

# User Manual

## OmniAC20

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English

## About the Manual

This manual introduces the operations of **OmniAC20**.

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

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

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# 1 Safety Measures

The below instructions intend to ensure that the user can use the product correctly to avoid danger or property loss. The following precautions are to keep users safe and prevent any damage. Please read carefully before installation.



Noncompliance with instructions could lead to product damage or physical injury (may even cause death).

1. **Read, follow, and retain instructions** - All safety and operational instructions must be properly read and followed before bringing the device into service.
2. **Do not ignore warnings** - Adhere to all warnings on the unit and in the operating instructions.
3. **Accessories** - Use only manufacturer-recommended or product-sold accessories. Please do not use any other components other than manufacturer suggested materials.
4. **Precautions for the installation** – Do not place this device on an unstable stand or frame. It may fall and cause serious injury to persons and damage to the device.
5. **Service** - Do not try to service this unit yourself. Opening or removing covers may expose you to hazardous voltages or other hazards.
6. **Damage requiring service** - Disconnect the system from the Mains AC or DC power source and refer service personnel under the following conditions:
  - ⌘ When cord or connection control is affected.
  - ⌘ When the liquid spilled, or an item dropped into the system.

- ⌘ If exposed to water or due to inclement weather (rain, snow, and more).
- ⌘ If the system is not operating normally, under operating instructions.

Just change controls defined in operating instructions. Improper adjustment of the controls may result in damage and involve a qualified technician to return the device to normal operation.

And do not connect multiple devices to one power adapter as adapter overload can cause over-heat or fire hazard.

7. **Replacement parts** - When replacement parts are needed, service technicians must only use replacement parts provided by the supplier. Unauthorized substitutes can result in a burn, shock, or other hazards.
8. **Safety check** - On completion of service or repair work on the unit, ask the service technician to perform safety checks to ensure proper operation of the device.
9. **Power sources** - Operate the system only from the label's power source form. If the sort of power supply to use is unclear, call your dealer.
10. **Lightning** - Can install external lightning conductors to protect against electrical storms. It stops power-ups from destroying the system.

Recommended installing the devices in areas with limited access.

## 2 Electrical Safety

- ⌘ Before connecting an external cable to the device, complete grounding properly, and set up surge protection; otherwise, static

electricity will damage the mainboard.

- ⌘ Make sure that the power has been disconnected before you wire, install, or dismantle the device.
- ⌘ Ensure that the signal connected to the device is a weak-current (switch) signal; otherwise, components of the device will get damaged.
- ⌘ Ensure that the standard voltage applicable in your country or region is applied. If you are not sure about the endorsed standard voltage, please consult your local electric power company. Power mismatch may cause a short circuit or device damage.
- ⌘ In the case of power supply damage, return the device to the professional technical personnel or your dealer for handling.
- ⌘ To avoid interference, keep the device far from high electromagnetic radiation devices, such as generators (including electric generators), radios, televisions, (especially CRT) monitors, or speakers.

### 3 Operation Safety

- ⌘ If smoke, odour, or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service centre.
- ⌘ Transportation and other unpredictable causes may damage the device hardware. Check whether the device has any intense damage before installation.
- ⌘ If the device has major defects that you cannot solve, contact your dealer as soon as possible.
- ⌘ Dust, moisture, and abrupt temperature changes can affect the device's service life. You are advised not to keep the device under



such conditions.

- ⌘ Do not keep the device in a place that vibrates. Handle the device with care. Do not place heavy objects on top of the device.
- ⌘ Do not apply rosin, alcohol, benzene, pesticides, and other volatile substances that may damage the device enclosure. Clean the device accessories with a piece of soft cloth or a small amount of cleaning agent.
- ⌘ If you have any technical questions regarding usage, contact certified or experienced technical personnel.

**Note:**

- ⌘ Make sure whether the positive polarity and negative polarity of the DC 12V power supply is connected correctly. A reverse connection may damage the device. It is not advisable to connect the AC 24V power supply to the DC 12V input port.
- ⌘ Make sure to connect the wires following the positive polarity and negative polarity shown on the device's nameplate.
- ⌘ The warranty service does not cover accidental damage, damage caused by mis-operation, and damage due to independent installation or repair of the product by the user.

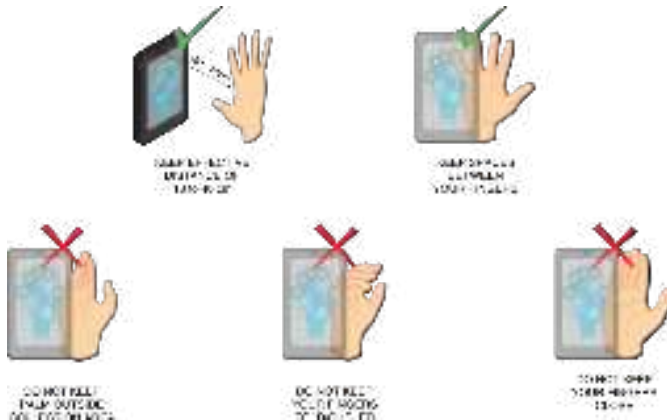
## 4 Instruction for Use

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

### 4.1 Palm Registration

Place your palm in the palm multi-mode collection area, such that the palm is placed parallel to the device.

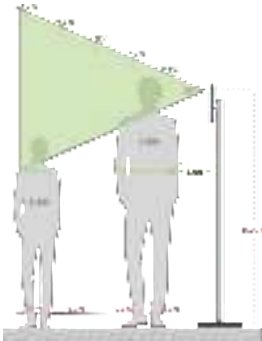
Make sure to keep space between your fingers.



**Note:** Place your palm within 18 to 40cm of the device.

## 4.2 Standing Position, Facial Expression and Standing Posture

### ➤ The recommended distance



The distance between the device and a user whose height is in a range of 1.5m to 1.85m is recommended to be 0.3 to 2.5m. Users may slightly move forward or backward to improve the character of facial images captured.

### ➤ Recommended standing posture and facial expression



Facial Expression

Standing  
Posture

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

## 4.3 Face Registration

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



### Correct face registration and authentication method

#### ➤ Recommendation for registering a face

- ⌘ When registering a face, maintain a distance of 40cm to 80cm between the device and the face.
- ⌘ Be careful to keep your facial expression natural and not to change. (smiling face, drawn face, wink, etc.)
- ⌘ If you do not follow the instructions on the screen, the face registration may take longer or may fail.

- ⌘ Be careful not to cover the eyes or eyebrows.
- ⌘ Do not wear hats, masks, sunglasses or eyeglasses.
- ⌘ Be careful not to display two faces on the screen. Register one person at a time.
- ⌘ It is recommended for a user wearing glasses to register both faces with and without glasses.



➤ **Recommendation for authenticating a face**

- ⌘ Ensure that the face appears inside the guideline displayed on the screen of the device.
- ⌘ Sometimes, authentication may fail due to the change in the wearing glasses then the one used while registration. In such a case, you may require authenticating your face with the previously worn glasses. If your face was registered without glasses, you should authenticate your face without glasses further.
- ⌘ If a part of the face is covered with a hat, a mask, an eye patch, or sunglasses, authentication may fail. Do not cover the face, allow the device to recognize both the eyebrows and the face.

## 4.4 Standby Interface

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



- ⌘ Tap  to enter the User ID input interface.
- ⌘ When there is no Super Administrator set in the device, tap  to go to the menu.
- ⌘ After adding a Super Administrator on the device, it requires the Super Administrator's verification before opening the menu functions.



**Note:** For the security of the device, it is recommended to register a super administrator the first time you use the device.

- ∞ The punch state options can also be displayed and used directly on the standby interface. Tap anywhere on the screen apart from the icons, and six shortcut keys appears on the screen, as shown in the figure below:



- Tap the corresponding punch state key to select your current punch state, which is displayed in green. Please refer to "Shortcut Key Mappings" for the specific operation method.


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



## 4.5 Virtual Keyboard



**Note:** The device supports the input in English language, numbers, and symbols.

- ∞ Tap **[EN]** to switch to the numeric keyboard.
- ∞ Tap **[123]** to switch to the symbolic keyboard.
- ∞ Tap **[@#&]** to return to the English keyboard.
- ∞ Tap [  ] to exit the virtual keyboard.

## 4.6 Verification Mode

### 4.6.1 Palm Verification


#### ➤ 1:N Palm Verification Mode

In this verification mode, the device compares the palm image collected by the palm collector with all the palm data in the device.


The device automatically distinguishes between the palm and the face verification mode as the user places his/her palm in the scanning area. Then the palm image is collected by the palm collector, and the device matches the collected palm image with all the registered palm and returns an output.



### ➤ 1:1 Palm Verification Mode

Tap the  button on the main screen to enter 1:1 palm verification mode and input the user ID and tap **[OK]**, as shown in image below.



If an employee registers a face, password and card in addition to the palm, the following screen will appear. Select the  icon to enter palm verification mode.

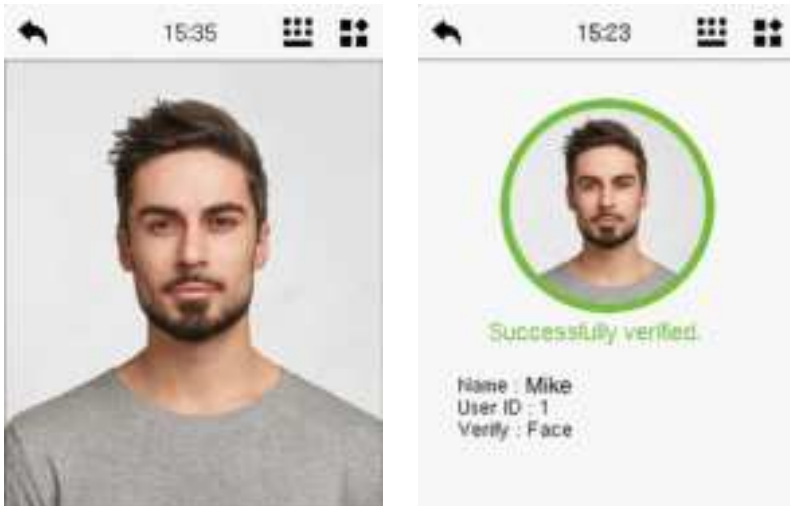


## 4.6.2 Facial Verification

### ➤ 1:N Facial Verification Mode

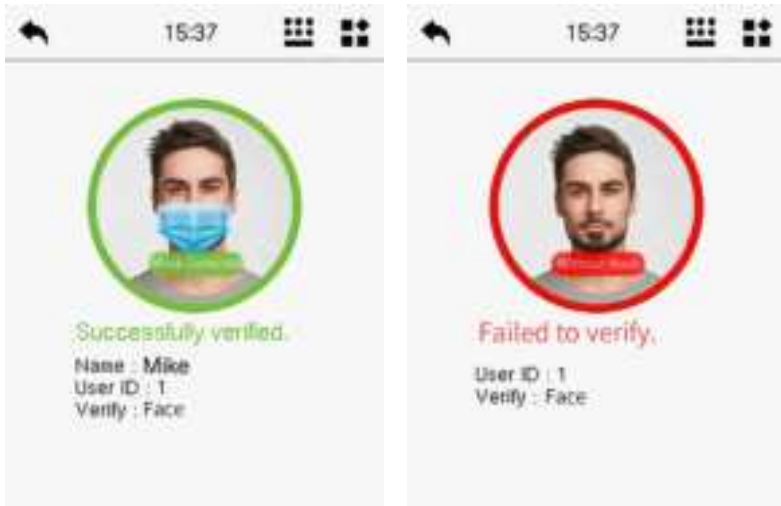
#### 1. Conventional Verification

It compares the acquired facial images with all face data registered in the device. The following is the pop-up prompt box of comparison results.




#### 2. Enable Mask Detection

When the user enables the **Enable mask detection** function, the device identifies whether the user is wearing a mask while verification or not. The comparison result prompt interface's pop-ups are listed below.




### ➤ 1:1 Facial Verification Mode

Compare the face captured by the camera with the facial template related to the entered user ID.

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

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



If an employee registers a palm, password and card in addition to the face, the following screen will appear. Select the  icon to enter face verification mode.



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

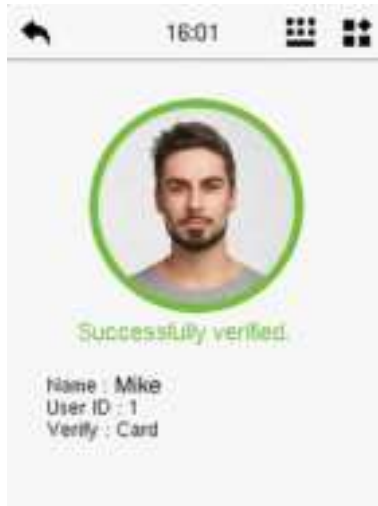


If the verification is failed, it prompts **"Please adjust your position!"**.

### 4.6.3 Card Verification


#### ➤ 1: N Card Verification Mode

The 1: N Card Verification mode compares the card number in the card induction area with all the card number data registered in the device; The following is the card verification screen.



### ➤ 1:1 Card Verification Mode


The 1:1 Card Verification mode compares the card number in the card induction area with the number associated with the employee's User ID registered in the device.

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

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






If an employee registers a palm, face and password in addition to the card, the following screen will appear. Select the  icon to enter card verification mode.




## 4.6.4 Password Verification

The device compares the entered password with the registered password of the given User ID.

Tap the  button on the main screen to enter the 1:1 password verification mode. Then, input the user ID and tap [OK].



If an employee registers a palm, face and card in addition to the password, the following screen will appear. Select the  icon to enter password verification mode.

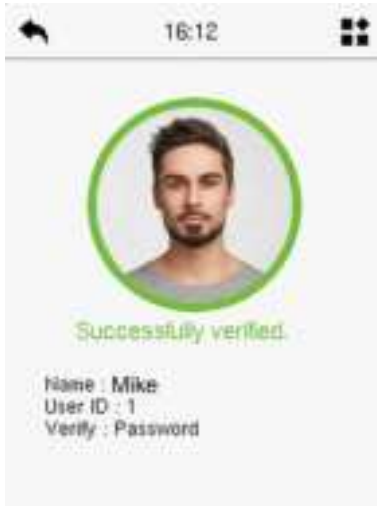


Input the password and tap **[OK]**.

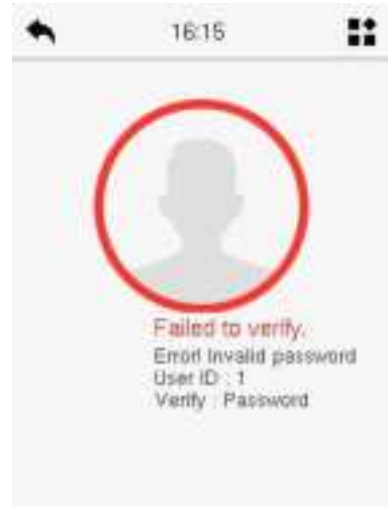


Below are the display screens after entering a correct password and a wrong password, respectively.

Verification is successful:



Verification is failed:



### 4.6.5 Combined Verification

This device allows you to use a variety of verification methods to increase security. There are a total of 12 distinct verification combinations that can be implemented, as listed below:

#### Combined Verification Symbol Definition

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

	to that Personnel ID in the Device.
--	-------------------------------------



### Procedure to set for Combined Verification Mode

- ⌘ Combined verification requires personnel to register all the different verification methods. Otherwise, employees will not be able to successfully verify the combined verification process.
- ⌘ For instance, when an employee has registered only for the face data, but the Device verification mode is set as “Face + Password”, the employee will not be able to complete the verification process successfully.
- ⌘ This is because the Device compares the face template of the person with the registered verification template (both the Face and the Password) previously stored to that Personnel ID in the Device.
- ⌘ But as the employee has registered only the Face but not the Password, the verification will not get completed and the Device displays “Verification Failed”.

## 5 Main Menu

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



**Function Description**

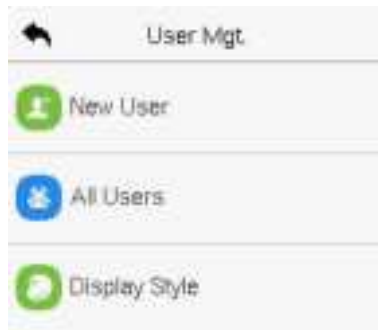
Menu	Description
User Mgt.	To Add, Edit, View, and Delete information of a User.
User Role	To set the permission scope of the custom role and enroller for the users, that is, the rights to operate the system.
COMM.	To set the relevant parameters of Network, Serial Comm., PC Connection, Wiegand and Network Diagnosis.
System	To set parameters related to the system, including Date & Time, Attendance, Face & Palm parameters, Health Protection, Device Type and resetting to factory settings.
Personalize	To customize settings of User Interface, Voice, Bell Schedules, Punch State Options and Shortcut Key Mappings settings.
Data Mgt.	To delete all relevant data in the device.
Access Control	To set the parameters of the lock and the relevant access control device including options like Time schedule, Holiday Settings, Access Groups, Combine verification, Anti-Passback Setup, and Duress Option Settings.
Attendance Search	To query the specified Event Logs, check Attendance Photos and Blocklist Attendance Photos.
Autotest	To automatically test whether each module functions properly, including the LCD Screen, Audio, Camera, and Real-Time Clock.
System Info	To view Privacy Policy, Data Capacity and Device and

	Firmware information of the current device.
--	---

## 6 User Management

### 6.1 User Registration

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



#### 6.1.1 Register a User ID and Name

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



New User	
User ID	3
Name	
User Role	Normal User
Palm	0
Face	0

New User	
Face	0
Card	0
Password	
ProfilePhoto	0
Access Control Role	

**Note:**

- 1) A name can take up to 36 characters.
- 2) The user ID may contain 1-14 digits by default, support number and [alphabetic](#).
- 3) During the initial registration, you can modify your ID but not after the registration.
- 4) If the message "**Duplicated!**" appears, you must choose a different User ID because the one you entered already exists.

### 6.1.2 User Role

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

∞ **Super Admin:** The Super Administrator owns all management privileges in the Device.

∞ **Normal User:** If the Super Admin is registered already in the device, then the Normal Users will not have the privilege to manage the

system and can only access authentic verifications.

- ✎ **User Defined Roles:** The Normal User can also be assigned custom roles with User Defined Role. The user can be permitted to access several menu options as required.



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

### 6.1.3 Palm

Tap **Palm** in the **New User** interface to enter the palm registration page.

- ✎ Select the palm to be enrolled.
- ✎ Please place your palm inside the guiding box and keep it still while registering.
- ✎ A progress bar shows up while registering the palm and a **“Enrolled Successfully”** is displayed as the progress bar completes.
- ✎ If the palm is registered already then, the **“Palm repeated”** message shows up. The registration interface is as follows:



#### 6.1.4 Face

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

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



### 6.1.5 Card

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

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



### 6.1.6 Password

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

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



### 6.1.7 Profile Photo

Tap **Profile Photo** in the **New User** interface to enter the profile photo registration page.

- ⌘ When a user registered with a photo passes the authentication, the registered photo will be displayed.
- ⌘ Tap **Profile Photo**, the device's camera will open, then tap the camera icon to take a photo. The captured photo is displayed on the top left corner of the screen and the camera opens up again to take a new photo, after taking the initial photo.

**Note:** While registering a face, the system automatically captures a photo as the user photo. If you do not register a user photo, the system automatically sets the photo captured while registration as the default photo.



### 6.1.8 Access Control Role

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

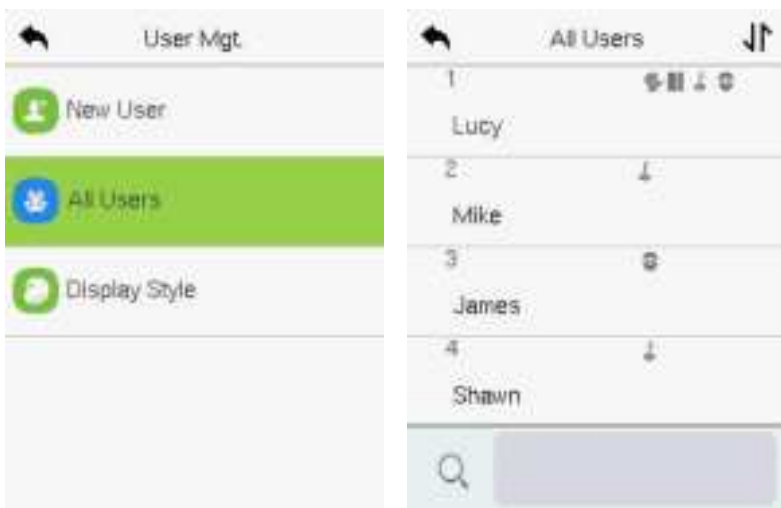
- ✎ Tap **Access Control Role > Access Group** to assign the registered users to different groups for better management. New users belong to Group 1 by default and can be reassigned to other groups. The device supports up to 99 Access Control groups.
- ✎ Tap **Time Period**, to select the time to use.
- ✎ Tap **Verification Mode**, to select the verification mode.



## 6.2 Search User

On the **Main Menu**, tap **User Mgt.**, and then tap **All Users** to search a User.

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





## 6.3 Edit User

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

The left screenshot shows a screen titled 'User: 1 Lucy' with a back arrow on the left and a right arrow on the right. Below the title, there are two buttons: 'Edit' (highlighted in green) and 'Delete'. The right screenshot shows a screen titled 'Edit: Lucy' with a back arrow on the left and a right arrow on the right. Below the title, there are five fields: 'User ID' with a value of '1', 'Name' with a value of 'Lucy', 'User Role' with a value of 'Normal User', 'Palm' with a value of '1', and 'Face' with a value of '1'.

**Note:** The process of editing the user information is the same as adding a new user, except that the User ID cannot be modified while editing a user. The process in detail refers to "[User Management](#)".

## 6.4 Delete User

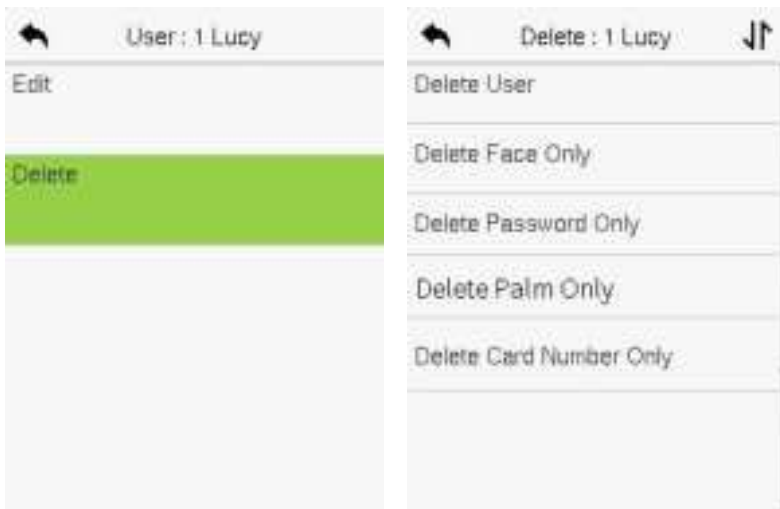
On the **All-Users** interface, tap on the required user from the list and tap **Delete** to delete the user or specific user information from the device. On the **Delete** interface, tap on the required operation, and then tap **OK** to confirm the deletion.

### Delete Operations

 **Delete User:** Deletes all the user information (deletes the selected

User as a whole) from the Device.

- ⌘ **Delete Palm Only:** Deletes the palm information of the selected user.
- ⌘ **Delete Face Only:** Deletes the face information of the selected user.
- ⌘ **Delete Password Only:** Deletes the password information of the selected user.
- ⌘ **Delete Card Only:** Deletes the card information of the selected user.



## 6.5 Display Style

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



All the Display Styles are shown as below:

Multiple Line:



Mixed Line:



## 7 User Role

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

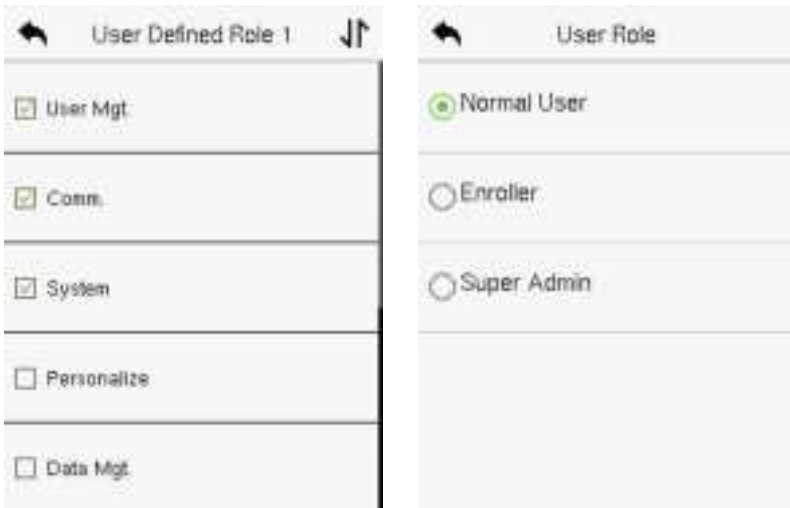
- On the **Main** menu, tap **User Role**, and then tap on the **User Defined Role** to set the user defined permissions.
- The permission scope of the custom role can be set up into 3 roles, that is, the custom operating scope of the menu functions of the user.



- On the **User Defined Role** interface, toggle **Enable Defined Role** to enable or disable the user defined role.
- Tap on **Name** and enter the custom name of the role.



- Then, by tapping on Define User Role, select the required privileges for the new role, and then tap the Return button.
- During privilege assignment, the main menu function names will be displayed on the left and its sub-menus will be listed on the right.
- First tap on the required **Main Menu** function name, and then select its required sub-menus from the list.



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

## 8 Communication Settings

Communication Settings are used to set the parameters of the Network, Serial Comm, PC Connection, Wiegand and Network Diagnosis.

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



### 8.1 Network Settings

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

Tap **Ethernet** on the **Comm.** Settings interface to configure the settings.



The screenshot shows a mobile application interface for configuring an Ethernet connection. At the top, there is a header bar with a back arrow on the left, the word "Ethernet" in the center, and a refresh/undo icon on the right. Below the header, there are five input fields, each with a label on the left and a value on the right. The fields are: "IP Address" with value "192.168.163.99", "Subnet Mask" with value "255.255.255.0", "Gateway" with value "192.168.163.1", "DNS" with value "0.0.0.0", and "TCP COMM Port" with value "4370".

Field	Value
IP Address	192.168.163.99
Subnet Mask	255.255.255.0
Gateway	192.168.163.1
DNS	0.0.0.0
TCP COMM Port	4370

### **Function Description**

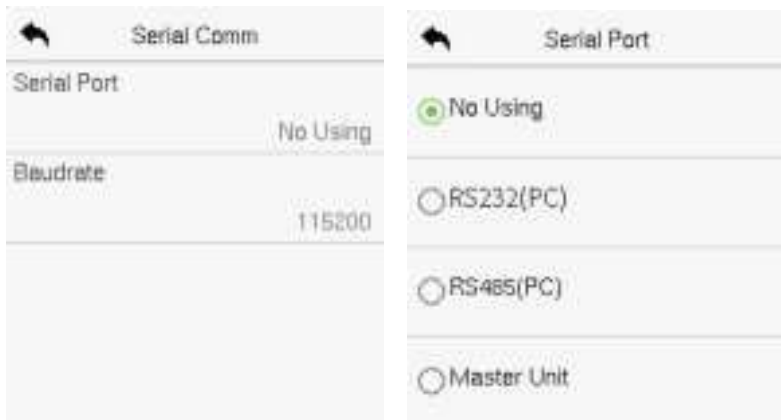
Function Name	Description
IP Address	The default IP address is 192.168.1.201. It can be modified according to the network availability.
Subnet Mask	The default Subnet Mask is 255.255.255.0. It can be modified according to the network availability.
Gateway	The Default Gateway address is 0.0.0.0. It can be modified according to the network availability.
DNS	The default DNS address is 0.0.0.0. It can be modified according to the network availability.
TCP COMM. Port	The default TCP COMM Port value is 4370. It can be modified according to the network availability.
DHCP	Dynamic Host Configuration Protocol dynamically allocates IP addresses for clients via server.

<b>Display in Status Bar</b>	Toggle to set whether to display the network icon on the status bar.
------------------------------	--

## 8.2 Serial Comm

Serial Comm function establishes communication with the device through a serial port (RS232/RS485/Master Unit).

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



### Function Description

Function Name	Description
<b>Serial Port</b>	<p><b>No Using:</b> No communication with the device through the serial port.</p> <p><b>RS232(PC):</b> Communicate with the device through the RS232 serial port.</p> <p><b>RS485(PC):</b> Communicate with the device through the RS485 serial port.</p> <p><b>Master Unit:</b> When RS485 is used as the function of "Master unit", it can be connected to a card reader.</p>



<b>Baud Rate</b>	<p>There are 4 baud rate options at which the data communicates with PC. They are: 115200 (default), 57600, 38400, and 19200.</p> <p>The higher the baud rate, the faster is the communication speed, but also less reliable.</p> <p>Hence, a higher baud rate can be used when the communication distance is short; when the communication distance is long, choosing a lower baud rate is more reliable.</p>
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## 8.3 PC Connection

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

Tap **PC Connection** on the **Comm.** Settings interface to configure the communication settings.

### Function Description

Function Name	Description
<b>Comm Key</b>	<p>The default password is 0 and can be changed.</p> <p>The Comm Key can contain 1-6 digits.</p>
<b>Device ID</b>	<p>The identity number of the device, which ranges between 1 and 254.</p> <p>If the communication method is RS232/RS485, you need to input this device ID in the software communication interface.</p>
<b>HTTPS</b>	<p>To increase the security of software access, users can enable the HTTPS protocol to create a secure and encrypted network transmission and assure the security of sent data through identity authentication</p>

and encrypted communication.

This function is enabled by default. This function can be enabled or disabled through the menu interface, and when changing the HTTPS status, the device will pop up a security prompt, and restart after confirmation.

## 8.4 Cloud Server Setting

This represents the settings used for connecting the ADMS server.

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



Function Name		Description
Enable Domain Name	Server Address	When this function is enabled, the domain name mode "http://..." will be used, such as http://www.XYZ.com, while "XYZ" denotes the domain name when this mode is turned ON.
Disable Domain Name	Server Address	IP address of the ADMS server.
	Server Port	Port used by the ADMS server.

**Enable Proxy  
Server**

When you choose to enable the proxy, you need to set the IP address and port number of the proxy server.

## 8.5 Wiegand Setup

It is used to set the Wiegand input and output parameters.

Tap **Wiegand Setup** on the **Comm.** Settings interface to set up the Wiegand input and output parameters.



### ➤ Read Wiegand Format

Set the read wiegand format for this device. Support 26 bits, 34 bits, 35 bits and 37 bits.

## ➤ Wiegand Input



Wiegand Options

Wiegand Format

Wiegand Bits 26

Pulse Width(us) 100

Pulse Interval(us) 1000

ID Type User ID

### Function Description

Function Name	Description
<b>Wiegand Format</b>	Its value can be 26 bits, 34 bits, 36 bits, 37 bits, and 50 bits.
<b>Wiegand Bits</b>	The number of bits of the Wiegand data.
<b>Pulse Width(us)</b>	The value of the pulse width sent by Wiegand is 100 microseconds by default, which can be adjusted within the range of 20 to 400 microseconds.
<b>Pulse Interval(us)</b>	The default value is 1000 microseconds and can be adjusted within the range of 200 to 20000 microseconds.

<b>ID Type</b>	Select between the User ID and card number.
----------------	---

**Various Common Wiegand Format Description:**

<b>Wiegand Format</b>	<b>Description</b>
<b>Wiegand26</b>	<p>EEEEEEEEEEEEEEEEEEEEEEEEEEEECO</p> <p>It consists of 26 bits of binary code. The 1<sup>st</sup> bit is the even parity bit of the 2<sup>nd</sup> to 13<sup>th</sup> bits, while the 26<sup>th</sup> bit is the odd parity bit of the 14<sup>th</sup> to 25<sup>th</sup> bits. The 2<sup>nd</sup> to 25<sup>th</sup> bits are the card numbers.</p>
<b>Wiegand26a</b>	<p>ESSSSSSSSCCCCCCCCCCCCCCCCCO</p> <p>It consists of 26 bits of binary code. The 1<sup>st</sup> bit is the even parity bit of the 2<sup>nd</sup> to 13<sup>th</sup> bits, while the 26<sup>th</sup> bit is the odd parity bit of the 14<sup>th</sup> to 25<sup>th</sup> bits. The 2<sup>nd</sup> to 9<sup>th</sup> bits is the site codes, while the 10<sup>th</sup> to 25<sup>th</sup> bits are the card numbers.</p>
<b>Wiegand34</b>	<p>EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEECO</p> <p>It consists of 34 bits of binary code. The 1<sup>st</sup> bit is the even parity bit of the 2<sup>nd</sup> to 17<sup>th</sup> bits, while the 34<sup>th</sup> bit is the odd parity bit of the 18<sup>th</sup> to 33<sup>rd</sup> bits. The 2<sup>nd</sup> to 25<sup>th</sup> bits are the card numbers.</p>
<b>Wiegand34a</b>	<p>ESSSSSSSSCCCCCCCCCCCCCCCCCCCCCO</p> <p>It consists of 34 bits of binary code. The 1<sup>st</sup> bit is the even parity bit of the 2<sup>nd</sup> to 17<sup>th</sup> bits, while the 34<sup>th</sup> bit is the odd parity bit of the 18<sup>th</sup> to 33<sup>rd</sup> bits. The 2<sup>nd</sup> to 9<sup>th</sup> bits is the site codes, while the 10<sup>th</sup> to 25<sup>th</sup> bits are the card numbers.</p>

<b>Wiegand36</b>	<p>OFFFFFFFFFFFFFFFFFFCCCCCCCCCCCCCCCCM ME</p> <p>It consists of 36 bits of binary code. The 1<sup>st</sup> bit is the odd parity bit of the 2<sup>nd</sup> to 18<sup>th</sup> bits, while the 36<sup>th</sup> bit is the even parity bit of the 19<sup>th</sup> to 35<sup>th</sup> bits. The 2<sup>nd</sup> to 17<sup>th</sup> bits is the device codes. The 18<sup>th</sup> to 33<sup>rd</sup> bits is the card numbers, and the 34<sup>th</sup> to 35<sup>th</sup> bits are the manufacturer codes.</p>
<b>Wiegand36a</b>	<p>EEEEEEEEEEEEEEEEEEEECCCCCCCCCCCCCCC CO</p> <p>It consists of 36 bits of binary code. The 1<sup>st</sup> bit is the even parity bit of the 2<sup>nd</sup> to 18<sup>th</sup> bits, while the 36<sup>th</sup> bit is the odd parity bit of the 19<sup>th</sup> to 35<sup>th</sup> bits. The 2<sup>nd</sup> to 19<sup>th</sup> bits is the device codes, and the 20<sup>th</sup> to 35<sup>th</sup> bits are the card numbers.</p>
<b>Wiegand37</b>	<p>OMMMMSSSSSSSSSSSSSSCCCCCCCCCCCCCCC CCCE</p> <p>It consists of 37 bits of binary code. The 1<sup>st</sup> bit is the odd parity bit of the 2<sup>nd</sup> to 18<sup>th</sup> bits, while the 37<sup>th</sup> bit is the even parity bit of the 19<sup>th</sup> to 36<sup>th</sup> bits. The 2<sup>nd</sup> to 4<sup>th</sup> bits is the manufacturer codes. The 5<sup>th</sup> to 16<sup>th</sup> bits is the site codes, and the 21<sup>st</sup> to 36<sup>th</sup> bits are the card numbers.</p>
<b>Wiegand37a</b>	<p>EMMMFFFFFFFFFFFFSSSSSSCCCCCCCCCCCCC CCCO</p> <p>It consists of 37 bits of binary code. The 1<sup>st</sup> bit is the even parity bit of the 2<sup>nd</sup> to 18<sup>th</sup> bits, while the 37<sup>th</sup> bit is the odd parity bit of the 19<sup>th</sup> to 36<sup>th</sup> bits. The 2<sup>nd</sup> to 4<sup>th</sup> bits is the manufacturer codes. The 5<sup>th</sup> to 14<sup>th</sup> bits</p>



**Function Description**

Function Name	Description
<b>SRB</b>	When SRB is enabled, the lock is controlled by the SRB to prevent the lock from being opened due to device removal.
<b>Wiegand Format</b>	Its value can be 26 bits, 34 bits, 36 bits, 37 bits, and 50 bits.
<b>Wiegand Output Bits</b>	After selecting the required Wiegand format, select the corresponding output bit digits from the Wiegand format.
<b>Failed ID</b>	If the verification fails, the system will send the failed ID to the device and replace the card number or personnel ID with the new one.
<b>Site Code</b>	It is similar to the device ID. The difference is that a site code can be set manually and is repeatable on a different device. The valid value ranges from 0 to 256 by default.
<b>Pulse Width(us)</b>	The time width represents the changes in the quantity of electric charge with regular high-frequency capacitance within a specified time.



<b>Pulse Interval(us)</b>	The time interval between pulses.
<b>ID Type</b>	Select the ID types as either User ID or card number.

## 8.6 Network Diagnosis

It helps to set the network diagnosis parameters.

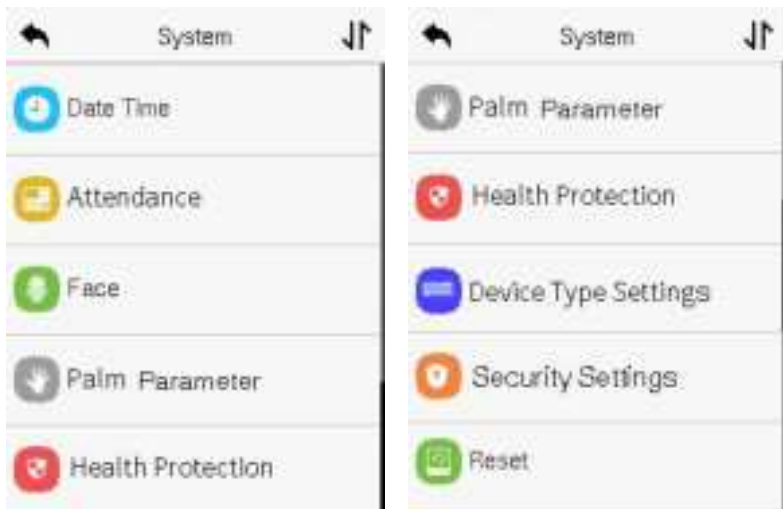
Tap **Network Diagnosis** on the **Comm.** Settings interface. Enter the IP address that needs to be diagnosed and tap **Start the Diagnostic Test** to check whether the network can connect to the device.



## 9 System Settings

It helps to set related system parameters to optimize the accessibility of the device.

Tap **System** on the **Main Menu** interface to get into its menu options.



### 9.1 Date and Time

Tap **Date Time** on the **System** interface to set the date and time.



- ⌘ Tap **Manual Date and Time** to manually set the date and time and then tap to **Confirm** and save.
- ⌘ Tap **Select Time Zone** to manually select the time zone where the device is located.
- ⌘ Enable or disable this format by tapping 24-Hour Time. If enabled, then select the **Date Format** to set the date.
- ⌘ Tap **Daylight Saving Time** to enable or disable the function. If enabled, tap **Daylight Saving Mode** to select a daylight-saving mode and then tap **Daylight Saving Setup** to set the switch time.

Daylight Saving Setup		Daylight Saving Setup	
Start Month	1	Start Date	00-00
Start Week	1	Start Time	00:00
Start Day	Sunday	End Date	00-00
Start Time	00:00	End Time	00:00
End Month	1		

**Week Mode****Date Mode**

- ⌘ When restoring the factory settings, the time (24-hour) and date format (YYYY-MM-DD) can be restored, but the device date and time cannot be restored.

**Note:** For example, if a user sets the time of the device (18:35 on March 15, 2020) to 18:30 on January 1, 2021. After restoring the factory settings, the time of the device will remain at 18:30 on January 1, 2021.

## 9.2 Access Logs & Attendance Setting

Tap **Access Logs Settings/Attendance** on the **System** interface.

**Access Control Terminal:**

Access Logs Setting	Access Logs Setting
Camera Mode	Access Log Alert
No photo	99
Display User Photo	Periodic Del of Access Logs
<input checked="" type="checkbox"/>	Disabled
Alphanumeric User ID	Periodic Del of T&A Photo
<input checked="" type="checkbox"/>	99
Access Log Alert	Periodic Del of Blocklist Photo
99	99
Periodic Del of Access Logs	Authentication Timeout(s)
Disabled	3

**Time Attendance Terminal:**

Attendance	Attendance
Duplicate Punch Period(m)	Attendance Log Alert
1	99
Camera Mode	Periodic Del of T&A Data
No photo	Disabled
Display User Photo	Periodic Del of T&A Photo
<input checked="" type="checkbox"/>	99
Alphanumeric User ID	Periodic Del of Blocklist Photo
<input checked="" type="checkbox"/>	99
Attendance Log Alert	Authentication Timeout(s)
99	3

**Function Description of Access Control Terminal:**

Function Name	Description
<b>Camera Mode</b>	<p>Whether to capture and save the current snapshot image during verification. There are 5 modes:</p> <p><b>No photo:</b> No photo is taken during user verification.</p> <p><b>Take photo, no save:</b> Photo is taken but is not saved during verification.</p> <p><b>Take photo and save:</b> Photo is taken and saved during verification.</p> <p><b>Save on successful verification:</b> Photo is taken and saved for each successful verification.</p> <p><b>Save on failed verification:</b> Photo will be taken and saved only for each failed verification.</p>
<b>Display User Photo</b>	<p>Whether to display the user photo when the user passes the verification.</p>
<b>Alphanumeric User ID</b>	<p>Enable/Disable the alphanumeric as User ID.</p>
<b>Access Log Alert</b>	<p>When the record space of the attendance access reaches the maximum threshold value, the device automatically displays the memory space warning.</p> <p>Users may disable the function or set a valid value between 1 and 9999.</p>

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

**Function Description of Time Attendance Terminal:**

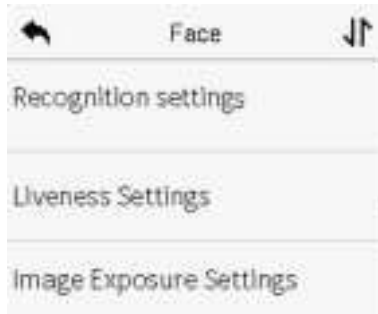
Function Name	Description
<b>Duplicate Punch Period(m)</b>	Within a set time period (unit: minutes), the duplicated attendance record will not be reserved (value ranges from 1 to 999999 minutes).
<b>Camera Mode</b>	<p>Whether to capture and save the current snapshot image during verification. There are 5 modes:</p> <p><b>No photo:</b> No photo is taken during user verification.</p> <p><b>Take photo, no save:</b> Photo is taken but is not saved during verification.</p> <p><b>Take photo and save:</b> Photo is taken and saved during verification.</p> <p><b>Save on successful verification:</b> Photo is taken and saved for each successful verification.</p> <p><b>Save on failed verification:</b> Photo will be taken and saved only for each failed verification.</p>
<b>Display User Photo</b>	Whether to display the user photo when the user passes the verification.
<b>Alphanumeric User ID</b>	Enable/Disable the alphanumeric as User ID.



<b>Attendance Log Alert</b>	<p>When the record space of the attendance reaches the maximum threshold value, the device automatically displays the memory space warning.</p> <p>Users may disable the function or set a valid value between 1 and 9999.</p>
<b>Periodic Del of T&amp;A Data</b>	<p>When attendance records reach its maximum storage capacity, the device automatically deletes a set of old attendance records.</p> <p>Users may disable the function or set a valid value between 1 and 999.</p>
<b>Periodic Del of T&amp;A Photo</b>	<p>When attendance photos reach its maximum storage capacity, the device automatically deletes a set of old attendance photos.</p> <p>Users may disable the function or set a valid value between 1 and 99.</p>
<b>Periodic Del of Blocklist Photo</b>	<p>When block listed photos reach its maximum storage capacity, the device automatically deletes a set of old block listed photos.</p> <p>Users may disable the function or set a valid value between 1 and 99.</p>
<b>Authentication Timeout(s)</b>	<p>The amount of time taken to display a successful verification message.</p> <p>Valid value: 1~9 seconds.</p>

## 9.3 Face Parameters

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



### Function Description

Function Name	Description
Recognition settings	<b>1: N Threshold:</b> The verification will be successful only if the similarity between the acquired facial image and all registered facial templates is greater than the set value in the 1: N verification mode.  The valid value ranges from 0 to 100. The higher the thresholds, the lower the misjudgement rate and higher is the rejection rate, and vice versa. It is recommended to set the default value of 88.
	<b>1:1 Threshold:</b> Under 1:1 verification mode, the verification will only be successful when the similarity between the acquired facial image and the user's facial templates enrolled in the device is greater than the set value.  The valid value ranges from 0 to 100. The higher the

	<p>thresholds, the lower the misjudgement rate and the higher is the rejection rate, and vice versa. It is recommended to set the default value of 88.</p>	
	<p><b>Minimum Face Size:</b> It sets the minimum face size required for facial registration and comparison.</p> <p>If the minimum size of the captured image is smaller than the set value, then it will be filtered off and not recognized as a face.</p> <p>This value can also be interpreted as the face comparison distance. The farther the individual is, the smaller the face, and the smaller number of pixels of the face obtained by the algorithm. Therefore, adjusting this parameter can adjust the farthest comparison of distance of faces. When the value is 0, the face comparison distance is not limited.</p>	
	<p><b>Identifying Mode</b></p>	<p><b>Tracking Identifying:</b> The same face can only be recognized once. To recognize it again, you must leave the face recognition area and re-enter it before it can be recognized again.</p>
	<p><b>Recognition Interval(s):</b> After the interval identifying is clicked (selected), for example, if the comparison interval is set to 5 seconds, then the face recognition will verify the face every 5 seconds. Valid value: 0 to 9 seconds. 0 means continuous identifying, 1 to 9 means identifying at intervals.</p>	
<b>Liveness</b>	<p><b>Single-lens Liveness:</b> It uses visible light images to detect spoofing attempts and assess whether the</p>	

<b>Settings</b>	<p>biometric source sample provided is of a real person (a live human being) or a false representation.</p> <p><b>Single-lens Liveness Threshold:</b> It facilitates judging whether the captured visible image is of a real person (a live human being). The larger the value, the better the anti-spoofing performance using visible light.</p> <p><b>Dual-lens Liveness:</b> It uses near-infrared spectra imaging to identify and prevent fake photos and video attacks.</p> <p><b>Dual-lens Liveness Threshold:</b> It is convenient to judge whether the near-infrared spectral imaging is a fake photo and video. The larger the value, the better the anti-spoofing performance of near-infrared spectral imaging.</p> <p><b>Note:</b> The user must enable both Single-lens Liveness and Dual-lens Liveness in the Liveness settings. When one of the switches is switched on, the other is turned on at the same time by default.</p> <p>When the option is turned on or off, the device reboots automatically to execute the function.</p>
<b>Image Exposure Settings</b>	<p><b>Face AE:</b> When the face is in front of the camera in Face AE mode, the brightness of the face area increases, while other areas become darker.</p> <p><b>WDR:</b> Wide Dynamic Range (WDR) balances light and extends image visibility for surveillance videos under high contrast lighting scenes and improves object identification under bright and dark environments.</p> <p><b>Anti-flicker Mode:</b> It is used when WDR is turned off. It</p>

	helps to reduce flicker when the device's screen flashes at the same frequency as the light.
--	--

**Note:**

- 1) Improper adjustment of the exposure and quality parameters may severely affect the performance of the device. Please adjust the exposure parameter only under the guidance of the after-sales service personnel of our company.
- 2) The Face comparison interval and Tracking identification are mutually exclusive options. If the Tracking identification switch is turned on, the Face comparison interval function in the Face Identifying Settings will be disabled, and vice versa.

**Process to modify the Facial Recognition Accuracy**

- ☞ On the **System** interface, tap on **Face > Liveness Settings** and then toggle to enable Single-lens Liveness and Dual-lens Liveness to set the liveness settings.
- ☞ Then, on the **Main Menu**, tap **Autotest > Test Face** and perform the face test.
- ☞ Tap three times for the scores on the right upper corner of the screen, and the red rectangular box appears to start adjusting the mode.
- ☞ Keep one arm distance between the device and the face. It is recommended not to move the face in a wide range.

## 9.4 Palm Parameters

Tap **Palm** on the **System** interface to go to the palm parameter settings.

**Function Description:**

Function Name	Description
<b>1:1 Threshold</b>	Only when the similarity between the verifying palm and the user's registered palm is greater than this value can the verification succeed.
<b>1:N Threshold</b>	Under 1:N Verification Method, only when the similarity between the verifying palm and all registered palm is greater than this value can the verification succeed.
<b>Image Quality</b>	Image quality for palm registration and comparison. The higher the value, the clearer the image requires.

<b>Minimum Palm Size</b>	<p>Required for palm registration and comparison.</p> <p>If the minimum size of the captured figure is smaller than this set value, then it will be filtered off and not recognized as a palm.</p> <p>This value can be understood as the palm comparison distance. The farther the person is, the smaller the palm is, and the smaller the palm pixel will be obtained by the algorithm. Therefore, adjusting this parameter can adjust the furthest comparison distance of palms. When the value is 0, the palm comparison distance is not limited.</p>
<b>Palm AE</b>	<p>When the palm is in front of the camera in Palm AE mode, the brightness of the palm area increases, while other areas become darker.</p>
<b>Live Detection</b>	<p>It detects the spoof attempt using visible light images to determine if the provided biometric source sample is of a real person (a live human being) or a false representation.</p>
<b>Recognition Interval(s)</b>	<p>After the interval identifying is clicked (selected), for example, if the comparison interval is set to 5 seconds, then the palm recognition will verify the palm every 5 seconds. Valid value: 0 to 9 seconds. 0 means continuous identifying, 1 to 9 means identifying at intervals.</p>

## 9.5 Health Protection

Tap **Health Protection** on the **System** interface to configure the **Health Protection** settings.



### Function Description:

Function Name	Description
<b>Enable Mask Detection</b>	<p>To enable or disable the mask detection function.</p> <p>When enabled, the device will identify whether the user is wearing a mask or not during verification.</p>



<b>Deny Access Without Mask</b>	<p>To enable or disable the access of a person without mask.</p> <p>When enabled, the device will deny access of a person, if not wearing a mask.</p>
<b>Allow Unregistered People to Access</b>	<p>To enable or disable the access of unregistered person.</p> <p>When enabled, the device allows the person to enter without registration, as long as the person who passes the detection.</p>
<b>Enable Capture of Unregistered Person</b>	<p>To enable or disable capturing the unregistered person.</p> <p>When enabled, the device will automatically capture the photo of the unregistered person, enabling this feature requires to enable Allow Unregistered People to Access.</p>
<b>Trigger External Alarm</b>	<p>When enabled, if the user is not wearing a mask, the system will trigger an alarm.</p>
<b>Clear External Alarm</b>	<p>It clears the triggered alarm records of the device.</p>
<b>External Alarm Delay(s)</b>	<p>It is the delay(s) time for triggering an external alarm. It can be set in seconds.</p> <p>Users may disable the function or set a value between 1 to 255.</p>

## 9.6 Device Type Setting

Tap **Device Type Setting** on the **System** interface to configure the Device Type Setting settings.



**Function Description:**

Function Name	Description
T & A PUSH	Set the device as a time attendance terminal.
A & C PUSH	Set the device as an access control terminal.

## 9.7 Factory Reset

The Factory Reset function restores the device settings such as communication settings and system settings, to the default factory settings (this function does not clear registered user data).

Tap **Reset** on the **System** interface and then tap **OK** to restore the default factory settings.



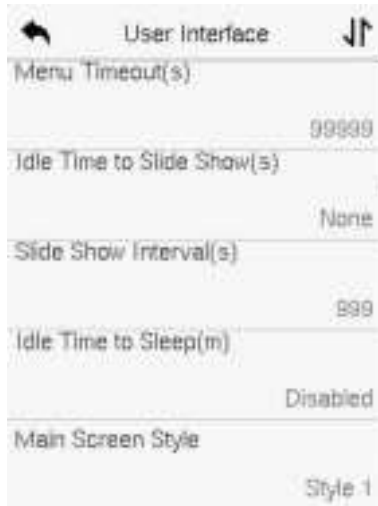
## 10 Personalize Settings

Tap **Personalize** the **Main Menu** interface to customize interface settings, voice, bell, punch state options, and shortcut key mappings.



### 10.1 Interface Settings

Tap **User Interface** on the **Personalize** interface to customize the display style of the main interface.



### **Function Description**

Function Name	Description
<b>Wallpaper</b>	It helps to select the main screen wallpaper according to the user preference.
<b>Language</b>	It helps to select the language of the device.
<b>Menu Timeout (s)</b>	<p>When there is no operation, and the time exceeds the set value, the device automatically goes back to the initial interface.</p> <p>The function can either be disabled or set the required value between 60 and 99999 seconds.</p>
<b>Idle Time to Slide Show (s)</b>	<p>When there is no operation, and the time exceeds the set value, a slide show is displayed. The function can be disabled, or you may set the value between 3 and 999</p>

	seconds.
<b>Slide Show Interval (s)</b>	It is the time interval in switching between different slide show pictures. The function can be disabled, or you may set the interval between 3 and 999 seconds.
<b>Idle Time to Sleep (m)</b>	<p>If the sleep mode is activated, and when there is no operation in the device, then the device will enter standby mode.</p> <p>This function can be disabled or set a value within 1-999 minutes.</p>
<b>Main Screen Style</b>	The style of the main screen can be selected according to the user preference.

## 10.2 Voice Settings

Tap **Voice** on the **Personalize** interface to configure the voice settings.

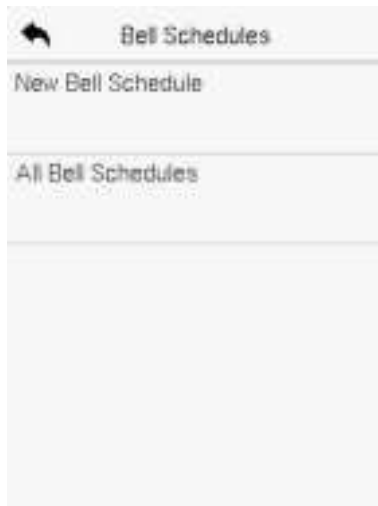


### Function Description

Function Name	Description
<b>Voice Prompt</b>	Toggle to enable or disable the voice prompts during function operations.
<b>Touch Prompts</b>	Toggle to enable or disable the keypad sounds.
<b>Volume</b>	Adjust the volume of the device which can be set between 0-100.

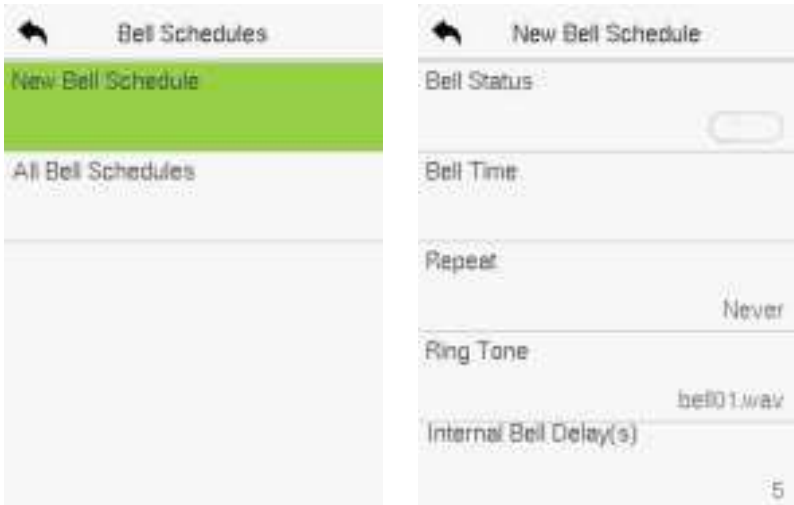
## 10.3 Bell Schedules

Tap **Bell Schedules** on the **Personalize** interface to configure the Bell settings.



### ➤ New Bell Schedule

Tap **New Bell Schedule** on the **Bell Schedule** interface to add a new bell schedule.



### Function Description

Function Name	Description
<b>Bell Status</b>	Toggle to enable or disable the bell status.
<b>Bell Time</b>	Once the required time is set, the device automatically triggers to ring the bell during that time.
<b>Repeat</b>	Set the required number of counts to repeat the scheduled bell.
<b>Ring Tone</b>	Select a ringtone.
<b>Internal Bell Delay(s)</b>	Set the replay time of the internal bell. Valid



	values range from 1 to 999 seconds.
--	-------------------------------------

➤ **All Bell Schedules**

Once the bell is scheduled, on the **Bell Schedules** interface, tap **All Bell Schedules** to view the newly scheduled bell.

➤ **Edit the Scheduled Bell**

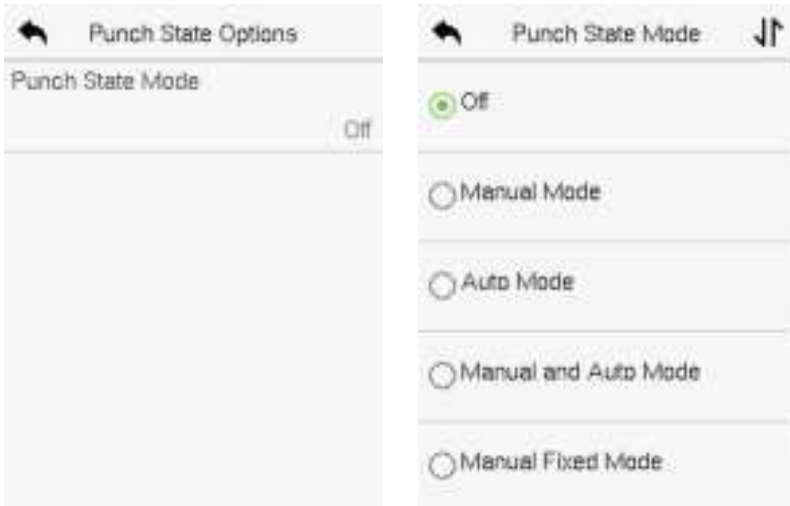
On the **All Bell Schedules** interface, tap on the required bell schedule, and tap **Edit** to edit the selected bell schedule. The editing method is the same as the operations of adding a new bell schedule.

➤ **Delete a Bell**

On the **All Bell Schedules** interface, tap the required bell schedule, tap **Delete**, and then tap **Yes** to delete the selected bell.

## 10.4 Punch States Options

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



### Function Description

Function Name	Description
<b>Punch State Mode</b>	<p><b>Off:</b> Disable the punch state function. Therefore, the punch state key set under Shortcut Key Mappings menu will become invalid.</p> <p><b>Manual Mode:</b> Switch the punch state key manually, and the punch state key will disappear after Punch State Timeout.</p> <p><b>Auto Mode:</b> The punch state key will automatically switch to a specific punch status according to the predefined time schedule which can be set in the Shortcut Key Mappings.</p> <p><b>Manual and Auto Mode:</b> The main interface</p>

will display the auto-switch punch state key. However, the users will still be able to select alternative that is the manual attendance status. After timeout, the manual switching punch state key will become auto-switch punch state key.

**Manual Fixed Mode:** After the punch state key is set manually to a particular punch status, the function will remain unchanged until it is being manually switched again.

**Fixed Mode:** Only the manually fixed punch state key will be shown. Users cannot change the status by tapping any other keys.

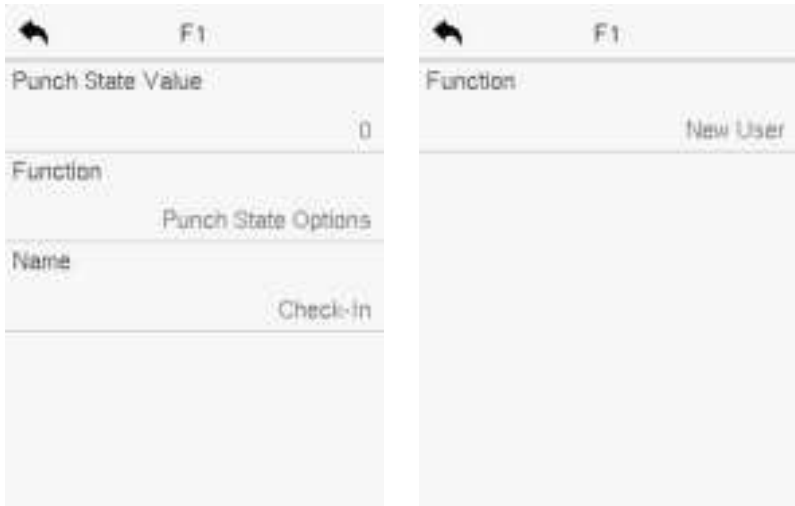
## 10.5 Shortcut Key Mappings

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

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



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



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

#### ➤ Set the Switch Time

- ⌘ The switch time is set in accordance with the punch state options.
- ⌘ When the **Punch State Mode** is set to **Auto Mode**, the switch time should be set.
- ⌘ On the **Shortcut Key** interface, tap **Set Switch Time** to set the switch time.
- ⌘ On the **Switch Cycle** interface, select the switch cycle (Monday, Tuesday, etc.) as shown in the image below.

The left screenshot shows the 'F1' screen with the following fields:

- Punch State Value: 0
- Function
- Punch State Options
- Name
- Check-in
- Set Switch Time

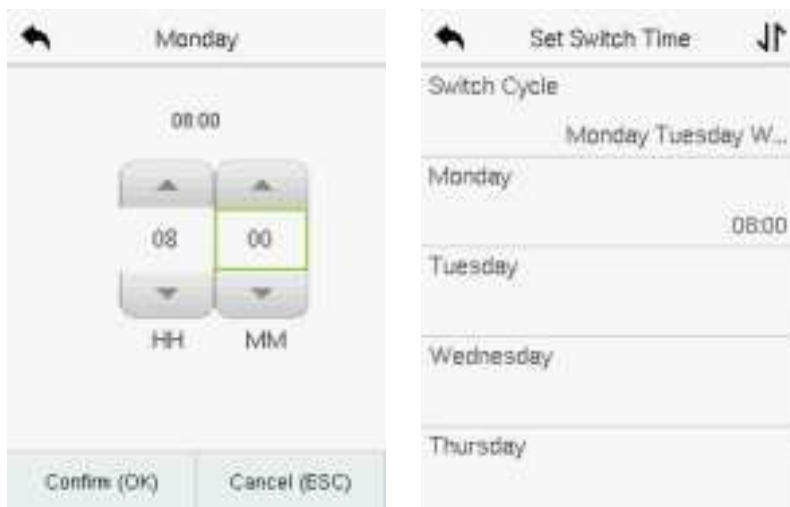
The right screenshot shows the 'Switch Cycle' screen with a list of days and checkboxes:

- ☒ Monday
- ☒ Tuesday
- ☒ Wednesday
- ☒ Thursday
- ☒ Friday

The 'Set Switch Time' screen shows a list of days and their corresponding switch times:

- Switch Cycle: Monday Tuesday W...
- Monday
- Tuesday
- Wednesday
- Thursday

- Once the Switch cycle is selected, set the switch time for each day, and tap **OK** to confirm, as shown in the image below.



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

## 11 Data Management

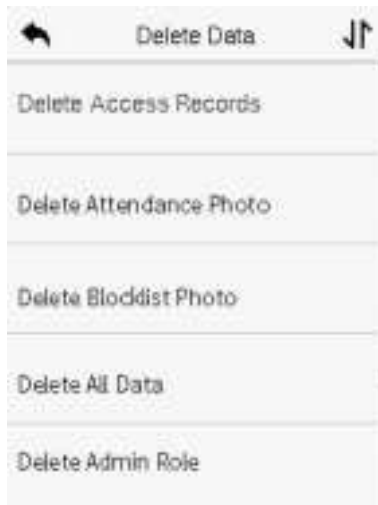
On the **Main Menu**, tap **Data Mgt.** to delete the relevant data in the device.



### 11.1 Delete Data

Tap **Delete Data** on the **Data Mgt.** interface to delete the required data.

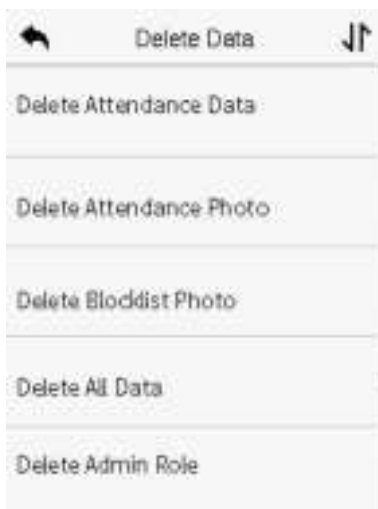
**Access Control Terminal:**





**Function Description**

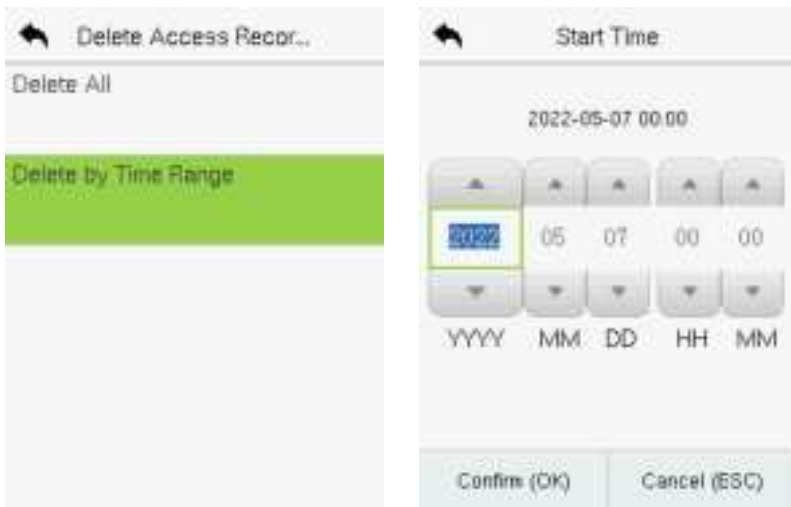
Function Name	Description
<b>Delete Access Records</b>	To delete the access records conditionally.
<b>Delete Attendance Photo</b>	To delete the attendance photos of designated personnel.
<b>Delete Blocklist Photo</b>	To delete the photos taken during failed verifications.
<b>Delete All Data</b>	To delete the information and access records of all registered users.
<b>Delete Admin Role</b>	To remove all the administrator privileges.
<b>Delete Access Control</b>	To delete all the access data.
<b>Delete User Photo Templates</b>	To delete all the user photo templates on the device.
<b>Delete Profile Photo</b>	To delete all the profile photos on the device.
<b>Delete Wallpaper</b>	To delete all the wallpapers in the device.
<b>Delete Screen Savers</b>	To delete all the screen savers in the device.

**Time Attendance Terminal:****Function Description**

Function Name	Description
<b>Delete Attendance Data</b>	To delete the attendance data conditionally.
<b>Delete Attendance Photo</b>	To delete the attendance photos of designated personnel.
<b>Delete Blocklist Photo</b>	To delete the photos taken during failed verifications.
<b>Delete All Data</b>	To delete the information and attendance data of all registered users.
<b>Delete Admin Role</b>	To remove all the administrator privileges.

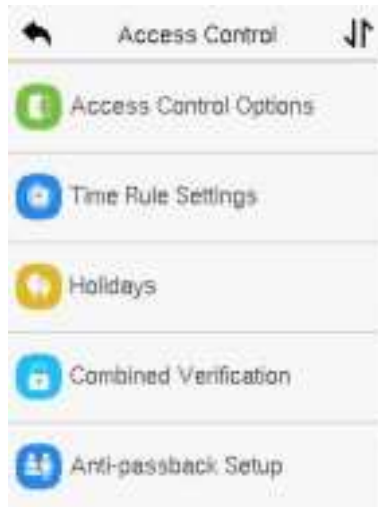
<b>Delete Access Control</b>	To delete all the access data.
<b>Delete User Photo Templates</b>	To delete all the user photo templates on the device.
<b>Delete Profile Photo</b>	To delete all the profile photo on the device.
<b>Delete Wallpaper</b>	To delete all the wallpapers in the device.
<b>Delete Screen Savers</b>	To delete all the screen savers in the device.

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



## 12 Access Control

On the **Main Menu**, tap **Access Control** to set the schedule of the door opening, locks control and to configure other parameters settings related to access control.

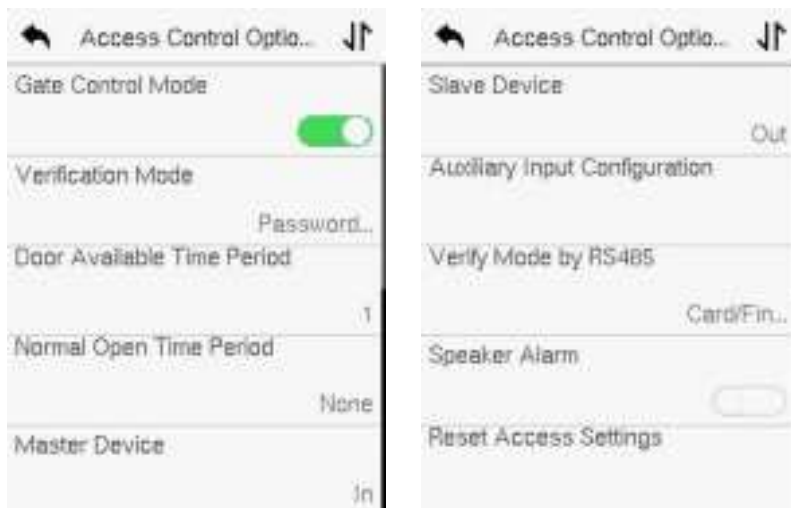


**To gain access, the registered user must meet the following conditions:**

- ⌘ The relevant door's current unlock time should be within any valid time zone of the user's time period.
- ⌘ The corresponding user's group must be already set in the door unlock combination (and if there are other groups, being set in the same access combo, then the verification of those group's members is also required to unlock the door).
- ⌘ In default settings, new users are allocated into the first group with the default group time zone, where the access combo is "1" and is set in unlock state by default.

## 12.1 Access Control Options

Tap **Access Control Options** on the **Access Control** interface to set the parameters of the control lock of the terminal and related equipment.



### Function Description

Function Name	Description
<b>Gate Control Mode</b>	<p>It toggles between <b>ON</b> or <b>OFF</b> switch to get into gate control mode or not.</p> <p>When set to <b>ON</b>, the interface removes the Door Lock Delay, Door Sensor Delay, and Door Sensor Type options.</p>
<b>Door Lock Delay (s)</b>	<p>The length of time that the device controls the electric lock to be in unlock state.</p> <p>Valid value: 1~99 seconds.</p>

<b>Door Sensor Delay (s)</b>	<p>If the door is not locked and is left open for a certain duration (Door Sensor Delay), an alarm will be triggered.</p> <p>The valid value of Door Sensor Delay ranges from 1 to 255 seconds.</p>
<b>Door Sensor Type</b>	<p>There are three Sensor types: <b>None</b>, <b>Normal Open</b>, and <b>Normal Closed</b>.</p> <p><b>None:</b> It means the door sensor is not in use.</p> <p><b>Normally Open(NO):</b> It means the door is always left open when electric power is on.</p> <p><b>Normally Closed(NC):</b> It means the door is always left closed when electric power is on.</p>
<b>Verification Mode</b>	<p>The supported verification mode includes Password/Card/Face/Palm, User ID Only, Password, Card only, Password + Card, Password/Card, Face Only, Face + Password, Face + Card, Palm, Palm + Card, Palm +Face</p>
<b>Door Available Time Period</b>	<p>It sets the timing for the door so that the door is accessible only during that period.</p>
<b>Normal Open Time Period</b>	<p>It is the scheduled time-period for "Normal Open" mode so that the door is always open during this period.</p>

<b>Master Device</b>	<p>While configuring the master and slave devices, you may set the state of the master as <b>Out</b> or <b>In</b>.</p> <p><b>Out:</b> A record of verification on the master device is a check-out record.</p> <p><b>In:</b> A record of verification on the master device is a check-in record.</p>
<b>Slave Device</b>	<p>While configuring the master and slave devices, you may set the state of the slave as <b>Out</b> or <b>In</b>.</p> <p><b>Out:</b> A record of verification on the slave device is a check-out record.</p> <p><b>In:</b> A record of verification on the slave device is a check-in record.</p>
<b>Auxiliary Input Configuration</b>	<p>Sets the door unlock time period and auxiliary output type of the auxiliary terminal device. Auxiliary output types include None, Trigger door open, Trigger Alarm, Trigger door open and Alarm.</p>
<b>Speaker Alarm</b>	<p>It transmits a sound alarm or disassembly alarm from the local. When the door is closed or the verification is successful, the system cancels the alarm from the local.</p>

**Reset Access Setting**

The access control reset parameters include door lock delay, door sensor delay, door sensor type, verification mode, door available time period, normal open time period, master device, and alarm. However, erased access control data in Data Mgt. is excluded.

## 12.2 Time Schedule

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

- ⌘ The entire system can define up to 50 Time Periods.
- ⌘ Each time-period represents **10** Time Zones, i.e., **1** week and **3** holidays, and each time zone is a standard 24 hour period per day and the user can only verify within the valid time-period.
- ⌘ One can set a maximum of 3 time periods for every time zone. The relationship among these time-periods is "**OR**". Thus, when the verification time falls in any one of these time-periods, the verification is valid.
- ⌘ The Time Zone format of each time-period is **HH MM-HH MM**, which is accurate to minutes according to the 24-hour clock.

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





On the selected Time Zone number interface, tap on the required day (that is Monday, Tuesday, etc.) to set the time.



Specify the start and the end time, and then tap **OK**.

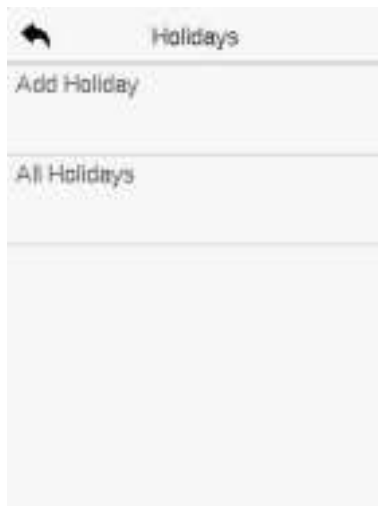
**Note:**

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

## 12.3 Holidays

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

Tap **Holidays** on the **Access Control** interface to set the holiday access.



### ➤ Add a New Holiday

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



The screenshot shows a mobile application interface titled "Holidays". It features a list of holiday entries. The first entry is visible with the following details:

- No.:** 1
- Date:** Undefined
- Holiday Type:** Holiday Type 1
- Repeats Every Year:** A green toggle switch is turned on.

### ➤ Edit a Holiday

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

### ➤ Delete a Holiday

On the **Holidays** interface, select a holiday item to be deleted and tap **Delete**. Tap **OK** to confirm the deletion. After deletion, this holiday does not display on the **All Holidays** interface.

## 12.4 Combined Verification

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

In a door-unlocking combination, the range of the combined number N is 0

$\leq N \leq 5$  and the number of members  $N$  may all belong to one access group or may belong to five different access groups.

Tap **Combined Verification** on the **Access Control** interface to configure the combined verification setting.



On the combined verification interface, tap the Door-unlock combination to be set, and tap the **up** and **down** arrows to input the combination number, and then tap **OK**.

**For Example:**

- ✎ If the **Door-unlock combination 1** is set as **(01 03 05 06 08)**. It indicates that the unlock combination 1 consists of 5 people and all the 5 individuals are from 5 groups, namely, AC Group 1, AC Group 3, AC Group 5, AC Group 6, and AC Group 8, respectively.
- ✎ If the **Door-unlock combination 2** is set as **(02 02 04 04 07)**. It indicates that the unlock combination 2 consists of 5 people; the first two are from AC Group 2, the next two are from AC Group 4, and the last person is from AC Group 7.

- ✎ If the **Door-unlock combination 3** is set as **(09 09 09 09 09)**. It indicates that there are 5 people in this combination; all of which are from AC Group 9.
- ✎ If the **Door-unlock combination 4** is set as **(03 05 08 00 00)**. It indicates that the unlock combination 4 consists of only three people. The first person is from AC Group 3, the second person is from AC Group 5, and the third person is from AC Group 8.

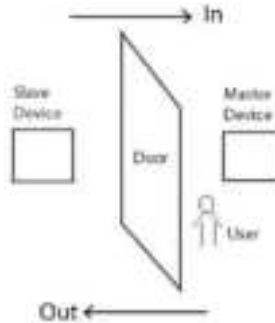
**Note:** To delete the door-unlock combination, set all Door-unlock combinations to 0.

## 12.5 Anti-passback Setup

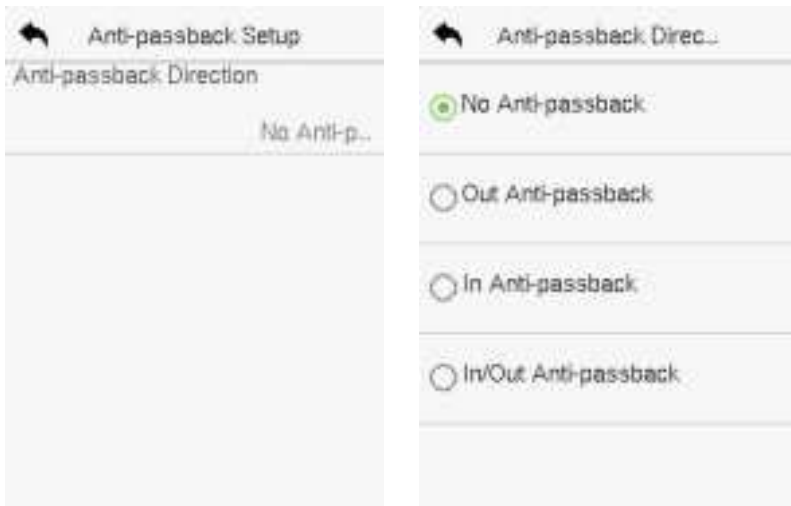
A user may be followed by some person(s) to enter the door without verification, resulting in a security breach. So, to avoid such situations, the Anti-Passback option was developed. Once it is enabled, the check-in and check-out record must occur alternatively to open the door to represent a consistent pattern.

This function requires two devices to work together:

One device is installed on the indoor side of the door (master device), and the other one is installed on the outdoor side of the door (the slave device). The two devices communicate via the Wiegand signal. The Wiegand format and Output type (User ID/Card Number) adopted by the master device and slave device must be consistent.



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



### Function Description

Function Name	Description
<b>Anti-passback Direction</b>	<b>No Anti-passback:</b> The Anti-Passback function is disabled, which means successful verification through either the master device or slave device can unlock the door. The attendance state is not saved in this option.

**Out Anti-passback:** The user can check-out only if the last record is a check-in record otherwise an alarm is raised. However, the user can check-in freely.

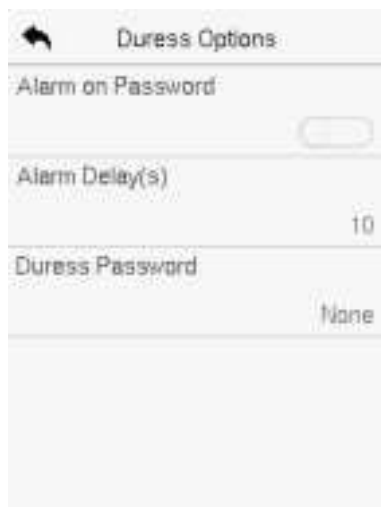
**In Anti-Passback:** The user can check-in again only if the last record is a check-out record otherwise an alarm is raised. However, the user can check-out freely.

**In/Out Anti-passback:** In this case, a user can check-in only if the last record is a check-out or the user can check-out only if the last record is a check-in otherwise the alarm is triggered.

## 12.6 Duress Options Settings

Once a user activates the duress verification function with a specific authentication method(s), and when he/she is under coercion and authenticates using duress verification, the device unlocks the door as usual. At the same time, a signal is sent to trigger the alarm as well.

On the **Access Control** interface, tap **Duress Options** to configure the duress settings.



The screenshot shows a mobile application interface for 'Duress Options'. It features a back arrow icon in the top left corner. The settings are as follows:

- Alarm on Password:** A toggle switch that is currently turned on.
- Alarm Delay(s):** A numeric input field showing the value '10'.
- Duress Password:** A text input field showing the value 'None'.

### **Function Description**

Function Name	Description
<b>Alarm on Password</b>	When a user uses the password verification method, an alarm signal will be generated, otherwise there will be no alarm signal.
<b>Alarm Delay (s)</b>	Alarm signal will not be transmitted until the alarm delay time is elapsed. The value ranges from 1 to 999 seconds.
<b>Duress Password</b>	Set the 6-digit duress password. When the user enters this duress password for verification, an alarm signal will be generated.



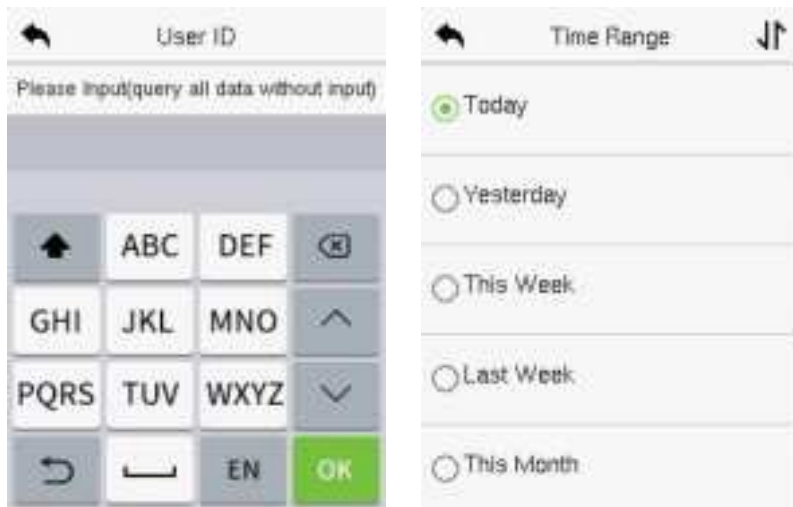
## 13 Attendance Search

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

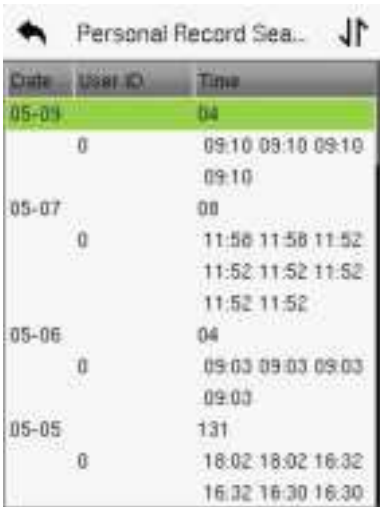
Select **Attendance Search** on the **Main Menu** interface to search for the required event Logs.

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

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



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



Date	User ID	Time
05-09	04	
	0	09:10 09:10 09:10
		09:10
05-07	00	
	0	11:56 11:56 11:52
		11:52 11:52 11:52
		11:52 11:52
05-06	04	
	0	09:03 09:03 09:03
		09:03
05-05	131	
	0	18:02 18:02 16:32
		16:32 16:30 16:30



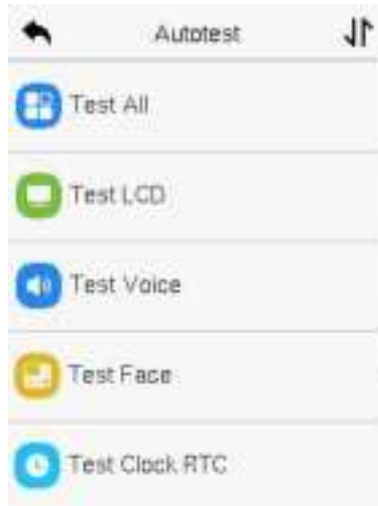
User ID	Name	Time
0		05-09 09:10
0		05-09 09:10
0		05-09 09:10
0		05-09 09:10

Verification Mode : Other  
Status : 2

3. Once the record search completes. Tap the record highlighted in green to view its details.
4. The figure shows the details of the selected record.

## 14 Autotest

Select **Main Menu**, tap **Autotest**. It enables the system to automatically test whether the functions of various modules are working normally, including the LCD, Voice, Camera and Real-Time Clock (RTC).



### Function Description

Function Name	Description
<b>Test All</b>	To automatically test whether the LCD, Voice, Camera and Real-Time Clock (RTC) are normal.
<b>Test LCD</b>	To automatically test the display effect of LCD screen by displaying full-color, pure white, and pure black to check whether the screen displays colors normally.

<b>Test Voice</b>	To automatically test whether the audio files stored in the device are complete and the voice quality is good.
<b>Test Face</b>	To test if the camera functions properly by checking the pictures taken to see if they are clear enough.
<b>Test Clock RTC</b>	To test the RTC. The device tests whether the clock works normally and accurately with a stopwatch. Touch the screen to start counting and tap it again to stop counting.

## 15 System Information

On the **Main Menu**, tap **System Info** to view the storage status, the version information of the device, firmware information and the privacy policy.



### Function Description

Function Name	Description
<b>Device Capacity</b>	Displays the current device's user storage, password, palm, face and card storage, administrators, attendance records, attendance and blocklist photos, and Profile photos.
<b>Device Info</b>	Displays the device's name, serial number, MAC address, face and palm algorithm, platform information, MCU Version, Manufacturer, and manufacture date.
<b>Firmware Info</b>	Displays the firmware version and other version information of the device.
<b>Privacy</b>	The privacy policy control will appear when the gadget

<b>Policy</b>	<p>turns on for the first time. After tapping "<b>I have read it</b>," the customer can use the product regularly. Tap <b>System Info -&gt; Privacy Policy</b> to view the content of the privacy policy. The privacy policy's content does not allow for U disc export.</p> <p><b>Note:</b> The current privacy policy's text is only available in Simplified Chinese/English. However, translation of other multi-language content is underway, with more iterations.</p>
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## Appendix 1

### Requirements of Live Collection and Registration of Visible Light Face Images

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



## Requirements for Visible Light Digital Face Image Data

The digital photo should be straight-edged, coloured, half-portrayed with only one person, and the person should be uncharted and in casuals. Persons who wear eyeglasses should remain to put on eyeglasses for getting photos captured.

- **Eye Distance**

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

- **Facial Expression**

A neutral face or smile with eyes naturally open are recommended.

- **Gesture and Angel**

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

- **Accessories**



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

- **Face**

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

- **Image Format**

Should be in BMP, JPG or JPEG.

- **Data Requirement**

Should comply with the following requirements:

- 1) White background with dark-coloured apparel.
- 2) 24bit true color mode.
- 3) JPG format compressed image with not more than 20kb size.
- 4) Resolution should be between 358 x 441 to 1080 x 1920.
- 5) The vertical scale of head and body should be in a ratio of 2:1.
- 6) The photo should include the captured person's shoulders at the same horizontal level.
- 7) The captured person's eyes should be open and with clearly seen iris.
- 8) A neutral face or smile is preferred, showing teeth is not preferred.
- 9) The captured person should be easily visible, natural in color, no harsh shadow or light spot or reflection in the face or background. The contrast and lightness level should be appropriate.

## Appendix 2

### Privacy Policy

#### Notice:

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

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

#### I. Collected Information

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

- 1. User Registration Information: At your first registration, the feature template (Fingerprint template/Face template/Palm template) will be saved on the device according to the device type you have selected to verify the unique similarity between you and the User ID you have registered. You can optionally enter your Name and Code. The above information is necessary for you to use**

our products. If you do not provide such information, you cannot use some features of the product regularly.

2. **Product information:** According to the product model and your granted permission when you install and use our services, the related information of the product on which our services are used will be collected when the product is connected to the software, including the Product Model, Firmware Version Number, Product Serial Number, and Product Capacity Information. **When you connect your product to the software, please carefully read the privacy policy for the specific software.**

## II. Product Security and Management

1. When you use our products for the first time, you shall set the Administrator privilege before performing specific operations. Otherwise, you will be frequently reminded to set the Administrator privilege when you enter the main menu interface. **If you still do not set the Administrator privilege after receiving the system prompt, you should be aware of the possible security risk (for example, the data may be manually modified).**
2. All the functions of displaying the biometric information are disabled in our products by default. You can choose Menu > System Settings to set whether to display the biometric information. If you enable these functions, we assume that you are aware of the personal privacy security risks specified in the privacy policy.
3. Only your user ID is displayed by default. You can set whether to display other user verification information (such as Name, Department, Photo, etc.) under the Administrator privilege. **If you choose to display such information, we assume that you are aware of the potential security risks (for example, your photo**

**will be displayed on the device interface).**

4. The camera function is disabled in our products by default. If you want to enable this function to take pictures of yourself for attendance recording or take pictures of strangers for access control, the product will enable the prompt tone of the camera. **Once you enable this function, we assume that you are aware of the potential security risks.**
5. All the data collected by our products is encrypted using the AES 256 algorithm. All the data uploaded by the Administrator to our products are automatically encrypted using the AES 256 algorithm and stored securely. If the Administrator downloads data from our products, we assume that you need to process the data and you have known the potential security risk. In such a case, you shall take the responsibility for storing the data. You shall know that some data cannot be downloaded for sake of data security.
6. All the personal information in our products can be queried, modified, or deleted. If you no longer use our products, please clear your personal data.

### III. How we handle personal information of minors

Our products, website and services are mainly designed for adults. Without consent of parents or guardians, minors shall not create their own account. If you are a minor, it is recommended that you ask your parents or guardian to read this Policy carefully, and only use our services or information provided by us with consent of your parents or guardian.

We will only use or disclose personal information of minors collected with

their parents' or guardians' consent if and to the extent that such use or disclosure is permitted by law or we have obtained their parents' or guardians' explicit consent, and such use or disclosure is for the purpose of protecting minors.

Upon noticing that we have collected personal information of minors without the prior consent from verifiable parents, we will delete such information as soon as possible.

#### **IV. Others**

You can visit [www.armatura.us](http://www.armatura.us) to learn more about how we collect, use, and securely store your personal information. To keep pace with the rapid development of technology, adjustment of business operations, and to cope with customer needs, we will constantly deliberate and optimize our privacy protection measures and policies. Welcome to visit our official website at any time to learn our latest privacy policy.

## Eco-friendly Operation



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

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

### Hazardous or Toxic substances and their quantities

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

Adapter	×	○	○	○	○	○
Screws	○	○	○	×	○	○

○ indicates that the total amount of toxic content in all the homogeneous materials is below the limit as specified in SJ/T 11363—2006.

× indicates that the total amount of toxic content in all the homogeneous materials exceeds the limit as specified in SJ/T 11363—2006.

**Note:** 80% of this product's components are manufactured using non-toxic and eco-friendly materials. The components which contain toxins or harmful elements are included due to the current economic or technical limitations which prevent their replacement with non-toxic materials or elements.

Frequency bands	Maximum output power
125KHz	-14.63dBuA
13.56MHz	-22.51dBuA

## FCC Compliance Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

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

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

## Supplier's Declaration of Conformity

Unique Identifier

Trade Name: Smart Access Control Terminal

Model No.: OmniAC20

Responsible Party – U.S. Contact Information

US Company Name: Armatura LLC

Address: 190 Bluegrass Valley Parkway Alpharetta, GA 3005, USA

Internet contact information: [www.armatura.us](http://www.armatura.us)

# ARMATURA

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ARMATURA LLC    [www.armatura.us](http://www.armatura.us)    E-mail: [sales@armatura.us](mailto:sales@armatura.us)

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