Camera testing	To test if the camera functions properly by checking the pictures taken are clear for use.
	To test the Real-Time Clock. The device tests whether the clock works properly and accurately by checking the stopwatch. Touch the screen to start counting time, and press it again to stop counting, to see if the stopwatch counts time accurately.

17 System Information

Check data capacity, device and firmware information.

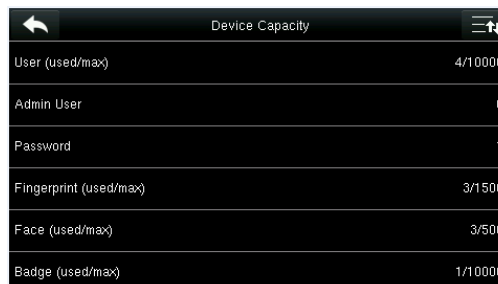
Tap [**System Info**] on the main menu interface.



1. On the System Info interface, tap an information item to be browsed.



3. View the device information, and press **Page Down** to view other information.



2. View the data capacity information, and press **Page Down** to view other information.



4. View the device firmware information.