

# **User Manual**

# **G4** Pro Series

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English

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



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

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# 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 **G4 Pro Series**.

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  $\bigstar$  are not available in all devices.

# **Document Conventions**

Conventions used in this manual are listed below:

#### **GUI Conventions**

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

#### Symbols

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

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# 1 <u>Overview</u>

G4 Pro Series is a fully upgraded version of the Visible Light Facial Recognition Terminal, using intelligent engineering facial recognition algorithms and the latest computer vision technology. It also intergrated QR Sensor support QR code with Mobile APP, as well as improves security performance in all aspects. G4 Pro Series has two models, G4 Pro[TI] is the upgraded version of G4 Pro with thermal imaging intelligent engineering facial recognition algorithm.

G4 Pro Series supports facial recognition with large capacity and speedy recognition and other authentication methods, including identification with card, password and fingerprint  $\bigstar$ .

G4 Pro[TI] adopts touchless recognition technology and new functions i.e.,

- 1) Body Temperature Detection
- 2) Face Mask Detection

It is also equipped with an ultimate anti-spoofing algorithm for facial recognition against almost all types of fake photos and video intrusions. This device is a perfect choice to reduce the spread of germs and help prevent infections directly at each access point of any premises and public areas such as hospitals, factories, schools, commercial buildings, stations during the recent pandemic condition with its fast and accurate body temperature measurement and face mask detection functions during facial verification.

#### **Features**

- Compatible with 4G network, satisfy various market including Europe, the Middle East, Africa, South Korea, Thailand and India
- Scanning of T&A/A&C dynamic QR codes on the ZKBioSecurity Mobile App
- Open Supervised Device Protocol (OSDP v2.1.7)
- Dual-frequency (125kHz and 13.56MHz) card module (standard)
- HID iClass card (optional)
- Android LCDK demo for the 3rd-party application integration
- PoE 802.3af/at power supply
- Mask detection
- Anti-spoofing algorithm against print attack (laser, color, and B/W photos) and video attack

\* Facial recognition for masked individuals will increase FAR.

#### **Special Functions**

- Mask detection
- Body temperature detection
- Temperature Measurement Distance: 30cm to 120cm (0.98ft to 3.94ft)
- Temperature Measurement Accuracy: ±0.3°C (±0.54°F)
- (Tested at a distance of 80cm (2.63ft) under 25°C (77° F) temperature)
- Temperature Measurement Range: 20°C to 50°C (68°F to 122°F)

# 2 Instructions for Use

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

# 2.1 How to Scan the QR Code?

Open the Mobile Credential of ZKBioSecurity App and parallel the phone screen to the device QR code scanner



**NOTE:** Place your phone within 15 to 50cm of the device (distance depends on the size of the phone screen), do not block the device QR code scanner and QR code in the phone screen.

# 2.2 Standing Position, Facial Expression

#### • The recommended distance



The distance between the device and a user whose height is in a range of 1.55m to 1.85m is recommended to be 0.3 to 2.5m. Users may slightly move forward or backward to improve the quality of facial images captured.

Recommended Standing Posture and Facial Expression



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

# 2.3 Face Registration

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



#### **Correct face registration and authentication method**

#### Recommendation for registering a face

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

#### Recommendation for authenticating a face

- Ensure that the face appears inside the guideline displayed on the screen of the device.
- If the glasses have been changed, authentication may fail. If the face without glasses has been
  registered, authenticate the face without glasses further. If the face with glasses has been
  registered, authenticate the face with the previously worn glasses.

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

# 2.4 Finger Placement

Recommended fingers: Index, middle, or ring fingers.

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



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

# 2.5 Standby Interface

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



#### NOTE:

- 1. Tap on C the button to enter the personnel ID Input screen.
- 2. Tap on <sup>(1)</sup> the button to enter the main menu.
- 3. If a super administrator has already been registered for this device, you will need the permission of the super administrator to enter the main menu.

# 2.6 Virtual Keyboard

<		U	lser l	nforr	natio	n		
_								
	<b>Pl</b>	ease	ente	er the	e use	rnar	ne	
L	Clyde							
U 	С	ancel			C	onfir	m	
Use	r Roles							2
Use	r Validit	y Rule	9					>
q	W <sup>2</sup> 6	3	r 1	5	/ L	7 1	i <sup>®</sup> C	• p
а	S	d	f	g	h	j	k	I
*	z	х	С	V	b	n	m	⊠
?123	,							

#### NOTE:

- 1. Press [**?123**] to switch to the numeric and symbolic keyboard.
- 2. Click the input box, virtual keyboard appears.

# 2.7 Verification Mode

### 2.7.1 QR Code Verification

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

Tap **[Mobile Credential]** on the ZKBioSecurity App, and a QR code will appear, which includes employee ID and card number (static QR code only includes card number) information. The QR code can replace a physical card on a specific device to achieve contactless authentication. Please refer to <u>11.3 Mobile Credential</u>.



### 2.7.2 Facial Verification

#### • 1:N (One to Many) Facial Verification Mode

#### 1. Conventional verification

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



#### 2. Enable temperature screening with infrared ★

When the user enables the **Enable temperature screening with infrared** function, during user verification, in addition to the conventional verification method, the user's face must be aligned with the temperature measurement area to measure the body temperature before the verification can be conducted. The following are the popups of the comparison result prompt interface. (Note: This function is only applicable to products with temperature measurement module.)

**NOTE:** The temperature measurement data is only for reference, and not for any medical purposes.





#### 3. Enable mask detection ★

When the user enables the **Enable mask detection** function, the device will identify whether the user is wearing a mask or not while verification. The following are the popups of the comparison result prompt interface. (Note: This function is only applicable to products with temperature measurement module.)

**NOTE:** The temperature measurement data is only for reference, and not for any medical purposes.



#### 4. Display Thermodynamics Figure ★

When the user enables the **Display Thermodynamics Figure** function, the thermal image of the person is displayed in the upper left corner of the device, while verification. As shown in the images below:

**NOTE:** The temperature measurement data is only for reference, and not for any medical purposes.





#### • 1:1 (One to One) Facial Verification Mode

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



If the user has registered card, password and fingerprint★ in addition to face, and the verification method is set to face/ card/ password/ fingerprint★ verification, the following screen will appear.



Select the science in the center of the device screen for face verification.



Below are the sample for successful and unsuccessful verification:









# 2.7.3 Card Verification

#### • 1: N (One to Many) Card Identification

To enter 1: N card identification mode, please place the registered card on the card reader.



#### • 1:1 (One to One ) Card Verification

Press On the main interface and enter the 1:1 card verification mode and enter the user ID and press **[OK]**.



If the user has registered face, password and fingerprint  $\bigstar$  in addition to card and the verification method is set to face/ card/ password/ fingerprint  $\bigstar$  verification, the following screen will appear.





Below are the sample for successful and unsuccessful verification:



### 2.7.4 Password Verification

When a user inputs his/her user ID and password into the device, the data will be compared to the user ID and password of that user pre-stored in the system. This process is recommended for administrator users.

Press Son the main interface and enter the 1:1 password verification mode and enter the user ID and press [OK].



If the user has registered face, card and fingerprint  $\bigstar$  in addition to password and the verification method is set to face/ card/ password/ fingerprint  $\bigstar$  verification, the following screen will appear.

Please choose the verification me	
Flease choose the vehication mo	de

Select the (a) icon to enter the password verification mode. After the prompt "Please enter the password".



Below are the sample for successful and unsuccessful verification:



Successful Verification

**Failed Verification** 

## 2.7.5 Fingerprint Verification★

#### • 1: N (One to Many) Fingerprint Identification

This method compares the fingerprint of the user that is being pressed onto the fingerprint reader with all the fingerprint data that is pre- stored in the device.

To enter fingerprint identification mode, simply tap your finger on the fingerprint reader.



#### • 1:1 (One to One ) Fingerprint Verification

In this verification mode, the device compares the fingerprint that is being pressed onto the fingerprint reader with the fingerprint templates associated with the respective User ID. This method can be used when the system has trouble in recognizing the user's fingerprints.

Press On the main interface and enter the 1:1 fingerprint verification mode and enter the user ID and press **[OK]**.



If the user has registered face, password and card in addition to fingerprint and the verification method is set to face/ card/ password/ fingerprint  $\bigstar$  verification, the following screen will appear.



Select the optimized icon to enter the fingerprint verification mode. After the prompt "Please verify your fingerprint ".



Below are the sample for successful and unsuccessful verification:



Successful Verification

**Failed Verification** 

## 2.7.6 Combined Verification

To increase security, this device offers the option of using multiple forms of verification methods. A total of 10 different verification combinations can be used, as shown below:

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**

•	Password/Card/Face
0	User ID
0	Password
0	Card
0	Password/Card
0	Password+Card
0	Face
0	Face+Password
0	Face+Card

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

# 3 Main Menu

On the **Standby interface**, tap on **b** to enter the **Main Menu**.



#### **Function Description**

Menu	Function
User Management	To Add, Edit, View, and Delete the basic information about a User.
Access Control	To set the parameters of the lock and the relevant access control device Access control options, time rules, holiday settings, verification combination, access group settings, anti-passback and duress alarm.
Attendance Search	Query the specified attendance data, check attendance photos and blocklist photos
Data Management	To delete all the relevant data from the device.
USB Management	To upload or download specific data from a USB drive.
Alarm Management	Once an alarm has been set, the device will automatically play preselected alarm tone when the specific time is reached. It will stop alarm after the alarm time elapsed.
System Settings	To set the parameters related to the system, including network, date and time, attendance data setting, cloud service, wiegand, display and sound, serial port, biometric parameters, detection management, auto testing, advanced and security, reset to factory.

#### NOTE:

1. If the device does not have a super administrator, any user can enter the menu by tapping the

Bekey.

- 2. After a super administrator has been set on the device, ID verification will be required to enter the menu. Once password verification is successful, users can enter the menu.
- 3. To ensure the security of the device, we recommend registering an administrator the first time you use this device. For detailed operating instructions, please see section Add User.

# 4 User Management

# 4.1 Add User

Tap on 🖤 button on the **[User Management]** interface to enter the user creation interface.



#### **Register Basic User Information**

On the **New User** interface, tap **User ID** and enter the unique identification number, and then tap **Username** and enter the username.

User ID *	Please enter the User ID	2
Username	Please enter the username	2
User Roles	Normal User	2
User Validity Rul	e	>
Card Number	None	>
Password	None	>
Face	None	>
Verification Mod	e	>
Access Control F	Role	>

#### NOTE:

- Name: The maximum length of characters is 24.
- User ID: The user's ID can contain 1-9 digits by default.
- If you need an external reader to swipe the card, please set the card number as the id number.
- User ID can be modified before first login, but cannot be modified once logged in.
- The message "User ID already exists, please try again" indicates that the ID number entered is already being used. In that case, it is recommended to enter another ID number.

#### **Register User Photo**

On the **New User** interface, tap on the button to enter the camera interface.

It is recommended to face the lens and then adjust the position.

On the **User Photo** interface, tap on the **Control** camera button to capture a photo.



Tap on the button on the bottom to successfully add the captured photo.



#### **User Role**

This device has two types of user privileges that is Normal User and Super Administrator. If a Super Administrator exists on the device, Normal Users can only login and view their accounts using different verification modes that have already set for the user. But a Super Administrator will have more privileges like access to the main menu and will also have the same access as the Normal user.

On the **User Management** interface, tap on the required username from the user list to set the user privilege.



On the **User Information** interface, tap **[User Roles]**, and then tap **[Normal User]** or **[Super Administrator]** to set the required privilege.

<	New User		
User ID *			2
Username	Va	ng kaijin	2
User Role	Normal User	User	2
User Valio	Super Administrator		
Card Number		None	
Password		None	
Face		None	
Verification M	Node		
Access Cont	rol Role		

**NOTE:** When a user is given super administrator privileges, entering the main menu will require ID verification. The verification process depends on the verification method that was used during user registration. See the description in section "<u>Verification Mode</u>".

#### **Register Verification Modes**

The different verification modes are used to verify user login.

The verification mode includes registration of face, password, fingerprints  $\bigstar$ , or card number of a user.

On the **New User** interface, tap on the required verification mode (Card Number, Password, Face, Fingerprint  $\bigstar$ ) to register for verification.

User ID	1	_	
Username	Please enter the username	4	
User Roles	Normal User	4	
User Validity Rul	e	>	
Card Number	1130	>	
Password	*****	>	
Face	Enrolled	>	

#### **Register Card Number**

On the **New User** interface, tap **Card Number** to enter the card number registration page.

On the **Register a card number** interface, swipe the card to register.

And once a successful prompt is displayed, tap **Save** to update the card details.



#### **Register Password**

On the New User interface, tap Password to register password.

On the Enter the password field enter the password, then on the Confirm password field re-enter the same password.

#### Tap **Confirm**.

**NOTE:** The user password must be 8-digit number.



Function	Description	
<b>›</b> **	Tap on this button to encrypt the password.	
$\odot$	Tap on this button to make the password visible.	

If the password, entered in both fields does not match, then re-enter the correct password.

Please enter	your password
	> <del>,</del>
Password and cont	firm password does not
match	
Cancel	Confirm

The password which has been registered can be deleted or modified.
### **Delete/Overwrite Registered Password**

On the **User management** interface, tap on the required username from the user list to delete or modify the password.

On the User information interface, tap [Password] to delete or modify.



On the pop window, tap **Delete/ Overwrite** to delete or modify the password.



### **Register Face**

On the **New User** interface, tap **Face** to enter the face registration page.

On the **Face Register** interface, move and adjust your face on the registration area.

<	User Information	
User ID	1	/
Username	Please enter the username	4
User Roles	Normal User	4
User Validity Ru	le	>
Card Number	1130	>
Password	*****	>
Face	Enrolled	>
Varification Max	DWD/Cord/Econ	



### Register Fingerprint 🖈

On the **New User** interface, tap **[Fingerprint]** to enter the fingerprint registration interface.

Tap on the required button ( $\stackrel{\text{\tiny W}}{=}$  left or  $\stackrel{\text{\tiny W}}{=}$  right) situated on the left and right side of the screen and then tap on the required finger to register.



After the selecting the required finger, press the same finger on the fingerprint reader three times.

Green indicates that the fingerprint is enrolled successfully.

**<u>NOTE</u>**. If you tap different fingers onto the fingerprint scanner during the 2<sup>nd</sup> and 3<sup>rd</sup> time, the user will be prompted to "**Please use the same finger**" as shown in the below image.



If the fingerprint is successfully registered, "**Continue to enroll the next Fingerprint?**" dialog box will appear.

Tap **Yes** to record the next fingerprint, or **No** to return to the fingerprint registration interface.



### Verification Mode

Tap on the **[Verification Mode]** field on the User information interface. Select verification mode, and then tap on **[OK]**.

<	Verification Mode	
	Combined verification	
۲	PWD/Card/Face	
	User ID	
	PWD	
	Card	
	PWD/Card	
	PWD+Card	
	Face	
	Face+PWD	
	Face+Card	

### **Period of Validity Settings**

This function sets the validity period for an employee's verification process for attendance. So once this validity period has set, the Employee will be able to verify attendance only during this set time. And if the Employee authenticates attendance before or after the defined time, the attendance will be invalid. The attendance verification is valid between the defined starting and ending time-period of the set number of days; this offers precision up to specific days. The validity period of a day is from 00:00 to 23:59; once this validity period expires, the employee's verification for attendance will be invalid.

On the User Information interface, tap [User Validity Rule] to set the validity period.

User Validity		
Start Date	2021-12-14	Z
End Date	2021-12-14	4

**<u>NOTE</u>**: If the function **User Validity Rule** is not displayed on the **New User** interface, then on the **Main** menu, tap **System Settings** > **Access control record settings**, and enable **User validity settings**, and then the function "**User Validity Rule**" will appear in the **New User** interface.

On the User Validity Rule, set the user validity rule by configuring the required date and time.

### Access level

The Access Control Role sets the door access privilege for each user.

This includes the access group, and the time-period.

On the New User interface, tap Access Control Role to set the access level.

Access	Group	0 👱
Time P	eriod	>

### Set the Access Group

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

User Access Con		< User Access Con	trol Role
ess Group	0 👱	Access Group	
ne Period	>	Time Period	
		Please choose the us	ser's access
		Please choose the us group(0~99	ser's access 9)
		Please choose the us group(0~99 0	ser's access 9)

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 Time Period

Tap **Time Period** to set the time of access for the user.

By default, users follow the defined settings of their groups.

If the time-period is not applied, the access time of the specific user should be set.

Such configuration will not affect the time settings of other group members.

**NOTE:** A total of 50 time-rules can be set.



# 4.2 Search User

Search User function facilitates to search for the required user from the list.

Tap on the search bar located on the [User Management] interface and search for the required username.

**NOTE:** The required users can be searched based on their IDs, username, surname, or full name.



Tap on the **Search** bar to search for the users with the relevant user ID/name and the system will automatically find the users with information that is relevant to the search query.

<	User Managemen	t	⑪
1			Q
0	shawn deng ID: 1		8-81
			+

## 4.3 Edit User

On the **User Management** interface, tap on the required user from the list to edit.

On the **User Information** interface, tap on the corresponding **Edit**  $\boxed{}$  button to edit the required user information.

<	User Manageme	ent 🔟
Please	enter the username or ID	Q
0	shawn deng ID: 1	

**NOTE:** Please notice that the user ID cannot be modified, and other operations are similar to adding a new user. For further information, please see section "Add User".

## 4.4 Delete User

On the "User Management" interface, select the required user to delete and tap on the **Delete**  $\widehat{\mathbb{U}}$  button to delete.

On the pop-up window, tap **OK** to confirm the deletion.



**NOTE:** If you are deleting the selected user, all user's related information will be cleared.

# 5 Access Control Settings

The access management allows users to set Access control parameters, Time rules, Holidays, Verification combinations, Access Groups, Anti-passback settings, Duress Settings, etc.

## **5.1 Access Control Options**

Access Control Options are used for setting the access parameters.

On the Main menu, tap [Access Control].

The Access Control Options includes the following functions.

<	Access Control	
	Access Control Options	>
Ŀ	Time Rules	>
	Holiday Settings	>
æ	Verification Combination	>
[36]	Access Group Settings	>
- <b>†</b> -	Anti-passback Settings	>
শ্র	Duress Alarm Settings	>

<	Access Control Option	ns
Door loc	k delay(s)	5 🖊
Gate mo	ode (0.8s by default)	
Door se	nsor delay(s)	10 🖊
Door ser	nsor mode	None 🗾
Door se	nsor alarm delay(s)	30 🖊
Error ala	irm	
Error	alarm count	3 🖊
Error	Alarm interval (second)	8 👱
Normall	y close period	0 🖊
Normall	y open time zone	0 🖊
Normall holiday	y open or close is enabled duri	ng

## **Function Description**

Function Name	Function Description
Door lock delay	The length of time that the device controls the electric lock to be in unlock state. Valid value: 1 to 254 seconds.
Gate mode (0.8s by default)	Toggle between <b>ON</b> or <b>OFF</b> switch to get into gate mode or not. When set to ON, on this interface will remove Door lock delay, Door sensor delay and Door sensor type options.
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 mode	There are three Sensor types: None, Normal open (NO) and Normal closed (NC). <b>None:</b> It means door sensor is not in use. <b>Normal open (NO):</b> It means the door is always left opened when electric power is on. <b>Normal closed (NC):</b> It means the door is always left closed when electric power is on.
Door sensor alarm	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

delay (s)	Door Alarm Delay. The valid value ranges from 1 to 999 seconds. 0 indicates an immediate alarm.
Error alarm	If enabled, when the number of failed verifications reaches 3 times, an alarm will be triggered.
Normally close period	Time period is scheduled for the "Normal Close" mode so that no one can gain access during this period.
Normally open Time zone	Scheduled time period for "Normal Open" mode, so that the door is always left open during this period.
Normally open or close is enabled during holiday	To set if Normal Close Period or Normal Open Period settings are valid during the holiday time period. Choose ON to enable the functions during a holiday.
Auxiliary Input Configuration	Sets the door unlock time period and auxiliary output type of the auxiliary terminal device. Auxiliary output types include None, Trigger door open, Trigger Alarm, Trigger door open and Alarm.
Alarm	The default is Off.
Local 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.
External Alarm	The default is Off.
Reset access settings	The restored access control parameters include door lock delay, door sensor delay, door sensor mode, normally close period, normally open time zone, auxiliary input configuration and alarm. However, the access control data in Data Mgt. is excluded.

# 5.2 Time Rules Settings

**Time Rule** is the minimum time unit of access control settings and a maximum of 50 **Time Rules** can be set for the system. Each **Time Rule** consists of 7 time periods (a week) and 3 holiday time schedules, and each time section is valid for 24 hours.

The user may set a maximum of 3 time periods for every time rule. The relationship among these time periods is "or". When the verification time falls in any one of these time periods, the verification is valid. The time period format is HH:MM-HH:MM in the 24-hour system with precision to minute.

<	Time Rules	
Sunday	00:00 23	59 >
Monday	00:00 23	59 >
Tuesday	00:00 23	:59 >
Wednesday	00:00 23	59 >
Thursday	00:00 23	59 >
Friday	00:00 23	:59 >
Saturday	00:00 23	59 >

Tap the date on which time rule settings is required. Set the starting and ending time, and then press

### [OK].

	<	Time I	Rules		
	Please	enter the time ru	ıle number (2 ·	50) (	λ
2	Sunday	[00:00_23:59]	[00:00 23:59]	[00:00 23:59	21
~	Monday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	21
	Tuesday	[00:00 23:59]	[00:00 23:59]	100:00 23:59	21
	Wednesday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	91
	Thursday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	21
	Friday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	91
	Saturday	[00:00 23:59]	[00:00 23:59]	00:00 23:59	ei l
	Holiday 1	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Holiday 2	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	ei.
	Holiday 3	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
3	Sunday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Monday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Tuesday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Wednesday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Thursday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Friday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Saturday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Holiday 1	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Holiday 2	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Holiday 3	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
4	Sunday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Monday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Tuesday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Wednesday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Thursday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Friday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Saturday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Holiday 1	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Holiday 2	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Holiday 3	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
5	Sunday	[00:00 23:59]	[00:00 23:59]	[00:00 23:59	9]
	Monday	[00:00 23:59]	[00:00 23:59]	100.00 23.50	1

0:18	Tii	me Ru	les	
Sunday				
Monday				
Tuesday				
Wednesda	ау		00:00 23:	59 >
т	00:00	to	23:59	
F	23		59	
9	00		00	
Ĭ	01		01	
	Cancel		ОК	

#### <u>NOTE:</u>

- 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 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 and it cannot be edited.

# 5.3 Holiday Settings

Whenever there is a holiday, the user 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 the users, and the user will be able to open the door during the holidays. The time period set here is taken as the standard.



On the **[Holiday Settings]** interface, select a date and type of the holiday. Enable **[Repeat]** to repeat the holiday yearly and then tap **[Next]**.

On this interface, tap either **Finish** to successfully add the newly created holiday, or tap **Continue** to create another holiday.

< Add a holiday	< Add a holiday
Please select the date *	The holiday is created successfully!
Type of holiday *	
	The holiday is successfully added. Tap continue to add new holidays or tap Exit.
Back Next	Continue Finish



## Edit Holiday

On the "holiday" interface, tap on the required holiday to modify.

### **Delete a holiday**

On the **holiday** interface, tap on the  $\overline{\mathbb{W}}$  button to delete the holiday.

Select the holiday which you would like to delete, tap on the W button in the lower right corner. On the pop-up window, tap **OK** to confirm deletion.



# 5.4 Verification Combination

Verification Combination function refers to a function that requires any member in different access control groups or multiple members in the same access control group to verify in turn (without sequence) within a certain period of time (the interval is 8 seconds), and then the door can be opened. It is mainly used in some special occasions with relatively high requirements. There can be a maximum of 5 personnel in each group, and a maximum of 10 groups can be set. The interface is as follows:

<	Verification Combination
	01 00 00 00 00 >
2	00 00 00 00 00 >
	00 00 00 00 00 >
ļ.	00 00 00 00 00 >
;	00 00 00 00 00 >
	00 00 00 00 00 >
	00 00 00 00 00 >
1	00 00 00 00 00 >
	00 00 00 00 00 >
0	00 00 00 00 00 >

# 5.5 Access Group Settings

The Access Control group setting is used to create an Access Group and configure Time Period as per the requirements. For the newly created access control group, the Verification mode, Time period and Holiday can be set accordingly. The interface is given below:

Access Group Number Verification mode Password/Card/Face	1	>
Verification mode Password/Card/Face		
		>
Time Period 1	1	>
Time Period 2	0	>
Time Period 3	0	>
holiday		

# 5.6 Anti-passback Setup

Anti-passback is a directional-control method used to control the misuse of an access control system. This feature involves a specific sequence where the access control devices must be mounted both inside and outside the door for access.

So, if any personnel enter an access-controlled area following another person without authenticating on the biometric device, then the next time during his out-time, the door does not open when that person attempts to leave the area. This function uses to detect whether the user's access is legal by determining the user's last access record and the local control direction, which can effectively prevent tailgating.

The Anti-passback setup can be divided into three types:

**No Anti-passback:** Anti-passback function is disabled, which means successful verification through either the master device or slave device can unlock the door. The attendance state is not saved in this option.

**Anti-passback Out:** After a user checks out, only if the last record is a check-in record, the user can check-out again; otherwise, the alarm will be triggered. However, the user can check-in freely.

**Anti-passback In:** After a user checks in, only if the last record is a check-out record, the user can check-in again; otherwise, the alarm will be triggered. However, the user can check-out freely.

**Anti-passback In/Out:** After a user checks in/out, only if the last record is a check-out record, the user can check-in again; or if it is a check-in record, the user can check-out again; otherwise, the alarm will be triggered.

**NOTE:** When the user has no record during the first verification, the anti-passback approval is passed directly. This access direction depends on the selection of the control direction of the device, corresponding to the state of the device.

The interface is shown below:



# 5.7 Duress Alarm Settings

Duress alarm refers to the alarm when the specified user verifies the duress fingerprint and duress password in an emergency After using the duress fingerprint and duress password, the alarm will be delayed according to the alarm delay parameters to achieve the purpose of duress alarm. The specific parameter setting interface is as follows:

<	Duress Alarm Setting	Is
1:1 Verifica	tion alarm	
1:N Verifica	tion alarm	
Password V	/erification Alarm	
Alarm dela	y time range (1~999s)	10 >

# 6 Attendance Search

The user's attendance records will be saved in the device, making it easier to find users' attendance records. The users can search for Attendance Logs and Visitor photos.

On the Main menu, tap Attendance Search, to search for required user's attendance record.

<	Ap	ps	
			5
User	Access Control	Attendance	Data
USB Management	Alarm Management	System Settings	management

1. Enter the query conditions such as the User ID, First or Last name of an employee in the search bar. Automatically the system displays the users with information that is relevant to the search query.



- 2. Tap on the icon to access the following window where you can select the [Starting Date] and [Ending Date] to search the records.
- 3. After setting the Start and End date, tap on [OK].

< Attendan	ce Sea	rch $\sim$	÷
Please enter the userna		Q Re	send(6)
2020-09-15			
Jack Chan User ID 1		11:27:22 Check-In(0)	
2020-09-18 Friday	to	End Date	
1			
	08	17	
2020	09	18	- 8
2019			- 88
2018			
Cancel		ок	
Jack Chan			
		Check-In(0)	
Jack Chan			
User ID 1			
Cancel Jack Chan User ID 1 ()) IT Jack Chan User ID 1 IT		OK 11:27:02 Check-In(0) 11:26:09	

4. The search results will be displayed as shown below:

<	Attendance Sear	rch 🗸 🛗
Pleas	e enter the username or ID	Q Resend(6)
2020-09-	15	
	Jack Chan User ID 1	11:27:22 Check-In(0)
	Jack Chan User ID 1	11:27:17 Check-In(0)
	Jack Chan User ID 1	11:27:13 Check-In(0)
	Jack Chan User ID 1	11:27:06 Check-In(0)
	Jack Chan User ID 1	11:27:02 Check-In(0)
	Jack Chan User ID 1	11:26:09

# 7 Data Management

The Data Management Settings allows the users to manage the device data, including Delete Attendance data, Delete All Data, Delete Attendance Photos, Delete Unregistered User Photos, Clear Admin Rights, Delete User Photos, Delete Wallpapers and Delete User Photo Templates.

On the **Main** menu, tap on **Data Management** to manage the data.



## **Function Description**

Function Name	Function Description
Delete Attendance Data	<ol> <li>Deletes all the attendance data.</li> <li>Deletes the attendance data within a specified time range.</li> </ol>
Delete All Data	Deletes the business data stored in the device, including attendance data, password/facial/fingerprint $\bigstar$ /card biometric data, privileges of the super admin, user photos, user data, and access control data.
Delete Attendance Photos	Deletes all the logs. Deletes invalid user accounts Deletes the attendance photos within a specified time range.
Delete Unregistered User Photos	<ol> <li>Deletes all (including attendance records and the photos of the user in blocklist)</li> <li>Deletes the unregistered user photo within specified time range.</li> </ol>
Clear Admin Rights	Changes the super administrator into a normal user.
Delete User Photos	Deletes all the user photos.
Delete Wallpapers	Deletes all the wallpapers stored in the device.
Delete User Photo Templates	Deletes the face templates in the device.

# 8 USB Management

The specific functions of the USB management interface are USB disk upload, USB disk download and USB disk settings.

On the Main menu, tap USB Management to manage the USB settings

< Apps		< U:	SB Management
User Management	Data Management		Upload from USB (Upload from USB to device)
USB Management Alarm Management			Download to USB (Download from device USB)
		ē	USB Settings (Configure USB paramet

### **Function Description**

Function Name	Function Description	
Upload from USB Upload USB disk content to the device.		
Download to USB	Download the data from the device to the USB disk.	
USB Settings	Configure the parameters of USB disk.	

# 9 Alarm Management

Once an alarm has been set, the device will automatically play the preselected alarm tone when the set alarm time is reached. It will stop ringing once the set time is elapsed.

On the Main menu, tap Alarm Management to configure the alarm settings.



# 9.1 Add Alarm

On the **Alarm** interface, tap on the button to set the alarm, and then tap **Save** to save and update.

<	Alarm	Save
15		20
16	:	21
17		22
Duplicate		Only once $>$
Alarm sound		Default tone >
Internal bell delay		1 >

### **Function Description**

Function Name	Function Description
Duplicate	Set the required number of counts to repeat the scheduled bell.
Alarm sound	Select a ring tone.
Internal bell delay	Set the replay time of the internal bell. Valid values range from 1 to 999 seconds.

## 9.2 Delete Alarm

On the **Alarm** interface, tap on 1 the delete button, then select the required alarm clock to delete.

And then tap on button that is displaying in the lower-right corner of the screen.

# 10 System Settings

System Settings are used for setting system parameters to maximize the device's ability as per the user requirements. In this interface, user can edit Network settings, Date and time, Attendance parameters, Cloud service settings, Wiegand settings, Display and Sound, Serial port, Biometric parameters, Detection management etc.

On the Main menu, tap [System settings] to configure the device settings.



## **10.1** Network Settings

On the System settings interface, tap [Network settings] to configure the settings

## **10.1.1** Ethernet Settings

When the device communicates with a PC via Ethernet, the network must be set up to make the device and the computer in the same network segment. When the device is not connected to the network, tap **[TCP/IP settings]** on the **Network settings** interface. The following screen will display:

< Network se	ettings
TCP/IP settings	
Enable ethernet	
DHCP	
IP address	192.168.163.99 🗡
Subnet mask	255.255.255.0 🗡
Gateway address	192.168.163.1 🗾
DNS	0.0.0.0 👱
TCP Comm. port	4370 🖊
Wi-Fi	
Wi-Fi settings	>
Mobile network	
Mobile data	
Comm. connection	
Comm. connection settings	>

#### **Function Description**

Function Name	Function Description
Enable ethernet	Enable to modify the Ethernet network address parameters. If this is not enabled, users cannot modify the Ethernet network address parameters.
DHCP	Enable DHCP to assign an IP address to the internal network or network service provider. If DHCP is on, you cannot manually set the IP of the device.
IP Address	The default IP is 0.0.0.0 (can be changed).
Subnet mask	The default IP is 0.0.0.0 (can be changed).
Gateway address	The default IP is 0.0.0.0 (can be changed).
DNS	The default IP is 0.0.0.0 (can be changed).
TCP COMM. port	The default TCP port is 4370 (can be changed).

**NOTE:** When the device is not connected to the network, the parameters such as IP address and subnet mask are 0.0.0.0; when the device is connected to the network, the parameters such as IP address and subnet mask are automatically displayed as set values.

## **10.1.2** Wi-Fi Settings

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

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

Tap [Wi-Fi settings] on the Network settings interface. The following screen will display:

< Netwo	ork settings	
Wi-Fi settings		
Wireless network		
Select network		
ZYPT-HW4		
Xiaomi_EC1C@46		
TP-Test@abc123		
TP-LINK_9F24		
MINI-zkt6-6		
TP_LINK_ceshi		
zktest		
TP-LINK_3DEE		
MINI-zkt6-7		
ABCabc123		-
Tenda_test		

- Wi-Fi is disenabled in the Device by default. Toggle on 🔍 button to enable or disable Wi-Fi.
- Once the Wi-Fi is turned on, the device will search for the available Wi-Fi within the network range.
- Tap on the appropriate Wi-Fi name from the available list, and input the correct password in the password interface, and then tap Connect to Wi-Fi I (**Save**).

When the Wi-Fi is connected successfully, prompt "Successfully save!" display on the Wi-Fi list, and the initial interface will display the Wi-Fi 🛜 logo.

<	Network settings	Save
Connecting zkte	est	
Signal strengt	th	Very strong
Secured mode	9	WPA
Password	please input passwor	d 😽
$q^{1} w^{2} e^{3}$	r t y u	i o p
as	dfqh	i k l
<u> </u>		
<b>■</b> Z 2	X C V D	

## **10.1.3** Mobile Network Settings

When the device is applied to a dial-up network, make sure that the device is within the signal coverage of the mobile operator (GPRS/4G).

Please insert the IOT card into the 4G module before enabling. Then tap on [Mobile data] to enable or disable mobile network in the **Network settings** interface.

Once turned on, the device is automatically connected.

<	Network se	ttings	
Enable etherne			
		192.168.163.99	2
Subnet mask		255.255.255.0	2
		192.168.163.1	2
DNS		0.0.0.0	2
TCP Comm. p	ort		2
Wi-Fi settings			>
Mobile network			
Mobile data			D

## **10.1.4** Comm. Connection Settings

To develop the security and confidentiality of the access data, you need to set a connection password. For a successful connection between the PC software and the device, the connection password must be accurate.

On the Network settings interface, tap on Comm. connection settings.





### **Function Description**

Function Name	Function Description
PC Communication password	It is used to gain the connection permission when using offline SDK or PULL SDK connection. If the password is not correct, the communication connection cannot be built. The value ranges from 0 to 999999. When the value is 0, there is no code status.
Device ID	The device ID ranges from 1 to 255. If the system is using the RS232/RS485 communication method, input the device ID during software communication.

## **10.2** Date and Time

## **10.2.1** Date and Time Settings

On the **System settings** interface, tap **Date and time** to enter the date and time settings interface.

<	System settings
Ì	Network settings
	Date and time
Ø	Attendance parameters
	Cloud service settings
0	Wiegand settings
	Display settings
_	Serial port settings
(د)»	Sound settings
*•	Biometric parameters
F	Detection management
P	Auto-testing
	Advanced settings
	About device

Tap **Set date** and swipe up and down to set the year, month, and day.

After setting required Date, tap **OK**.

17	:29			
	< Dat	te and ti	ime	
	Auto-synchronize net	work time		
	Set the time synchronization procedure			ne 🖊
	Set date			14 💆
	2021	-12-14 Tue	esday	
	2023			
	2022	11	13	- 55
	s 2021	12	14	
	2020		15	- 10
	<b>S</b> 2019			
	D Cancel		ок	
	Date format		YYYY-MM-	DD >
	24-Hour time format			

Tap **Set time** and swipe up and down to set the hour and minute.

After setting time, tap **OK**.



## **10.2.2** Date and Time Format Settings

On **Date and time** interface, tap **Date format**.

On **Date format** interface, select a required date format.

<ul> <li>YY-MM-DD</li> <li>YY/MM/DD</li> <li>YY.MM.DD</li> <li>MM-DD-YY</li> <li>MM/DD/YY</li> <li>MM.DD.YY</li> <li>DD-MM-YY</li> <li>DD/MM/YY</li> <li>DD.MM.YY</li> <li>WYY-MM-DD</li> </ul>	<ul> <li>YY-MM-DD</li> <li>YY/MM/DD</li> <li>YY.MM.DD</li> <li>MM-DD-YY</li> <li>MM/DD/YY</li> <li>MM.DD.YY</li> <li>DD-MM-YY</li> <li>DD-MM-YY</li> <li>DD.MM.YY</li> <li>YYY-MM-DD</li> </ul>	<ul> <li>YY-MM-DD</li> <li>YY/MM/DD</li> <li>YY.MM.DD</li> <li>MM-DD-YY</li> <li>MM/DD/YY</li> <li>MM.DD.YY</li> <li>DD-MM-YY</li> <li>DD/MM/YY</li> <li>DD.MM.YY</li> <li>YYY-MM-DD</li> </ul>	<	Date format
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ММ-DD-YY         ММ/DD/YY         ММ.DD.YY         D-MM-YY         DD-MM-YY         DD/MM/YY         DD.MM.YY         WH-DD-MM-YY	<ul> <li>MM-DD-YY</li> <li>MM/DD/YY</li> <li>MM.DD.YY</li> <li>DD-MM-YY</li> <li>DD/MM/YY</li> <li>DD/MM/YY</li> <li>DD.MM.YY</li> <li>YYYY-MM-DD</li> </ul>	<ul> <li>MM-DD-YY</li> <li>MM/DD/YY</li> <li>MM.DD.YY</li> <li>DD-MM-YY</li> <li>DD/MM/YY</li> <li>DD.MM.YY</li> <li>YYYY-MM-DD</li> </ul>	0	YY.MM.DD
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DD/MM/YY     DD.MM.YY     VYY-MM-DD	<ul> <li>DD/MM/YY</li> <li>DD.MM.YY</li> <li>YYYY-MM-DD</li> </ul>	DD/MM/YY      DD.MM.YY      YYYY-MM-DD	0	DD-MM-YY
<ul> <li>DD.MM.YY</li> <li>YYYY-MM-DD</li> </ul>	DD.MM.YY     YYYY-MM-DD	O DD.MM.YY  VYYY-MM-DD	0	DD/MM/YY
YYYY-MM-DD	YYYY-MM-DD	YYYY-MM-DD	0	DD.MM.YY
			۲	YYYY-MM-DD

On Date and time interface, tap **24-Hour time format** option to enable this function.

Auto-synchronize netw	ork time
Set the time synchronization procedure	Sync cloud server time 🙎
Set date	2021-12-15 🗾
Set time	09:17 👱
Time zone	
Sync cloud server time	zone
Select time zone	GMT+08:00, China > Standard Time
Date and time format	
Date format	YYYY-MM-DD >
24-Hour time format	

### **Function Descriptions**

Function Name	Function Description			
Auto-synchronize network time	It is enabled by default. Users can modify the time synchronization source After disable, users can modify the time synchronization procedure, and so the date and time.			
Sync cloud server time	It is used for synchronizing the time between the software and server to which the device is connected.			
Sync network time	It is used for synchronizing the actual time of the internet.			
Sync cloud server time zone	This option is enabled by default and used for synchronizing the time zone issued by the software.			
Select time zone	The default time zone is GMT + 8:00, China Standard Time. Users can select time zone as per their requirements.			

# **10.3** Attendance Parameters

On the **System settings** interface, tap on **Attendance parameters** to enter the attendance record settings interface.

## **10.3.1** Attendance Events

Attendance Events are used to record the clock-in/out status. There are 6 default attendance statuses, including Clock-in, Clock-out, Break-out, Break-in, Overtime-in, Overtime-out. The 6 default statuses cannot be deleted or modified.

### **Add Attendance Events**

Tap on [Attendance events].

1. On the **Attendance Events** interface, tap on to open the attendance event interface.

<	Attendance events	Ŵ
Check-In		>
Check-Out		>
Break-Out		>
Break-In		>
Overtime-In		>
Overtime-Out		>
		Ŧ

2. In the attendance event creation wizard, tap on [Start].



3. Enter the [Name] and [Status Value] of the new attendance event.

**NOTE:** The maximum length of the name is 24 characters. The status values must be unique and cannot be duplicated. The value ranges from 6 to 250.

< Add a new attendance even	t
Please enter the name	*
Please enter the status value (6-250)	*
Back Next	

4. If the input status value repeats or exceeds the limit, the following message will appear.

<	A	dd a i	newa	atten	danc	e eve	ent	
Chee	ckvlue							*
3								*
(Inco	rrect st	atus va	alue ra	nge, ple	ease try	/ again	)	
(		Back		)		Next		
q 1	N <sup>2</sup> 6	3	r ·	t y	γι	7	i <sup>®</sup> c	• p
а	S	d	f	g	h	j	k	I
*	z	х	С	V	b	n	m	
?123	,							Ø

5. If the attendance event is created successfully, the success message appears as shown below:

< Add a new attendance event
Attendance event created successfully!
The attendance event has been created successfully! Please choose either to continue to add or exit.
Continue adding Done

## **Edit Attendance Events**

1. Select an attendance event.

<	Attendance events	创
Check-In		>
Check-Out		>
Break-Out		>
Break-In		>
Overtime-In		>
Overtime-Out		>
		Ŧ

#### 2. Tap on [Name] or [Status value] to edit.

**NOTE:** The first 6 attendance events cannot be edited. The status values must be unique and cannot be duplicated.


### **Delete Attendance Events**

1. Select an attendance event and tap on the  $\overline{\mathbb{W}}$  icon on the upper right corner.

**NOTE:** The first 6 events cannot be deleted, so the delete button will not appear).

<	Attendance events	Ŵ
Check-In		>
Check-Out		>
Break-Out		>
Break-In		>
Overtime-In		>
Overtime-Out		>
		+

2. Tap on **[OK]** on the appearing window to delete the attendance event.

Attendance	e events X		
Opertime In Do you want to delete the selected attendance event?			
Cancel	ок		

3. The event is now deleted and will not appear on the list.

<	Attendance events	$\times$
Check-In		
Check-Out		
Break-Out		
Break-In		
Overtime-In		
Overtime-Ou	ıt	

### 10.3.2 Status Mode

There are three modes for attendance statuses.

Timed state transition: Displays different attendance statuses at different times.

Fixed mode: There is only one fixed attendance mode.

Disable mode: The Status mode will not be used.

#### **Timed State Transition**

1. After selecting the **[Timed State Transition]** button, tap on the *L* button to set the related parameters.



2. On the Timed state transition interface, tap on [Check in], then tap on [Repeat daily].



3. When the [Repeat daily] option is enabled, the following screen will be displayed.

< Timed state tra	ansition
Attendance events	Check-In
Repeat daily	
Time	11:24 💆

4. Tap on the [Time] button and swipe up and down to set the time. Tap on [OK].

11:25	limed s	tate	transiti	on	<b>(-</b> -)
Attendance	events			Check-	
Repeat daily					
Time				11:24 🗕	2
		11:2	24		
	10		23		
	11		24		
	12		25		
Ca	ancel			ок	

5. When the [Repeat daily] option is disabled, the following screen will be displayed.



6. Tap on the button for the date you would like to set, then swipe up and down to set the corresponding time. Tap on **[OK]**.

11:34 🔲 💭 💮					<->	
Control State Transition						
Attendance	e events				heck-In	
Repeat dail	у					
		00:0	00		- 8	
					- 8	
(	00		00		- 8	
	01		01		- 8	
C	Cancel			ок		

7. After applying the settings, the interface appears as shown below:

< Timed state tra	nsition
Attendance events	Check-In
Repeat daily	
Sun 10:00	
Mon	
Тие	
Wed	
Thu	
Fri	
Sat	

**NOTE:** The settings process for "Clock out", "Break out", "Break in", "Overtime in", and "Overtime out" is the same as "Clock in".

### Fixed Mode

1. The status mode is set to **Fixed mode**, tap on the *intervention* button to open the Fixed Mode options menu.

< Attendance parameters	
Attendance events	
Attendance events	>
Status mode	
O Timed state transition	_
Fixed mode	2
○ Disable mode	
Widget function rules	
Execute	
Camera mode	
No photo	
O Capture photo and save	
O Save after successful verification	
O Save after failed verification	
Verification settings	
Show the verification photo	

2. In the Fixed mode selection menu, select the attendance status that the user would like to set.

< Attendance parameters
Fixed mode selection
O Check-In
O Check-Out
O Break-Out
O Break-In
Overtime-In
O Overtime-Out

### **Disable Mode**

Select the Status mode as "Disable Mode".

< Attendance parameters
Attendance events
Attendance events
Status mode
○ Timed state transition
○ Fixed mode
Disable mode
Widget function rules
Execute
Camera mode
No photo
O Capture photo and save
O Save after successful verification
O Save after failed verification
Verification settings
Show the verification photo

## **10.3.3 Widget Function Rules**

Tap on the **[Execute]** toggle button to enable. The main interface will display the attendance status widget.

< Attendance parameters
Attendance events
Attendance events
Status mode
◯ Timed state transition 🖉
◯ Fixed mode
Disable mode
Widget function rules
Execute
Camera mode
No photo
O Capture photo and save
O Save after successful verification
○ Save after failed verification
Verification settings
Show the verification photo

## 10.3.4 Camera Mode

Here, the user can set the procedure of capturing and saving the user photos after verification as per the requirements.

Tap on the **[Camera mode]** to set the required parameters.

<	Attendance p	arameters			
Camera m	Camera mode				
🖲 No ph	No photo				
🔿 Captu	O Capture photo and save				
O Save a	after successful ver	ification			
O Save a	after failed verificat	ion			
Verification	n settings				
Show the	Show the verification photo				
Attendan	ce alert	Disable	2		
Periodic	deletion of attendar	nce data 99	2		
Periodic of photos	deletion of attendar	Disable	2		
Periodic of photos	deletion of unregiste	ered user <sub>Disable</sub>	2		
Delay dur confirmat	ation of the tion screen	5 second(s)	2		
Facial rec	cognition interval	2 second(s)	2		
Verificatio	on time interval	5 second(s)	2		

**No photo:** User's photo will not be saved during verification.

Capture photo and save: User's photo will be taken and saved during verification.

**Save after successful verification:** When the user verification is successful, the photo is taken and saved.

Save after failed verification: When the user verification is failed, the photo is captured and saved.

## **10.3.5** Verification Settings

Here, the user can configure the parameters for user verification.

< Attendance Parame	ters	
Verification Settings		
Show the Verification Photo		
QRCode		
Attendance Alert	Disable	2
Periodic deletion of attendance data	99	2
Periodic deletion of attendance photos	Disable	2
Periodic deletion of unregistered use photos	er <sub>Disable</sub>	2
Delay duration of the 3 s	second(s)	2
Facial Recognition Interval	0	2
Verification Time Interval	None	2
Validity		
User Validity Settings		
Keep user information and delete	e the atten	dance log
O Keep user information and save	the attend	ance log

Function Name	Function Description
Show the verification photo	If it is enabled, the user photo will be displayed; if not, the user photo will not be displayed.
QRCode	If it is enabled, the camera can recognize the QR code image captured by the lens.
Attendance alert	When the remaining record memory space reaches a set value, the device will automatically display a warning. When the value is set as 0, the function will be disabled.
Periodic deletion of attendance data	When the attendance record memory has reached the full capacity, the device will automatically delete a set value of old attendance records. When the value is set as 0, the function will be disabled.
Periodic deletion of attendance photos	When the space storing blocklisted photos have reached full capacity, the device will automatically delete a set value of old blocklisted photos. When the value is set as 0, the function is disabled.
Periodic deletion of unregistered user photos	When the capacity of blocklisted photos have reached the full capacity, the device will automatically delete a set value of old blocklisted photos. When the value is set as 0, the function will be disabled.
Delay duration of the confirmation	This is the length of time that a user's information will display on the

screen	system's screen after successful verification.
Facial verification interval	This is the facial template matching time interval that users can set as 0 to 9 seconds.
Verification time interval	Set the verification time interval as needed. The valid range is 0 to 999999 seconds.

## **10.3.6** Validity Period of User Information

This is used to determine if user validity periods are enabled or disabled when registering users.

#### Tap User validity settings to enable.

When User validity settings is enabled, the following interface will display. Select the setting you would like to configure.

< Attendance paran	neters
Verification settings	
Show the verification photo	
Attendance alert	Disable 🗾 🧷
Periodic deletion of attendance da	ata 99 🗾
Periodic deletion of attendance photos	Disable 🗾 🗾
Periodic deletion of unregistered uphotos	user <sub>Disable</sub> 🗾
Delay duration of the confirmation screen	5 second(s) 🛛 💆
Facial recognition interval	2 second(s) 🛛 💆
Verification time interval	5 second(s) 🛛 💆
Validity	
User validity settings	
• Keep user information and dele	ete the attendance lo
O Keep user information and sav	ve the attendance log
O Delete user info	

# **10.4** Cloud Service Settings

On **System settings** interface, tap **[Cloud service settings]** to enter the cloud service settings interface.

Server Server type ADMS Server type ADMS Server type ADMS Server address 0.0.0.0 Server port 8081 Enable proxy server	< Cloud service	settings
Server type     ADMS       Enable domain name     Image: Comparison of the server address       Server address     0.0.0.0       Server port     8081       Enable proxy server     Image: Comparison of the server address	Server	
Enable domain name Server address 0.0.0.0 Server port 8081 Enable proxy server	Server type	adms >
Server address 0.0.0.0 2 Server port 8081 2 Enable proxy server	Enable domain name	
Server port 8081 2	Server address	0.0.0.0 👱
Enable proxy server	Server port	8081 💉
	Enable proxy server	
Open HTTPS	Open HTTPS	

Iten	n	Function Description
Enable domain name	Server address	When this function is enabled, the domain name mode "http://" will be used, such as <a href="http://www.XYZ.com">http://www.XYZ.com</a> , while "XYZ" denotes the domain name when this mode is turned ON.
Disable Domain	Server address	IP address of the ADMS server.
Name	Server port used by the ADMS se	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.
Open HTTPS		If it is enabled, it needs to restart to take effect, and the data is uploaded to the push terminal. The address is changed from HTTP to HTTPS.

## **10.5** Wiegand Settings

On **System settings** interface, tap **Wiegand settings** to access the interface as shown below.

<	Wiegand settings	
Wiegand setti	ngs	
Wiegand in		>
Wiegand ou	t	>

## 10.5.1 Wiegand In

On Wiegand settings interface, tap Wiegand in to open the settings.

<	Wiegand in	
Wi	egand in	
W	iegand format	>
W	iegand in bits (bit) 26	>
ID	type Card number	>

Function Name	Function Description
Wiegand format	The Wiegand value could be 26bits, 34bits, 36bits, 37bits, or 50bits.
Wiegand in bits (bit)	It displays the number of bits of Wiegand data. After choosing <b>Wiegand input bits</b> , the device will use the set number of bits to find the suitable Wiegand format in <b>Wiegand Format</b> .
ID type	The user can input <b>User ID</b> or <b>Card number</b> .

Various common Wiegand format definitions:

Wiegand Format	Description
Wiegand 26	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Wiegand26a	ESSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Wiegand34	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Wiegand34a	ESSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Wiegand 36	OFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegand36a	EFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegand 37	OMMMMSSSSSSSSSSSSSSSCCCCCCCCCCCCCCCCCCC
Wiegand 37a	EMMMFFFFFFFFFFSSSSSSCCCCCCCCCCCCCCCCCCCC
Wiegand50	ESSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
<b>"C</b> "denotes the ca <b>"F</b> " denotes the fac <b>"S</b> " denotes the site	ard number; " <b>E</b> " denotes the even parity bit; " <b>O</b> " denotes the odd parity bit; cility code; " <b>M</b> " denotes the manufacturer code; " <b>P</b> " denotes the parity bit; and

## 10.5.2 Wiegand Out

### On **Wiegand settings** interface, tap [**Wiegand Out**] to open the wiegand out interface.

<	Wiegand out	
Wiegand out		
Wiegand format		>
Wiegand out bits	(bit) 26	>
Failed ID	Disabled	>
Site code	Disabled	>
Pulse width (µs)	100	2
Pulse interval (µs)	1000	2
ID type	Card number	>

Function Name	Function Description
Wiegand format	The Wiegand format value could be 26bits, 34bits, 36bits, 37bits, 50bits.
Wiegand out bits (bit)	After choosing the Wiegand format, you can select one of the corresponding output digits in the Wiegand format.
Failed ID	If the verification is failed, the system will send the failed ID to the device and replace the card number or personnel ID with the new ones.
Site code	It is similar to device ID except that it can be set manually and repeatable with different devices. The default value ranges from 0 to 256.
Pulse width (us)	The time width represents the changes of the quantity of electric charge with high-frequency capacitance regularly within a specified time.
Pulse interval (us)	The time interval between pulses.
ID type	Select the ID type as User ID or Card number.

# **10.6** Display Settings

On the **System settings** interface, tap **Display settings** to enter the display settings interface.

Brightness settings Operation brightness 10  10  10  10  10  10  10  10  10  1	rightness settings  iperation brightness 100  dele-time screen brightness 106  elay  Atenu timeout 10 minutes >  Alalpaper  sustomization of wallpaper and theme >	< Display settings		
Operation brightness 100  Idle-time screen brightness 100  Delay  Menu timeout 10 minutes  Wallpaper	peration brightness 100	Brightness settings		
Idle-time screen brightness 100 Delay Menu timeout 10 minutes > Wallpaper	dle-time screen brightness 106	Operation brightness		100
Idle-time screen brightness 100 Delay Menu timeout 10 minutes Wallpaper	Ille-time screen brightness 106 elay Menu timeout 10 minutes > Xallpaper ustomization of wallpaper and theme >			
Delay Menu timeout 10 minutes > Wallpaper	elay  Allpaper  Lustomization of wallpaper and theme	Idle-time screen brightness		106
Delay Menu timeout 10 minutes > Wallpaper	elay  fenu timeout  10 minutes  /allpaper  uustomization of wallpaper and theme	•		
Menu timeout 10 minutes > Wallpaper	fenu timeout     10 minutes     >       /allpaper	Delay		
Wallpaper	/allpaper ustomization of wallpaper and theme >	Menu timeout	10 minutes	>
	ustomization of wallpaper and theme $>$	Wallpaper		
Customization of wallpaper and theme		Customization of wallpaper and the	me	>

	Function Name	Function Description
Brightness	Operation brightness	Set the device working brightness, such as when setting parameter or face recognition.
setting	Idle-time screen brightness	Screen brightness when the device is on the standby mode.
Delay	Menu timeout	Menu timeout occurs when no operations are performed for a certain amount of time after a user has entered the menu, and the menu enters into standby screen. Parameter options include: 1 minute, 2 minutes, 5 minutes, 10 minutes, the menu (including sub-menus) will not automatically close. Users must tap "Exit" to exit the menu.
Wallpaper	Customization of wallpaper and theme	Choose your favourite wallpaper from the theme wallpaper interface

# **10.7** Serial Port Settings

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

On the System settings interface, tap Serial port settings to enter the Serial port settings interface.

<	Serial port settings	
Serial port fu	nction	
Serial port	Not used	>
Baudrate		>

Function Name	Function Description
Serial port	No used: Do not communicate with the device through the serial port.
	The rate at which the data is communicated with PC, there are 4 options of baud rate: 115200, 57600, 38400, and 19200.
Baudrate	The higher is the baud rate, the faster is the communication speed, but also the 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.

# **10.8** Sound Settings

On the **System settings** interface, tap **Sound settings** to enter **Sound settings** interface.

<	Sound settings	
Prompt switch		
Voice prompt		
Touch prompt		
Volume setting		
Voice volume		6

Function Name	Function Description
Voice prompt	When voice prompts are enabled, users will receive voice prompts. Voice prompts will not be received when this setting is disabled. When voice prompts are disabled and then re-enabled, the volume level will be automatically set to 1.
Touch prompt	This switch enables/disables touchscreen prompt. When touch prompt is enabled, users will receive touchscreen prompts. When touch prompt is disabled, no touchscreen prompts will be received.
Voice volume	It is used for adjusting volume. This can only be used if audio prompts are enabled. It can be set from 0-15.

## **10.9 Biometric Parameters**

On the **System settings** interface, tap **Biometric parameters** to enter the **Biometric parameters** interface.

1:1 Repetition times	3 🖊	
Facial Parameters		
Save Photo as Template		
1:1 Matching threshold	56 👱	
1:N Matching threshold Recommended value 65	65 👱	
Face enrollment threshold Recommended value 68	68 👱	
Other parameters		
Ambient light (Fill light) threshold	100 👱	
Motion detection threshold	500 👱	
Facial recognition angle	20 👱	
Face size for detection	115 👱	

<	Biometric parameter	'S
1:N Mato	ching threshold	65 👱
Face enro	ollment threshold ed value 68	68 🗡
Other para	ameters	
Ambient	light (Fill light) threshold	100 👱
Motion d	etection threshold	500 👱
Facial re	cognition angle	20 👱
Face size	e for detection	115 👱
Support I	IR anti-counterfeiting	
Verificati Rays for	on Repeating Times with IR Anti-Spoofing	1 🔟
Antiband	leffect	50Hz >
Prevent s multiple	simultaneous facial recognitio entrances	on from 🛛 🛑
Facial re	cognition threshold settings	Low >
Open aux	kiliary line correction	

Funct	tion Name	Function Description
Password parameters	1:1 Repetition times	The upper limit of the number of failed verifications under 1:1 verification. When the number of failed verifications reaches the set value, the system will return to the standby interface.
	Save Photo as Template	Select whether to enable or disable
Facial		When conducting 1:1 face verification, face data is collected and instantly compared with face data using a 1:1 algorithm.
Parameters	1:1 Matching threshold	This is converted into a value that is then compared to a set value. If the value of the scanned face exceeds that of the set value, the verification passes. If it does not, the verification fails.
		The higher the threshold, the more accurate the matching; the lower the threshold, the higher the

		matching success rate
		חומנכווווש שנכביש ומוכ.
	1: N Matching threshold	<ul><li>When conducting 1: N verification, face data is collected and instantly compared with all face templates on the system using a 1: N algorithm.</li><li>This is converted into a value that is compared to a set value. If the value of the scanned face exceeds that of the set value, the verification has passes. If it does not, the verification fails.</li><li>The higher the threshold, the more accurate the</li></ul>
		matching; the lower the threshold, the higher the matching success rate.
	Eace enrollment	In face recognition, the higher the threshold is set, the higher the accuracy of face recognition will be, which may lead to unrecognizable.
threshold	threshold	On the contrary, if the threshold is too low, the accuracy of face recognition will be lower, which may lead to misjudgement and other phenomena. The default value is 68.
		It is used for detecting ambient light brightness.
	Ambient light (Fill light) threshold	When the brightness of the surrounding environment is less than the threshold, the complementary light is turned on; when the brightness is greater than the threshold, the complementary light is not turned on.
		The default value is 100.
	Motion detection threshold	It is used for detecting whether there is a moving person in front of the device to determine whether the face recognition function is enabled. The default value is 500.
Other parameters	Face recognition angle	To limit the face angle at face recognition, the recommended threshold is 20.
	Face size for detection	The size of the face when face recognition. The range is 65-320 cm. The smaller the value, the farther the detectable distance is otherwise, the closer it is.
	Support IR anti- counterfeiting	It supports face anti-counterfeiting. After enable, it can anti-counterfeiting recognition on face photos to ensure the authenticity of face
	Verification Repeating Time with IR Rays for Anti-Spoofing	The upper limit of the number of failed verifications under face verification when IR Anti-counterfeiting is enable. Valid values 1 to 6. When the number of failed verifications reaches the set

	value, the system will return to the standby interface.
Antiband effect	When using an external power supply with AC power, the pictures taken by the device will produce noise due to the AC power changing back and forth. According to the specific use of AC power can be adjusted to 50Hz or 60Hz.
Prevent	When multiple devices are installed on the side-by-side entrance, please enable this function to prevent multiple devices from simultaneously recognizing the face.
simultaneous facial recognition from multiple entrances	Set the threshold to three types: high, medium, and low. The higher the threshold, the narrower the distance between the guidelines and the smaller the face recognition range on the screen.
	When setting the threshold, it is recommended to open auxiliary line correction function.
Facial recognition threshold settings	When the Prevent simultaneous facial recognition from multiple entrances is enabled, you can set the threshold value of the face, low, medium and high.
Open auxiliary line correction	When this feature is enabled, the user is prompted to place their face in the center of the device screen to quickly pass authentication.

# **10.10** Detection Management

On the **System settings** interface, tap **Detection management** to enter into detection management interface.

This interface is added for enabling temperature screen with infrared and mask detection.

< Detection management
Enable temperature screening with infrared
High temperature alarm threshold $$37.3^\circ C$$
Temperature over the range access denied
Temperature deviation correction $0.0$ $>$
Temperature unit $^{\circ}C$ $>$
Temperature measurement distance $\qquad$ near $\qquad>$
Display thermodynamics figure
Display body temperature
Enable mask detection
Deny access without mask
Allow unregistered people to access
Enable capture to unregistered person
Trigger external alarm

< Detection management
Temperature over the range access denied
Temperature deviation correction 0.0 $>$
Temperature unit $~^\circ\!\! C~>$
Temperature measurement distance $\qquad$ near $\qquad>$
Display thermodynamics figure
Display body temperature
Enable mask detection
Deny access without mask
Allow unregistered people to access
Enable capture to unregistered person
Trigger external alarm
Clear external alarm
External alarm delay(s) $$10\ >$

Function Name		Function Description
Temperature Screening with Infrared	Enable temperature screen with infrared	The temperature screen with infrared module is set as <b>Off</b> or <b>On</b> .
	High temperature alarm threshold	To set the value of the alarm threshold for high body temperature.
		When the temperature measured during verification is higher than the set value, the device will give a prompt and audio alarm. The default alarm threshold is 37.30°C.
	Temperature over the range access denied	When enabled, if the user's body temperature measured is above (or below) the alarm threshold, the user will not be granted access even if his/her identity is verified.
		When disabled, access is granted to the user if his/her identity is verified, regardless of his/her body temperature.
	Temperature deviation correction	As the temperature measurement module reads a small range of variation of an observed value under unusual environments (humidity, extreme room temperature and such), the users may set the deviation value here to reflect the true

		temperature of the person.
	Temperature unit	The unit of body temperature can be toggled between Celsius (°C) and Fahrenheit (°F).
	Temperature measurement distance	There are three modes while measuring temperature during the verification process, they are: <b>Near, Close</b> and <b>Far</b> .
	Display thermodynamics figure	To enable or disable the display of the thermal image of a person. When enabled, the thermal image of the person is be displayed in the upper left corner of the device during the detection process.
	Display body temperature	To enable or disable the display of body temperature. When enabled, the device will display the user's body temperature value during the verification process.
Mask Detection	Enable Mask Detection	To enable or disable the mask detection function. When enabled, the device will identify whether the user is wearing a mask or not during verification.
	Deny access without mask	To enable or disable the access of a person without mask. When enabled, the device will deny access of a person, if not wearing a mask.
	Allow unregistered people to access	To enable or disable the access of unregistered person. When enabled, the device allows the person to enter without registration, as long as the person who passes the detection.
	Trigger external alarm	When enabled, if the user's temperature is higher than the set threshold value or the mask detection is enabled, but the mask is not worn by the person, it will trigger an alarm.

Clear external alarm	It clears the triggered alarm records of the device.
External Alarm Delay(s)	The delay (s) time for triggering an external alarm. It can be set in seconds. Users may disable the function or set a value between 1 to 255.

## 10.11 Auto-testing

On the **System settings** interface, tap on **Auto-testing** to enter the auto testing interface.

<	Auto-testing	
Hardware testi	ng	
Screen test		>
Audio test		>
Camera test		>

Function Name	Function Description
Screen test	It is used for testing the screen's display. The screen will display red, green, blue, white, and black tests.
	Check if the screen color is uniformly correct across each area of the screen. Tap on anywhere on the screen during testing to continue testing. Tap on the back key to exit testing.
Audio test	The device automatically tests audio prompts by playing back audio files that are stored in the device.
	Voice testing mainly test if the device's audio files are complete and if the audio effects are in good working order. Tap on the back key to exit testing.

_	10.11
Camera test	ima

It is used for testing if the camera is functioning properly. Check captured image to see if the image quality is clear and usable.

## **10.12 Advanced Settings**

On the **System settings** list, tap on **Advanced settings** to enter the **Advanced settings** interface.



Function Name	Function Description	
Select language	Select the language of the device.	
Reset to factory settings	It is used for restoring the settings of the device, including communication settings, system settings, to the factory settings.	
Cloud service upgrade settings	Whether to enable ZKClouds upgrade.	

# **10.13** About Device

#### On the **System settings** interface, tap **About device** to open the **About device** interface.

<	About device
Capacity info	
User capacit	,
Used 2	Max 3000
Facial templa	te capacity
Used 1	Max 3000
Administrato	capacity
Used 0	Max 3000
Attendance I	og capacity
Used 0	Max 100000
Attendance p	hoto capacity
Used 0	Max 500
Unregistered	user photo capacity
Used 0	Max 50
User photo c	apacity
Used 0	Max 3000
Device info	

Serial number	724121490000
MAC address	00:17:61:12:eb:7
Platform information	ZIM200_TF
Platform version en	ng.huangle.20211124.08340
Manufacturer	ZKTECO CO.,LTD
Algorithm version	
Face algorithm version	ZKFace V5.6.2
Firmware version	
Extension module	
Card module	ICM370L-V1.00+B127-V2.04
PUSH Ver.	Ver 2.0.38-20210713
Version:	

Function Name	Function Description
Capacity info	It displays the current device's capacity of user, facial template, administrators, attendance records, attendance photos, unregistered user photos, and user photos.
Device Information	It displays the device's name, device type, serial number, MAC address, algorithm version, platform information, and manufacturer.
Algorithm version	It displays the device's face algorithm version.
Firmware version	It displays the device's extension and card module, push version.
Version	It displays all the versions of all the system's apps, such as the system settings, data management, and other installed apps.

# **10.14** Security Setting

#### On the **System settings** interface, tap **Security Setting** to open the security setting interface.



Function Name	Function Description
Security Mode	Select whether to enable security mode to protect the device and the user's personal information. You can set the device to work offline, and hide the user's personal information to prevent leakage during user verification.
ADB network	It displays the device's name, device type, serial number, MAC address, algorithm version, platform information, and manufacturer.
Privacy Policy	Display the device's privacy policy.

## 10.15 Restart

On the **System settings** interface, tap **Restart**, the device will pop-up, please choose whether to restart according to your needs.

11:56	System s	ettings
	Access control record	settings
	Cloud service settings	
0	Wiegand settings	
	Display settings	
	Do you want	to restart?
	Cancel	ок
	Auto-testing	
	Advanced settings	
	About device	
	Security Setting	
*	Restart	

# 11 Connect to ZKBioSecurity Software

## **11.1** Set the Communication Address

#### • Device side

1. Tap **System settings** > **Network settings** > **TCP/IP settings** in the main menu to set the IP address and gateway of the device.

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

 In the main menu, click System settings > Cloud server settings to set the server address and server port.

Server address: Set the IP address as of ZKBioSecurity server.

**Server port:** Set the server port as of ZKBioSecurity (The default is 6609).

	< Network se	ettings
	TCP/IP settings	
1	Enable ethernet	
	DHCP	
	IP address	192.168.163.99 🟒
	Subnet mask	255.255.255.0 👱
	Gateway address	192.168.163.1 🟒
	DNS	0.0.0.0 👱
	TCP Comm. port	4370 🖊
	Wi-Fi	
	Wi-Fi settings	>
	Mobile network	
	Mobile data	
	Comm. connection	
	Comm. connection settings	>



#### • Software side

Login to ZKBioSecurity software, click **System** > **Communication** > **Communication Monitor** to set the ADMS Service Port, as shown in the figure below:

	ZKTeeo		L			ŵ	() 	1 1 1			ata			+	ŝ	
	<b>I</b>		Adms Se	rvice Setting	gs											
88	Basic Management	$\oplus$	Adms	Service Por	t	6609										
			A Th	ne current p	ort is for de	vice commu	nication serv	ice, if there i	is a network	mapping for	r the service	port, please	e refer to the	actual mapp	ped port.	
ц	Authority Management	$\oplus$	Projec	t control file	version	None										
	Communication	Θ	Turn o transn	n encrypted hission	1	● No ○ Ye	es									
	Device Commands		Server Si	de Network	Condition											
	Communication Device		Whether connect	r the Interne ion is norma	et Ye	85										

## **11.2** Add Device on the Software

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

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

ZKTECO	1 L 🛛 🕂 🖷 📾 📾 🤮 🛔 📱 🛹 🐨 🕸	😝 admin 👻
-	Device Name Serial Number IP Address More * Q. 🛞	
E Device	Search Criteria None	
<b>Q ****</b>	🕐 🖓 New 🎡 Delete 🥂 Export 🔍 Search 🖳 Control - 🛞 Setup - 📿 View / Get - 💆 Communication -	
Device	Device Name Serial Number Area Name Communication Network IP Address R8495 Status Device Register Firmware Version Operations	
I/O Board	Type Connection Parameter Model Device	
Door	192 168.162.110 61262	
Reader	1122168.5247 61822	
And Transformer	192 168 10 221 Aultat Search No device Bound? <u>Download Search Tools to Local Disk</u>	
Auxiliary Input	192.168.212.19 CKVS; Total Progress 100% Sector 30% Number of devices addrd 16	
Auxiliary Output	192.168.217.201 20100 IP Address Device Type Serial Number 🛞	
Event Type	192-168-168-12 660621 IP Address MAC Address Subort Mask Gatesay Address Sarial Number Device Tune Set Server Operations	
Daylight Saving Time	102-108-108-13 66083 tr 1 255-255.255 0 1 2 20 1 1 rd 20 0 This sector has been added	
Device Monitoring	192,158,1221 BRIET 19- 21 255,255,0 1 P. P.O.F. This device has been added	
Deal Time Manifester	192-193-192-241 65932 1r 71 255-255-0 19 4 11 r 4 The device has been added	
Real-rime monitoring	Lac-Instit 57562 1 1241 255.255.0 1 52.1 6 229 F R) This device has been added	
Alarm Monitoring	Lac-Iss12 CK.00 10 255.255.0 1 6 003 The device has been added	
Мар	Lac-Itat3 CK.00 192 13 255.255.0 1 6t	
	192 198 1 107 BRID2 192 00 255 255 0 192 1 C G4 Pro[TI] Add	
	192 158 212 25 CEX01 1 0.12 255 255 25 0 10' 1 00 This device has been added	
	192 166 166 16 65032 1 13 255 255 25 0 11 1 t e This device has been added	
	192 198 166 15 65833 19 5 255.255 255.0 1 p.1 65 004 This device has been added	
	1 192 169 163 163 164 AT the current system communication port is 6009, please make sure the device is set correctly,	
Access Control	C C C C C C C C C C C C C C C C C C C	
Advanced Functions		
Reports G	C IC C 1-17 > > I S0 rows per page - Jumo To 1 // Page Total of 17 records	

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

## 11.3 Mobile Credential

After downloading and installing the App, the user needs to set the Server before login. The steps are given below:

 In [System] > [Basic Management] > [Parameters], set Enable QR Code to "Yes", and select the QR code status according to the actual situation. The default is Dynamic, the valid time of the QR code can be set.

ZKTeco	£		Ð	÷	( <b>1</b> -1) ↓				a <b>t</b> a			$( \neq )$	ŝ	
④	QR Code	e Setting												
Basic Management 🕞	Enable	QR Code (	⊃No ⊙Ye ⊖St	es atic 💿 Di	ynamic Va	lid Time: 1	00 seco	ond(30-300)						
Operation Log	🛕 Swit	tch between	static QR co	ode and dy	namic QR co	ode should b	e careful, fre	equent switc	n may lead t	o device en	orl			
Database Management														
Area Settings														
Department														
E-mail Management														
Dictionary Management														
Data Cleaning														
Audio File														
Data Migration														
Certificate Type														
Print Template														
System Monitoring														
Parameters														

2. On the Server, choose [System] > [Authority Management] > [Client Register] to add a registered App client.

	New	×
Client Type*	APP Client	
Registration Code*	095291	
OF	Cancel	

	ZKTeco		£		0				8 <b>1</b> 8	A (+)	<b>@</b>
	<b>I</b>		Regis	tration Code		Client Type		- /	Activation		Q 🛞
	Basic Management	⊕ s	earch	Criteria None							
			🦻 Re	fresh 🕒 New	🕤 Reset 👔	P Delete					
ф	Authority Management	Θ		Registration Code	Client name	Registration Key	Activatio	Activated Date	Creation Date	Client Type	Operations
	User			095291			•		2021-04-27 10:50:14	APP Client	Delete Register QR-code
	Role			97B4EB	Julia		0	2021-04-26	2021-04-25 17:03:33	APP Client	Delete Register QR-code
	API Authorization			74231C			0	2021-04-25	2021-04-25 15:10:59	APP Client	Delete Register QR-code
	Client Register			A25536	Vanessa	-	0	2021-04-23	2021-04-23 10:38:19	APP Client	Delete Register QR-code
				ACEAND	nuck line			2021-04-00	2021 04 00 19:00:07	APP Client	Doloto Pogistor OP codo

- 3. Open the App on the Smartphone. On the login screen, tap [Server Setting] and type the IP Address or the Domain Name of the Server, and its Port Number.
- 4. Tap the **QR Code** icon to scan the QR code of the new App client. After the client is identified successfully, set the Client Name and tap **[Connection Test]**.
- 5. After the network is connected successfully, tap [Save].



The Mobile Credential function is only valid when logging in as an employee, tap on Employee to switch to Employee Login screen. Enter the Employee ID and Password (Default: 123456) to login.

6. Tap [Mobile Credential] on the App, and a QR code will appear, which includes employee ID and card number (static QR code only includes card number) information.

The QR code can replace a physical card on a specific device to achieve contactless authentication to open the door.



When using this function for the first time, the App will prompt to authorize the modification of screen brightness settings, as shown in the figure:

app might not	work properly.

The QR code is automatically refreshed for every 30s, and it also supports manual refresh.



**NOTE:** For other specific operations, please refer to ZKBioSecurity Mobile App User Manual.

## **11.4** Real-time Monitoring on the ZKBioSecurity Software

 Click Prevention > Epidemic > Temperature Detection > Real-time monitoring to view all the personnel's events present under the Abnormal Temperature, No Masks, and Normal Records.



The user data of abnormal body temperature is displayed on the Abnormal Temperature information bar automatically according to the Temperature Threshold Setting is set.

2. Click Epidemic > Temperature Management > Statistics Panel to view the analysis of statistical data in the form of a pie-chart and view the personnel with normal temperature, abnormal temperature, and unmeasured body temperature. Also, detailed information of the personnel can be seen on the right by clicking on the particular category on the pie-chart.



**NOTE:** For other specific operations, please refer to ZKBioSecurity User Manual.

# <u>Appendix 1</u>

## **Requirements of Live Collection and Registration of Visible**

## **Light Face Images**

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



Image1 Face Capture Area

## **Requirements for Visible Light Digital Face Image Data**

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

#### • Eye Distance

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

#### Facial Expression

Neutral face or smile with eyes naturally open are recommended.

#### Gesture and Angel

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

#### Accessories

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

#### Face

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

#### Image Format

Should be in BMP, JPG or JPEG.

#### Data Requirement

Should comply with the following requirements:

- 1) White background with dark-colored apparel.
- 2) 24bit true color mode.
- 3) JPG format compressed image with not more than 20kb size.
- 4) Resolution should be between 358 x 441 to 1080 x 1920.
- 5) The vertical scale of head and body should be in a ratio of 2:1.
- 6) The photo should include the captured person's shoulders at the same horizontal level.

- 7) The captured person's eyes should be open and with clearly seen iris.
- 8) Neutral face or smile is preferred, showing teeth is not preferred.
- 9) The captured person should be clearly visible, natural in color, no harsh shadow or light spot or reflection in face or background. The contrast and lightness level should be appropriate.

# <u>Appendix 1</u>

## **Privacy Policy**

#### Notice:

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

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

#### I. Collected Information

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

- 1. User Registration Information: At your first registration, the feature template (Fingerprint template/Face template/Palm template) will be saved on the device according to the device type you have selected to verify the unique similarity between you and the User ID you have registered. You can optionally enter your Name and Code. The above information is necessary for you to use our products. If you do not provide such information, you cannot use some features of the product regularly.
- 2. Product information: According to the product model and your granted permission when you install and use our services, the related information of the product on which our services are used will be collected when the product is connected to the software, including the Product Model, Firmware Version Number, Product Serial Number, and Product Capacity Information. When you connect your product to the software, please carefully read the privacy policy for the specific software.

#### II. Product Security and Management

When you use our products for the first time, you shall set the Administrator privilege before performing specific operations. Otherwise, you will be frequently reminded to set the Administrator privilege when you enter the main menu interface. If you still do not set the Administrator privilege after receiving the system prompt, you should be aware of the
## possible security risk (for example, the data may be manually modified).

- 2. All the functions of displaying the biometric information are disabled in our products by default. You can choose Menu > System Settings to set whether to display the biometric information. If you enable these functions, we assume that you are aware of the personal privacy security risks specified in the privacy policy.
- **3.** Only your user ID is displayed by default. You can set whether to display other user verification information (such as Name, Department, Photo, etc.) under the Administrator privilege. **If you choose to display such information**, we assume that you are aware of the potential security risks (for example, your photo will be displayed on the device interface).
- 4. The camera function is disabled in our products by default. If you want to enable this function to take pictures of yourself for attendance recording or take pictures of strangers for access control, the product will enable the prompt tone of the camera. Once you enable this function, we assume that you are aware of the potential security risks.
- 5. All the data collected by our products is encrypted using the AES 256 algorithm. All the data uploaded by the Administrator to our products are automatically encrypted using the AES 256 algorithm and stored securely. If the Administrator downloads data from our products, we assume that you need to process the data and you have known the potential security risk. In such a case, you shall take the responsibility for storing the data. You shall know that some data cannot be downloaded for sake of data security.
- **6.** All the personal information in our products can be queried, modified, or deleted. If you no longer use our products, please clear your personal data.

## III. How we handle personal information of minors

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

We will only use or disclose personal information of minors collected with their parents' or guardians' consent if and to the extent that such use or disclosure is permitted by law or we have obtained their parents' or guardians' explicit consent, and such use or disclosure is for the purpose of protecting minors.

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

## IV. Others

You can visit <u>https://www.zkteco.com/cn/index/Index/privacy\_protection.html</u> to learn more about how we collect, use, and securely store your personal information. To keep pace with the rapid development of technology, adjustment of business operations, and to cope with customer needs, we will constantly deliberate and optimize our privacy protection measures and policies. Welcome to visit our official website at any time to learn our latest privacy policy.

## **Eco-friendly Operation**

The product's "eco-friendly operational period" refers to the time 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)	Polybrominate d Diphenyl Ethers (PBDE)
Chip Resistor	×	0	0	0	Ο	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

 $\odot$  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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