

User Manual

SpeedPalm-V5L

Date: July 2024 Doc Version: 1.0 English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



For further details, please visit our Company's website <u>www.zkteco.com</u>.

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If there is any issue related to the product, please contact us.

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To know more about our global branches, visit <u>www.zkteco.com</u>.

About the Company

ZKTeco is one of the world's largest manufacturer of RFID and Biometric (Fingerprint, Facial, Finger-vein) readers. Product offerings include Access Control readers and panels, Near & Far-range Facial Recognition Cameras, Elevator/floor access controllers, Turnstiles, License Plate Recognition (LPR) gate controllers and Consumer products including battery-operated fingerprint and face-reader Door Locks. Our security solutions are multi-lingual and localized in over 18 different languages. At the ZKTeco state-of-the-art 700,000 square foot ISO9001-certified manufacturing facility, we control manufacturing, product design, component assembly, and logistics/shipping, all under one roof.

The founders of ZKTeco have been determined for independent research and development of biometric verification procedures and the productization of biometric verification SDK, which was initially widely applied in PC security and identity authentication fields. With the continuous enhancement of the development and plenty of market applications, the team has gradually constructed an identity authentication ecosystem and smart security ecosystem, which are based on biometric verification techniques. With years of experience in the industrialization of biometric verifications, ZKTeco was officially established in 2007 and now has been one of the globally leading enterprises in the biometric verification industry owning various patents and being selected as the National High-tech Enterprise for 6 consecutive years. Its products are protected by intellectual property rights.

About the Manual

This manual introduces the operations of SpeedPalm-V5L.

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 \star are not available in all devices.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

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

Symbols

Convention	Description
	This represents a note that needs to pay more attention to.
?	The general information which helps in performing the operations faster.
*	The information which is significant.
۷	Care taken to avoid danger or mistakes.
	The statement or event that warns of something or that serves as a cautionary example.

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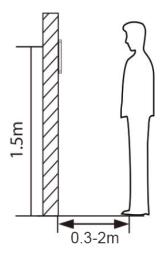
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1 Instruction for Use

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

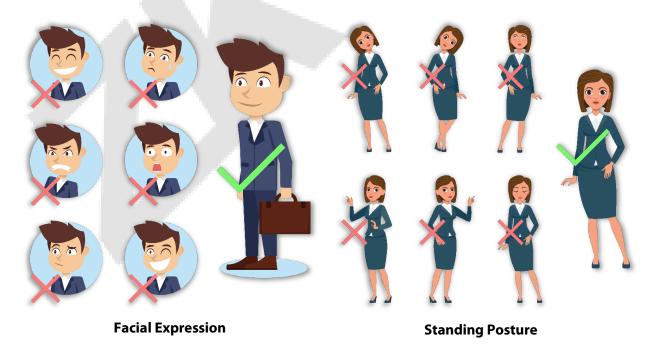
1.1 Standing Position, Facial Expression and Standing Posture

The Recommended Distance



The distance between the device and a user whose height is in a range of 1.55m 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



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

1.2 Face Template Registration

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



Correct Face Registration and Authentication Method

Recommendation for Registering a Face Template

- When registering a face template, maintain a distance of 40cm to 80cm between the device and the face.
- Be careful not to change your facial expression. (Smiling face, drawn face, wink, etc.)
- If you do not follow the instructions on the screen, the face template registration may take longer or may fail.
- Be careful not to cover the eyes or eyebrows.
- Do not wear hats, masks, sunglasses, or eyeglasses.
- Be careful not to display two faces on the screen. Register one person at a time.
- It is recommended for a user wearing glasses to register both faces with and without glasses.
- Recommendation for Authenticating a Face Template
 - Ensure that the face appears inside the guideline displayed on the screen of the device.
 - If the glasses have been changed, authentication may fail. If the face without glasses has been registered, authenticate the face template without glasses further. If the face with glasses has been registered, authenticate the face with the previously worn glasses.

• If a part of the face is covered with a hat, a mask, an eye patch, or sunglasses, authentication may fail. Do not cover the face, allow the device to recognize both the eyebrows and the face.

1.3 Palm Registration

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

Make sure to keep space between your fingers.





- 1. Place your palm within 5 to 15 cm of the device.
- 2. Place your palm in front of the biometric module, such that the palm is placed parallel to the device.
- 3. Make sure to keep space between your fingers.

1.4 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 \equiv 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.

- Visitors tap 🥮 to <u>make a call</u> and the phone will ring.
- 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:

24-(05-31 09:35	
	-	
	Check-In	Check-Out
	Break-Out	Break-In
	Overtime-In	Overtime-Out
		12

Press the corresponding punch state key to select your current punch state, which is displayed in green.
 Please refer to "<u>Shortcut Key Mappings</u>" for the specific operation method.

Note: The punch state options are off by default and need to select other mode options in the "<u>Punch</u> <u>States Options</u>" to get the punch state options on the standby screen.

1.5 Virtual Keyboard

S First Name	
Μ	
ice iceberg	ESC
i qwertyui	ор
asdfghj	<u>k</u> l
☆ z x c v b n	m 🗵
123 EN/中	ОК

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

- Tap [123] to switch to the numeric and symbolic keyboard.
- Tap [**ABC**] to return to the alphabetic keyboard.
- Tap the input box, a virtual keyboard appears.
- Tap [**ESC**] to exit the virtual keyboard.

1.6 Verification Mode

1.6.1 Palm Verification

• 1: N Palm Verification Mode

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



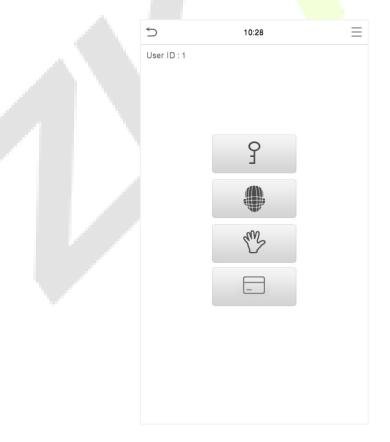
• 1: 1 Palm Verification Mode

Tap the 💼 button on the main screen to enter 1:1 palm verification mode.

Input the user ID and tap [OK].



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

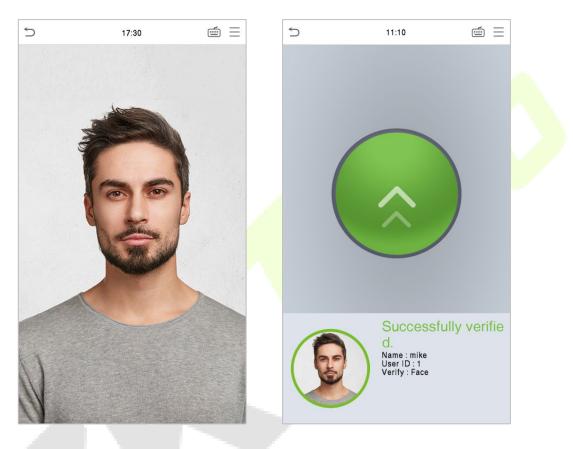


1.6.2 Facial Verification

1:N Facial Verification

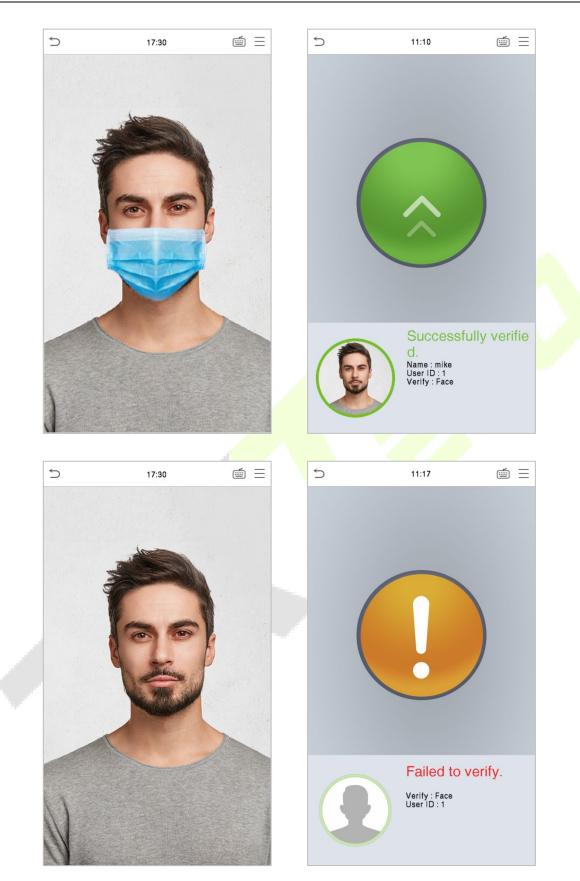
Conventional Verification

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



Enable Mask Detection

When the user enables the **Enable mask detection** function, the device will identify whether the user is wearing a mask or not while verification. The following are the popups of the comparison result prompt interface.



1:1 Facial Verification

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].

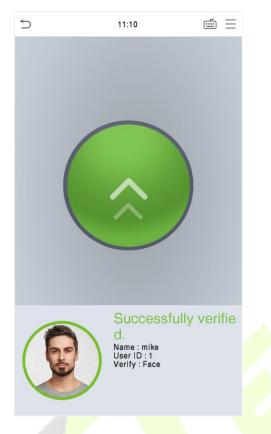


If the user has registered password, palm and card in addition to his/her face template and the verification method is set to Password/Face/Palm/Card verification, the following screen will appear. Select the face

icon to enter face verification mode.



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

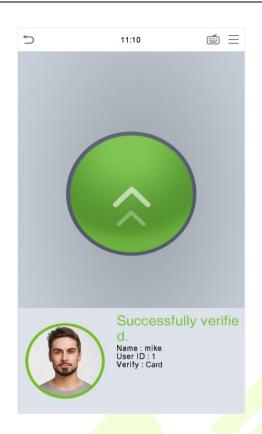


If the verification is failed, it prompts "Please adjust your position!".

1.6.3 Card Verification

1:N Card Verification

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

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.

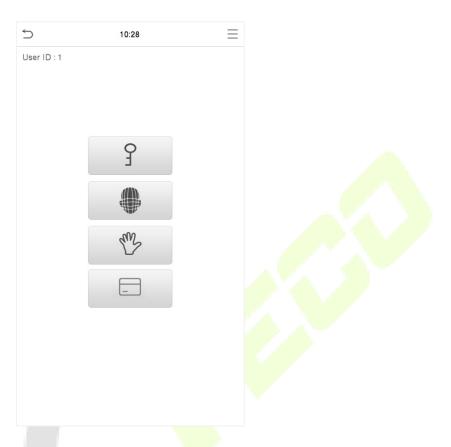
Enter the user ID and tap [OK].

	5	12	:28	
	1			
4				
T				
	1	2	3	\bigotimes
	4	5	6	~
	7	8	9	\sim
	ESC	0	123	ОК

-

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

icon to enter card verification mode.



1.6.4 Password Verification

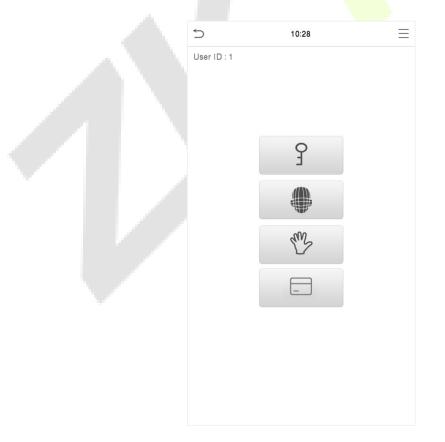
The device compares the entered password with the registered password of the given User ID.

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

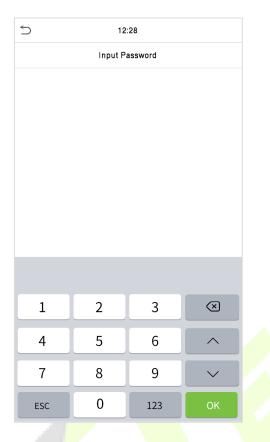


If the user has registered face template, palm and card in addition to his/her password and the verification method is set to Password/Face/Palm/Card verification, the following screen will appear. Select the

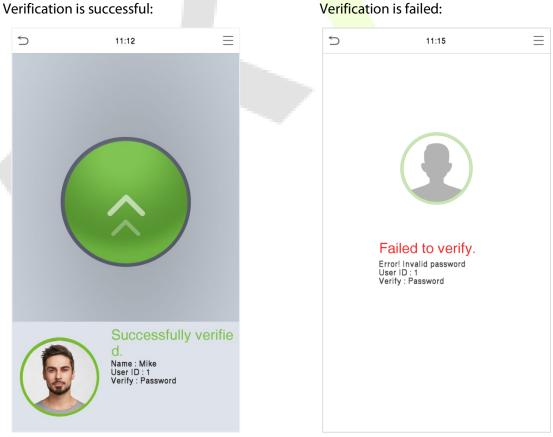
password \mathcal{P} icon to enter password verification mode.



Input the password and tap [OK].



Following are the display screen after entering a correct password and a wrong password respectively.



Verification is failed:

1.6.5 Combined Verification

This device allows you to use a variety of verification methods to increase security. There are a total of 13 distinct verification combinations that can be implemented, as listed below:

Combined Verification Symbol Definition

Symbol	Definition	Explanation
1	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.

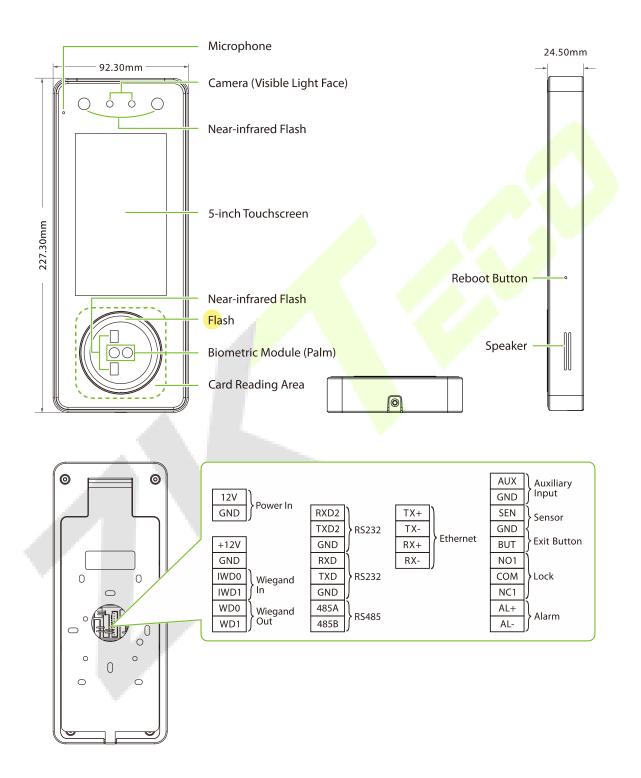
5	Verification Mode	11	5	Verification Mode	11
	Apply Group Mode		0	Password/Card/Face/Palm	
0	Password/Card/Face/Palm		0	User ID Only	
0	User ID Only		0	Password	
0	Password		0	Card Only	
0	Card Only		0	Password+Card	
0	Password+Card		0	Password/Card	
0	Password/Card		0	Face Only	
0	Face Only		0	Face+Password	
0	Face+Password		0	Face+Card	
0	Face+Card		0	Palm	
0	Palm		0	Palm+Card	
0	Palm+Card		\bigcirc	Palm+Face	

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 template 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 template but not the Password, the verification will
 not get completed and the Device displays "Verification Failed".

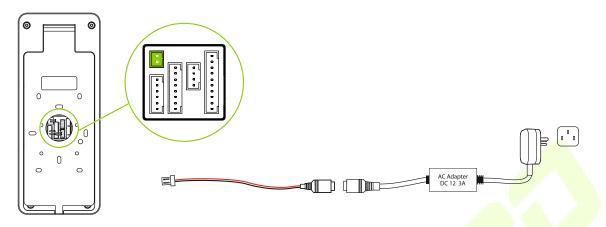
2 <u>Overview</u>

2.1 Appearance



2.2 Wiring Description

Power Connection

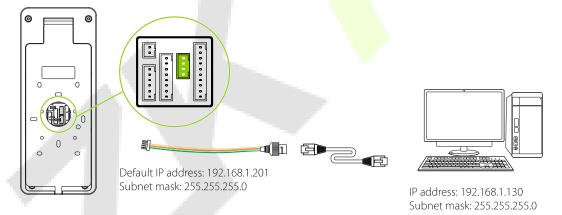


Recommended power supply

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

Ethernet Connection

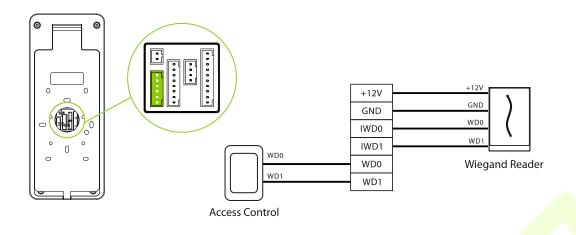
Connect the device and computer software over an Ethernet cable. As shown in the example below:



Tap on [COMM.] > [Ethernet] > [IP Address], input the IP address and tap on [OK].

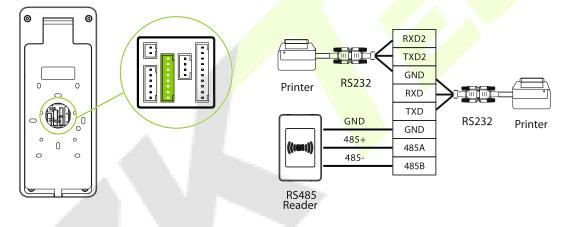
Note: In LAN, the IP addresses of the server (PC) and the device must be in the same network segment when connecting to the ZKBio CVAccess/ZKBio Time /ZKBio CVSecurity software.

Wiegand Reader Connection

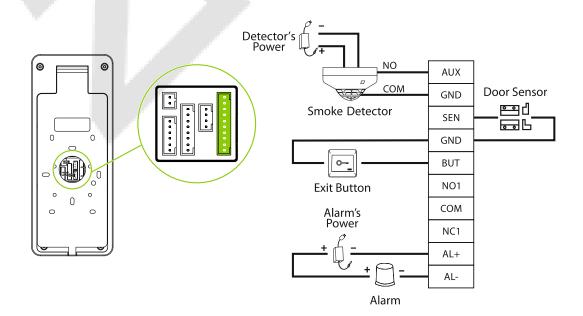


RS485 and RS232 Connection ★

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

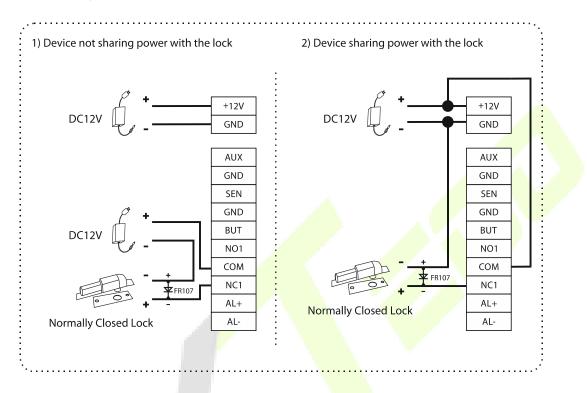


Door Sensor, Exit Button & Auxiliary Connection



Lock Relay Connection

The system supports both Normally Opened Lock and Normally Closed Lock. The NO Lock (normally opened when powered) is connected with 'NO1' and 'COM' terminals, and the NC Lock (normally closed when powered) is connected with 'NC1' and 'COM' terminals. The power can be shared with the lock or can be used separately for the lock, as shown in the example with NC Lock below:



Installation 3

Installation Environment 3.1

Please refer to the following recommendations for installation.







INSTALL INDOORS ONLY

DISTANCE OF 0.3 to 2m



AVOID INSTALLATION NEAR **GLASS WINDOWS**



AVOID DIRECT SUNLIGHT AND EXPOSURE

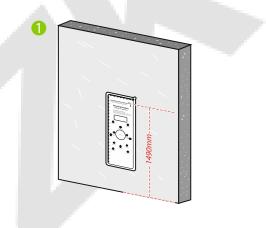


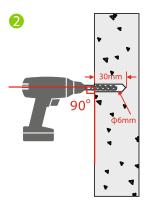
AVOID USE OF ANY HEAT SOURCE NEAR THE DEVICE

- Avoid direct contact to sunlight for a long time.
- Protect the device from moisture, water, and rain. •
- Handle the device with care. •
- Ensure that the device is not installed near the sea or in other locations where metal • oxidation and rust may develop if the device is exposed for an extended period.
- Protect the device from lightning. •
- Avoid using the device in acidic or alkaline environments for extended periods.

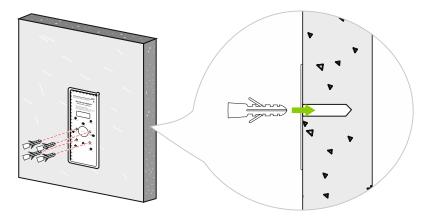
3.2 How to Install the Device on the Wall?

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

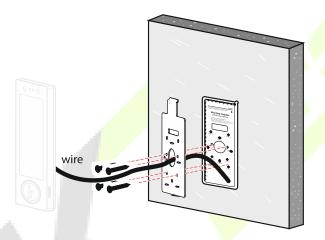




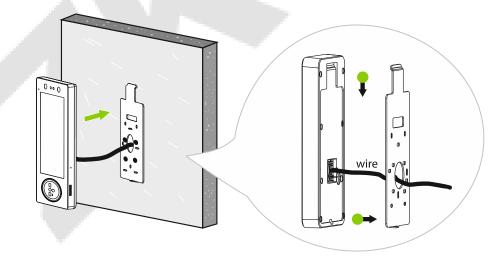
2. Insert the expansion tubes into the mounting holes.



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



4. Attach the terminal to the backplate.

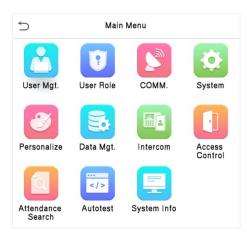


5. Fasten the terminal to the backplate with a security screw.



4 Main Menu

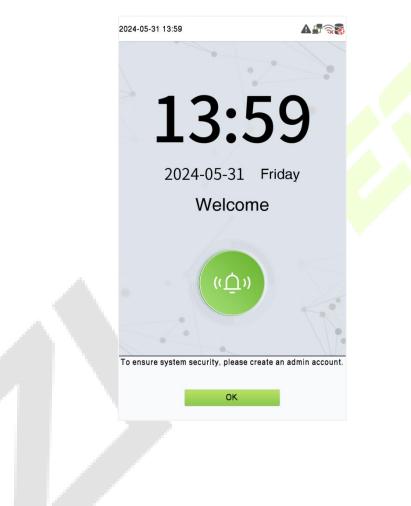
Tap \equiv on the initial interface to enter the main menu, as shown below:



Menu	Description
User Mgt.	To add, edit, view, and delete the basic information about a user.
User Role	To set the permission scope of the custom role, that is, the rights to operate the system.
СОММ.	To set the relevant paramete <mark>rs of th</mark> e network, PC Connection, Wi-Fi, Cloud Server, Wiegand and Network Diagnosis.
System	To set the parameters related to the system, including Date Time, Tap-To- Unlock, Attendance/Access Logs, Facial and Palm templates, Resetting to factory settings, Security Settings, Update Firmware Online, Device Type Setting and Health Protection.
Personalize	To customize settings of User Interface, Voice, Bell Schedules, Punch State Options and Shortcut Key Mappings settings.
Data Mgt.	To delete all the relevant data in the device.
Intercom	To set the parameters related to the SIP.
Access Control	To set the parameters of the lock and the relevant access control device including options like Time Rule Setting/Time Schedule, Holiday Settings, Access Groups, Combine Verification, Anti-passback Setup and Duress Option Settings.
Attendance Search	To query the specified attendance record, check Attendance Photos and Blocklist attendance photos.

Autotest	To automatically test whether each module functions properly, including the screen, audio, microphone, camera, palm and real-time clock.
System Info	To view the data capacity, device and firmware information and privacy policy of the device.

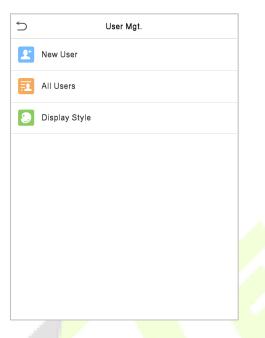
Note: When users use the product for the first time, they should operate it after setting administrator privileges. Tap User Mgt. to add an administrator or edit user permissions as a super administrator. If the product does not have an administrator setting, the system will show an administrator setting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



5 User Management

5.1 User Registration

Tap [User Mgt.] on the Main Menu interface.



5.1.1 Register a User ID and Name

Tap [New User] and enter the User ID and Name.

S New User	
User ID	1
Name	
User Role	Normal User
Palm	0
Face	0
Card	0
Password	
Profile Photo	0
Access Control Role	

Note:

- A name can take up to 34characters.
- The user ID may contain 1-14 digits by default, supporting both numbers and alphabetic characters.
- You can modify your ID during the initial registration but not after registration.
- If a message "**Duplicated!**" pops up, you must choose another ID as the entered User ID already exists.

5.1.2 Setting the User Role

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

Tap [User Role] to select Normal User or Super Admin.

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

5	User Role
۲	Normal User
0	Super Admin

Note: If the selected user role is the Super Admin, 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. Please refer to "<u>Verification Mode</u>".

5.1.3 Register Palm

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

- 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:



5.1.4 Register Face Template

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

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



5.1.5 Register Card Number

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

- On the Card interface, swiping card underneath the card reading area. The card registration will be successful.
- If the card is registered already then the "**Duplicate Card**" message shows up. The registration interface is as follows:



5.1.6 Register Password

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

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



5.1.7 Register 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.



5.1.8 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.

Access Control Terminal:

Time Attendance Terminal:

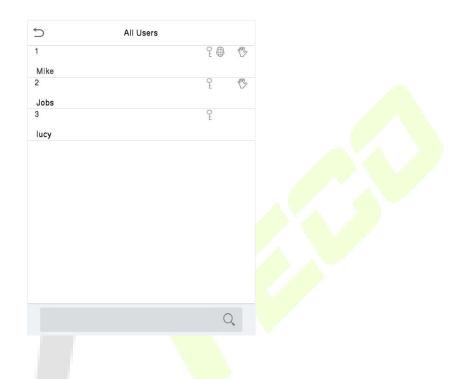
5	Access Control	5	Access Control	
Access Group	Disabled	Access Group		1
Time Period		Verification Mode		Apply Group Mode
		Apply Group Time Pe	riod	

- 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.
- Select verification mode for the user, tap [Access Control Role] > [Verification Mode].
- Select whether to apply the group time period for this user. It is enabled by default. If the group time period is not applied, you need to set the unlocking time for this user. The time period of this user does not affect the time period of any other member in this group. To set the unlocking time for this user, tap [Apply Group Time Period] > [Time Period 1]. Enter the Time Period number and tap [OK]. 50 time periods can be set in the device and three time periods can be set for each user. For details, see Time Schedule Settings.

5.2 Search 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.



5.3 Edit User

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

5	User : 1 Mike Lee	5	Edit : 1 Mike
Edit		User ID	1
Delete		Name	Mike
		User Role	Normal User
		Palm	1
		Face	1
		Card	0
		Password	
		Profile Photo	1
		Access Control Role	

Note: The process of editing the user information is the same as adding a new user, except that the User ID cannot be modified when editing a user. The process in detail refers to "<u>User Registration</u>".

5.4 Deleting 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 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.
- Delete Profile Photo Only: Deletes the profile photo of the selected user.
- **Delete Palm Only:** Deletes the palm information of the selected user.

\supset	Delete : 1 Mike
Delete	User
Delete	Face Only
Delete	Password Only
Delete	Card Number Only
Delete	Profile Photo Only
Delete	Palm Only

5.5 Display Style

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

 Multiple 	e Line		
Mixed I	line		

All the Display Styles are shown as below:

Multiple Line:



Mixed Line:

6 <u>User Role</u>

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.

Ś	User Role
2.	User Defined Role 1
2	User Defined Role 2
2.	User Defined Role 3
2,	Enroller

- 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.

5	User Defined Role	1
Enable Define	d Role	\bigcirc
Name		User Defined Role 1
Define User R	ole	

- 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 submenus 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.

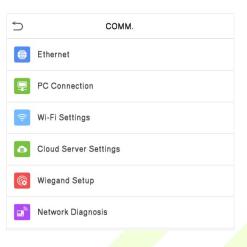
← Harr Daf	ned Role 1	
User Defi	nea Hole 1	
✓ User Mgt.	✓ New User	
✓ СОММ.	✓ All Users	
✓ System	✓ Display Style	
Personalize		
Data Mgt.		
✓ Access Control		
Attendance Search		
Autotest		
System Info		

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

7 <u>Communication Settings</u>

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

Tap [**COMM**.] on the **Main Menu**.



7.1 Network Settings

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

Tap [Ethernet] on the Comm. Settings interface to configure the settings.

5	Ethernet	
Display in Status Bar		
IPv4		
IP Address		192.168.163.99
Subnet Mask		255.255.255.0
Gateway		192.168.163.1
DNS		0.0.0.0
DHCP		\bigcirc

Function Name	Descriptions	
Display in Status Bar To set whether to display the network icon on the status bar.		
IP Address The factory default value is 192.168.1.201. Please set the IP Address a requirements.		
Subnet Mask	The factory default value is 255.255.255.0. Please set the value as per the requirements.	
Gateway	The factory default address is 0.0.0.0. Please set the value as per the requirements.	

DNS	The factory default address is 0.0.0.0. Please set the value as per the requirements.
TCP COMM. Port	The factory default value is 4370. Please set the value as per the requirements.
DHCP	Dynamic Host Configuration Protocol, which is to dynamically allocate IP addresses for clients via server.

7.2 PC Connection

Comm Key facilitates to improve the security of data by setting 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.

5	PC Connection	
evice ID		1
TCP COMM.Port		4370
HTTPS		

Function Name	Descriptions		
Device ID The default password is 0 and can be changed. The Comm Key can contain 1-6 digits.			
TCP COMM. Port	The factory default value is 4370. Please set the value as per the requirements.		
HTTPS	To increase the security of software access, users can enable the HTTPS protocol to create a secure and encrypted network transmission and assure the security of sent data through identity authentication and encrypted communication. This function is enabled by default. This function can be enabled or disabled through the menu interface, and when changing the HTTPS status, the device will pop up a security prompt, and restart after confirmation.		

7.3 Wireless Network

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

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

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

5	Wi-Fi Settings	1 _ 1 _
WIFI		
hwlyq@123		Connected
ZKTECO		
ZKTeco-tes		((:-
ZKTeco-Visitor		((:-
Add Wi-Fi Network		
Advanced		

Wi-Fi is enabled in the Device by default. Toggle on 🌑 button to enable or disable Wi-Fi.

Once the Wi-Fi is turned on, the device will search for the available Wi-Fi within the network range.

Tap on the appropriate Wi-Fi name from the available list, and input the correct password in the password interface, and then tap [**Connect to Wi-Fi (OK)**].

5	Wi-Fi Settings	1= 1=		5 ZKTECO
WIFI				Security: WPAEAP/WPA2EAP
hwlyq@123		Connected		Signal Strength: Very Strong
ZKTECO				Password
ZKTeco-tes		((:-		
ZKTeco-Visitor		((:-		
Add Wi-Fi Network				
Advanced				
				Connect to Wi-Fi (OK) Cancel (ESC)
			-	

WIFI Enabled: Tap on the required network from the searched network list.

Tap on the password field to enter the password, and then tap on **Connect to Wi-Fi (OK).**

When the Wi-Fi is connected successfully, the initial interface will display the Wi-Fi 窄 logo.

INFRA

OPEN

• Add Wi-Fi Network Manually

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

S Wirele	ess Network
WIFI	
	Not in the Network range
Add WIFI Network	
Advanced	

Tap on **Add WIFI Network** to add the Wi-Fi manually.

On this interface, enter the Wi-Fi network parameters. (The added network must exist.)

Add WIFI Network

Note: After successfully adding the Wi-Fi manually, follow the same process to search for the added Wi-Fi name.

5

SSID

Network Mode

Auth. Mode

Advanced Setting

On the **Wireless Network** interface, tap on **Advanced** to set the relevant parameters as required.

5	Wi-Fi Settings	1∓ ↓∓	5	Ethnoret
				Ethernet
WIFI			DHCP	
hwlyq@123		Connected	IP Address	0.0.0.0
ZKTECO			Subnet Mask	0.0.0.0
ZKTeco-tes		(((.	Gateway	0.0.0.0
ZKTeco-Visitor		(((•	DNS	0.0.0.0
Add Wi-Fi Network				
Advanced				

Function Name	Description	
DHCP Dynamic Host Configuration Protocol (DHCP) dynamically allocates IP addres to network clients. If the DHCP is enabled, then the IP cannot be set manually		
IP Address	IP address for the Wi-Fi network, the default is 0.0.0.0. It can be modified according to the network availability.	
Subnet MaskThe default Subnet Mask of the Wi-Fi network is 255.255.255.0. It can be mode according to the network availability.		
Gateway	Gateway The default Gateway address is 0.0.0.0. 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.	

7.4 Cloud Server Setting

This represents the settings used for connecting the ADMS server.

Tap [Cloud Server Setting] on the Comm. Settings interface.

5	Cloud Server Setting	
Server Mode		ADMS
Enable Domain N	Name	\bigcirc
Server Address		192.168.163.61
Server Port		8088
Enable Proxy Se	rver	\bigcirc

Functi	ion Name	Description	
Enable Domain Name	Server Address	Once this mode is turned ON , the domain name mode "http://" will be used, such as http://www.XYZ.com, while "XYZ" denotes the domain name.	
Disable	Server Address	The I <mark>P addre</mark> ss o <mark>f the A</mark> DMS serv <mark>er.</mark>	
Domain Name	Server Port	Port used by the ADMS server.	
Enable P	roxy Server	The IP address and the port number of the proxy server is set manually when the proxy is enabled.	

7.5 Wiegand Setup

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

Tap [Wiegand Setup] on the Comm. Settings interface to set the Wiegand input and output parameters.

5	Wiegand Setup
Wiegand Input	
Wiegand Output	

7.5.1 Wiegand Input

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

Function Name	Descriptions	
Wiegand Format	Its value can be 26 bits, 34 bits, 36 bits, 37 bits, 50 bits and 64 bits.	
Wiegand Bits	The number of bits of the Wiegand data.	
Pulse Width (us)	The value of the pulse width sent by Wiegand is 10 <mark>0 microseconds by</mark> default, which can be adjusted within the range of 20 to 400 microseconds.	
Pulse Interval (us)	The default value is 1000 microseconds and can be adjusted within the range of 200 to 20000 microseconds.	
ID Type	Select between the User ID and card number.	

Various Common Wiegand Format Description

Wiegand Format	Description
Wiegand 26	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Wiegand 26a	ESSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Wiegand 34	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Wiegand 34a	ESSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

	OFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegand 36	It 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 is the device codes. The 18 th to 33 rd bits is the card numbers, and the 34 th to 35 th bits are the manufacturer codes.
	EFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegand36a	It 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 bit is the device codes, and the 20 th to 35 th bits are the card numbers.
	OMMMMSSSSSSSSSSSSCCCCCCCCCCCCCCCC
Wiegand 37	It consists of 37 bits of binary code. The 1 st bit is the odd parity bit of the 2 nd to 18 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 bit is the manufacturer codes. The 5 th to 16 th bits is the site codes, and the 21 st to 36 th bits are the card numbers.
	EMMMFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegand 37a	It consists of 37 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 18 bits, while the 37 th bit is the odd parity bit of the 19 th to 36 th bits. The 2 nd to 4 th bit is the manufacturer codes. The 5 th to 14 th bits is the device codes, and15 th to 20 th bits are the site codes, and the 21 st to 36 th bits are the card numbers.
	ESSSSSSSSSSSSSSSSCCCCCCCCCCCCCCCCCCCCCC
Wiegand50	It consists of 50 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 25 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 bit is the site codes, and the 18 th to 49 th bits are the card numbers.

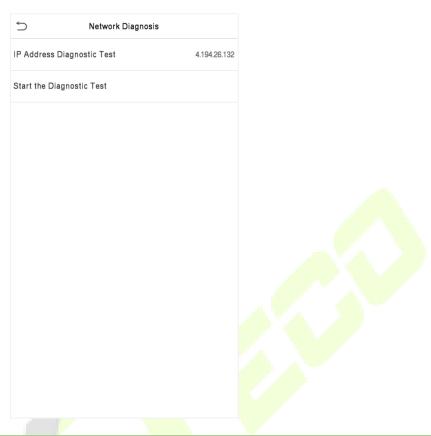
"C" denotes the card number; "E" denotes the even parity bit; "O" denotes the odd parity bit; "F" denotes the facility code; "M" denotes the manufacturer code; "P" denotes the parity bit; and "S" denotes the site code.

7.5.2 Wiegand Output

5	Wiegand Options	
SRB	0	\bigcirc
Shb		\bigcirc
Wiegand Format		
Wiegand Output Bit	S	26
Failed ID		Disabled
Site Code		Disabled
Pulse Width(us)		400
Pulse Interval(us)		2000
ID Туре		Card Number

Function Name	Descriptions		
SRB	When SRB is enabled, the lock is controlled by the SRB to prevent the lock from opening due to device removal.		
Wiegand Format	Its value can be 26 bits, 34 bits, 36 bits, 37 bits, 50 bits and 64 bits.		
Wiegand Output Bits	After selecting the required Wiegand format, select the corresponding output bit digits of the Wiegand format.		
Failed ID	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.		
Site Code	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.		
Pulse Width(us)	The time width represents the changes in the quantity of electric charge with regular high-frequency capacitance within a specified time.		
Pulse Interval(us)	The time interval between pulses.		
ID Type	Select the ID types as either User ID or card number.		

7.6 Network Diagnosis



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

8 System Settings

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

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

Access Control Terminal:

	Ś	System	
	•	Date Time	
		Access Logs Settings	
		Face	
	*	Palm	
	V	Health Protection	
	=	Device Type Settings	
	0	Security Settings	
	Ð	Tap-To-Unlock	
	4	Update Firmware Online	
	•	Reset	
Time Attendance Terminal:			
	5	System	
		System Date Time	
	4	Date Time	
		Date Time Attendance	
		Date Time Attendance Face	
		Date Time Attendance Face Palm	
		Date Time Attendance Face Palm Health Protection	
	 	Date Time Attendance Face Palm Health Protection Device Type Settings	
	 	Date Time Attendance Face Palm Health Protection Device Type Settings Security Settings	

8.1 Date and Time

5	Date Time
NTP Server	\bigcirc
Manual Date and Tin	10
Select Time Zone	UTC+8:00
24-Hour Time	
Date Format	YYYY-MM-DD
Daylight Saving Time	

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

- Tap [NTP Server] to enable automatic time synchronization based on the service address you enter.
- Tap [Manual Date and Time] to manually set the date and time and then tap to [Confirm] and save.
- Tap [Select Time Zone] to manually select the time zone where the device is located.
- Enable or disable this format by tapping 24-Hour Time. If enabled, then select the Date Format to set the date.
- 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.
- When restoring the factory settings, the time (24-hour) and date format (YYYY-MM-DD) can be restored, but the device date and time cannot be restored.

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

5	Daylight Saving Setup	
Start Mont	h	1
Start Weel	<	1
Start Day		Sunday
Start Time		00:00
End Month	1	1
End Week		1
End Day		Sunday
End Time		00:00

5	Daylight Saving Setup	
Start Date		00-00
Start Time		00:00
End Date		00-00
End Time		00:00

Week Mode

Date Mode

8.2 Access Logs Setting/Attendance

Tap [Access Logs Settings] / [Attendance] on the System interface.

Access Control Terminal:

5	Access Logs Settings	
Camera Mode		No photo
Display User Pho	to	
Alphanumeric Us	er ID	
Access Log Alert		99
Periodic Del of Ad	ccess Logs	Disabled
Periodic Del of T&	&A Photo	99
Periodic Del of Bl	ocklist Photo	99
Authentication Ti	meout(s)	3
Recognition Inter	val(s)	1

Function Name	Description			
	This function is disabled by default. When enabled, a security prompt will pop-up and the sound of shutter in the camera will turn on mandatorily. There are 5 modes:			
	No photo: No photo is taken during user verification.			
Camera Mode	Take photo, no save: Photo is taken but not saved during verification.			
cullera litoac	Take photo and save: All the photos taken during verification is saved.			
	Save on successful verification: Photo is taken and saved for each successful verification.			
	Save on failed verification: Photo is taken and saved only for each failed verification.			
Display User Photo	This function is disabled by default. When enabled, a security prompt will pop-up.			
Alphanumeric User ID	Enable/Disable the alphanumeric as User ID.			
Access Log Alert	When the record space of the attendance access reaches the maximum threshold value, the device automatically displays the memory space warning. Users may disable the function or set a valid value between 1 and 9999.			
Periodic Del of Access Logs	When access logs reach its maximum capacity, the device automatically deletes a set of old access logs. Users may disable the function or set a valid value between 1 and 999.			
	When attendance photos reach its maximum capacity, the device			
Periodic Del of T&A Photo	automatically deletes a set of old attendance photos. Users may disable the function or set a valid value between 1 and 99.			

Periodic Del of	When block listed photos reach its maximum capacity, the device automatically deletes a set of old block listed photos.
Blocklist Photo	Users may disable the function or set a valid value between 1 and 99.
Authentication	The amount of time taken to display a successful verification message.
Timeout (s)	Valid value: 1~9 seconds.
Recognition	The amount of time required to compare facial templates.
Interval(s)	Valid value: 0~9 seconds.

Time Attendance Terminal:

5 A	Attendance	
Duplicate Punch Period(r	m)	None
Camera Mode		No photo
Display User Photo		
Alphanumeric User ID		
Attendance Log Alert		99
Periodic Del of T&A Data	3	Disabled
Periodic Del of T&A Phot	to	99
Periodic Del of Blocklist I	Photo	99
Authentication Timeout(s	s)	3
Recognition Interval(s)		1

	Authentication Timeout(s) 3			
	Recognition Interval(s) 1			
Function Name	Description			
Duplicate Punch	Within a set time period (unit: minutes), the duplicated attendance record will			
Period(m)	not be reserved (value ranges from 1 to 999999 minutes).			
	This function is disabled by default. When enabled, a security prompt will pop-up and the sound of shutter in the camera will turn on mandatorily. There are 5 modes:			
	No photo: No photo is taken during user verification.			
Camera Mode	Take photo, no save: Photo is taken but not saved during verification.			
Camera Mode	Take photo and save: All the photos taken during verification is saved.			
	Save on successful verification : Photo is taken and saved for each successful verification.			
	Save on failed verification : Photo is taken and saved only for each failed verification.			
Display User Photo	This function is disabled by default. When enabled, a security prompt will pop-up.			
Alphanumeric User ID	Enable/Disable the alphanumeric as User ID.			

Attendance Log Alert	When the record space of the attendance reaches the maximum threshold value, the device automatically displays the memory space warning. Users may disable the function or set a valid value between 1 and 9999.		
Periodic Del of T&A Data	When attendance records reach its maximum storage capacity, the device automatically deletes a set of old attendance records.Users may disable the function or set a valid value between 1 and 999.		
Periodic Del of T&A Photo	When attendance photos reach its maximum storage capacity, the device automatically deletes a set of old attendance photos. Users may disable the function or set a valid value between 1 and 99.		
Periodic Del of Blocklist Photo	When blocklisted photos reach its maximum storage capacity, the device automatically deletes a set of old block listed photos. Users may disable the function or set a valid value between 1 and 99.		
Authentication Timeout(s)	The amount of time taken to display a successful verification message. Valid value: 1~9 seconds.		
Recognition Interval(s)	After the interval identifying is clicked (selected), for example, if the comparison interval is set to 5 seconds, then the face recognition will verify the face every 5 seconds. Valid value: 0 to 9 seconds. 0 means continuous identifying, 1 to 9 means identifying at intervals.		

8.3 Face Parameters

Tap [Face] on the System interface to go to the face parameter settings.

5	Face	11
1:N Threshold		72
1:N Match Thres	hold for Masked People	68
1:1 Threshold		70
Face Enrollment	Threshold	70
Image Quality		40
Facial Recognitio	on Distance	Far
LED Light Trigge	er Value	80
Live Detection		
Live Detection T	hreshold	70
Anti-spoofing Us	sing NIR	
Binocular Live D	etection Threshold	75
Face AE		

5	Face	11
Face Enrollment Thre	shold	70
Image Quality		40
Facial Recognition Di	stance	Far
LED Light Trigger Va	lue	80
Live Detection		
Live Detection Thresh	nold	70
Anti-spoofing Using N	IIR	
Binocular Live Detect	ion Threshold	75
Face AE		
WDR		\bigcirc
Anti-flicker Mode		50Hz
Face Algorithm		

Function Name	Description	
1:N Threshold	Under 1:N verification mode, the verification will only be successful when the similarity between the acquired facial image and all registered facial templates is greater than the set value. The valid value ranges from 0 to 100. The higher the thresholds, the lower the misjudgement rate and the higher the rejection rate, and vice versa. It is recommended to set the default value of 72.	
1:1 Match Threshold of Masked People	During face enrolment, 1: N comparison is used to determine whether the use has already registered before. When the similarity between the acquired facial image and all registered facial templates is greater than the set threshold, it indicates that the face has already been registered.	
1:1 Threshold	Under 1:1 verification mode, the verification will only be successful when the similarity between the acquired facial image and the user's facial templates enrolled in the device is greater than the set value. The valid value ranges from 0 to 100. The higher the thresholds, the lower the misjudgement rate and the higher the rejection rate, and vice versa. It is recommended to set the default value of 70.	
Face Enrollment Threshold	During face enrollment, 1:N comparison is used to determine whether the use has already registered before. When the similarity between the acquired facial image and all registered facial templates is greater than the set threshold, it indicates that the face has already been registered.	
Image Quality It is the image quality for facial registration and comparison. The hig		
Facial Recognition Distance	Face template recognition of the maximum distance, greater than this value will be filtered. The parameter value can be understood as the face template size required for registration and comparison. The farther the distance from people, the smaller the face template pixels obtained by the algorithm. When the value is 0, it means that the face template comparison distance is not limited.	
LED Light Trigger Value	This value controls the turning on and off of the LED light. The larger the value, the LED light will turn on or off more frequently.	
Live Detection	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.	
Live Detection Threshold	It facilitates judging whether the captured visible image is a real person (a live human being). The larger the value, the better the anti-spoofing performance using visible light.	
Anti-spoofing Using NIR	Using near-infrared spectra imaging to identify and prevent fake photos and videos attack.	
Binocular Live Detection Threshold	It is convenient to judge whether the near-infrared spectral imaging is fake photo and video. The larger the value, the better the anti-spoofing performance of near-infrared spectral imaging.	

Face AE	When the face is in front of the camera in Face AE mode, the brightness of the face area increases, while the other areas become darker.	
WDR	Wide Dynamic Range (WDR) balances light and extends image visibility for surveillance videos under high contrast lighting scenes and improves object identification under bright and dark environments.	
Anti-flicker Mode It is used when WDR is turned off. It helps to reduce flicker when the develocity screen flashes at the same frequency as the light.		
Face Algorithm It has facial algorithm related information and pause facial template update.		

Note: 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.

- Process to modify the Face Recognition Accuracy
- On the System interface, tap on [Face] and then toggle to enable [Anti-Spoofing using NIR] to set the anti-spoofing.
- Then, on the Main Menu, tap [Autotest] > [Test Face] and perform the face test.
- Tap three times for the scores on the right upper corner of the screen, and the red rectangular box appears to start adjusting the mode.
- Keep one arm distance between the device and the face. It is recommended not to move the face in a wide range.

8.4 Palm Parameters

Tap [**Palm**] on the **System** interface.

5	Palm	
Palm 1:1 Match	ing Threshold	46
Palm 1:N Match	ing Threshold	50
Image Quality		60
Palm AE		
Anti-Spoofing f	or Palm	
Palm Anti-Spoo	fing Threshold	70
Recognition Int	erval(s)	0

Function Name	Descriptions	
Palm 1:1	In 1:1 Verification Method, only when the similarity between the verifying palm	
Matching	and the user's registered palm is greater than this value can the verification	
Threshold	succeed.	

Palm 1:N Matching Threshold	In 1: N Verification Method, only when the similarity between the verifying palm and all the registered palm is greater than this value can the verification succeed.		
Image Quality	Image quality for palm registration and comparison. The higher the value, the clearer the image requires.		
Palm AE	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.		
Anti-Spoofing for palm	Using near-infrared spectra imaging to identify and prevent fake photos and videos attack.		
Palm Anti- Spoofing Threshold	It is convenient to judge whether the near-infrared spectral imaging is fake photo and video. The larger the value, the better the anti-spoofing performance of near- infrared spectral imaging.		
Recognition Interval(s)	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.		

8.5 Health Protection

Tap [**Health Protection**] on the **System** interface to configure the health protection settings.

5	Health Protection	
Enable Mask Detec	tion	
Deny Access Witho	ut Mask	
Allow Unregistered	People to Access	
Enable Capture of U	Inregistered Person	
Trigger External Ala	arm	
Clear External Alar	m	
External Alarm Dela	ay(s)	10

Function Name	Descriptions	
Enable Mask Detection	It enables or disables the mask detection function. When enabled, the device identifies whether the user is wearing a mask or not during verification.	
Deny Access Without Mask	It enables or disables the access of a person without a mask. When enabled, the device denies access of a person, if not wearing a mask.	
Allow Unregistered People to Access	It enables or disables the access of an unregistered person. When enabled, the device allows the person to enter without registration.	
Enable Capture of Unregistered	To enable or disable capturing the unregistered person. When enabled, the device will automatically capture the photo of the unregistered	

Person	person, enabling this feature requires to enable Allow Unregistered People to Access .	
Trigger External Alarm	When enabled, if the user is not wearing a mask, the system will trigger an alarm.	
Clear External Alarm	It clears the triggered alarm records of the device.	
External Alarm Delay(s)	It is the delay(s) time for triggering an external alarm. It can be set in seconds. Users may disable the function or set a value between 1 to 255.	

8.6 Device Type Settings

Tap [Device Type Settings] on the System interface to configure the Device Type Setting settings.

5

	Communication Protocol	PUSH Protocol	
	Device Type	A&C PUSH	
Function Name	Descriptions		
Communication Protocol	Set the PUSH protocol.		
Device Type	Set the device as an access control terminal or attendance terminal.		

Device Type Settings

8.7 Security Settings

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

Security Settings	
Standalone Communication	\bigcirc
SSH	
User ID Masking	
Display Verification Name	
Display Verification Mode	
Save Photo as Template	

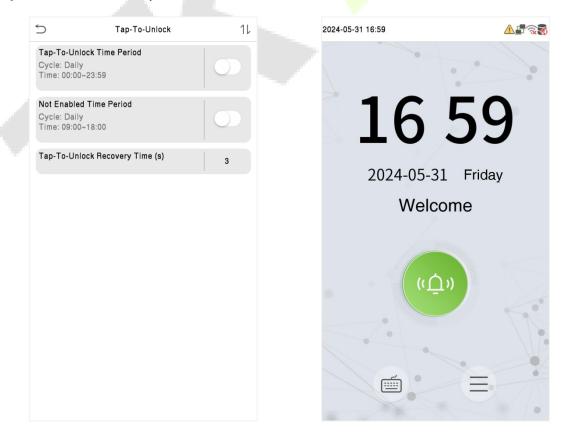
Function Name	Description
Standalone Communication	By default, this function is disabled. This function can be enabled or disabled via the menu interface. When it is switched on, a security prompt appears, and the device will restart after you confirm.

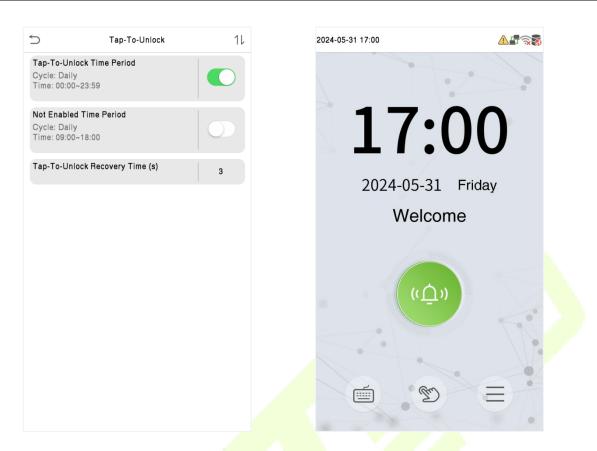
SSH	The device does not support the Telnet feature, hence SSH is typically used for remote debugging. By default, SSH is enabled. The menu interface allows you to enable and disable SSH. When enabled, there will be a security prompt, but the device will not need to be restarted after confirmation.
User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

8.8 Tap-To Unlock

Enable **Tap-To-Unlock**, and it will take effect after the device restarts. Once enabled, the camera's autoidentification sensing function will be disabled. Only touching the device screen can wake up the camera for auto-identification.

Tap [**Tap-To-Unlock**] on the **System** interface to enable this function.





8.9 Update Firmware Online

Tap [**Update Firmware Online**] on the **System** interface.

5	Update firmware online	
Enable f	irmware update online	\bigcirc
Enable I	rmware update online	\bigcirc

Tap [**Enable firmware Update Online**] function, the device will prompt that the update may bring some data security risks, which requires manual confirmation by the user (If the security setting function is turned off, the risk warning will not be displayed when the online update is turned on).

	5		
Enable firmware update online			
	Check for Updat	es	

Tap [Check for Updates] it may have the following 3 scenarios:

- If the query fails, the interface will prompt "Query failed".
- If the firmware version of the device is latest, it will prompt that the current firmware version is already the latest.
- If the firmware version of the device is not the latest, the version number and change log of the latest version will be displayed. Users can choose whether to update to the latest firmware version.

1. Tap [**Download now**] to start the download. After the download is complete, you can choose whether to update immediately.



2. During the download process, you can press the back button to go to other menus, and then return to this menu to update after the download is complete.

Check for Updates
Current Version Firmware Version:ZAM180-NF50VA-Ver1.1.4
New version Firmware Version:ZAM180-NF50VA-Ver1.2.3
Update logs to solve the problem 1.add multi-national pronunciation
 update safety information 0630 languages modify the default support for user photos and disenable the status update 0604 version push
 by the second president president
nchecked modify the default support for user photos and disenable th e status
7. update 0604 version push 8.update 0604 version push 9.update 0604 version push
Note: Please back up the user data before upgrading.
Update now
100%

3. The download speed is related to the user's network environment, and it may take about 10 minutes to complete the download. The update may take about 3 minutes.

5	Check for Updates
Current Ve Firmware V	rsion ′ersion:ZAM180-NF50VA-Ver1.1.4
<mark>New versio</mark> Firmware V	n /ersion:ZAM180-NF50VA-Ver1.2.3
Update log	
2. update s	, problem -national pronunciation afety information 0630 languages ne default support for user photos and disenable
4. update 0 5,.online up	604 version push ograde pre-decompression return value modifica eproc and ufo
nchecked modify the	e the role to add online upgrade menu, default u default support fc 🕼 ser photos and disenable th
8.update 06	604 version push 304 version push 304 version push
<mark>Note:</mark> Please bacl	k up the user data before upgrading.
	Updating

4. After the update is complete, the device will prompt to restart. After restarting, you can enter the **System Information** to view the latest firmware version after the update.

Check for Updates
Current Version
Firmware Version:ZAM180-NF50VA-Ver1.1.4
New version Firmware Version:ZAM180-NF50VA-Ver1.2.3
Update logs to solve the problem
1.add multi-national pronunciation 2. update safety information 0630 languages
3. modify the default support for user photos and disenable the status
4. update 0604 version push 5, online upgrade pre-decompression return value modifica
tion.libzkfileproc and ufo 6.customize the role to add online upgrade menu, default u
nchecked modify the default support for user photos and disenable th
e status 7. update 0604 version push
8 update 0604 version push 9 update 0604 version push
Note:
Please back up the user data before upgrading.
Successfully Upgraded,(OK) to reboot.
ОК

8.10 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.

5	System	
Date Time		
Attendance		
Face		
Yealm		
Health Protection		
😑 Device Type Setti	ings	
Security Settings		
Tap-To-Unlock		
▲ Update Firmware		
Re	set?Restart	
	ОК	
	Cancel	

9 Personalize Settings

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

Access Control Terminal:

	5		Personalize	
		User Interface	I	
	!	Voice		
	Ŷ	Bell Schedules	5	
Time Attendance Terminal:				
	5		Personalize	
		User Interface	9	
	P	Voice		
	٢	Bell Schedule	S	
	0	Punch State C	Options	
		Shortcut Key	Mappings	

9.1 Interface Settings

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

5	User Interface	
Wallpaper		
Language		English
Menu Timeout(s))	99999
Idle Time to Slid	e Show(s)	60
Slide Show Inter	val(s)	30
Idle Time to Slee	ep(m)	Disabled
Main Screen Sty	le	Style 1

Function Name	Description			
Wallpaper	It helps to select the main screen wallpaper according to the user preference.			
Language	LanguageIt helps to select the language of the device.			
Menu Timeout(s)	When there is no operation, and the time exceeds the set value, the device automatically goes back to the initial interface. The function can either be disabled or set the required value between 60 and			

	99999 seconds.
Idle Time to Slide Show(s)	When there is no operation, and the time exceeds the set value, a slide show is displayed. The function can be disabled, or you may set the value between 3 and 999 seconds.
Slide Show Interval(s)	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.
Idle Time to Sleep(m)	If the sleep mode is activated, and when there is no operation in the device, then the device will enter standby mode. This function can be disabled or set a value within 1-999 minutes.
Main Screen Style	The style of the main screen can be selected according to the user preference.

9.2 Voice Settings

Tap [Voice] on the Personalize interface to configure the voice settings.

5	Voice	
Voice Prompt		
Touch Prompts		
Volume	70	

Function Name	Description		
Voice Prompt	Select whether to enable voice prompts during operating.		
Touch Prompt	Select whether to enable keypad sounds.		
Volume	Adjust the volume of the device; valid value: 0-100.		

9.3 Bell Schedules

Tap [Bell Schedules] on the Personalize interface to configure the Bell settings.

5	Bell Schedules
New Bell Schedule	
All Bell Schedules	

New Bell Schedule

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

Ś	New Bell Schedule	
Bell Status		\bigcirc
Bell Time		
Repeat		Never
Ring Tone		bell01.wav
Internal bell (delay(s)	5

Function Name	Description		
Bell Status	Toggle to enable or disable the bell status.		
Bell Time	Once the required time is set, the device automatically triggers to ring the bell during that time.		
Repeat	Set the required number of counts to repeat the scheduled bell.		
Ring Tone	Select a ringtone.		
Internal Bell Delay(s) Set the replay time of the internal bell. Valid values range from 1 to 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, and tap [**Delete**], and then tap [**Yes**] to delete the selected bell.

9.4 Punch States Options

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

Note: This function only for Time Attendance Terminal.

5	Punch State Options	
Punch State	Mode	Manual Mode
Punch State	Timeout(s)	10
Punch State	Required	\bigcirc

Function Name	Description		
	Select a punch state mode, which can be:		
	Off: It disables the punch state function. And the punch state key set under the Shortcut Key Mappings menu becomes invalid.		
	Manual Mode: Switch the punch state key manually, and the punch state key will disappear after Punch State Timeout .		
	Auto Mode: The punch state key will automatically switch to a specific punch status according to the predefined schedule which can be set in the Shortcut Key Mappings.		
Punch State Mode	Manual and Auto Mode: The main interface will display the auto-switch punch state key. However, the users will still be able to select an alternative that is the manual attendance status. After the timeout, the manual switching punch state key will become an 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 manually switched again.		
	Fixed Mode: Only the manually fixed punch state key is shown. Users cannot change the status by pressing any other keys.		
Punch State Timeout (s)	It is the amount of time for which the punch state is displayed. The value ranges from 5~999 seconds.		
Punch State Required	To choose whether an attendance state needs to be selected during verification.		

9.5 Shortcut Keys Mappings

Users may define shortcut keys for attendance status and functional keys on the main interface. So, on the main interface, when the shortcut keys are pressed, the corresponding attendance status or the function interface displays directly. **Note:** This function only for Time Attendance Terminal.

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

5	Shortcut Key Mappings	
F1		Check-In
F2		Check-Out
F3		Break-Out
F4		Break-In
F5		Overtime-In
F6		Overtime-Out

 On the Shortcut Key Mappings interface, tap on the required shortcut key to configure the shortcut key settings.

- On the **Shortcut Key** ("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 done as shown in the image below.

Ś	F3	
Punch State Value		2
Function		Punch State Options
Name		Break-Out
Set Switch Time		

5	F1	
Function		New User

 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, and switch time.

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.

5	Set Switch Time		Switch Cycle
Swit	ich Cycle	Never	✓ Monday
			✓ Tuesday
			√ Wednesday
			✓ Thursday
			V Friday
			√ Saturday
			✓ Sunday

10 Data Management

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

5	Data Mgt.
Delete Data	

Time Attendance Terminal:

10.1 Delete Data

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

Access Control Terminal:

Delete Data	5 Delete Data		
Delete Access Records	Delete Attendance Data		
Delete Attendance Photo	Delete Attendance Photo		
Delete Blocklist Photo	Delete Blocklist Photo		
Delete All Data	Delete All Data		
Delete Admin Role	Delete Admin Role		
Delete Access Control	Delete Access Control		
Delete User Photo Templates	Delete User Photo Templates		
Delete Profile Photo	Delete Profile Photo		
Delete Wallpaper	Delete Wallpaper		
Delete Screen Savers	Delete Screen Savers		
Delete Contact List	Delete Contact List		

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

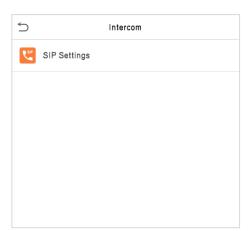
Delete User Photo Templates	To delete user photo templates in the device. When deleting template photos, there is a risk reminder: "Face re-registration is required after an algorithm upgrade."
Delete Profile Photo	To delete all user photos in the device.
Delete Wallpaper	To delete all wallpapers in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

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

Delete Access Records	5	Sta	art Time		
Delete All					
Delete by Time Range		2020-	12-08 00:0	0	
	2020	12	08	00	00
	-	-	-	~	~
	YYYY	ММ	DD	НН	ММ
	Confirm	(OK)		Cancel (F	ESC)
Select Delete by Time Range	Set the	time ra	ange a	nd tap	[OK]

11 Intercom

Tap [Intercom] on the Main Menu interface to get into its menu options.



5	SIP Settings	
Local Settings	3	
Audio Options	i	
Video Options		
Call Options		
Calling Shorto	cut Settings	
Advanced Set	tings	

Functior	n Name	Description
	SIP Server	Select whether to enable the SIP server. When it is enabled, the server account needs to be set.
Local Settings	Master Account Settings	Select whether to enable the master account settings. After enabling, it is necessary to set the server address, server port, display name, user name, verify ID, password and transport protocol. (Note: Turning off this feature will disable the SIP server function.) Enable Domain Name: Select whether to enable the domain name mode. Server Address: Enter the server address. Server Port: Enter the server port. Display Name: Enter the display name of server. User Name: Enter the username of server. Verify ID: Enter the verify ID of server. Password: Enter the password of server. STUN Server: Set up STUN server docking. Transport Protocol: Set the transport protocol between the device and indoor station.
	Backup Account Settings	Select whether to enable the backup account settings.
	Device Port	When using the LAN for visual intercom, enter the network port number of the LAN.
	Device Type	Can be set as Entrance Station, Access Control Terminal or Fence Terminal.
	Local Information	Set specific location information of the device, including the block, unit, floor and door number.
	Transport Protocol	Set the transport protocol between the device and indoor station.

Audio Options		dio encoder for intercom. Both PCMU and PCMA provide better voice ey take up more bandwidth, requiring 64kbps.					
Video Options	General	 Video Resolution: Select the video resolution of the intercom. Video Code Stream: Select the video code stream of the intercom, the larger the value, the higher the picture and sound quality of the video, and the greater the network requirements. Video Frame Rate: Refers to the number of frames per second of the intercom video display, the larger the value the smoother, the device defaults to 25Hz, does not support modification. 					
	Encoder	Whether to enable H264 Encoder.					
	Calling Delay(s)	Set the time of call, valid value 30 to 60 seconds.					
	Talking Delay(s)	Set the time of intercom, valid value 60 to 120 seconds.					
	Call Volume Settings	Adjust the volume of the intercom; valid value: 0-100.					
	Call Type	Set the call type to Voice only or Voice+Video.					
Call Options	Call Button Style	Change the visual intercom call button on the standby interface of the device, optional doorbell label ⁽²⁾ or phone label ⁽³⁾ .					
	Auto Answer Settings	When the indoor unit dials the device successfully, it is automatically connected within the set answer time.					
	Verification Timeout	Sets the verification timeout for intercom, valid values are 1 to 60 seconds.					
	Encryption	Whether to enable intercom call encryption function.					
Contact List	When the SIF stations can b	e server is disabled, the device number and call address of the indoor e added here.					
Calling Shortcut Settings	 Set the quick call shortcuts in the call interface of visual intercom, the system defaults 5 shortcuts, including a management center and 4 customizable shortcuts. After enabling the shortcuts, customize the name, enter the device number set in the Contact List, then automatically match the IP address, after the operation is completed, then click on the generated customized name (shortcut) in the call interface of the visual intercom to call directly. Support standard mode and direct calling mode, in direct calling mode, users can call multiple indoor units at the same time. Note: When the SIP server is enabled, Direct Calling Mode can only call the Management Center 						
Advanced Settings		type and DTMF value of the device, the value should be set to the same value of the indoor unit.					

The SpeedPalm-V5L and the indoor station to achieve video intercom there are two modes, respectively, the LAN and SIP server.

11.1.1 Local Area Network Use

• Enter the IP Address/Device Number of the Indoor Station

- 1. Set the indoor station to the same network segment as the device.
- On the SIP Settings interface, tap on [Advanced Settings] > [Dtmf] to set the value as same as the value of DTMF in the indoor station.

SIP Settings	5	Advanced Settings	
Local Settings	DTMF Settings		
Audio Options	DTMF Type		AUTO
Video Options	DTMF		1234
Call Options			
Contact List			
Calling Shortcut Settings			
Advanced Settings			

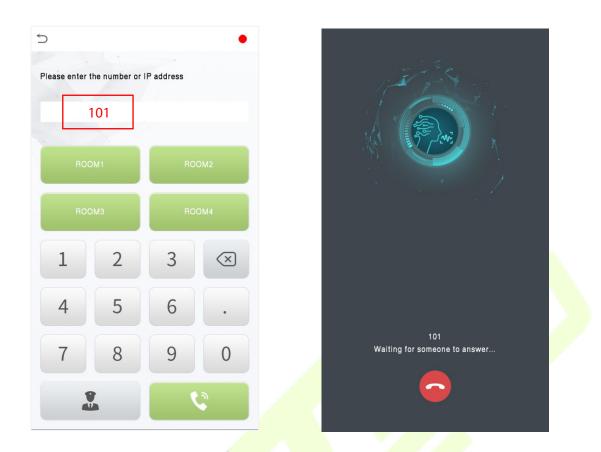
3. On the **SIP Settings** interface, tap on **[Contact List]** > **[Add]** to add the connected indoor station.

5	Calling Shortcut Settings
Device Numb	er
Call Address	

Device Number: Customize the number of the indoor station, you can enter this number on the device to call the indoor station quickly for video intercom.

Call Address: It is the IP Address of the indoor station.

4. To enable the video intercom function, tap the ²² icon on the SpeedPalm-V5L and enter the IP address or device number of the indoor station in the provided interface.



- Custom the Calling Shortcut Keys
- 1. On the **SIP Settings** interface, tap [**Calling Shortcut Settings**] to define the shortcut keys.

			Number : 102
Call Mode	Standard Mode	Enable	
admin	Enable	Name	ROOM1
ROOM1	Enable	Device Number	102
ROOM2	Enable	IP Address	192.168.1.102
ROOM3	Enable		
ROOM4	Enable		

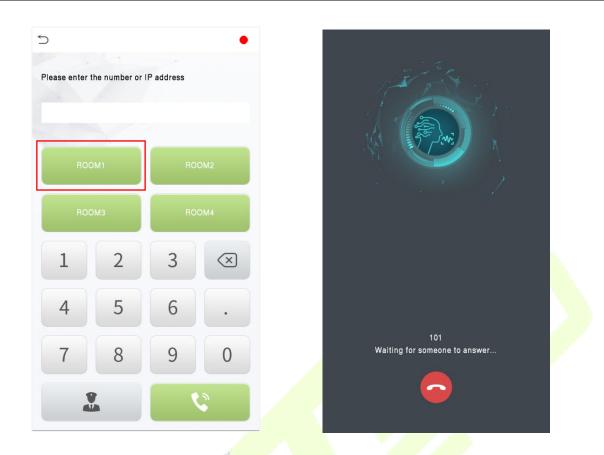
Name: Customize the name of the shortcut keys.

Device Number: It is the device number that set in the Contact List Menu.

IP Address: Once the device number is set, it will be automatically displayed.



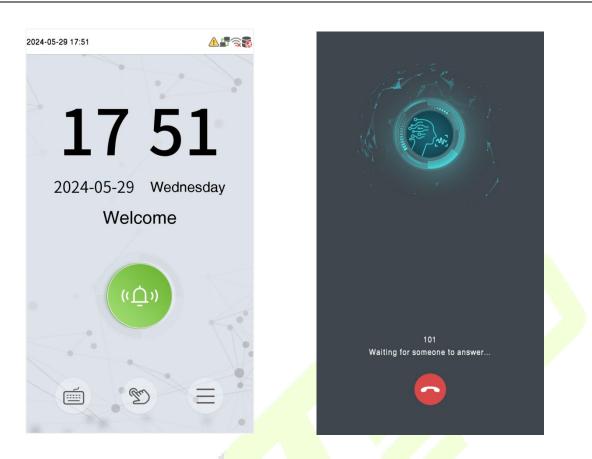
2. Then you can tap the icon on the SpeedPalm-V5L and tap the calling shortcut keys to call the indoor station.



Direct Calling

 On the SIP Settings interface, tap on [Calling Shortcut Settings] > [Call Mode] > [Direct Calling Mode] > [Add]. Select the IP addresses of the indoor stations that you want to call, then the indoor stations will be displayed in the list.

		5	Calling Shortcut Setting	js		5	Add	
		Call Mode		Direct Calling Mode		192.168.1.101		
		Add				192.168.1.102		
		Call Address		192.168.1.101		192.168.1.103		
						192.168.1.104		
						192.168.1.105		
2.	Then y	ou can ta	p the 💻 icoi	n on the Spe	edPalm-V5	5L to call the ind	oor stations at the sa	me time.



11.1.2 SIP Server

1. On the **SIP Settings** interface, tap on [**Local Settings**] > [**SIP Server**] to enable it, enter the serverrelated parameters, as shown below:

5	Local Settings	
SIP Server		
Master Account Setti	ngs	
Backup Account Sett	ings	
Device Type		Entrance Station
Local Information		

2. After correctly setting up the SIP, a green dot will appear in the upper right corner of the call page, indicating that the SpeedPalm-V5L is connected to the server. You can then initiate a call to the account name of the indoor station."

Note: Customers create their own SIP server.





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.

ccess Control Terminal:	Time Attendance Terminal:		
Access Control	5	Access Control	
Access Control Options	C	Access Control Options	
Time Rule Settings	٢	Time Schedule	
📯 Holidays	•	Holidays	
Combined Verification		Access Groups	
Anti-passback Setup	6	Combined Verification	
Duress Options	±	Anti-passback Setup	
		Duress Options	

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.

Password/Card/Face.

1

None

In

Out

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.

Access Control Terminal:

Access Control Option	ons		Access Control	Options
Gate Control Mode	\bigcirc		Gate Control Mode	
Door Lock Delay(s)	5		Verification Mode	P
Door Sensor Delay(s)	15		Door Available Time Period	
Door Sensor Type	None		Normal Open Time Period	
Verification Mode	Password/Card/Face		Master Device	
Door Available Time Period	1		Slave Device	
Normal Open Time Period	None		Auxiliary Input Configuration	
Master Device	In		Speaker Alarm	
Slave Device	Out	\wedge	Reset Access Settings	
Auxiliary Input Configuration				
Speaker Alarm	\bigcirc			
Reset Access Settings				

Function Name	Description	
Gate Control Mode	It toggles between ON or OFF switch to get into gate control mode or not. When set to ON , the interface removes the Door lock relay, Door sensor relay, and Door sensor type options.	
Door Lock Delay (s)	The length of time that the device controls the electric lock to be in unlock state. Valid value: 1~99 seconds; 0 seconds represents disabling the function.	
Door Sensor Delay (s)	 (s) If the door is not locked and is left open for a certain duration (Door Sensor Dela an alarm will be triggered. The valid value of Door Sensor Delay ranges from 1 to 255 seconds. 	
Door Sensor Type	There are three Sensor types: None, Normal Open(NO), and Normal Closed(NC). None: It means the door sensor is not in use. Normally Open(NO): It means the door is always left open when electric power is on. Normally Closed(NC): It means the door is always left closed when electric power is on.	
Verification Mode	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.	

Door Available Time Period	It sets the timing for the door so that the door is accessible only during that period.	
Normal Open Time Period	It is the scheduled time-period for "Normal Open" mode so that the door is always open during this period.	
Master Device	While configuring the master and slave devices, you may set the state of the master as Out or In .	
	Out : A record of verification on the master device is a check-out record.	
	In: A record of verification on the master device is a check-in record.	
	While configuring the master and slave devices, you may set the state of the slave as Out or In .	
Slave Device	Out : A record of verification on the slave device is a check-out record.	
	In: A record of verification on the slave device is a check-in record.	
Auxiliary Input Configuration	Sets the door unlock time period and auxiliary output type of the auxiliary terminal device. Auxiliary output types include None, Trigger door open, Trigger Alarm, Trigger door open and Alarm.	
Speaker Alarm	It transmits a sound alarm or disassembly alarm from the local. When the door is closed or the verification is successful, the system cancels the alarm from the local.	
Reset Access Setting	The access control reset parameters include door lock delay, door sensor delay, door sensor type, verification mode, door available time period, normal open time period, master device, and alarm. However, erased access control data in Data Mgt. is excluded.	

Time Attendance Terminal:

5	Access Control Options	
Door Lock [Delay(s)	10
Door Senso	or Delay(s)	10
Door Senso	or Type	Normal Close(NC)
Door Alarm	Delay(s)	30
Retry Time	s to Alarm	3
Normal Clo	se Time Period	None
Normal Ope	en Time Period	None
Auxiliary In	put Configuration	
Valid Holid	ays	
Speaker Ala	arm	\bigcirc
Reset Acce	ss Settings	

Function Name	Description	
Door Lock Delay (s)	The length of time that the device controls the electric lock to be in unlock state.	
	Valid value: 1~10 seconds; 0 seconds represents disabling the function.	
Door Sensor Delay (s)	If the door is not locked and is left open for a certain duration (Door Sensor Delay), an alarm will be triggered.	
	The valid value of Door Sensor Delay ranges from 1 to 255 seconds.	
	There are three Sensor types: None, Normal Open(NO), and Normal Closed(NC).	
	None: It means the door sensor is not in use.	
Door Sensor Type	Normally Open(NO): It means the door is always left open when electric power is	
	on. Normally Closed(NC): It means the door is always left closed when electric power is on.	
Door Alarm Delay(s)	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).	
Retry Times to 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.	
Normal Close Time Period	It is the schedul <mark>ed time-period for "Normal Close" mod</mark> e so that the door is always close during this period.	
Normal Open Time Period	It is the scheduled time-period for "Normal Open" mode so that the door is always open during this period.	
Auxiliary Input Configuration	Sets the door unlock time period and auxiliary output type of the auxiliary terminal device. Auxiliary output types include None, Trigger door open, Trigger Alarm, Trigger door open and Alarm.	
Valid Holidays	To set if Normal Close Time Period or Normal Open Time Period settings are valid in set holiday time period. Choose [ON] to enable the set NC or NO time period in holiday.	
Speaker Alarm	It transmits a sound alarm or disassembly alarm from the local. When the door is closed or the verification is successful, the system cancels the alarm from the local.	
Reset Access Setting	The access control reset parameters include door lock delay, door sensor delay, door sensor type, verification mode, door available time period, normal open time period, master device, and alarm. However, erased access control data in Data Mgt. is excluded.	

12.2 Time Rule Settings/ Time Schedule

Tap [Time Rule Settings] / [Time Schedule] on the Access Control interface to configure the time settings.

- The entire system can define up to 50 Time Periods.
- Each time-period represents **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 timeperiods 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).

5	ime Rule[2/50]
Sunday	[00:00 23:59] [00:00 23:
Monday	[00:00 23:59] [00:00 23:
Tuesday	[00:00 23:59] [00:00 23:
Wednesday	[00:00 23:59] [00:00 23:
Thursday	[00:00 23:59] [00:00 23:
Friday	[00:00 23:59] [00:00 23:
Saturday	[00:00 23:59] [00:00 23:
holiday type 1	[00:00 23:59] [00:00 23:
holiday type 2	[00:00 23:59] [00:00 23:
holiday type 3	[00:00 23:59] [00:00 23:
	Q

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

5		Time P	eriod 1		
		00:00	23:59		
	00	00	23	59	
		\mathbf{v}		-	
	НН	ММ	НН	ММ	
	Confirm (O	K)	Ca	incel (ESC)	

Specify the start and the end time, and then tap [OK].

Note:

- The door is inaccessible for the whole day when the End Time occurs before the Start Time (such as 23:57~23:56).
- It is the time interval for valid access when the End Time occurs after the Start Time (such as 08:00~23:59).
- 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**).
- 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.

5	Holidays
Add Holiday	
All Holidays	

Add a New Holiday

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

5	Holidays
No.	1
Date	Undefined
Holiday Type	holiday type 1
Repeats Every Year	

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 Access Groups

Grouping is to manage users in groups, only for time attendance terminal.

The default time zone for group members is the group time zone, while users can set their personal time zone. When the group verification mode and the user verification mode overlap, the user verification mode takes priority. Each group can set a maximum of 3 time zones; as long as one of them is valid, the group can be successfully verified. The newly enrolled user is assigned to Access Group 1 by default, but can be assigned to another access group.

Tap [Access Groups] on the Access Control interface.

5	Access Groups
New Group	
All Groups	

Add a New Holiday

Tap [New Group] on the Access Group interface.

5	Access Groups
No.	2
Verification Mod	e Password/Card/Face
Time Period 1	1
Time Period 2	0
Time Period 3	0
Include Holiday	\bigcirc

- 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.
- Edit Group

On the **All Group** interface, tap to select the access group item to be modified. Tap [**Edit**] to modify group parameters.

Delete a Group

On the **All Group** interface, select a access group item to be deleted and tap [**Delete**]. After deletion, this group does not display on the **All Group** interface.

12.5 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 $0 \le N \le 5$ 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.

5	Combined Verification
1	01 00 00 00 00
2	00 00 00 00 00 00
3	00 00 00 00 00
4	00 00 00 00 00
5	00 00 00 00 00
6	00 00 00 00 00 00
7	00 00 00 00 00
8	00 00 00 00 00
9	00 00 00 00 00 00
10	00 00 00 00 00
	Q

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.

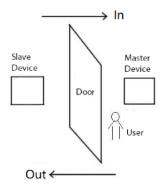
Note: To delete the door-unlock combination, set all Door-unlock combinations to 0.

12.6 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.

Anti-passback	Setup	5	Anti-passback Direction
Anti-passback Direction	No Anti-passback	۲	No Anti-passback
Device Status	Out	0	Out Anti-passback
Slave Device	In	0	In Anti-passback
		0	In/Out Anti-passback

Function Name	Description
	No Anti-passback: 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.
Anti nasshask	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.
Anti-passback Direction	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.
Device Status	Set the device to in/out/none. Note: This function only for Time Attendance Terminal.
Slave Device	Set the slave device to in/out/none. Note: This function only for Time Attendance Terminal.

12.7 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.

Access Control Terminal:

Duress Options Alarm on Password Alarm Delay(s) 10 Duress Password None

Time Attendance Terminal:

5	Duress Options		
Alarm on F	assword		
Alarm Dela	ay(s)	10	

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

Access Control Terminal:

Attendance Search	Attendance Search
Event Logs	Attendance Record
Attendance Photo	Attendance Photo
8 Blocklist ATT Photo	Blocklist T&A Photo

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**] / [**Attendance Record**] to search for the required record.

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

	5	Use	r ID		5	Time Range
	Pleas	e Input(query a	ll data without	input)	۲	Today
					\bigcirc	Yesterday
					\bigcirc	This week
					\bigcirc	Last week
ł					0	This month
					\bigcirc	Last month
ļ					0	All
					0	User Defined
	1	2	3	$\overline{\mathbf{X}}$		
	4	5	6	^		
	7	8	9	\sim		
	ESC	0	123	ОК		

3. Once the record search completes. Tap the record highlighted in green to view its details.

5		nal Record Search	C
Date	User ID	Time	User
2-08	<u>_</u>	Number of Records:05	2
0.07	0	08:16 08:16 06:19 06:18 06:1≀ Number of Records:48	2
2-07	0	15:05 15:05 13:41 13:41 13:31	
	0	13:30 13:29 13:28 13:27 13:27	
		13:27 13:27 13:26 13:26 13:26 13:28	
		13:25 12:26 12:26 10:54 10:54	
		10:50 10:50 10:50 10:49 10:25	
		10:28 10:28 10:27 10:26 10:26	
		09:09 09:09	
	1	15:00 14:59 14:55 14:55 14:55	
		14:24 14:24 14:24 14:24 14:24	
		14:24 14:24 14:23 14:23 12:26	
		12:21	
			Verit
			V CIT

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

Jobs 05-31 14:26	Jobs 05-31 14:26	Jser ID	Name	Time
		2		
		2		

14 Autotest

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

Tap [Autotest] on the Main Menu interface.

Ć	Autotest	
	Test All	
Ţ	Test LCD	
9	Test Voice	
	Microphone Test	
	Cam Test	
₩	Palm Test	
4	Test Clock RTC	

Function Name	Description
Test All	To automatically test whether the LCD, audio, camera and RTC are normal.
Test LCD	To automatically test the display eff <mark>ect of L</mark> CD screen by displaying full-color, pure white, and pure black to check whethe <mark>r the s</mark> creen displays colors normally.
Test Voice	To automatically test whether the audio files stored in the device are complete and the voice quality is good.
Microphone Test	To test if the microphone is working properly by speaking into the microphone.
Camera Test	To test if the camera functions properly by checking the pictures taken to see if they are clear enough.
Palm Test	To test if the camera functions properly by checking the pictures taken to see if they are clear enough.
Test Clock RTC	To test the RTC. The device tests whether the clock works normally and accurately with a stopwatch. Touch the screen to start counting and press it again to stop counting.

15 System Information

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

Tap [System Info] on the Main Menu interface.

Function Name	Description			
Device Capacity	Displays the current device's user storage, password, palm, face and card storage administrators, T&A Record/attendance records, T&A Photo/attendance are blocklist photos, and Profile photos.			
Device Info	Displays the device's name, serial number, MAC address, face algorithm, platform information, and manufacturer and manufacture date.			
Firmware Info	Displays the firmware version and other version information of the device.			
Privacy Policy	The privacy policy control will appear when the gadget turns on for the first time. After taping "I have read it," the customer can use the product regularly. Tap System Info -> Privacy Policy to view the content of the privacy policy. The privacy policy's content does not allow for U disc export. Note: The current privacy policy's text is only available in Simplified Chinese/English. However, translation of other multi-language content is underway, with more iterations.			

16 Connect to ZKBio Time Software

16.1 Set the Communication Address

1. Tap [COMM.] > [Ethernet] in the Main Menu to set the IP address and gateway of the device.

(**Note:** The IP address should be able to communicate with the ZKBio Time server, preferably in the same network segment with the server address)

2. In the Main Menu, tap [COMM.] > [Cloud Server Settings] to set the server address and server port.

Server Address: Set the IP address as of ZKBio Time server.

Server Port: Set the server port as of ZKBio Time (The default is 8088).

Ś	Ethernet	Cloud Server Settings	
		_	
Display in Status Bar		Server Mode	A
IPv4		Enable Domain Name	C
IP Address	192.168.163.99	Server Address	4.194.2
Subnet Mask	255.255.255.0	Server Port	
Gateway	192.168.163.1	Enable Proxy Server	C
DNS	0.0.0.0		
DHCP	\bigcirc		

16.2 Add Device on the Software

Add the device by searching. The process is as follows:

- 1. Click [**Device**] > [**Device**] > [**Add**], to add the device on the software.
- 2. A new window pops-up on clicking [Add]. Enter the required information about the device and click [Confirm], then the added devices are displayed automatically.

ZKTecc	Personnel	Device Attendant	ce Access	Control Payroll	Visitor Mee	eting MTD	Syste				Δ0 🙆
\$ Q	I Device										
🚳 Device	🔺 🖉 Bookmarks 👻	▼ Filters ►									
	Add Delete			Data Clean Data Transfer	Device Menu					1 2) II 🕈 🗄
Device Command	Device Name 🌩	Serial Number 👙 🕺 Ad	d				×	Palm Qty.	Transaction Qty.	Cmd	
	GT800-016	5199204660016	Device Name*	E Face10	Enable Access Control*	Yes	*	0	0	0	a
	Auto add	5458183900018	Serial Number*	669021300*****	Device IP*	192.168.163.99		0	7	0	a
🛢 Data	Auto add	5678912311410						0	0	0	a
	hours	5797193100024	Area	TEST 🐨	Timezone*	Etc/GMT+8	*	0	61	0	a
	E Face10	6690210300005	Attendance Device*	Yes 👻	Registration Device*	No	Ψ.	-		2	a
	Auto add	A3B7192060001	Request Heartbeat*	10 Seconds	Transfer Mode*	Real-Time	-	0	0	0	a
Geo-fence	Auto add	ADWZ192060001						0	1	0	a
	Auto add	CGFD192960001						0	13	0	a
	Auto add	CGKN204860001						-		0	a
	Auto add	CIZW204060009						0	298	0	a
	Auto add	CIZW204360004						0	0	0	a
	Auto add	CKVS202060033				Confirm	Creat	0	2	0	C 💼
	Auto add	CLMY203560002				Confirm	Cancel	0	0	0	a

16.3 Add Personnel to the Software

1.	Click [Personn	el] > [Employ	ee] >	[Add]:
----	----------------	-----------------	--------	---------------	-----------------

ofile						
Employee ID*	18259606107	First Name				
Department*		Last Name				
Position		Area*				
1						
nployment Type			2021-01-26 op Setting Payroll Settings	Custom Attribute		
				Custom Attribute		
ivate Information		Attendance Setting Ap		Gender	·	
ivate Information		Attendance Setting Ap			· · · · · · · · · · · · · · · · · · ·	
ivate Information		Attendance Setting Ap		Gender		
ivate Information SSN Passport NO.		Attendance Setting Ap Local Name Automobile License		Gender Motorcycle License		
ivate Information SSN Passport NO. Contact Tel		Attendance Setting Ap Local Name Automobile License Office Tel		Gender Motorcycle License Mobile		

- 2. Fill in all the required fields and click [**Confirm**] to register a new user.
- Click [Device] > [Device] > [Data Transfer] > [Sync Data to Device] to synchronize all the data to the device including the new users.

Note: For other specific operations, please refer to ZKBio Time User Manual.

17 Connect to ZKBio CVAccess Software

17.1 Set the Communication Address

Device Side

1. Tap [COMM.] > [Ethernet] in the Main Menu to set the IP address and gateway of the device.

(**Note:** The IP address should be able to communicate with the ZKBio CVAccess server, preferably in the same network segment with the server address)

2. In the **Main Menu**, tap [**COMM.**] > [**Cloud Server Settings**] to set the server address and server port.

Server Address: Set the IP address as of ZKBio CVAccess server.

Server Port: Set the server port as of ZKBio CVAccess (The default is 8088).

5	Ethernet		S Cloud	Server Settings
Display in Status Bar			Server Mode	ADMS
IPv4				
IP Address	192.168.163.99		Enable Domain Name	
Subnet Mask	255.255.255.0	\wedge	Server Address	192.168.1.220
Gateway	192.168.163.1		Server Port	8088
DNS	0.0.0.0		Enable Proxy Server	\bigcirc
DHCP	\bigcirc			

Software Side

Login to ZKBio CVAccess software, click [**System**] > [**Communication**] > [**Communication Monitor**] to set the ADMS service port, as shown in the figure below:

System / Communication m	anagement / Communication Monitor	
Adms Service Set	tings	Adms Service Settings Server Side Network Condition
	Adms Service Port	
	8881	
	The current port is for device communication service, if there is a network mapping for the service port, please refer to the actual mapped port.	
	Project control file version	
	None	
	Turn on encrypted transmission	
*	○ No ● Yes	

17.2 Add Device on the Software

Add the device by searching. The process is as follows:

- 1. Click [Access] > [Device] > [Search Device], to open the Search interface in the software.
- 2. Click [Search], and it will prompt Searching......
- 3. After searching, the list and total number of access controllers will be displayed.

Access / Access Device / Device	
Device Name Serial Number IP Address More * Q	
C Refresh ∓ New 直 Delete 全 Export 🔍 Search) 團 Control ▾ ⑳ Set up ▾ 톱 View / Get ▾ 오 Communication ▾	
Search	×
Search No device found? Download Search Tools to Local Disk	
Total Progress 100% Searched devices count 1	
IP Address Device Type Serial Number	
IP Address MAC Address Subnet Mask Gateway Add Serial Number Device Type Set Server Operations	
192.168.137.32 255.255.0 192.168.137.1 7273212700020 SpeedPalm-V5L Add	
"	
The current system communication port is 8881, please make sure the device is set correctly.	
Close	

4. Click [**Add**] in the operation column, and a new window will pop-up. Select lcon type, Area, and Add to Level from each dropdown and click [**OK**] to add the device.

17.3 Add Personnel to the Software

1. Click [Personnel] > [Person] > [New]:

			New			×
Personnel ID* First Name Gender Certificate Type Birthday Hire Date Device Verification Password Biometrics Type Enable app login	2842	· ·	Department* Last Name Mobile Phone Certificate Number Email Position Name Card Number	Department Name		Image: Second
Levels Settings	Fime Attendance	Personnel Detail	② Extension③ Acc	eruser rice Operation Role end Passage less Disabled Valid Time	No Ordinary User	-
		Save and New	ОК	Cancel		

- 2. Fill in all the required fields and click [OK] to register a new user.
- Click [Attendance] > [Attendance Device] > [Device Control] > [Synchronize All Data to Devices] to synchronize all the data to the device including the new users.

Note: For other specific operations, please refer to *ZKBio CVAccess User Manual*.

18 Connect to ZKBio CVSecurity Software

18.1 Set the Communication Address

Device Side

1. Tap [COMM.] > [Ethernet] in the Main Menu to set the IP address and gateway of the device.

(**Note:** The IP address should be able to communicate with the ZKBio CVSecurity server, preferably in the same network segment with the server address)

2. In the **Main Menu**, tap [**COMM.**] > [**Cloud Server Settings**] to set the server address and server port.

Server Address: Set the IP address as of ZKBio CVSecurity server.

Server Port: Set the server port as of ZKBio CVSecurity (The default is 8088).

☆ Ethernet		5	Cloud Server Settings
Display in Status Bar		Server Mode	ADM
IPv4		Enable Domain	Name
IP Address	192.168.163.99	Server Address	s 4.194.26.13
Subnet Mask	255.255.255.0	Server Port	808
Gateway	192.168.163.1	Enable Proxy S	Server
DNS	0.0.0.0		
DHCP	\bigcirc		

Software Side

Login to ZKBio CVSecurity software, click [System] > [Communication Management] > [Communication Monitor] to set the ADMS service port, as shown in the figure below:

ZKBio CVSecurity	::: ¥	😫 admin 🗸			
🚱 System Management >	System / Communication management / Communication Monitor				
Authority Management >	Adms Service Settings	Adms Service Settings Server Side Network Condition			
© Communication mana v	Adms Service Port				
Device Commands	8088				
Communication Device	The current port is for device communication service, if there is a networ service port, please refer to the actual mapped port.	rk mapping for the			
Product	Project control file version				
Authorized device	None				
Communication Monitor	Turn on encrypted transmission				
	🔿 No 💿 Yes				
	<u>j</u>				
Server Side Network Condition					
	Whether the Internet connection is normal				
	Yes				

18.2 Add Device on the Software

Add the device by searching. The process is as follows:

- 1. Click [Access] > [Device] > [Search Device], to open the Search interface in the software.
- 2. Click [Search], and it will prompt Searching......
- 3. After searching, the list and total number of access controllers will be displayed.

	Search						
Search	No device found? Down	load Search Tools to	Local Disk				
Total Progress	100%	5		hed devices count:1 er of devices added:1	r.		
IP Address	Dev	ісе Туре	Serial N	lumber		\otimes	
IP Address	MAC Address	Subnet Mask	Gateway Add	Serial Number	Device Type	Set Server	Operations
192.168.1.201		255.255.255.0	192.168.1.1	1000	ProMA		This device has bee
A The current s	ystem communication por	t is 8088, please make si	ure the device is set	correctly.			
Close							

4. Click [**Add**] in the operation column, and a new window will pop-up. Select lcon type, Area, and Add to Level from each dropdown and click [**OK**] to add the device.

18.3 Add Personnel to the Software

1. Click [Personnel] > [Person] > [New]:

			New		×
Personnel ID* First Name Gender Certificate Type Birthday Hire Date Device Verification Password Biometrics Type Access Control Levels Settings General	Image: Second	vator Control	⑦ Extend ⑦ Acces	Deparement Name	Browse Capture
Add St	elect All Unsele	ct All			
	Save	and New	ОК	Cancel	

- 2. Fill in all the required fields and click [**OK**] to register a new user.
- 3. Click [Access] > [Access Device] > [Device Control] > [Synchronize All Data to Devices] to synchronize all the data to the device including the new users.

Note: For other specific operations, please refer to *ZKBio CVSecurity User Manual*.

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Appendix 1

Requirements of Live Collection and Registration of Visible Light Face

Templates

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



Image1 Face Capture Area

Requirements for Visible Light Digital Face Template Data

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

• Eye Distance

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

Facial Expression

Plain face or smile with eyes naturally open are recommended.

Gesture and Angel

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

Accessories

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

Face

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

Image Format

Should be in BMP, JPG or JPEG.

Data Requirement

Should comply with the following requirements:

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

Appendix 2

Privacy Policy

Notice:

To help you better use the products and services of ZKTeco 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. <u>If you do not agree to the relevant agreement or any of its</u> 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.

- 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 <u>https://www.zkteco.com/cn/index/Index/privacy_protection.html</u> 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/Toxic Substance/Element							
Component Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr6+) Polybrominat Biphenyls (PB		Polybrominated Diphenyl Ethers (PBDE)		
Chip Resistor	×	0	0	0	0	•		
Chip Capacitor	×	0	0	0	0	0		
Chip Inductor	×	0	0	0	0	0		
Diode	×	0	0	0	0	0		
ESD component	×	0	0	0	0	0		
Buzzer	×	0	0	0	0	0		
Adapter	×	0	0	0	0	0		
Screws	0	0	0	×	0	0		

Hazardous or Toxic substances and their quantities

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

 \times 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.

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