

# **USER MANUAL** Applicable Models: G4L

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#### 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 **G4L** product.

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

## Symbols

Convention	Description
	This implies about the notice or pays attention to, in the manual
<b>?</b> V	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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# 1 Safety Measures

The following precautions are to keep the user's safety and prevent any damage. Please read carefully before installation.

- 1. **Read, follow, and retain instructions** All safety and operational instructions must be properly read and followed before bringing the device into service.
- 2. **Do not ignore warnings** Adhere to all warnings on the unit and in the operating instructions.
- 3. Accessories Use only manufacturer-recommended or product-sold accessories. Accessories not recommended by the manufacturer must not be used.
- 4. **Precautions for the installation** Do not place this device on an unstable stand or frame. It may fall and cause serious injury to persons and damage to the device.
- 5. **Service** Do not try to service this unit yourself. Opening or removing covers may expose you to hazardous voltages or other hazards.
- 6. **Damage requiring service** Disconnect the system from the main AC or DC power source and refer service personnel under the following conditions:
  - When cord or connection control is affected.
  - When the liquid was spilled, or an item dropped into the system.
  - If exposed to water and/or inclement weather (rain, snow, and more).
  - If the system is not operating normally under operating instructions.

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

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

The devices should be installed in areas with limited access.

# 2 Overview

Our G4L Device facilitates users to access the cloud features, which includes data collection, storage, and analysis. This benefits the organization to store the Bio template information on the cloud server, and the data can be retrieved whenever required. This product of ours provides end to end solutions, and the cloud technology benefits to maintain updates and monitor the data on the cloud in real-time.

This product can be used for both Access Control and Attendance System, which is cloud-based. Our goal is to make a unique platform, with hardware and software services at a very low cost, and at the same time, support development by providing access via different platforms like mobile and web.

## <u>Scope</u>

- Sync with Bio Cloud Software
- Easy Access
- Easy Integration
- Multi-Level Data Encryption and Protection
- Quick Deployment and Setup

# 3 Instruction for Use

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

# 3.1 Finger Placement

- Recommended fingers are index, middle, or ring fingers.
- Avoid using the thumb or pinky, as they are difficult to accurately press onto the fingerprint reader.

#### **Correct and Incorrect Finger Placement**

#### **Recommended**

- Place the finger on the Scanning Area and press it onto the Fingerprint Reader.
- Ensure that the center of your finger is aligned with the center of the Fingerprint Reader.

#### **Diagrammatic Representation**



Proper finger placement on the Fingerprint Reader

#### Not Recommended

Incorrect ways of pressing the finger on the Fingerprint Reader.



# Note:

- It is recommended to use the proper finger placement during Enrollment and Verification process.
- Our company will assume no liability for recognition issues that may result from incorrect usage of the product. We reserve the right of final interpretation and modification concerning this point.

# 3.2 Standing Position, Facial Expression and Standing Posture

#### **Recommended Distance**



The distance between the device and the user (whose height is within 1.55m to 1.85m) is recommended to be 1.5m. Users may slightly move forward and backward to improve the quality of the captured facial images.

**Recommended Facial expression** 



#### **Recommended Standing postures**



**Note:** During enrollment and verification, it is recommended to maintain natural facial expression and standing posture.

# 3.3 Face Registration

During registration, it is recommended to face the camera and stay still to the center of the device screen as shown below.



# 3.4 Standby Interface

After connecting the power supply, the Device displays the following standby interface.





• If the Super Administrator access is not set in the Device, tap on

button to go to the menu.

- If the Super Administrator is set in the Device, then it requires the Super Administrator's verification to go to the menu functions.
- For the security of the Device, it is recommended to register Super Administrator access for the first time you use the Device.

• The Device punch state can be set directly by using the screen shortcut keys.



- Tap anywhere on the screen (without tapping on the icons), to view the six punch state options as shown on the right image.
- Press the corresponding shortcut key to select the current punch state, which is shown in green. Please refer to "<u>7.5 Shortcut Key Mappings</u>" below for the specific operation method.

# 3.5 Virtual Keyboard



# - Note:

This device supports Chinese, English, numbers, and symbols.

- Tap [EN] to switch to the English keyboard;
- Tap [123] to switch to the numbers and symbols keyboard;
- Tap [**ABC**] to return to the alphabet keyboard.
- Tap on the input box for virtual keyboard.
- Tap [**ESC**] to exit the input.

# 3.6 Verification Mode

The Biometric matching process can be categorized as, One-to-many or "Identification" (1:N), and one-to-one or "Verification" (1:1). Below is a description of each matching type and how its features are described.

#### **1:N Identification Process**

A one-to-many (1:N) biometric identification process instantly compares the person's captured biometric template against ALL stored biometric templates in the system.

#### **1:1 Verification Process**

1:1 biometric verification process authenticates a person's identity by comparing the captured biometric template with a biometric template of that person pre-stored in the database.

## 3.6.1 Fingerprint Verification

#### **<u>1: N fingerprint Identification Process</u>**

Successful Verification

- This method compares the fingerprint that is being pressed and scanned onto the fingerprint reader with all of the fingerprint data that is stored in the device.
- Once the user presses his/her finger on the fingerprint scanner the device will go to the fingerprint authentication mode. It is essential to follow the proper way to place the finger on the fingerprint sensor.



#### **Failed Verification**

#### 1: 1 Fingerprint Verification Process

- This method compares the fingerprint that is being pressed onto the fingerprint reader with the fingerprints that are linked to the specific User ID input via the virtual keyboard.
- Users may try verifying their identities with 1:1 verification mode when they are not able to access with 1: N authentication process.
- On the Main screen, tap on button to go to the 1:1 fingerprint verification mode.
- On the screen, enter the user ID and tap **OK**.



- If the user has registered face and password in addition to the fingerprint, then the verification method is set to fingerprint/ password/ face verification and the below screen will appear in the Device.
- Tap on fingerprint icon to go to the fingerprint verification mode and press the fingerprint to verify.



**Successful Verification** 



G4L

**Failed Verification** 

# 3.6.2 Password Verification

- This method compares the entered password with the registered User ID and password.
- On the Menu screen, tap on button to go to the 1:1 password verification mode.
- On the input screen, enter the user ID and press **OK**.



- If the user has registered face and fingerprint in addition to the password, then the verification method is set to fingerprint/ password/ face verification and the below screen will appear in the Device.
- Tap on I the button to go to the password verification mode, then enter the password, and then tap **OK**.



#### **Successful Verification**



#### **Failed Verification**



# 3.6.3 Facial Verification

#### **1:N Face Identification**

- This method compares the acquired facial images with all the face data registered in the device.
- The following is the prompt message of the comparison result.



## 1:1 Face Verification

- This method compares the face captured by the camera with the facial template related to the entered user ID.
- On the main interface, tap on

the button to go to the 1:1 facial verification mode.



15:41					
1					
1	2	2	$\overline{\mathbf{x}}$		
1	2	3			
4	5	6	^		
7	8	9	$\sim$		
ESC	0	123	ОК		

- Enter the user ID and click **OK**.
- If the user has registered password and fingerprint in addition to face, then the verification method is set to fingerprint/ password/ face verification and the below screen will appear in the Device.
- Tap on 🖤 the button to go to the face verification mode.
- If the user has registered face and fingerprint in addition to the password, then the verification method is set to fingerprint/ password/ face verification and the below screen will appear in the Device.
- Tap on I the button to go to the password verification mode, then enter the password, and then tap **OK**.





After successful verification, the prompt message "successfully verified" will be displayed.

If the verification is failed, the prompt message "Please adjust your position!" will be displayed.

## 3.6.4 Combined Verification

To increase the security, this device provides the option of using multiple forms of verification mode. In this Device, a total of 11 different verification combinations can be used.

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 template previously stored to that Personnel ID in the Device.	

#### **Combined Verification Symbol Definition**

5	Verification Mode	1=	1=
	Password/Fingerprint/Badge/Face		
0	Fingerprint only		
0	User ID only		
0	Password		
0	Badge only		
0	Fingerprint/Password		
$\bigcirc$	Fingerprint/Badge		
0	User ID+Fingerprint		
0	Fingerprint+Password		
$\bigcirc$	Fingerprint+Badge		
0	Fingerprint+Password+Badge		
0	Password+Badge		

#### Procedure to set for Combined Verification Mode

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

# 4 Main Menu

- On the **Standby** interface, tap on 📃 button to go to the **Main Menu**:
  - 5 Main Menu e. User Mgt. User Role COMM. System ••• 3 · Access Control USB Manager Personalize Data Mgt. = </> Attendance Search Short Message Work Code Autotest System Info

#### Menu Operations

Menu	Descriptions				
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, to set the access rights to operate the system.				
сомм.	To set the relevant Network parameters, PC connection, Cloud Server and Wiegand details.				
System	To set parameters related to the system, including date & time, attendance/access logs setting, face, fingerprint parameters, reset to factory and USB upgrade.				
Personalize	To customize settings of interface display, voice, bell, punch state options and shortcut key.				
Data Mgt.	To delete all relevant data in the device.				
Access Control	To set the parameters of the lock and the relevant access control device.				
USB Manager	To upload or download specific data from a USB drive.				
Attendance Search	Query the specified attendance record, check attendance photos and blacklist photos.				
Short Message	Add/check/edit/delete public and personal messages. Set options.				
Work Code	To mark different work categories, facilitating user attendance check.				
Autotest	To automatically test whether each module functions properly, including the LCD, voice, fingerprint sensor, camera and clock RTC.				
System Info	To view data capacity, device and firmware information of the current device.				

# 5 User Management

# 5.1 User Registration

• On the Main menu, tap User Mgt., and then tap New User to add a new User.



Ś	User N	∕lgt.	
<b>£</b> *	New User		
<b>.</b>	All Users		
۲	Display Style		

## 5.1.1 User ID and Name

• On the New User interface, enter the User ID and Name.

		1		
5	User Mgt.		5	New User
<b>£</b> *	New User		User ID	3
<b>1</b>	All Users		Name	
8	Display Style		User Role	Normal User
			Fingerprint	0
			Face	0
			Badge Number	
			Password	
			User Photo	0
			Access Control Role	

#### Notes:

- A user name can contain 17 characters.
- The user ID can contain 1-9 digits by default.
- During the initial registration, you can modify your ID, which cannot be modified after registration.
- If a message "Duplicated ID" pops up, it is recommended to choose another User ID.

## 5.1.2 User Role

- On the New User interface, tap on **User Role** to set the role for the user as either **Normal User** or **Super Admin**.
- Super Admin: The Super Administrator owns all management privileges in the Device.
- **Normal User:** If the Super Admin is already registered in the Device, then the Normal Users will not have the privileges to manage the system and can only access authentication verifications.
- User Defined Roles: The Normal User can also be set with User Defined Role which are the custom roles that can be set to the Normal User.

		1		
S New L	lser	_	5	User Role
User ID	3		۲	Normal User
Name			0	User Defined Role 1
User Role	Normal User		0	Super Admin
Fingerprint	0			
Face	0			
Badge Number				
Password				
User Photo	0			
Access Control Role				

**Note:** If the selected user role is the Super Admin, then only the Super Admin can provide the identity authentication to access the Main Menu. The authentication is based on the <u>verification</u> method(s) that the Super Administrator has registered.

## 5.1.3 Fingerprint

- On the **New User** interface, tap on **Fingerprint** to go to the fingerprint registration page.
- On the **Enroll Fingerprint** interface, select the finger to be enrolled.

S New User		5 Enroll Fingerprint	
User ID	3		
Name			
User Role Norm	al User		
Fingerprint	0		
Face	0		
Badge Number			9
Password			
User Photo	0		
Access Control Role			
		Please select the finger to be enrolled	

- After the selecting the required finger, press the same finger on the fingerprint reader three times.
- Green indicates that the fingerprint was enrolled successfully.



## 5.1.4 Face

- On the **New User** interface, tap on **Face** to enter the face registration page.
- During the Face registration process, the user should look the camera and stay still as shown below.

5	New User	
User ID	3	
Name		
User Role	Normal User	
Fingerprint	0	
Face	0	
Badge Number		
Password		
User Photo	0	
Access Control Role		



## 5.1.5 Badge Number

- On the **New User** interface, tap on **Badge Number** to go to the badge number registration page.
- On the **Enroll Badge Number** interface, the user should swipe the badge on the IC card reader to register the card number.

5 N	ew User
User ID	3
Name	
User Role	Normal User
Fingerprint	0
Face	0
Badge Number	
Password	
User Photo	0

5	Enroll Badge Number	
	Please swipe badge	

## 5.1.6 Password

- On the **New User** interface, tap on **Password** to go to the password registration page.
- On the Password interface, enter the required password and re-enter to confirm it and tap **OK**.
- If the re-entered password is different from the initially entered password, then the device prompts the message as "Password not match", where the user needs to re-confirm the password again.

S New User				Pass	sword	
User ID	3		*			
Name		× .				
User Role	Normal User					
Fingerprint	0					
Face	0					
Badge Number						
Password						
User Photo	0					
Access Control Role			1	2	3	$\otimes$
			4	5	6	^
			7	8	9	$\sim$
			ESC	0	123	ОК

Note: The password can contain 1 to 8 digits by default.

# 5.1.7 User photo



• On the **New User** interface, tap on **User Photo** to go to the User photo registration page.

- When a user registered with a photo passes the authentication, the registered photo will be displayed.
- Tap **User Photo**, tap the camera button to snap a photo. The system will return to the New User interface after the photo is being clicked.

**Note:** While registering for face, the system will automatically capture the image of the user and set it as the user photo by default. Hence, even if the user did not want to register a user photo, the system will automatically set the captured picture as the default User photo.

## 5.1.8 Access Control Role

The Access Control Role sets the door access privilege for each user. This includes the access group, verification mode, fingerprint privilege and also facilitates to set the group access time-period.

• On the **New User** interface, tap on **Access Control Role** to go to the Access Control interface.

5	New User	S Access Contr	ol
User ID	3	Access Group	1
Name		Verification Mode	Apply Group Mode
User Role	Normal User	Duress Fingerprint	Undefined
Fingerprint	0	Apply Group Time Period	
Face	0		
Badge Number			
Password			
User Photo	0		
Access Control Role			

#### Set the Access Group

• On the Access Control Role, tap on Access Group to assign the registered users to different groups for better management.

 S Access Control	
 Access Group	1
Verification Mode	Apply Group Mode
Duress Fingerprint	Undefined
Apply Group Time Period	

- New users will be added to Group 1 by default, which can be reassigned to other required groups.
- The device supports up to 99 access control groups.

#### Set the Verification Mode

• On the **Access Group** interface, tap on **Verification Mode** to set the verification type for the user.

S Access C	Control		5	Verification Mode	13	=	1=
Access Group	1		$   \mathbf{O} $	Apply Group Mode			
Verification Mode	Apply Group Mode	-	0	Password/Fingerprint/Badge/Face			
Duress Fingerprint	Undefined		0	Fingerprint only			
Apply Group Time Period			0	User ID only			
		-	0	Password			
			0	Badge only			
			0	Fingerprint/Password			
			0	Fingerprint/Badge			
		$\wedge$	0	User ID+Fingerprint			
			0	Fingerprint+Password			
			0	Fingerprint+Badge			
			0	Fingerprint+Password+Badge			

• On the Verification Mode interface, select the required verification type from the list.

#### **Duress Fingerprint**

- On the Access Control Interface, tap on Duress Fingerprint to go to the duress fingerprint page.
- The user may specify one or more fingerprints to register as duress fingerprint(s). Hence, once the user presses the corresponding finger on the sensor, and if the verification is successful, then the system will immediately generate the alarm.

5	Access Control
Access Group	1
Verification Mode	Apply Group Mode
Duress Fingerprint	Undefined
Apply Group Time Per	iod
L	

#### **Apply Group Time Period**

On the **Access Control** interface, toggle on **Apply Group Time Period** to enable or disable the group time period for each access group.

Access Control				
Access Group	1			
Verification Mode	Apply Group Mode			
Duress Fingerprint	Undefined			
Apply Group Time Period				

# **5.2** Search for Users

- On the **Main** menu, tap **User Mgt.,** and then tap **All Users** to search for 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	User Mgt.	5	All Users	
	<b>1</b>	New User	1	Amy	@== ?
		All Users	2	Jack	@ E
		Display Style	3	Ella	<sup>®</sup>
			4	Tony	
1					
					Q

# 5.3 Edit User

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

Edit : 1 Amy	5 Edit : 1 A	S User : 1 Amy	5	All Users		5
	User ID	Edit	@⊟ <sup>°</sup> £ Edit	C	Amy	1
	Name	Delete	C P Delete	6	Jack	2
Normal	User Role		@	0	Ella	3
					Tony	4
	Fingerprint					
	Face					
78356	Badge Number					
**1	Password					
	User Photo					
	Access Control Role					
			Q,			

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

# 5.4 Delete User

- On **All Users** interface, tap on the required user from the list and tap **Delete** to delete the user or a 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 Fingerprint Only: Deletes the fingerprint information of the selected user.

Delete Password Only: Deletes the password information of the selected user.

Delete Card Number Only: Deletes the card number information of the selected user.

Ś	User : 2 Jack
Edit	
Delete	

5	Delete : 2 Jack
Delete User	
Delete Fingerprint Only	
Delete Password Only	
Delete Badge Number Only	
# 6 User Role

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

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

5	Main	Menu		5	User Role	
			Ø	2	User Defined Role 1	
User Mgt.	User Role	COMM.	System	2	User Defined Role 2	
3			••• •	2	User Defined Role 3	
Personalize	Data Mgt.	Access Control	USB Manager			
Attendance Search	Short Message	Work Code	Autotest			
System Info						

- 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	91
Enable Defined Ro	ble	$\bigcirc$
Name		User Defined Role 1
Define User Role		

- Then, tap on **Define User Role** and select the required privileges to assign to the new role, and then tap on the **Return** button.
- During privilege assignment, the main menu function names will be displayed on the left and its sub-menus will be listed on its right.

• First tap on the required Main Menu function name, and then select its required sub-menus from the list.

S User Defined Role 1			5	User Role	
User Mgt.	Vew User		•	Normal User	
Comm.	All Users		0	User Defined Role 1	
✓ System	✓ Display Style		0	Super Admin	
Personalize					
Data Mgt.					
Access Control					
USB Manager					
Attendance Search					
Short Message		<u> </u>			
Work Code					
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 Communication Settings

 On the Main Menu, tap COMM. to set the Ethernet, PC Connection, Cloud Server and Cloud Service parameters

5	Main	Menu		5	Comm.
			Ö		Ethernet
User Mgt.	User Role	COMM.	System	8	Serial Comm
3			••• •		PC Connection
Personalize	Data Mgt.	Access Control	USB Manager	(î•	Wireless Network
					Cloud Server Setting
Attendance Search	Short Message	Work Code	Autotest		Wiegand Setup
System Info					

## 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.

• On the **Comm.** Interface, tap **Ethernet** to configure the settings.

5	Comm.
	Ethernet
	Serial Comm
	PC Connection
<b></b>	Wireless Network
	Cloud Server Setting
	Wiegand Setup

5	Ethernet
IP Address	192.168.163.201
Subnet Mask	255.255.255.0
Gateway	0.0.0.0
DNS	0.0.0.0
TCP COMM.Port	4370
DHCP	$\bigcirc$
Display in Status Bar	

Function Name Description		
IP Address	The default IP address is 192.168.1.201. Can be modified according to the network availability.	

Subnet Mask	The default Subnet Mask is 255.255.255.0. Can be modified according to the network availability.	
GatewayThe default Gateway address is 0.0.0.0. Can be modified according to th network availability.		
DNS The default DNS address is 0.0.0.0. Can be modified according to the new availability.		
TCP COMM. Port	The default TCP COMM Port value is 4370. Can be modified according to the network availability.	
Dynamic Host Configuration Protocol is to dynamically allocate IP ac clients via server.		
<b>Display in Status Bar</b> Toggle to set whether to display the network icon on the status bar.		

# 7.2 Serial Comm

Serial Comm function facilitates to establish communication with the device through a serial port number using RS485 communication.

• On the **Comm.** Interface, tap **Serial Comm** to configure the serial port settings.

S Comm.	5	Serial Comm		Serial Port
Ethernet	Serial Port	Master	Jnit	O no using
Serial Comm	Baudrate	115	200	O RS485(PC)
PC Connection				Master Unit
🛜 Wireless Network				
Cloud Server Setting				
<b>@</b> Wiegand Setup				

Function Name	Description				
	<b>Disable:</b> Do not communicate with the device through the serial port.				
	<b>RS485(PC):</b> Communicates with the device through RS485 serial port.				
Serial port Master Unit: When RS485 is used as the function of "Master unit", t					
	will act as a master unit, and it can be connected to RS485 fingerprint & card				
	reader.				

	The rate at which the data is communicated with PC.			
There are 4 options of baud rate: 115200 (default), 57600, 38400, and 1				
	The higher is the baud rate, the faster is the communication speed, but also the			
Baud Rate	less reliable.			
	Hence, a higher baud rate can be used when the communication distance is			
	short; when the communication distance is long, choosing a lower baud rate			
would be more reliable.				

## 7.3 PC Connection

Comm Key facilitates to improve the security of data by setting the communication between device and PC.

Once the Comm Key is set, its connection password must be provided before the device gets connected to the PC software.

• On the **Comm.** Interface, tap **PC Connection** to configure the communication settings.



Function Name	Descriptions	
Comm Key	The default password is 0, and can be modified. The Comm Key can contain1-6 digits.	
Device ID	Identity number of the device, which ranges between 1 and 254. If the communication method is RS232/RS485, you need to input this device ID in the software communication interface.	

# 7.4 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.

• On the **Comm.** Interface, tap **Wireless Network** to configure WIFI settings.

S Comm.	5	Wireless Network	1= 1=	S MINI-zkt6-7
Ethernet	WIFI			Security: WPAPSK/WPA2PSK
Serial Comm	Teco-Visitor		Connected	Signal Strength: Medium
PC Connection	Time1234		(îi)	Password
S Wireless Network	ZSZX-CESHIBU		(17	
Cloud Server Setting	ZYPT_2.4G		(îi	
( Wiegand Setup	MINI-zkt6-6		(îî	
	Honor 8X		(in)	
	kq12345		((i·	
	ZKCS		<b>R</b>	
	MINI-zkt6-7		(fig	
	ZSZX-ceshi		(The second seco	
	MINI-z		((t•	Connect to WIFI (OK) Cancel (ESC)

### Search the WIFI Network

- Once the Wi-Fi is turned on, the device will search for the available WIFI within the network range.
- Tap on the appropriate WiFi name from the available list, and input the correct password in the password interface, and then tap **Connect to WIFI (OK)**.
- When the WIFI is connected successfully, the initial interface will display the Wi-Fi 훅 logo.

### Add WIFI Network Manually

- The WIFI can also be added manually if the required WIFI is not displayed on the list.
- On the **Wireless Network** interface, tap on **Add WIFI Network** to provide the relevant parameters (It is essential that the added network must exist).

		_	
5	Wireless Network		5
WIFI			SSID
MINI-zkt6-7	Connected		Netwo
Add WIFI Network			Auth.
Advanced		-	
		1	

5	Add WIFI Network	
SSID		
Network Mode		INFRA
Auth. Mode		OPEN

**Note:** After successfully adding the WIFI manually, follow the same process to search for the added WIFI name. Click <u>here</u> to view the process to search the WIFI network.

### Advanced Setting

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

S Wireless Network	5	Ethernet
WIFI	DHCP	
MINI-zkt6-7 Connected	IP Address	10.1.20.25
Add WIFI Network	Subnet Mask	255.255.252.0
Advanced	Gateway	0.0.0.0

### **Function Description**

Function Name	Descriptions
DHCP	Dynamic Host Configuration Protocol, which is to dynamically allocate IP address for clients via server. If the DHCP is enabled, then the IP cannot be set manually.
IP address for WIFI network, the default is 0.0.0.0. Can be modified according to the network availability.	
Subnet Mask	The default Subnet Mask is 255.255.255.0. Can be modified according to the network availability.
Gateway	The default Gateway address is 0.0.0.0. Can be modified according to the network availability.

**Note:** WIFI function is optional, only products with the built-in WIFI module are equipped with WIFI function. Please contact our technical support for any further information.

# 7.5 Cloud Server Setting

• On the **Comm.** Interface, tap **Cloud Server Setting** to connect with the ADMS server.

Ú	Comm.	Cloud Server Setting	g
	Ethernet	Server Mode	ADMS
	Serial Comm	Enable Domain Name	$\bigcirc$
- <b>-</b> -	PC Connection	Server Address	0.0.0.0
((î•	Wireless Network	Server Port	8081
<b>a</b>	Cloud Server Setting	Enable Proxy Server	$\bigcirc$
6	Wiegand Setup		

### **Function Description**

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

# 7.6 Wiegand Setup

• On the **Comm.** Interface, tap **Wiegand Setup** to set the Wiegand input and output parameters.

5	Comm.
	Ethernet
	Serial Comm
	PC Connection
<b>(</b> ?	Wireless Network
	Cloud Server Setting
6	Wiegand Setup

5	Wiegand Setup
Wiegand Input	
Wiegand Output	

# 7.6.1 Wiegand input

S Wiegand Setup	5 V
Wiegand Input	Wiegand Format
Wiegand Output	Wiegand Bits
	Pulse Width(us)
	Pulse Interval(us)
	ID Type

## **Function Description**

Function Name	Descriptions	
Wiegand Format	Value ranges from 26 bits, <mark>34 bits, 36</mark> bits, 37 bits, and 50 bits.	
Wiegand Bits	Number of bits of Wiegand Data.	
Pulse Width(us)	The value of the pulse width sent by Wiegand is 100 microseconds by default, and can be modified within the range of 20 to 100 microseconds.	
Pulse Interval(us)	The default value is 1000 microsec <mark>onds, a</mark> nd can be modified within the range of 200 to 20000 microseconds.	
ID Туре	Select the ID type as either User ID or Ca <mark>rd</mark> number.	

## Various Common Wiegand Format Description:

Wiegand Format	Description			
Wiegand 26	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Wiegand 26a	ESSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Wiegand34	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
Wiegand 34a	ESSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			

	OFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegand36	Consists of 36 bits of binary code. The 1 <sup>st</sup> bit is the odd parity bit of the 2 <sup>nd</sup> to 18 <sup>th</sup>
	bits, while the 36 <sup>th</sup> bit is the even parity bit of the 19 <sup>th</sup> to 35 <sup>th</sup> bits. 2 <sup>nd</sup> to 17 <sup>th</sup> bits
	are the device codes. The 18 <sup>th</sup> to 33 <sup>rd</sup> bits are the card numbers, and the 34 <sup>th</sup> to
	35 <sup>th</sup> bits are the manufacturer codes.
	EFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegend26a	Consists of 36 bits of binary code. The 1 <sup>st</sup> bit is the even parity bit of the 2 <sup>nd</sup> to 18 <sup>th</sup>
Wiegand36a	bits, while the 36 <sup>th</sup> bit is the odd parity bit of the 19 <sup>th</sup> to 35 <sup>th</sup> bits. 2 <sup>nd</sup> to 19 <sup>th</sup> bits
	are the device codes, and the 20 <sup>th</sup> to 35 <sup>th</sup> bits are the card numbers.
	OMMMMSSSSSSSSSSSSSCCCCCCCCCCCCCCCC
	Consists of 37 bits of binary code. The 1 <sup>st</sup> bit is the odd parity bit of the 2 <sup>nd</sup> to 18 <sup>th</sup>
Wiegand37	bits, while the 37 <sup>th</sup> bit is the even parity bit of the 19 <sup>th</sup> to 36 <sup>th</sup> bits. 2 <sup>nd</sup> to 4 <sup>th</sup> bits
	are the manufacturer codes. 5 <sup>th</sup> to 16 <sup>th</sup> bits are the site codes, and the 21 <sup>st</sup> to 36 <sup>th</sup>
	bits are the card numbers.
	Consists of 37 bits of binary code. The 1 <sup>st</sup> bit is the even parity bit of the 2 <sup>nd</sup> to 18 <sup>th</sup>
Wiegand37a	bits, while the 37 <sup>th</sup> bit is <mark>the odd p</mark> arity bit of the 19 <sup>th</sup> to 36 <sup>th</sup> bits. 2 <sup>nd</sup> to 4 <sup>th</sup> bits are
	the manufacturer codes. 5 <sup>th</sup> to 14 <sup>th</sup> bits are the device codes, and 15 <sup>th</sup> to 20 <sup>th</sup> bits
	are the site codes, and the 21 <sup>st</sup> to 36 <sup>th</sup> bits are th <mark>e c</mark> ard numbers.
	ESSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
W	Consists of 50 bits of binary code. The 1 <sup>st</sup> bit is the even parity bit of the 2 <sup>nd</sup> to 25 <sup>th</sup>
Wiegand50	bits, while the 50 <sup>th</sup> bit is the odd parity bit of the 26 <sup>th</sup> to 49 <sup>th</sup> bits. 2 <sup>nd</sup> to 17 <sup>th</sup> bits
	are the site codes, and the 18 <sup>th</sup> to 49 <sup>th</sup> b <mark>its a</mark> re the card numbers.
"C "denotes the	card number: "E" denotes the even parity bit: "O" denotes the odd parity bit:

**"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.

## 7.6.2 Wiegand output

5	w	iegand Setup				
Wiegand Input						
Wiegand Out	put					

5	Wiegand Options	
Wiegand Format		
Wiegand output bits		26
Failed ID		Disabled
Site Code		Disabled
Pulse Width(us)		100
Pulse Interval(us)		1000
ID Type		Badge Number

Function Name	Descriptions		
Wiegand Format	Value ranges from 26 bits, 34 bits, 36 bits, 37 bits, and 50 bits.		
Wiegand output bits	After selecting the required Wiegand format, select the corresponding output bit digits of the Wiegand format .		
Failed ID	f the verification is failed, the system will send the failed ID to the device and replace the card number or personnel ID with the new one.		
Site Code	It is similar to the device ID. The difference is that a site code can be set manually, an is repeatable in different device. The valid value ranges from 0 to 256 by default.		
Pulse Width(us)       The time width represents the change in the quantity of electric change in the quantity of electric change in the specified time.			
Pulse Interval(us)	The time interval between pulses.		
ID Туре	Select the ID type as either User ID or Card number.		

# 8 System Settings

• On the **Main Menu**, tap **System** to set the related system parameters so as to optimize the performance of the device.



	Ś	System	
	•	Date Time	
		Attendance	
		Face	
	@	Fingerprint	
1	0	Reset	
	¥	USB Upgrade	

## 8.1 Date and Time

• On the **System** Interface, tap **Date Time** to set the date and time.

5	System	5	Date Time
9	Date Time	Manual Date and Time	
	Attendance	24-Hour Time	
	Face	Date Format	YYYY-MM-DD
@	Fingerprint	Daylight Saving Time	$\bigcirc$
2	Reset		
Ŷ	USB Upgrade		

- Tap Manual date and time to manually set the date and time and tap Confirm to save.
- Tap **24-Hour Time** to enable or disable this format. If enabled, then tap **Date Format** to set the date format.

★ 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.

5	Daylight Saving Setup	Daylight Sa	ving Setup
Start Month	1	Start Date	00-00
Start Week	1	Start Time	00:00
Start Day	Sunday	End Date	00-00
Start Time	00:00	End Time	00:00
End Month	1		
End Week	1		
End Day	Sunday		
End Time	00:00		
	Week mode	Date	mode

 When restoring to 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, 2019) to 18:30 on January 1, 2020. After restoring the factory settings, the time of the equipment will remain 18:30 on January 1, 2020.

## 8.2 Attendance/Access Logs Setting

• On the **System** interface, tap **Attendance** to go to the access or the attendance log settings.

5	System	
•	Date Time	
	Attendance	
	Face	
@	Fingerprint	
0	Reset	
¥	USB Upgrade	

S Attendanc	e
Duplicate Punch Period(m)	None
Camera Mode	No photo
Display User Photo	
Attendance Log Alert	99
Cyclic Delete ATT Data	Disabled
Cyclic Delete ATT Photo	99
Cyclic Delete Blacklist Photo	99
Confirm Screen Delay(s)	3
Face comparison interval(s)	1

Function Name	Description		
Duplicate Punch Period (m)	Once the time range is set, the attendance record of the same person will not be saved; the valid value ranges from 1 to 999999 minutes.		
	Whether to capture and save the current snapshot image during verification. There are 5 modes:		
	<b>No Photo:</b> No photo will be taken during user verification.		
Camera Mode	<b>Take photo, no save:</b> Photo will be taken but will not be saved during verification.		
	Take photo and save: Photo will be taken and saved during verification.		
	Save on successful verification: Photo will be taken and saved only for each successful verification.		
	Save on failed verification: Photo will be taken and saved only for each failed verification.		
Display User Photo	Whether to <mark>display the user p</mark> hoto whe <mark>n the</mark> user passes the verification.		
Attendance Log Alert/ Access Logs Warning	When the record space of the attendance log/ access log reaches the maximum threshold value, the device will automatically display the memory space warning. You may either clear the logs or disable the function or set a valid value between 1 and 9999.		
Cyclic Delete ATT Data/Access Records	When the attendance/access records have reached full capacity, the device will automatically delete a set of old attendance/access records. You may disable the function or set a valid value between 1 and 999.		
Cyclic Delete ATT Photo	When attendance photos have reached full capacity, the device will automatically delete a set of old attendance photos. You may disable the function or set a valid value between 1 and 99.		
Cyclic Delete Blacklist Photo	When blacklisted photos have reached full capacity, the device will automatically delete a set of old blacklisted photos. You may disable the function or set a valid value between 1 and 99.		
Confirm Screen Delay(s)	The time length that the message of successful verification displays. Valid value: 1~9 seconds.		
Face Detect Interval (s)	Sets the facial template matching time interval as required. Valid value: 0~9 seconds.		

# 8.3 Face Parameters

• On the **System** interface, tap **Face** to go to the face parameter settings.

	5	Face	11
	1:N Match Threshold		75
	1:1 Match Threshold		63
	Face Enrollment Threshold	ł	70
	Face Pitch Angle		35
	Face Rotation Angle		25
System	Image Quality		40
Date Time	Minimum Face Size		80
Attendance	LED Light Triggered Three	shold	80
Face	Motion Detection Sensitivi	ty	4
Fingerprint	Live Detection		C
Reset	Live Detection Threshold		70
USB Upgrade	Anti-counterfeiting with N	IR 🧲	С

EDD	EAD	Recommended M	latching Thresholds
FRR	FAR	1:N	1:1
High	Low	85	80
Medium	Medium	82	75
Low	High	80	70

Function Name	Description	
1:N Threshold Value	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 65 to 120. The higher the threshold is, the lower the misjudgment rate, the higher the rejection rate, and vice versa. It is recommended to set the default value of 75.	

1:1 Threshold Value	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 55 to 120. The higher the thresholds, the lower the misjudgment rate, the higher the rejection rate, and vice versa. It is recommended to set the default value of 63.	
Enrollment Threshold Value	During face enrollment, 1:N comparison is used to determine whether the user has already registered before. When the similarity between the acquired facial image and all registered facial templates is greater than this threshold value, it indicates that the face has already been registered.	
Face Pitch Angle	The pitch angle tolerance of a face for facial registration and comparison. If a face's pitch angle exceeds this set value, it will be filtered by the algorithm, i.e. ignored by the terminal thus no registration and comparison interface will be triggered.	
Face Rotation Angle	The rotation angle tolerance of a face for facial template registration and comparison. If a face's rotation angle exceeds this set value, it will be filtered by the algorithm, i.e. ignored by the terminal thus no registration and comparison interface will be triggered.	
Image Quality	Image quality for facial registration and comparison. The higher the value, the clearer the image requires.	
Minimum Recognition Value	Required for facial registration and comparison. If the minimum size of the captured figure is smaller than this set value, then it will be filtered off and will not be recognized as a face. This value can be understood as the face comparison distance. The farther the person is, the smaller the face is, and the smaller the face pixel will be obtained by the algorithm. Therefore, adjusting this parameter can adjust the furthest comparison distance of faces. When the value is set to 0, the face comparison distance is not limited.	
LED Light Trigger Value	This value controls the on and off of the LED light. The larger the value, the more frequently the LED light will be turned on.	
Motion Detection Sensitivity	It is to set the value for the amount of change in the camera's field of view, which is known as potential motion detection value, that wakes up the terminal from standby to the comparison interface. The larger the value is, the more sensitive the system would be, i.e. if a larger value is set, the comparison interface is much easier and the motion detection is frequently triggered.	
Live Detection	Detecting the spoof attempt using visible light images to determine if the provided biometric source sample is really a person (a live human being) or false representation.	
Live Detection Threshold Value	Facilitates to judge whether the captured visible image is really a person (a live human being). The larger the value, the better the anti-spoofing performance using visible light.	

Anti-spoofing using NIR	Uses near-infrared spectra imaging to identify and prevent fake photos and video attacks.
WDR	Wide Dynamic Range (WDR), which balances light and extends image visibility for surveillance videos under high contrast lighting scenes and improves object identification under bright and dark environment.
Anti-flicker Mode	Is used when WDR is turned off. This helps reduce flicker when the device's screen flashes at the same frequency as the light.
Notes	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 **Auto-Test > 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, and recommended not to move the face in wide range.

# 8.4 Fingerprint Parameters

• On the **System** interface, tap **Fingerprint** to configure the fingerprint settings.

5	System
4	Date Time
	Attendance
	Face
@	Fingerprint
0	Reset
<b>*</b>	USB Upgrade

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

FRR FAR	FAR	Recommended Matching Thresholds	
FAR	FAR	1:N	1:1
High	Low	45	25
Medium	Medium	35	15
Low	High	25	10

Function Description	
Function Name	Descriptions
1:1 Threshold	Under 1:1 verification method, the verification will only be successful when the similarity between the acquired fingerprint data and the fingerprint template associated with the entered user ID that is enrolled in the device is greater than the set value.
1:N Threshold	Under 1:N verification method, the verification will only be successful when the similarity between the acquired fingerprint data and the fingerprint templates enrolled in the device is greater than the set value.
FP Sensor Sensitivity	To set the sensibility of fingerprint acquisition. It is recommended to use the default level " <b>Medium</b> ". When the environment is dry, resulting in slow fingerprint detection, you can set the level to " <b>High</b> " to raise the sensibility; when the environment is humid, making it hard to identify the fingerprint, you can set the level to " <b>Low</b> ".
1:1 Retry Attempts	Users might forget the registered fingerprint, or press the finger improperly. 1:1 Verification allows to set the retry authentication attempts for the users in order to reduce the process of re-entering the user ID and increase the security.
Fingerprint Image	<ul> <li>To set whether to display the fingerprint image on the screen during fingerprint enrollment or verification. Four choices are available:</li> <li>Show for enroll: to display the fingerprint image on the screen only during enrollment.</li> <li>Show for match: to display the fingerprint image on the screen only during verification.</li> <li>Always show: to display the fingerprint image on screen during enrollment and verification.</li> <li>None: not to display the fingerprint image.</li> </ul>

## 8.5 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 the registered user data).

• On the System interface, tap Reset and then tap OK to restore to default factory settings.

⇒ System	
Date Time	
Attendance	
Face	
Fingerprint	
Reset	
USB Upgrade	
 Reset?Restart	
ОК	
Cancel	

## 8.6 USB Upgrade

The device firmware program can be upgraded with the upgrade file in a USB drive. Before conducting this operation, please ensure that the USB drive contains the correct upgrade file and is properly inserted into the device.

• On the **System** interface, tap **USB Upgrade** to upgrade the Device firmware.

5	System
4	Date Time
	Attendance
	Face
@	Fingerprint
0	Reset
¥	USB Upgrade

# 9 Personalize Settings

• On the **Main Menu**, tap **Personalize** customize interface settings, voice, bell, punch state options and shortcut key mappings ★.



## 9.1 Interface Settings

• On the **Personalize** interface, tap **User Interface** to customize the display style of the main interface.

<ul> <li>User Interface</li> <li>Voice</li> <li>Bell Schedules</li> <li>Punch State Options</li> <li>Shortcut Key Mappings</li> </ul>	Voice
Bell Schedules  Punch State Options	
Punch State Options	Bell Schedules
Bhortcut Key Mappings	C Punch State Options
	Bhortcut Key Mappings

S User Ir	iterface
Wallpaper	
Language	English
Menu Screen Timeout(s)	120
Idle Time To Slide Show(s)	60
Slide Show Interval(s)	30
Idle Time to Sleep(m)	Disabled
Main Screen Style	Style 1

Function Name	Description
Wallpaper	The main screen wallpaper can be selected according to the user preference.

Language	Select the language of the device.
Menu Screen	When there is no operation, and the time exceeds the set value, the device will automatically go back to the initial interface.
Timeout (s)	This function either can 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 will be played. This function can be disabled, or set the required value between 3 and 999 seconds.
Slide Show Interval (s)	It is time interval in switching between different images as a slide show process. The function can be disabled, or set the required time 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 go to the standby mode. Press any key or finger to resume normal working mode. This function can be disables or set a value within 1-999 minutes.
Main Screen Style	The main screen style can be selected according to the user preference.

# 9.2 Voice Settings

• On the **Personalize** interface, tap **Voice** to configure the voice settings.



S Voice	
Voice Prompt	
Touch Prompts	
Volume	10

Function Name	Description
<b>Voice Prompt</b> Toggle to enable or disable the voice prompts during function operation	
Touch PromptToggle to enable or disable the keypad sounds.	
Volume	Adjusts the volume of the device, and can be set between: 0-100.

# 9.3 Bell Schedules

• On the **Personalize** interface, tap **Bell Schedules** to configure the Bell settings.



5	Bell Schedules	
New Bell Schedule		
All Bell Schedules		

### New Bell Schedule

• On the **Bell Schedules** interface, tap **New Bell Schedule** to add a new bell schedule.

5	Bell Schedules	5	New Bell Schedule	
New Bell Schedule		Bell Status		$\bigcirc$
All Bell Schedules		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 will automatically trigger to ring the bell during that time.
Repeat	Set the required number of counts to repeat the scheduled bell.
Ring Tone	Select a ring tone.
Repeat bell delay(s)	Set the replay time of the scheduled bell. Valid values range from 1 to 999 seconds.

### **All Bell Schedules**

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

#### Edit the scheduled bell

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

### Delete a bell

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

## 9.4 Punch State Options

• On the **Personalize** interface, tap **Punch State Options** to configure the punch state settings.



5	Punch State O	ptions
Punch State M	lode	Manual Mode
Punch State T	imeout(s)	10
Punch State R	equired	$\bigcirc$

### Punch State Mode

5	Punch State Option	S
Punch State	Mode	Manual Mode
Punch State	Timeout(s)	10
Punch State	Required	$\bigcirc$

5	Punch State Mode
0	Off
۲	Manual Mode
0	Auto Mode
0	Manual and Auto Mode
0	Manual Fixed Mode
0	Fixed Mode

### **Function Description**

Item	Description		
	<b>Off:</b> Disables the punch state function. Therefore, the punch state key set under Shortcut Key Mappings menu will not operate.		
	<b>Manual Mode:</b> Switches the punch state key manually; the attendance status will be automatically reset after timeout.		
	<b>Auto Mode:</b> The punch state key will automatically switch to a specific punch status according to the predefined time schedule which can be set in the Shortcut Key Mappings.		
Punch State Mode	<b>Manual and Auto Mode:</b> The main interface will display the auto-switch punch state key. However, the users will still be able to select alternative that is the manual attendance status. After timeout, the manual switching punch state key will become auto-switch punch state key.		
	<b>Manual Fixed Mode:</b> After the punch state key is set manually to a particular punch status, the function will remain unchanged until being manually switched again.		
	<b>Fixed Mode:</b> Only the manually fixed punch state key will be shown. Users cannot change the status by pressing any other keys.		
Punch State Timeout (s)	The time duration for the time out, i.e. remaining inactive in the main menu.		
Punch State Required	To set whether the attendance status must be selected during verification.		

# 9.5 Shortcut Key Mappings

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

• On the **Personalize** interface, tap **Shortcut Key Mappings** to set the required shortcut keys.

5	Personalize		5	Shortcut Key Mappings
1	User Interface		F1	Check-In
<b>9</b>	Voice	-	F2	Check-Out
٢	Bell Schedules	_	F3	Break-Out
0	Punch State Options		F4	Break-In
	Shortcut Key Mappings		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** (that is "F1") interface, tap **function** to set the functional process of the shortcut key either as punch state key or function key.
- If the Shortcut key is defined as a function key (such as New user, All users, etc.), the configuration is completed as shown in the image below.

5 F1		5	F1	
Punch State Value	0	Function		New User
Function	Punch State Options			
Name				
Set Switch Time				

• 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	F1	5	Set Switch Time	5		Switch Cycle
Punch State Value	0	Switch Cycle	Monday Tuesday Wednes	Moi	nday	
Function	Punch State Options	Monday		🗸 Tue	sday	
Name		Tuesday		Ver Wer	dnesday	
Set Switch Time		Wednesday		🖌 Thu	irsday	
		Thursday		🗸 Fric	ay	
		Friday		🗌 Sat	urday	
				Sur	ıday	

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

		ı 🦲		
S Mor	nday		5	Set Switch Time
			Switch Cycle	Monday Tuesday Wednes
80	8:00		Monday	08:00
			Tuesday	
			Wednesday	
08	00		Thursday	
НН	MM		Friday	
Confirm (OK)	Cancel (ESC)			

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

# 10 Data Management

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



5		Data Mgt.	
Ŵ	Delete Data		

## 10.1 Delete Data

• On the **Main Menu**, tap **Delete Data** to delete the required data.

5	Data Mgt.	5	Delete Data
Delete Da	ata	Delete Attendance Data	
		Delete Attendance Photo	0
		Delete Blacklist Photo	
		Delete All Data	
		Delete Admin Role	
		Delete Access Control	
		Delete User Photo	
		Delete Wallpaper	
		Delete Screen Savers	

Function Name	Description
Delete Attendance Data /	Deletes the attendance data/access records conditionally.
Access Records	Deletes the attendance data/access records conditionally.

Delete Attendance Photo	Deletes the attendance photos of the designated personnel.			
Delete Blacklist Photo	Deletes the photos of the failed verifications.			
Delete All Data	Deletes data and attendance logs/access records of all registered users.			
Delete Admin Role	Removes all the administrator privileges.			
Delete Access Control	Deletes all the access data.			
Delete User Photo	Deletes all the user photos in the device.			
Delete Wallpaper	Deletes all the wallpapers in the device.			
Delete Screen Savers	Deletes all the screen savers in the device.			

- The user may select Delete All or Delete by Time Range when deleting the attendance data/access records, attendance photos or blacklisted photos.
- If Delete by Time Range is selected, then it is required to set a specific time range to delete all data within the specific period.

Delete Attendance Data		5	St	art Time		
Delete All						
Delete by Time Range			2019-	-12-17 00:0	D	
	-	2019	12	17	00	00
		•	-		~	-
		YYYY	MM	DD	HH	MM
		Confirm	(OK)		Cancel (E	ESC)
					2011001 (1	/

#### Select Delete by Time Range.

Set the time range and click OK.

# 11 Access Control

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



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

- The relevant door's current unlock time should be within the valid time zone of the user time period.
- The corresponding user's group must be already set in the door unlock combination (and if there
  are other user groups, being set in the same access combo, then the verification of those group's
  members is also required, in order 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.

# **11.1 Access Control Options**

• On the **Access Control** interface, tap **Access Control Options** to set the parameters of the control lock for the device and other related components.

5	Access Control	S Access Control C	Options
	Access Control Options	Door Lock Delay (s)	10
۲	Time Schedule	Door Sensor Delay (s)	5
<b>?</b>	Holidays	Door Sensor Type	Normal Close (NC)
	Access Groups	Door Alarm Delay(s)	30
6	Combined Verification	Retry Times To Alarm	3
	Duress Options	Normal close time period	None
		Normal open time period	None
		Verify mode by RS485	Badge+Password
		Valid holidays	$\bigcirc$
		Speaker Alarm	
		Reset Access Setting	

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 second represents disabling the function.
Door Sensor Delay (s)	If the door is not locked and is being left open for a certain duration (Door Sensor Delay), an alarm will be triggered. The valid value of Door Sensor Delay ranges from 1 to 255 seconds.
Door Sensor Type	<ul> <li>There are three Sensor types: None, Normal Open, and Normal Close.</li> <li>None: It means the door sensor is not in use.</li> <li>Normal Open: It means the door is always left opened when electric power is on.</li> <li>Normal Close: It means the door is always left closed when electric power is on.</li> </ul>
Door Alarm Delay (s)	When the state of the door sensor is inconsistent with that of the door sensor type, an alarm will be triggered after a specific time period, i.e. the Door Alarm Delay. The valid value ranges from 1 to 999 seconds and 0 means immediate alarm.
Retry Times to Alarm	When the number of failed verifications reaches a set value, which ranges from 1 to 9 times, an alarm will be triggered. If the set value is "None", the alarm will never be triggered for the failed verifications.

Function Name	Description
Normal close time period	Scheduled time period for "Normal Close" mode, so that no one can avail access during this period.
Normal open time period	Scheduled time period for "Normal Open" mode, so that the door is always left open during this period.
Verify mode by RS485	The verification mode is used when the device is used either as a host or slave. The supported verification mode includes Card/Fingerprint, Fingerprint only, Card only, Fingerprint + Password, Card + Password, Card + Fingerprint, and Card + Fingerprint + Password.
Valid holidays	Configures the Normal Close Period or Normal Open Period settings to be effective in the set holiday time period. Toggle to enable or disable the function during holiday.
Speaker Alarm	Transmits a sound alarm or disassembly alarm from the local. When the door is closed or the verification is successful, the system will cancel the alarm from the local.
Reset Access Setting	The access control reset parameters include door lock delay, door sensor delay, door sensor type, normal close time period, normal open time period, auxiliary input configuration and alarm. Except for the erased access control data in Data Mgt. is excluded.

## **11.2** Time Schedule

- On the Access Control interface, tap Time Schedule to configure the time settings.
- The entire system can be defined up to **50** Time Periods.
- Each Time Period represents **7** Time Zones, i.e. **1** week, and each Time Zone is a standard 24-hour period per day and the user can only verify within the valid time period.
- The Time Zone format of each Time Period: HH MM-HH MM, which is accurate to minutes according to the 24-hour clock.
- Tap on the grey box to search for the required Time Zone and specify the required Time Zone number (can specify up to 50 zones).

S Access Control	Time Schedule:01/50	
Access Control Options	Sunday	00:00 23:59
Time Schedule	Monday	00:00 23:59
Holidays	Tuesday	00:00 23:59
Access Groups	Wednesday	00:00 23:59
G Combined Verification	Thursday	00:00 23:59
Duress Options	Friday	00:00 23:59
	Saturday	00:00 23:59
	Search Time Zone(1-50)	Q

- On the selected Time Zone number interface, tap on the required day (that is Monday, Tuesday etc.) to set the time.
- Specify the start and end time, and then tap **OK**.

Time Schedule:01/50			5		Mor	nday	
Sunday	00:00 23:59						
Monday	00:00 23:59	-			00:00	23:59	
Tuesday	00:00 23:59	-					
Wednesday	00:00 23:59	-					
Thursday	00:00 23:59	-		00	00	23	59
Friday	00:00 23:59	-		нн	MM	HH	MM
Saturday	00:00 23:59	-					
		-					
Search Time Zone(1-50)	Q			Confirm	(OK)	Can	icel (ESC)

#### Notes:

- When the End Time is earlier than the Start Time, (such as 23:57~23:56), it indicates that access is prohibited all day.
- When the End Time is later than the Start Time, (such as 00:00~23:59), it indicates that the interval is valid.
- The effective Time Period to keep the Door unlock or open all the day is (00:00~23:59) and also when the End Time is later than the Start Time, (such as 08:00~23:59).
- The default Time Zone **1** indicates that door is open all day long.

## **11.3 Holiday Settings**

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

On the Access Control interface, tap Holidays to set the Holiday access.

1			1		
	5	Access Control		5	Holidays
		Access Control Options		Add Holiday	
	٢	Time Schedule		All Holidays	
	<b>9P</b>	Holidays			
		Access Groups	-		
d		Combined Verification			
	A	Duress Options			

#### Add a New Holiday

• On the Holidays interface, tap Add Holiday to set the holiday parameters.

5	Holidays	
Add Holiday		
All Holidays		

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

#### Edit a Holiday

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

#### <u>Delete a Holiday</u>

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

## 11.4 Access Groups

 On the Access Control interface, tap Access Groups to easily manage the different group of users in different access groups.

5	Access Control		5	Access Groups
	Access Control Options	$\wedge$	New Group	
٢	Time Schedule		All Groups	
<b>?</b> ?	Holidays			
	Access Groups			
G	Combined Verification			
	Duress Options			

- The configuration of access group such as access time zones are applicable to all the users in the group by default where the users can manually set the time zones as required.
- If the group authentication mode overlaps with the individual authentication, the user authentication takes precedence over group authentication.
- Each group can set a maximum of three Time Zones. By default, newly enrolled users are assigned to Access Group 1; they can be assigned to other access groups later as per the requirement.

#### Add a New Group

• On the Access Groups interface, tap New Group to set the access group parameters.

S Access Groups	5	)	Access Groups
New Group	No	0.	2
All Groups	Ve	erification Mode	Password/Fingerprint/Badge
	Ti	ime Period 1	1
	Ti	ime Period 2	0
	Tii	ime Period 3	0
	Inc	iclude Holidays	$\bigcirc$

#### Note:

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

#### Edit a Group

- On **All Groups** interface, select the required access group item to be modified.
- Tap **Edit** and modify the access group parameters.

### Delete a Group

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

## **11.5** Combined Verification Settings

Access groups are arranged into different door-unlock combinations to achieve multiple verifications and increase the 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.

• On the **Access Control** interface, tap **Combined Verification** to configure the combined verification settings.

Access Control	5	Combined Verification
Access Control Options	1	01 00 00 00 00
Time Schedule	2	00 00 00 00 00
P Holidays	3	00 00 00 00 00
Access Groups	4	00 00 00 00 00
Combined Verification	5	00 00 00 00 00
Duress Options	6	00 00 00 00 00
	7	00 00 00 00 00
	8	00 00 00 00 00
	9	00 00 00 00 00
	10	00 00 00 00 00
		Q

 On the Combined verification interface, tap on the required Door-unlock combination to be set, and tap the up and down arrows to input the combination number, and then tap OK

### For Example:

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

#### **Delete a door-unlocking combination**

• Set all Door-unlock combinations to 0 if you want to delete all the door-unlock combinations.
### **11.6** Duress Options Settings

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

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

Ś	Access Control		5 Dure	ess Options
	Access Control Options		Alarm on 1:1 Match	$\bigcirc$
٢	Time Schedule		Alarm on 1: N Match	$\bigcirc$
<b>9</b>	Holidays		Alarm on Password	$\bigcirc$
	Access Groups		Alarm Delay(s)	10
F	Combined Verification			
	Duress Options			

#### **Function Description**

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

## 12 USB Manager

- On the Main Menu, tap USB Manager to manage the data through USB drive.
- You can import user information, access data and other data from a USB drive to computer or other devices.
- Before uploading or downloading data from or to the USB drive, insert the USB drive into the USB slot first.

5	Main	Menu		5	USB Manager	
			Ø	Ż	Download	
User Mgt.	User Role	COMM.	System	<b></b>	Upload	
3			••• •	\$	Download Options	
Personalize	Data Mgt.	Access Control	USB Manager			
Attendance Search	Short Message	Work Code	Autotest			
System Info						

### 12.1 Download

• On the **USB Manager** interface, tap **Download** to download the required data from the device to USB drive.

USB Manager
Download
Upload
Download Options

5	Download
Attendance Data	
User Data	
User Portrait	
Attendance Photo	
Blacklist Photo	
Work Code	
Short Message	

#### **Function Description**

Function Name	Descriptions		
Attendance Data	Permits to either download attendance data stored in the device within a specified time period or all attendance data from the device to the USB drive.		
User Data	Permits to download all user information from the device to the USB drive.		
User Portrait	Permits to download all user pictures from the device to the USB drive.		
Attendance Photo	Permits to either download attendance photos stored in the device within a specified time period or all attendance photos from the device to the USB drive. Picture format is JPG		
Blacklist Photo	Permits to either download blacklisted photos taken after failed verifications within a specified time period or all pictures taken after failed verifications from the device to the USB drive.		
Work Code	Permits to download all work codes from the device to the USB drive.		
Short Message	Permits to download a set of public or private short messages, which are read by specified objects within the specified time after attendance, facilitating information transmission.		

# 12.2 Upload

• On the **USB Manager** interface, tap **upload** to upload the required data to the device from USB drive.

5	USB Manager
Ż	Download
£	Upload
\$	Download Options

5	Upload
Screen Saver	
Wallpaper	
User Data	
User Portrait	
Upload work code	
Short Message	

#### **Function Description**

Function Name	Description
Screen Saver	Can upload screen saver from the USB drive to the device. Before uploading, you may select <b>Upload selected picture</b> or <b>Upload all</b> <b>pictures</b> .
Wallpaper	Can upload wallpaper from the USB drive to the device. Before uploading, you may select <b>Upload selected picture</b> or <b>Upload all</b> <b>pictures</b> . The images will be displayed on the screen after manual settings.
User Data	Can upload all user information from a USB drive to the device.
User Portrait	Can upload the JPG picture named with a user ID from the USB drive to the device. Before uploading, you may select <b>Upload Current Picture</b> or <b>Upload All</b> <b>Pictures</b> .
Upload work code	Can upload work codes from the USB drive to the device.
Short Message	Can upload a set of public or private short messages, which are read by specified objects within the specified time after attendance, facilitating information transmission.

### **12.3** Download Options

• On the **USB Manager** interface, tap **Download Options** to set the required download process.

5	USB Manager	Download Options	
2	Download	Encrypt Attendance Data	$\bigcirc$
<b>1</b>	Upload	Delete ATT Data	$\bigcirc$
۵	Download Options		

- Encrypt Attendance Data: Toggle Encrypt Attendance Data to enable or disable the encryption for Attendance Data.
- Delete ATT Data: Toggle Delete ATT Data to enable or disable the deletion for Attendance data.

Note: The encrypt attendance data can only be imported in the software with Access 3.5 version.

# 13 Attendance Search

- Once the identity of a user is verified, the attendance/access record will be saved in the device. This function enables users to check their attendance/access logs.
- On the Main Menu, tap Attendance Search to search for the required Access/Attendance log.

5	Main	Menu		5	Attendance Search	
	T		Ø	E	Attendance Record	
User Mgt.	User Role	COMM.	System	1	Attendance Photo	
3			••• •	2	Blacklist ATT Photo	
Personalize	Data Mgt.	Access Control	USB Manager			
			···· 			
Attendance Search	Short Message	Work Code	Autotest			
System Info						

- The process of searching for attendance and blacklist photos is similar to that of searching for attendance/access records. The following is an example of searching for attendance/access records.
- On the Attendance Search interface, tap Attendance/Access Record to search for the required record.

User ID							
Plea	Please Input(query all data without input)						
		_					
1	2	3	$\overline{\mathbf{x}}$				
4	5	6	~				
7	8	9					
ESC	0	123	ОК				

5	Time Range
•	Today
0	Yesterday
0	This week
0	Last week
0	This month
0	Last month
0	All
0	User Defined

- Enter the user ID to be searched and tap OK.
- If you want to search for records of all users, tap OK without providing any user ID.

Date	User ID	Time	
12-17		Number of Records:02	
	1	11:05 11:05	
12-16		Number of Records:28	
	1	14:00 13:59 13:58 13:57 13:57	
		13:56 13:55 13:54 13:52 13:51	
		13:50 13:42 13:38 11:58 11:55	
		11:55 11:37 11:37 10:21 10:20	
		10:20 10:19 10:19 10:18 10:16	
		10:15 09:53 09:44	

• Select the time range from which the records need to be searched.

				e 1e
User ID	Name	Time	Mode	State
1	Amy	12-16 14:00	11	255
1	Amy	12-16 13:59	11	255
1	Amy	12-16 13:58	11	255
1	Amy	12-16 13:57	11	255
1	Amy	12-16 13:57	11	255
1	Amy	12-16 13:56	12	255
1	Amy	12-16 13:55	10	255
1	Amy	12-16 13:54	4	255
1	Amy	12-16 13:52	3	255
1	Amy	12-16 13:51	4	255
1	Amy	12-16 13:50	4	255
1	Amy	12-16 13:42	3	255
1	Amy	12-16 13:38	1	255
1	Amy	12-16 11:58	1	255
1	Amy	12-16 11:55	3	255
1	Amy	12-16 11:55	1	255
1	Amy	12-16 11:37	1	255
1	Amy	12-16 11:37	1	255
1	Amy	12-16 10:21	3	255
1	Amy	12-16 10:20	3	255
1	Amy	12-16 10:20	3	255
1	Amy	12-16 10:19	3	255
1	Amy	12-16 10:19	3	255
1	Amy	12-16 10:18	3	255

- Once the record search succeeds, tap the record in highlighted in green to view its details.
- The above figure displays the details of the selected record.

## 14 Short Message

- On the Main Menu, tap Short Message to set the short messages.
- SMS is similar to notice. The operator can edit the notice content in advance and make it into SMS and display on the screen.
- SMS includes common SMS and individual SMS. If common SMS is set, the common SMS <sup>™</sup> icon will be displayed on the information column at the top of standby interface in the specified time.
- If individual SMS is set, the employee who can receive SMS can see SMS after successful attendance.



# 14.1 Add a New Short Message

• On the Short Message interface, tap New Message to add a new short message.

5	Short Message
£	New Message
<b>(</b> )	Public Messages
Ð	Personal Messages
Ð	Drafts Messages
\$	Message Options

5	New Message
Message	
Start Date	2019-12-21
Start Time	11:24
Expired Time (m)	60
Message Type	Draft

#### Provide the content

• On the **Short Message** interface, provide the content of the message and tap **Confirm(OK)** to save the content and quit from the Message interface.

11:33	5	Mess	age
Departmental meeting schedule at 8:00			
		Departmental meeting sch	edule at 8:00 am.
am amalgam amalgamate > ESC			
am			
qwertyuiop			
asdfghjkl			
asdfghjkl			
☆ z x c v b n m			
123 EN/中OK		Confirm (OK)	Cancel (ESC)

#### Set the Start Date and Time

- On the **New Message** interface, tap the **Start date** and **Start time** to set the sending period for the created short message.
- The date and time will be enabled once the content for the short message is provided.

5	New Message	5		Start Date			5	Start	Time
Message									
Start Date	2019-12-21			2019-12-21				07:	00
Start Time	11:24								
Expired Time (m)	60		•						
Message Type	Draft		2019	12	21			07	00
			~	-					•
			YYYY	MM	DD			HH	MM
		c	onfirm (OK)		Cancel (ES	C)	Confirm (C	DK)	Cancel (ESC)

#### Setting the Expired time(m)

- On the **New Message** interface, tap the **Expired Time** to set the validity period for the SMS.
- This displays the SMS to appear within the effective time and the message will not be displayed beyond the expire time.

5	New Message	S Expired Time (m)	5	New Message
Message		Never Expire	Message	Departmental meeting sch
Start Date	2019-12-21	O 30	Start Date	2019-12-21
Start Time	11:24	0 60	Start Time	07:00
Expired Time (m)	60	90	Expired Time (m)	Never Expire
Message Type	Draft	0 120	Message Type	Personal
		User Defined	Recipient	

**Note:** For public short messages, the effective period also comprises the display period. For private short messages, you need to set both the effective time period and the display period. That is, the display period

of a private short message can be viewed when you punch in or out during the effective period of the message.

### Setting the Message Type

5	New Message	S Message Type	5	New Message
Message		O Public	Message	Departmental meeting sch
Start Date	2019-12-21	• Personal	Start Date	2019-12-21
Start Time	11:24	O Draft	Start Time	07:00
Expired Time (m)	60		Expired Time	(m) Never Expire
Message Type	Draft		Message Type	e Personal
			Recipient	

Public: Message will be seen by all person.

Personal: Message will be seen by selected individuals only.

**Draft:** Stores the text message that you wrote so far, so you can add some more content on to it later or send it later.

## 14.2 Message Options

• On the **Short Message** interface, tap **Message Options** to set the personal Message display Delay time on the initial interface.

5	Short Message	S Message Options		S Expired Time (m)
£	New Message	Message Show Delay(s)	60	Never Expire
Ð	Public Messages			30
	Personal Messages			60
Ð	Drafts Messages			90
\$	Message Options			0 120
				User Defined

### 14.3 View the Public Messages and Personal Message

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



The public short message will be displayed in the The personal short message will be displayed after lower part of the interface.

successful user authentication.

# 15 Work Code

Employees' incomes are subject to their attendance records. Employees may be engaged in different types of work which may vary with time periods. Considering the salaries vary with work types, the FFR terminal provides a parameter to indicate the corresponding work type for every attendance record to facilitate rapid understanding of different attendance status quo during the handling of attendance data.

• On the Main Menu, tap Work Code to configure the work code settings.

5	Main	Menu		5	Work Code	
			Ö		New Work Code	
User Mgt.	User Role	COMM.	System	\$	All Work Codes	
3			••• •	Ð	Work Code Options	
Personalize	Data Mgt.	Access Control	USB Manager			
Attendance Search	Short Message	Work Code	Autotest			
System Info						

### 15.1 Add a Work Code

- On the Work Code interface, tap New Work Code to add a new work code.
- On the **New Work Code** interface, fill in the following details.

**ID:** Provide the unique code of the work code.

Name: Provide the name of the work code.

#### **Editing an ID**

• On the **New Work Code** interface, tap on the ID field to edit ID.

5	New Work Code		I	D	
ID	1	1101			
Name					
		1	2	3	$\otimes$
		4	5	6	~
		7	8	9	~
		ESC	0	123	ок
				123	

#### Editing a name

• On the **New Work Code** interface, tap on the ID field to edit ID.



### **15.2** All Work Codes List

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

• On the **Work Code** interface, tap **All Work Code** to view and edit the required work code.

S Work Code	5	All Work Codes	5	1101
New Work Code	1101	RD	Edi	t
All Work Codes	1102	Sales	Del	lete
Uvrk Code Options	1103	Service		

### 15.3 Work Code Options

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

• On the Work Code interface, tap Work Code Options to configure the work code settings.

Work Code Options	Ú	Input Screen Timeout(s)
Work Code Required	0 1	
Input Screen Timeout(s) 5	O 2	
Work Code Must Defined	О з	
	0 4	
	5	
	O Us	er Defined

## 16 Autotest

• On the **Main Menu**, tap **Autotest** to automatically test whether all modules in the device function properly, which include the LCD, voice, fingerprint sensor, camera and real-time clock (RTC).

S Main Menu		Ś	Autotest
🚹 🚺 🔊 🔅			Test All
User Mgt. User Role COMM. System			Test LCD
🕑 🔜 🚺 📳		<b>P</b>	Test Voice
Personalize Data Mgt. Access Control USB Manag	er	@	Test Fingerprint Sensor
			Test Face
Attendance Short Message Work Code Autotest Search		•	Test Clock RTC
	$\mathbf{A}$		
System Info			

### **Function Description**

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

# 17 System Information

• On the **Main Menu**, tap **System Info** to view the storage status, the version information of the device, and so on.



#### Function Description

Function Name	Description			
Device Capacity	Displays the current device's user storage, admin user, password, fingerprint, face storage, badge storage, attendance records, attendance and blacklist photos, and user photos.			
Device Info	Displays the device's name, serial number, MAC address, fingerprint algorithm, face algorithm, platform information, version information, manufacturer and manufacture date.			
Firmware Info	Displays the firmware version and other version information of the device.			

G4L

# Appendix 1 Statement on the Right to Privacy

#### **Dear Customers:**

Thank you for choosing this hybrid biometric recognition product, which was designed and manufactured by ZKTeco. As a world-renowned provider of core biometric recognition technologies, we are constantly developing and researching new products, and strive to follow the privacy laws of each country in which our products are sold.

#### We Declare That:

- 1. All of our civilian fingerprint recognition devices capture only characteristics, not fingerprint images, and do not involve privacy protection.
- 2. None of the fingerprint characteristics that we capture can be used to reconstruct an image of the original fingerprint, and do not involve privacy protection.
- 3. As the provider of this device, we will assume no direct or indirect responsibility for any consequences that may result from your use of this device.
- 4. If you would like to dispute human rights or privacy issues concerning your use of our product, please directly contact your dealer.

Our other law-enforcement fingerprint devices or development tools can capture the original images of citizen's fingerprints. As to whether or not this constitutes an infringement of your rights, please contact your Government or the final supplier of the device. As the manufacturer of the device, we will assume no legal liability.

#### Note:

The Chinese law includes the following provisions on the personal freedom of its citizens:

- 1. There shall be no illegal arrest, detention, search, or infringement of persons;
- 2. Personal dignity is related to personal freedom and shall not be infringed upon;
- 3. A citizen's house may not be infringed upon;
- 4. A citizen's right to communication and the confidentiality of that communication is protected by the law.

As a final point, we would like to further emphasize that biometric recognition is an advanced technology that will be certainly used in E-commerce, banking, insurance, judicial, and other sectors in the future. Every year the world is subjected to major losses due to the insecure nature of passwords. The Biometric products serve to protect your identity in high-security environments.

# **Appendix 2 Eco-friendly Operation**

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

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

Hazardous or Toxic substances and their quantities							
	Hazardous/Toxic Substance/Element						
Component Name	Lead (Pb)	Mercury (Hg)	Cadmiu m (Cd)	Hexavalent chromium (Cr6+)	Polybrominate d Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)	
Chip Resistor	×	0	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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