

User Manual

ProFace X [TD]

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The product will be updated from time to time without prior notice. The latest operation procedures and relevant documents are available on http://www.zkteco.com

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

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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 ProFace X [TD] Product.

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

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 implies about the notice or pays attention to, in the manual	
9	The general information which helps in performing the operations faster	
*	The information which is significant	
(Care taken to avoid danger or mistakes	
	The statement or event that warns of something or that serves as a cautionary example.	

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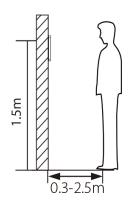
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1 Notice for Use

1.1 Standing Position, Facial Expression and Standing

Posture

The recommended distance



The distance between the device and a user whose height is within 1.55m-1.85m is recommended to be 0.3-2.5m. Users may slightly move forwards and backwards to improve the quality of facial images captured.

Facial expression and standing posture



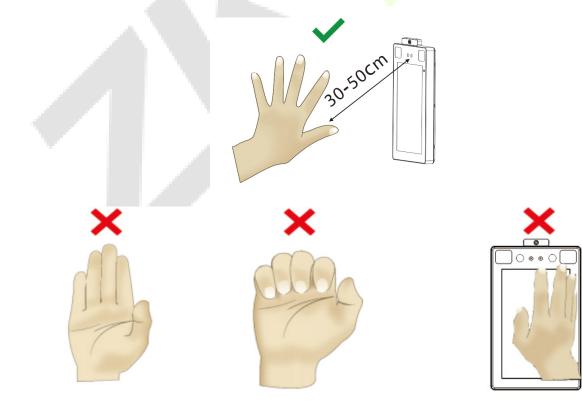


Note: During enrolment and verification, please remain natural facial expression and standing posture.

1.2 Palm Registration

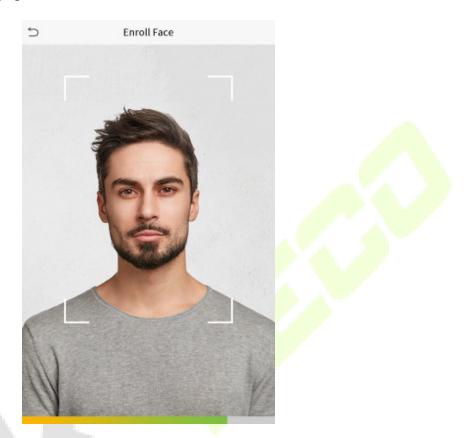
Place your palm in the palm multi-mode collection area, such that the palm is placed parallel to the device.

Make sure to keep space between your fingers.



1.3 Face Registration

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



Correct face registration and authentication method

- Cautions 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 the 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.

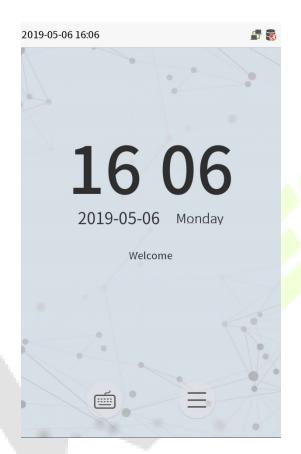
• Cautions for authenticating a face

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

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

1.4 Standby Interface

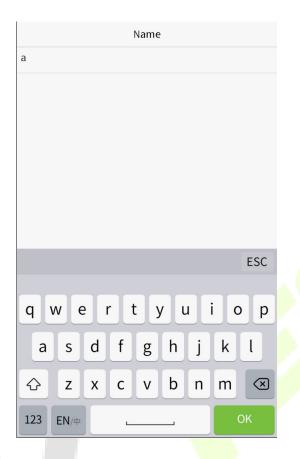
After connecting the power supply, enter the following standby interface:



Notes:

- 1) Click to enter the User ID input interface.
- 2) When there is no super administrator set in the device, click \equiv to enter the menu. After setting the super administrator, it requires the super administrator's verification before entering the menu operation. For the security of the device, it is recommended to register super administrator the first time you use the device.

1.5 Virtual Keyboard



Note: The device supports the input of Chinese, English, numbers and symbols. Click [**En**] to switch to English keyboard. Press [**123**] to switch to the numeric and symbolic keyboard, and click [**ABC**] to return to the alphabetic keyboard. Click the input box, virtual keyboard appears. Click [**ESC**] to exit the input.

1.6 Verification Mode

1.6.1 Palm Verification

1: N Palm Verification mode

Compare the palm image collected by the palm collector with all the palm data in the device.

The device will automatically distinguish between the palm and the face verification mode, and place the palm in the area that can be collected by the palm collector, and the device will automatically detect the palm verification mode.



1: 1 Palm Verification mode

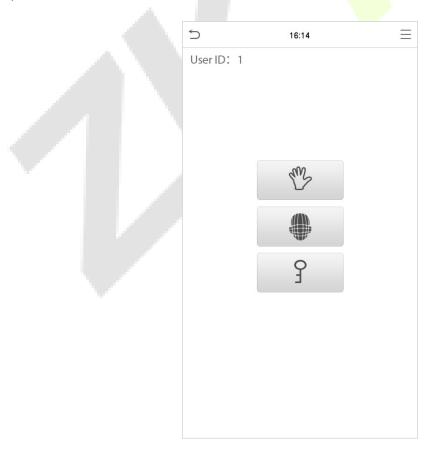
Click the 🔲 button on the main screen to enter 1:1 palm verification mode.

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



If the user has registered the face and password in addition to his/her palm, and the verification method is

set to palm/ face/ password verification, the following screen will appear. Select the palm icon \mathcal{V} to enter palm verification mode.



1.6.2 Password Verification

Compare the entered password with the registered User ID and password.

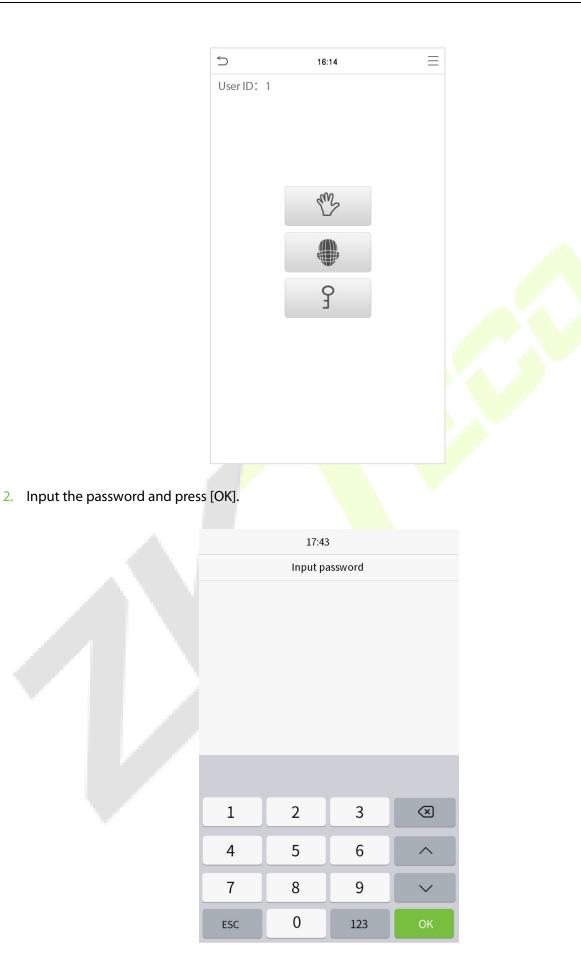
Click the 🗐 button on the main screen to enter the 1:1 password verification mode.

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

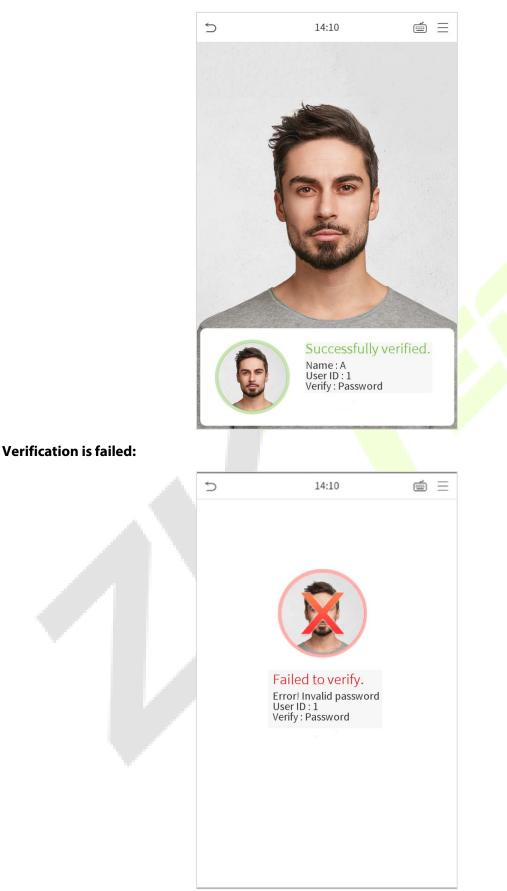


If an employee registers palm and face in addition to password, the following screen will appear. Select the

icon to enter password verification mode.



Verification is successful:

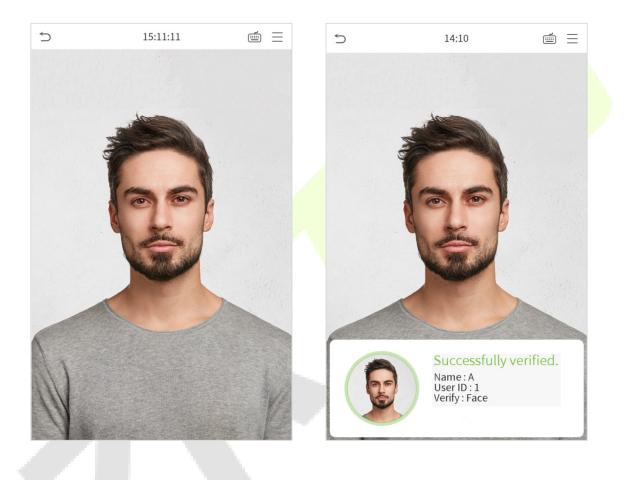


1.6.3 Facial Verification

1:N Facial Verification

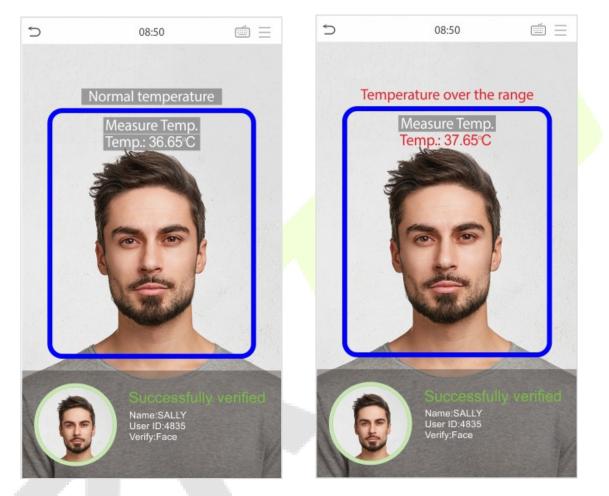
1. Conventional verification

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



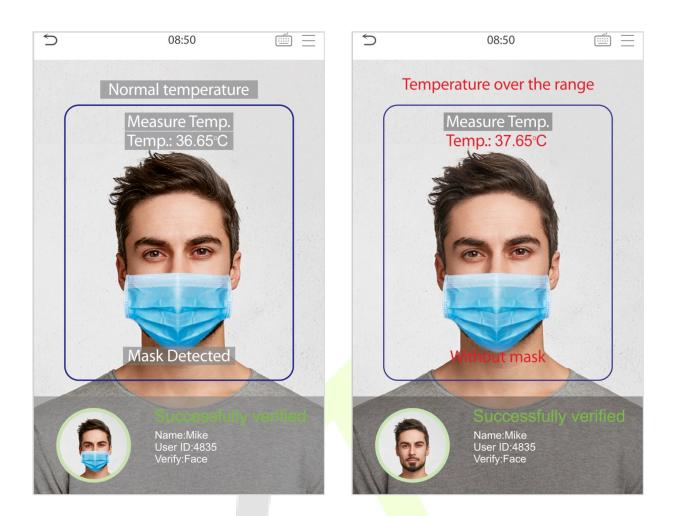
2. Enable temperature screening with infrared

When the user enabled 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 is a popup of the comparison result prompt interface.



3. Enable mask detection

When the user enabled the **Enable mask detection** function, the device will identify whether the user is wearing a mask or not. The following is a popup of the comparison result prompt interface.

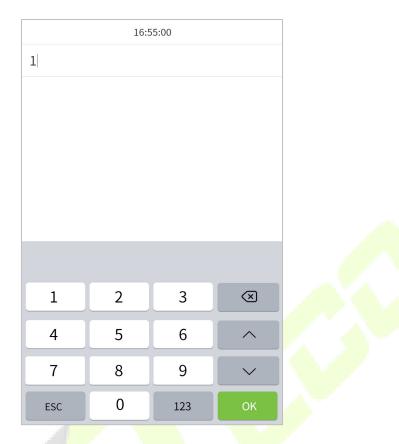


• 1:1 Facial Verification

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

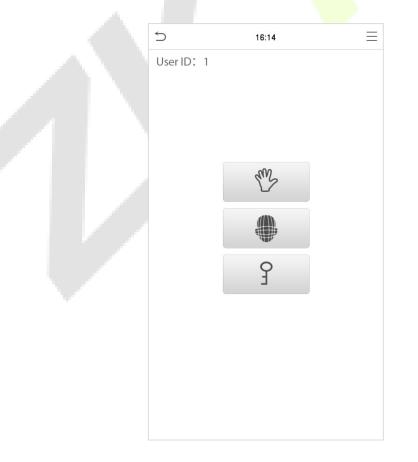
Press on the main interface and enter the 1:1 facial verification mode.

Enter the user ID and click [OK].

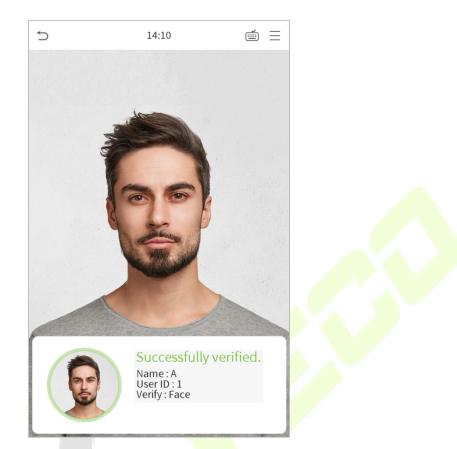


If an employee registers palm and password in addition to face, the following screen will appear. Select the

icon to enter face verification mode.



After successful verification, the prompt box "successfully verified" will appear.



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

1.6.4 Combined Verification

To increase security, this device offers the option of using multiple forms of verification methods. A total of 7 different verification combinations can be used, as shown below:

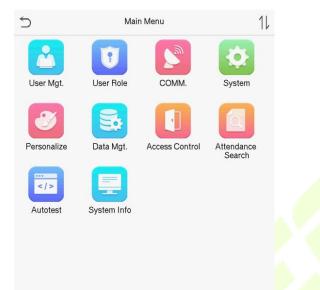
Ś	Verification Mode	
• Password	/Face/Palm	
O User ID on	ly	
O Password		
○ Face Only		
O Face+Pass	word	
O Palm Only		
O Palm+Face		

Notes:

- 1) "/" means "or", and "+" means "and".
- 2) You must register the required verification information before using the combination verification mode, otherwise the verification may fail. For example, if a user uses Face Registration but the verification mode is Face + Password, this user will never pass verification.

2 Main Menu

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



ltems	Descriptions
User Mgt.	To add, edit, view, and delete basic information about a user.
User Role	To set the permission scope of the custom role and enroller, that is, the rights to operate the system.
сомм.	To set the relevant parameters of network, PC connection, cloud server and wiegand.
System	To set parameters related to the system, including date & time, access records, facial templates, palm templates, resetting to factory settings, temperature management and protection management.
Personalize	This includes user Interface, voice, bell, punch state options and shortcut key mappings settings.
Data Mgt.	To delete all relevant data in the device.
Access Control	To set the parameters of the lock and the relevant access control device.

Attendance Search	Query the specified access record, check attendance photos and blacklist photos.
Autotest	To automatically test whether each module functions properly, including the screen, audio, camera and real-time clock.
System Info	To view data capacity, device and firmware information of the current device.

3 User Management

3.1 Adding Users

Click User Mgt. on the main menu.

5	User Mgt.
£	New User
1	All Users
٢	Display Style

Click New User.

Register a User ID and Name

Enter the user ID and name.

5	New User	
User ID		3
Name		
User Role		Normal User
Palm		0
Face		0
Password		
User Photo		0
Access Control Ro	le	

Notes:

- 1) A user name may contain 17 characters.
- 2) The user ID may contain 1-9 digits by default.
- 3) During the initial registration, you can modify your ID, which cannot be modified after registration.
- 4) If a message "Duplicated ID" pops up, you must choose another ID.

Setting the User Role

There are two types of user accounts: the **normal user** and the **super admin**. If there is already a registered administrator, the normal users have no rights to manage the system and may only access authentication verifications. The administrator owns all management privileges. If a custom role is set, you can also select **user defined role** permissions for the user.

Click **User Role** to select Normal User or Super Admin.

5	User Role
•	Normal User
0	User Defined Role 1
0	Super Admin

Note: If the selected user role is the Super Admin, the user must pass the identity authentication to access the main menu. The authentication is based on the authentication method(s) that the super administrator has registered. Please refer to <u>1.6 Verification Method</u>.

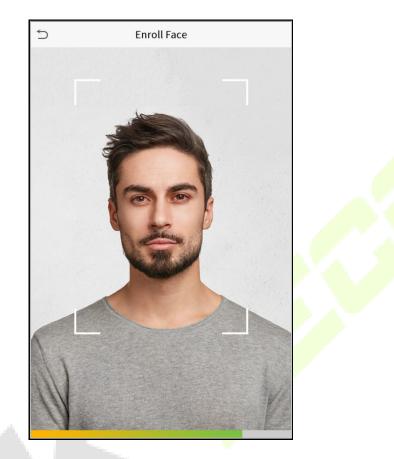
Register palm

Click **Palm** to enter the palm registration page. Select the palm to be enrolled.



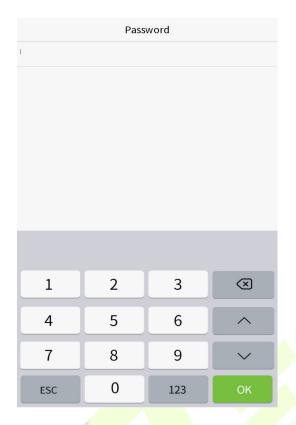
Register face

Click **Face** to enter the face registration page. Please face the camera and stay still during face registration. The registration interface is as follows:



Register password

Click **Password** to enter the password registration page. Enter a password and re-enter it. Click **OK**. If the two entered passwords are different, the prompt "Password not match" will appear.



Note: The password may contain one to eight digits by default.

Register user photo

When a user registered with a photo passes the authentication, the registered photo will be displayed.

Click **User Photo**, click the camera icon to take a photo. The system will return to the New User interface after taking a photo.

Note: While registering a face, the system will automatically capture a picture as the user photo. If you do not want to register a user photo, the system will automatically set the picture captured as the default photo.

Access Control Role

User access control sets the door unlocking rights of each person, including the group and the time period that the user belongs to.

Click **Access Control Role** > **Access Group**, assign the registered users to different groups for better management. New users belong to Group 1 by default, and can be reassigned to other groups. The device supports up to 99 access control groups.

Click **Time Period**, select the time period to use.

5	Access Control	
Access Group	1	
Time Period		

3.2 Search for Users

Click the search bar on the user list and enter the retrieval keyword (The keyword may be an ID, surname or full name.). The system will search for the users related to the information.



3.3 Edit Users

S User: 1 A	5	Edit : 1 A
Edit	User ID	1
Delete	Name	А
	User Role	Normal User
	Palm	1
	Face	1
	Password	*****
	User Photo	0
	Access Control Role	

Choose a user from the list and click **Edit** to enter the edit user interface:

Note: The operation of editing a user is the same as that of adding a user, except that the user ID cannot be modified when editing a user. Operation method refers to "<u>3.1 Adding users</u>".

3.4 Deleting Users

Choose a user from the list and click **Delete** to enter the delete user interface. Select the user information to be deleted and click **OK**.

Note: If you select **Delete User**, all information of the user will be deleted.

4 User Role

If you need to assign some specific permissions to certain users, you may edit the "User Defined Role" under the **User Role** menu.

You may set the permission scope of the custom role (up to 3 roles) and enroller, that is, the permission scope of the operation menu.

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

	5	User Role	
	2.	User Defined Role 1	
	2	User Defined Role 2	
	2	User Defined Role 3	
	\$	Enroller	
N			

1. Click any item to set a defined role. Click the row of **Enable Defined Role** to enable this defined role. Click **Name** and enter the name of the role.

2. Click **Define User Role** to assign the privileges to the role. The privilege assignment is completed. Click Return.

ł	User Defined Role 1		
	Vser Mgt.	✓ New User	
	✓ Comm.	✓ All Users	
	✓ System	🗹 Display Style	
	Personalize		
4	🗌 Data Mgt.		
4	✓ Access Control		
-	Attendance Search		
	Autotest		
	System Info		

Note: During privilege assignment, the main menu is on the left and its sub-menus are on the right. You only need to select the features in sub-menus. If the device has a role enabled, you may assign the roles you set to users by clicking User Mgt. > New User > User Role.

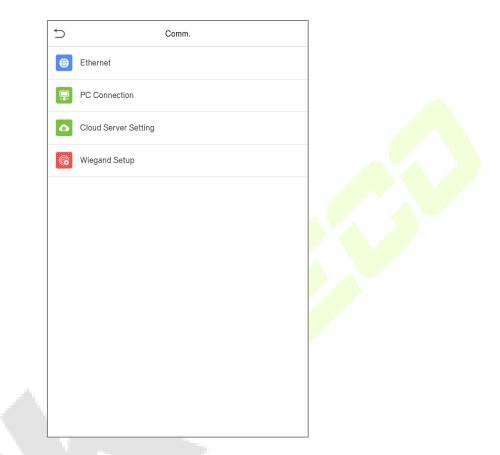
Ĵ	User Role
Nor	nal User
O Enro	ller
🔿 Use	Defined Role 1
🔿 Sup	er Admin

If no super administrator is registered, the device will prompt "Please register super administrator user first!" after clicking the enable bar.

5 Communication Settings

Set parameters of the network, PC connection, cloud server and Wiegand.

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



5.1 Network Settings

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

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

Ethernet
192.168.163.150
255.255.255.0
192.168.163.1
0.0.0.0
4370
\bigcirc

ltem	Descriptions	
IP Address	The factory default value is 192.168.1.201. Please adjust them according to the actual network situation.	
Subnet Mask	The factory default value is 255.255.255.0. Please adjust them according to the actual network situation.	
Gateway	The factory default address is 0.0.0.0. Please adjust them according to the actual network situation.	
DNS	The factory default address is 0.0.0.0. Please adjust them according to the actual network situation.	
TCP COMM. Port	The factory default value is 4370. Please adjust them according to the actual network situation.	
DHCP	Dynamic Host Configuration Protocol, which is to dynamically allocate IP addresses for clients via server.	
Display in Status Bar	To set whether to display the network icon on the status bar.	

5.2 PC Connection

To improve the security of data, please set a Comm Key for communication between the device and the PC.

If a Comm Key is set, this connection password must be entered before the device can be connected to the PC software.

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

5	PC Connection	
Comm Key		0
Device ID		1

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

5.3 Cloud Server Setting

This represents settings used for connecting with the ADMS server.

Click Cloud Server Setting on the Comm. Settings interface.

☆ Cloud	Server Setting	
Server mode	ADMS	
Enable Domain Name	\bigcirc	
Server Address	0.0.0.0	
Server port	8081	
Enable Proxy Server	\bigcirc	
		. /
		DX (

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

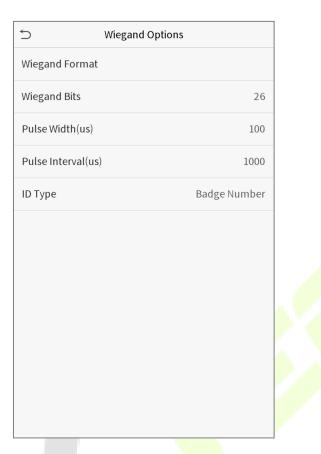
5.4 Wiegand Setup

To set the Wiegand input and output parameters.

Click **Wiegand Setup** on the Comm. Settings interface.

5	Wiegand Setup
Wiegand Input	
Wiegand Output	

Wiegand input



ltem	Descriptions	
Wiegand Format	Values range from 26 bits, 34 bits, 36 bits, 37 bits, and 50 bits.	
Wiegand Bits Number of bits of Wiegand data.		
Pulse Width(us)	The value of the pulse width sent by Wiegand is 100 microseconds by default, which can be adjusted within the range of 20 to 100 microseconds.	
Pulse Interval(us)	The default value is 1000 microseconds, which can be adjusted within the range of 200 to 20000 microseconds.	
ID Type Select between User ID and badge number.		

Definitions of various common Wiegand formats:

Wiegand Format	Definitions
	ECCCCCCCCCCCCCCCCC
Wiegand26	Consists of 26 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 13 th bits, while the 26 th bit is the odd parity bit of the 14 th to 25 th bits. The 2 nd to 25 th bits are the card numbers.

	ESSSSSSSCCCCCCCCCCCC
Wiegand26a	Consists of 26 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 13 th bits, while the 26 th bit is the odd parity bit of the 14 th to 25 th bits. The 2 nd to 9 th bits are the site codes, while the 10 th to 25 th bits are the card numbers.
	ECCCCCCCCCCCCCCCCCCCCCC
Wiegand34	Consists of 34 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 17 th bits, while the 34 th bit is the odd parity bit of the 18 th to 33 rd bits. The 2 nd to 25 th bits are the card numbers.
	ESSSSSSSCCCCCCCCCCCCCCCCC
Wiegand34a	Consists of 34 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 17 th bits, while the 34 th bit is the odd parity bit of the 18 th to 33 rd bits. The 2 nd to 9 th bits are the site codes, while the 10 th to 25 th bits are the card numbers.
	OFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegand36	Consists of 36 bits of binary code. The 1 st bit is the odd parity bit of the 2 nd to 18 th bits, while the 36 th bit is the even parity bit of the 19 th to 35 th bits. The 2 nd to 17 th bits are the device codes. The 18 th to 33 rd bits are the card numbers, and the 34 th to 35 th bits are the manufacturer codes.
	EFFFFFFFFFFFFFFFFFFFFFFFCCCCCCCCCCCCCCC
Wiegand36a	Consists of 36 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 18 th bits, while the 36 th bit is the odd parity bit of the 19 th to 35 th bits. The 2 nd to 19 th bits are the device codes, and the 20 th to 35 th bits are the card numbers.
	OMMMMSSSSSSSSSSSSSSSCCCCCCCCCCCCCCCCCCC
Wiegand37	Consists of 37 bits of binary code. The 1 st bit is the odd parity bit of the 2 nd to 18 th bits, while the 37 th bit is the even parity bit of the 19 th to 36 th bits. The 2 nd to 4 th bits are the manufacturer codes. The 5 th to 16 th bits are the site codes, and the 21 st to 36 th bits are the card numbers.
	EMMMFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
Wiegand 37a	Consists of 37 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 18 th bits, while the 37 th bit is the odd parity bit of the 19 th to 36 th bits. The 2 nd to 4 th bits are the manufacturer codes. The 5 th to 14 th bits are the device codes, and15 th to 20 th bits are the site codes, and the 21 st to 36 th bits are the card numbers.
	ESSSSSSSSSSSSSSSCCCCCCCCCCCCCCCCCCCCCCC
Wiegand50	Consists of 50 bits of binary code. The 1 st bit is the even parity bit of the 2 nd to 25 th bits, while the 50 th bit is the odd parity bit of the 26 th to 49 th bits. The 2 nd to 17 th bits are the site codes, and the 18 th to 49 th bits are the card numbers.
"C "denotes the car	rd number; " E" denotes the even parity bit; " O" denotes the odd parity bit;
"F " denotes the fac denotes the site co	ility code; " M" denotes the manufacturer code; " P" denotes the parity bit; and " S" de.

• Wiegand output

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

ltem	Descriptions		
SRBWhen SRB is enabled, the lock is controlled by the SRB to prevent from being opened due to device removal.			
Wiegand FormatValues range from 26 bits, 34 bits, 36 bits, 37 bits, and 50 bits.			
Wiegand output bits After choosing the Wiegand format, you can select one of the coordinate			
Failed IDIf the verification is failed, the system will send the failed ID to the device replace the card number or personnel ID with the new ones.			
Site Code	It is similar to the device ID. The difference is that a site code can be set manually, and is repeatable in a different device. The valid value ranges from 0 to 256 by default.		
Pulse Width(us)The time width represents the changes of the quantity of electr high-frequency capacitance regularly within a specified time.			
Pulse Interval(us)	The time interval between pulses.		
ID Type Select between User ID and badge number.			

6 System Settings

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

Click **System** on the main menu interface.

5	System	
٩	Date Time	
	Access Logs Setting	
	Face	
*	Palm Parameter	
	Reset	
-1	Temperature Mgt.	
3	Detection Management	
		F.

6.1 Date and Time

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

1			
	5	Date Time	
1	Manual time setting		
4	24-Hour Time		
	Date Format		YYYY-MM-DD

- 1. You can manually set date and time and click Confirm to save.
- 2. Click 24-Hour Time to enable or disable this format and select the date format.

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

Note: For example, the user sets the time of the device (18:35 on March 15, 2019) to 18:30 on January 1, 2020. After restoring the factory settings, the time of the equipment will remain 18:30 on January 1, 2020.

6.2 Access Logs Setting

Click Access Logs Setting on the System interface.

Access Logs Setting	
Camera Mode	No photo
Display User Photo	
Access Logs Warning	99
Circulation Delete Access Records	Disabled
Cyclic Delete ATT Photo	99
Cyclic Delete Blacklist Photo	99
Confirm Screen Delay(s)	3
Face comparison interval(s)	1

ltem	Description		
	Whether to capture and save the current snapshot image during verification. There are 5 modes:		
	No Photo: No photo is taken during user verification.		
	Take photo, no save: Photo is taken but is not saved during verification.		
Camera Mode	Take photo and save: Photo is taken and saved during verification.		
	Save on successful verification: Photo is taken and saved for each successful verification.		
	Save on failed verification: Photo is taken and saved during each failed verification.		
Display User Photo	Whether to display the user photo when the user passes verification.		
Access Logs Warning	When remaining record space reaches a set value, the device will automatically display a remaining record memory warning. Users may disable the function or set a valid value between 1 and 9999.		

Circulation Delete Access Records	When access records have reached full capacity, the device will automatically delete a set value of old access records. Users may disable the function or set a valid value between 1 and 999.
Cyclic Delete ATT Photo	When attendance photos have reached full capacity, the device will automatically delete a set value of old attendance photos. Users may disable the function or set a valid value between 1 and 99.
Cyclic Delete Blacklist Photo	When blacklisted photos have reached full capacity, the device will automatically delete a set value of old blacklisted photos. Users may disable the function or set a valid value between 1 and 99.
Confirm Screen Delay(s)	The length of time that the message of successful verification displays. Valid value: 1~9 seconds.
Face comparison Interval (s)	To set the facial template matching time interval as needed. Valid value: 0~9 seconds.

6.3 Face Parameters

Click **Face** on the System interface.

5	Face	11]
1:N Match Threshold		75	
1:1 Match Threshold		63	
Face Enrollment Threshold		70	
Face Pitch Angle		35	
Face Rotation Angle		25	
Image Quality		40	
Minimum Face Size		80	
LED Light Triggered Thresh	old	80	
Motion Detection Sensitivity	/	4	
Live Detection			
Live Detection Threshold		70	
Anti-counterfeiting with NIF	ł	\bigcirc	

5	Face	11
Face Enrollment Threshold		70
Face Pitch Angle		35
Face Rotation Angle		25
Image Quality		40
Minimum Face Size		80
LED Light Triggered Threshold	d	80
Motion Detection Sensitivity		4
Live Detection		
Live Detection Threshold		70
Anti-counterfeiting with NIR		\bigcirc
WDR		\bigcirc
Anti-flicker Mode		50HZ

ltem	Description
1:N Match Threshold	Under 1:N verification mode, the verification will only be successful when the similarity between the acquired facial image and all registered facial templates is greater than the set value.
	The valid value ranges from 65 to 120. The higher the thresholds, the lower the misjudgment rate, the higher the rejection rate, and vice versa. The default value of 75 is recommended.
1:1 Match Threshold	Under 1:1 verification mode, the verification will only be successful when the similarity between the acquired facial image and the facial templates enrolled in the device is greater than the set value.
	The valid value ranges from 55 to 120. The higher the thresholds, the lower the misjudgment rate, the higher the rejection rate, and vice versa. The default value of 63 is recommended.
Face Enrollment	During face enrollment, 1:N comparison is used to determine whether the user has already registered before.
Threshold	When the similarity between the acquired facial image and all registered facial templates is greater than this threshold, it indicates that the face has already been registered.
	The pitch angle tolerance of a face for facial registration and comparison.
Face Pitch Angle	If a face's pitch angle exceeds this set value, it will be filtered by the algorithm, i.e. ignored by the terminal thus no registration and comparison interface will be triggered.
	The rotation angle tolerance of a face for facial template registration and comparison.
Face Rotation Angle	If a face's rotation angle exceeds this set value, it will be filtered by the algorithm, i.e. ignored by the terminal thus no registration and comparison interface will be triggered.
Image Quality	Image quality for facial registration and comparison. The higher the value, the clearer the image requires.
	Required for facial registration and comparison.
	If an object's size is smaller than this set value, the object will be filtered and not recognized as a face.
Minimum Face Size	This value can be understood as the face comparison distance. The farther the person is, the smaller the face is, and the smaller the face pixel will be obtained by the algorithm. Therefore, adjusting this parameter can adjust the furthest comparison distance of faces. When the value is 0, the face comparison distance is not limited.
LED Light Triggered Threshold	This value controls the on and off of the LED light. The larger the value, the more frequently the LED light will be turned on.

Motion Detection Sensitiveity	A measurement of the amount of change in a camera's field of view that qualifies as potential motion detection that wakes up the terminal from standby to the comparison interface. The larger the value, the more sensitive the system would be, i.e. if a larger value is set, the comparison interface is much easier and frequently triggered.
Live Detection	Detecting a spoof attempt by determining whether the source of a biometric sample is a live human being or a fake representation using visible light images.
Live Detection Threshold	Helping to judge whether the visible image comes from an alive body. The larger the value, the better the visible light anti-spoofing performance.
Anti-counterfeiting with NIR	Using near-infrared spectra imaging to identify and prevent fake photos and videos attack.
WDR	Wide Dynamic Range (WDR), which balances light and extends image visibility for surveillance videos under high contrast lighting scenes and improves object identification under bright and dark environment.
Anti-flicker Mode	Used when WDR is turned off. This helps reduce flicker when the device's screen flashes at the same frequency as the light.
Notes	Improper adjustment of the exposure and quality parameters may severely affect the performance of the device. Please adjust the exposure parameter only under the guidance of the after-sales service personnel of our company.

6.4 Palm Parameters

Click **Palm** on the System interface.

5	Palm Parameter	
Palm 1:1 Matc	ching Threshold	576
Palm 1:N Mate	ching Threshold	576

ltem	Description
Palm 1:1 Matching Threshold	Under 1:1 Verification Method, only when the similarity between the verifying palm and the user's registered palm is greater than this value can the verification succeed.
Palm 1:N Matching Threshold	Under 1:N Verification Method, only when the similarity between the verifying palm and all registered palm is greater than this value can the verification succeed.

6.5 Factory Reset

Restore the device, such as communication settings and system settings, to factory settings (Do not clear registered user data).

Click **Reset** on the System interface.

	5	System	
	Date Tim	ne	
	Access L	ogs Setting	
	Face		
	🍟 🛛 Palm Par	rameter	
	Reset		
	Rempera	ture Mgt.	
	Protectio	n Management	
		Reset?Restart	
		ОК Cancel	
	-		
Click OK to reset.			

6.6 Temperature Management

Terminal has built-in temperature sensor, when the temperature is too low or too high, it will trigger self-heating or shut down.

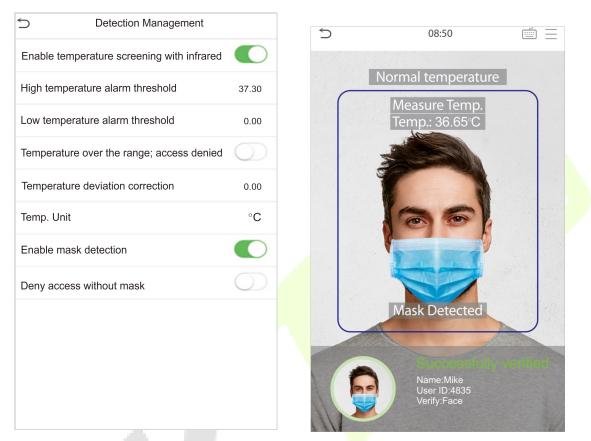
Click Temperature Mgt. on the System interface.

5 Tempe	rature Mgt.	
Real-time Temperature	54.0°C	
Low Temp. to Heat	0°C	
High Temp. to Reset	82°C	

ltem	Description
Real-time temperature	This column shows real time inner temperature of terminal.
Low Temp. to Heat	Once terminal temperature is lower than set value, terminal will start self-heating, the set range is $0\sim10(^{\circ}C)$.
High Temp. to Reset	When the terminal temperature is high than set value, it will shut down automatically to protect hardware, the set range is 60~80 (°C).

6.7 Detection Management

Click **Detection Management** on the System interface.



ltem	Description
	To enable or disable the infrared temperature measurement function.
Enable temperature screening with	When this function is enabled, before access granted, users must pass the temperature screening in addition to identity verification.
infrared	To measure body temperature, users' faces must be aligned with the temperature measurement area.
	To set the value of the alarm threshold of high body temperature.
High temperature alarm threshold	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.
Low temperature	To set the value of the alarm threshold of low body temperature.
alarm threshold	When the temperature measured during verification is lower than the set value, the device will give a prompt and audio alarm.

Temperature over the range; access denied	When this's 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.If this's disabled, the user is allowed to access the restricted area when his/her identity is verified, regardless of his/her body temperature.		
Temperature deviation correction	As the temperature measurement module allows a small range of errors (disturbance) of an observed value under different environments (humidity, room temperature and such), users may set the deviation value here.		
Temp. Unit	The unit of body temperature can be switched between Celsius (°C) a Fahrenheit (°F).		
Enable mask detection	To enable or disable the mask detection function. When it's enabled, the device will identify whether the user is wearing a mask or not during verification.		
Deny access without mask	When this's enabled, if the user doesn't wear a mask, the system will not grant him/her access even if he/she has passed verification. If this's disabled, users are allowed to access the monitoring area no matter they are wearing masks or not.		

7 Personalize Settings

You may customize interface settings, audio and bell.

Click **Personalize** on the main menu interface.



7.1 Interface Settings

You can customize the display style of the main interface.

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

5 User	Interface
Wallpaper	
Language	English
Menu Screen Timeout(s)	99999
Idle Time To Slide Show	(s) 60
Slide Show Interval(s)	30
Idle Time To Sleep(m)	Disabled
Main Screen Style	Style 1

ltem	Description
Wallpaper	To select the main screen wallpape <mark>r accor</mark> ding to your personal preference.
Language	To select the language of the device.
Menu Screen Timeout (s)	When there is no operation, and the time exceeds the set value, the device will automatically go back to the initial interface. You can disable the function or set the value between 60 and 99999 seconds.
Idle Time To Slide Show (s)	When there is no operation, and the time exceeds the set value, a slide show will be played. It can be disabled, or you may set the value between 3 and 999 seconds.
Slide Show Interval (s)	This refers to the time interval switching different slide show pictures. The function can be disabled, or you may set the interval between 3 and 999 seconds.
Idle Time To Sleep (m)	If you have activated the sleep mode, when there is no operation, the device will enter standby mode. Press any key or finger to resume normal working mode. You can disable this function or set a value within 1-999 minutes.
Main Screen Style	To select the main screen style according to your personal preference.

7.2 Voice Settings

Click **Voice** on the Personalize interface.



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

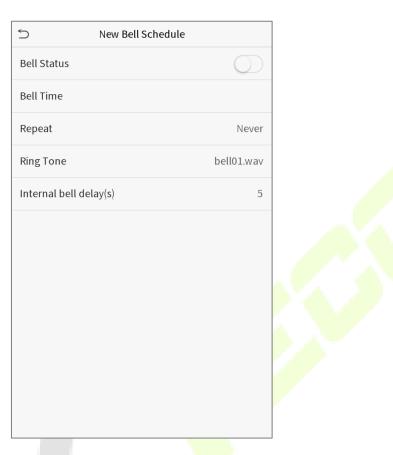
7.3 Bell Schedules

Click Bell Schedules on the Personalize interface.

Sell Schedules	
New Bell Schedule	
All Bell Schedules	

Add a bell

1. Click **New Bell Schedule** to enter the adding interface:



ltem	Description
Bell Status	Set whether to enable the bell status.
Bell Time	At this time of day, the device automatically rings the bell.
Repeat	Set the repetition cycle of the bell.
Ring Tone	Select a ring tone.
Internal bell delay(s)	Set the duration of the internal bell. Valid values range from 1 to 999 seconds.

2. Back to the Bell Schedules interface, click All Bell Schedules to view the newly added bell.

Edit a bell

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

Click Edit, the editing method is the same as the operations of adding a bell.

Delete a bell

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

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

7.4 Punch States Options

Click **Punch States Options** on the Personalize interface.

5	Punch State Options
Punch State Mode	Off

ltem	Description		
Punch State Mode	 Select a punch state mode, which can be: Off: To disable the punch state key function. The punch state key set under Shortcut Key Mappings menu will become invalid. Manual Mode: To switch the punch state key manually, and the punch state key will disappear after Punch State Timeout. Auto Mode: After this mode is chosen, set the switching time of punch state key in Shortcut Key Mappings; when the switching time is reached, the set punch state key will be switched automatically. Manal and Auto Mode: Under this mode, the main interface will display the auto-switching punch state key, meanwhile supports manually switching punch state key. Manual Fixed Mode: After punch state key. Manual Fixed Mode: After punch state key is manually switched, the punch state key will remain unchanged until being manually switched next time. Fixed Mode: Only the fixed punch state key will be shown and it cannot be switched. 		

7.5 Shortcut Keys Mappings

Users may define shortcuts as attendance status or functional keys. On the main interface, when the shortcut keys are pressed, the corresponding attendance status or function interface will quickly display.

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

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

8 Data Management

To delete the relevant data in the device.

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

Ś		Data Mgt.	
Ŵ	Delete Data		

8.1 Delete Data

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

	5	Delete Data	
	Delete Access Records		Ľ
	Delete Attendance Photo		
	Delete Blacklist Photo		
	Delete All Data		ľ
	Delete Admin Role		
	Delete Access Control		
	Delete User Photo		
	Delete Wallpaper		
	Delete Screen Savers		

Item	Description
Delete Access Records	To delete attendance data/access records conditionally.
Delete Attendance Photo	To delete attendance photos of designated personnel.
Delete Blacklist Photo	To delete the photos taken during verifications which are failed.
Delete All Data	To delete information and attendance logs/access records of all registered

	users.
Delete Admin Role	To remove administrator privileges.
Delete Access Control	To delete all access data.
Delete User Photo	To delete all user photos in the device.
Delete Wallpaper	To delete all wallpapers in the device.
Delete Screen Savers	To delete the screen savers in the device.

Note: When deleting the access records, attendance photos or blacklisted photos, you may select Delete All or Delete by Time Range. Selecting Delete by Time Range, you need to set a specific time range to delete all data with the period.

					<u> </u>
Delete Attendance Data	Ś	St	art Time		
Delete All					
Delete by Time Range					
	2019-05-1	0 00:			
	2019	05	10	00	00
	•	•			
	YYYY	MM	DD	HH	MM
	Confirm	n (OK)		Cancel (E	SC)

Select Delete by Time Range.

Set the time range and click OK.

9 Access Control

Access Control is used to set the schedule of door opening, locks control and other parameters settings related to access control.

Click **Access Control** on the main menu interface.

5	Access Control	
	Access Control Options	
٩	Time Schedule	
9 ₽	Holidays	
6	Combined Verification	
±\$	Anti-passback	
	Duress Options	
		F.

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

- 1. The current door unlock time should be within any valid time zone of the user time period.
- 2. The user's group must be in the door unlock combination (when there are other groups in the same access combo, verification of members of those groups are also required to unlock the door).

In default settings, new users are allocated into the first group with the default group time zone and access combo as "1" and set in unlocking state.

9.1 Access Control Options

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

Click Access Control Options on the Access Control interface.

S Access Control Option	s	Access Control O	otions
Gate Control Mode	\bigcirc	Gate Control Mode	
Door Lock Delay (s)	5	Verification Mode	Password/Face/Palm
Door Sensor Delay (s)	15	Door available time period	1
Door Sensor Type	None	Normal open time period	None
Verification Mode	Password/Face/Palm	Master Device	Out
Door available time period	1	Auxiliary input configuration	
Normal open time period	None	Speaker Alarm	\bigcirc
Master Device	Out	Reset Access Setting	
Auxiliary input configuration			
Speaker Alarm	\bigcirc		
Reset Access Setting			

ltem	Description
GateControl Mode	Whether to turn on the gate control mode or not, when set to ON, on this interface will remove Door lock relay, Door sensor relay and Door sensor type function.
Door Lock Delay (s)	The length of time that the device controls the electric lock to be unlock. Valid value: 1~10 seconds; 0 second represents disabling the function.
Door Sensor Delay (s)	If the door is not closed and locked after opening for a certain duration (Door Sensor Delay), an alarm will be triggered. The valid value of Door Sensor Delay ranges from 1 to 255 seconds.
Door Sensor Type	There are three types: None, Normal Open, and Normal Closed. None means door sensor is not in use; Normal Open means the door is always opened when electricity is on; Normal Closed means the door is always closed when electricity is on.
Verification Mode	The supported verification mode includes password/face, User ID only, password, face only, and face + password.

Door available time period	To set time period for door, so that the door is available only during this.
Normal open time Period	Scheduled time period for "Normal Open" mode, so that the door is always unlocked during this period.
	When setting up the master and slave, the status of the master can be set to exit on enter.
Master Device	Exit: The record verified on the host is the exit record.
	Enter: The record verified on the host is the entry record.
Auxiliary input configuration	Set the door unlock time period and auxiliary output type of the auxiliary terminal device. Auxiliary output types include None, Trigger door open, Trigger Alarm, Trigger door open and Alarm.
Speaker Alarm	To transmit a sound alarm or disassembly alarm from the local. When the door is closed or the verification is successful, the system will cancel the alarm from the local.
Reset Access Setting	The restored access control parameters include door lock delay, door sensor delay, door sensor type, verification mode, door available time period, normal open time period, master device, and alarm. However, erased access control data in Data Mgt. is excluded.

9.2 Time Schedule

The entire system can define up to 50 time rules. Each time rule represents ten time zones, i.e. one week and 3 holidays, and each time zone is a valid time period within 24 hours per day. You may set a maximum of 3 time periods for every time zone. The relationship among these time periods is "or". When the verification time falls in any one of these time periods, the verification is valid. Each time period format of the time zone: HH MM-HH MM, which is accurate to minutes according to the 24-hour clock.

Click **Time Rule Setting** on the Access Control interface.

1. Click the grey box to input a time zone to search. Enter the number of time zone (maximum: 50 zones).

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

2. Click the date on which time zone settings is required. Enter the starting and ending time, and then press OK.

5		Time P	eriod 1		
	00:00 23:59				
	00	00	23	59	
	HH	MM	НН	MM	
	пп	IVIIVI	пп	IVIIVI	
	Confirm (C	DKI)	Car	ncel (ESC)	

Notes:

- 1) When the ending time is earlier than the starting time, such as 23:57~23:56, it indicates that access is prohibited all day; when the ending time is later than the starting time, such as 00:00~23:59, it indicates that the interval is valid.
- 2) The effective time period to unlock the door: open all day (00:00~23:59) or when the ending time is later than the starting time, such as 08:00~23:59.
- 3) The default time zone 1 indicates that door is open all day long.

9.3 Holiday Settings

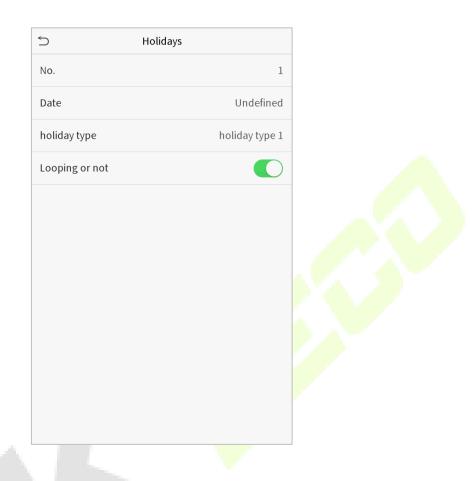
Whenever there is a holiday, you may need a special access time; but changing everyone's access time one by one is extremely cumbersome, so you can set a holiday access time which is applicable to all employees, and the user will be able to open the door during the holidays.

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

5	Holidays	
Add Holiday		ļ
All Holidays		

Add a New Holiday

Click Add Holiday on the Holidays interface and set the holiday parameters.



Edit a Holiday

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

Delete a Holiday

On the Holidays interface, select a holiday item to be deleted and click Delete. Click OK to confirm deletion. After deletion, this holiday is no longer displayed on All Holidays interface.

9.4 Combined Verification Settings

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

In a door-unlocking combination, the range of the combined number N is: $0 \le N \le 5$, and the number of members N may all belong to one access group or may belong to five different access groups.

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

5	Combined Verification
1	01 02 00 00 00
2	00 00 00 00 00
3	00 00 00 00 00
4	00 00 00 00 00
5	00 00 00 00 00
6	00 00 00 00 00
7	00 00 00 00 00
8	00 00 00 00 00
9	00 00 00 00 00
10	00 00 00 00 00
	Q

Click the door-unlocking combination to be set. Click the up and down arrows to input the combination number, then press OK.

Examples:

The door-unlocking combination 1 is set as (01 03 05 06 08), indicating that the unlocking combination 1 consists of 5 people, and the 5 individuals are from 5 groups, namely, access control group 1 (AC group 1), AC group 3, AC group 5, AC group 6, and AC group 8, respectively.

The door-unlocking combination 2 is set as (02 02 04 04 07), indicating that the unlocking combination 2 consists of 5 people; the first two are from AC group 2, the next two are from AC group 4, and the last person is from AC group 7.

The door-unlocking combination 3 is set as (09 09 09 09 09 09), indicating that there are 5 people in this combination; all of which are from AC group 9.

The door-unlocking combination 4 is set as (03 05 08 00 00), indicating that the unlocking combination 4 consists of three people. The first person is from AC group 3, the second person is from AC group 5, and the third person is from AC group 8.

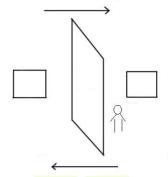
Delete a door-unlocking combination

Set all group number as 0 if you want to delete door-unlocking combinations.

9.5 Anti-passback Setup

It is possible that users may be followed by some persons to enter the door without verification, resulting in security problem. So, to avoid this situation, Anti-Passback option is developed. Once it is enabled, the check-in record must match with check- out record so as to open the door.

This function requires two devices to work together: one is installed inside the door (master device), the other one is installed outside the door (slave device). The two devices communicate via Wiegand signal. The Wiegand format and Output type (User ID / Badge Number) adopted by the master device and slave device must be consistent.



Click Anti-passback Setup on the Access Control interface.

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

ltem	Description		
	No Anti-passback: Anti-passback function is disabled, which means successful verification through either master device or slave device can unlock the door. Attendance state is not saved.		
Anti-passback direction	Out Anti-passback: 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.		
	In Anti-passback: 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.		
	In/Out Anti-passsback: After a user checks in/out, only if the last record is a check-out record, the user can check in again; or a check-in record, the user		

	can check out again; otherwise, the alarm will be triggered.

9.6 Duress Options Settings

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

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

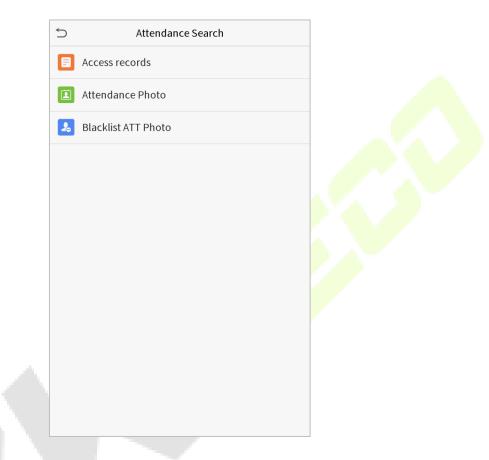
5	Duress Options	
Alarm on Password	\bigcirc	
Alarm Delay(s)	10	
Duress Password	None	

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

10 Attendance Search

When the identity of a user is verified, the record will be saved in the device. This function enables users to check their access records.

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



The process of searching for attendance and blacklist photos is similar to that of searching for access records. The following is an example of searching for access records.

On the Attendance Search interface, click Access Records.

1. Enter the user ID to be searched and click OK. If you want to search for records of all users, click OK without entering any user ID.

User ID								
Please	Please Input(query all data without input)							
1	2	3	$\overline{\mathbf{X}}$					
		5						
4	5	6	^					
7	8	9	\sim					
ESC	0	123	ок					

2. Select the time range in which the records you want to search for.

5	Time Range
💿 Today	
O Yesterday	
O This week	
🔘 Last week	
O This month	
O Last month	
O All	
O User Defined	

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

Date	User ID	Access records
)5-10		Number of Records:01
	0	09:09
05-09		Number of Records:02
	1	12:25
	0	08:53
05-08		Number of Records:03
	1	09:17 09:15
	0	09:03
05-07		Number of Records:01
	0	16:06
05-06		Number of Records:04
	0	18:20 15:55
	1	17:28 17:28
05-05		Number of Records:01
	0	10:12
04-30		Number of Records:01
	0	13:56
04-29		Number of Records:05
	1	10:06 10:06 10:06 10:06
	0	08:56
04-28		Number of Records:01
	0	08:57
04-27		Number of Records:06
	0	18:00 17:58 17:57 17:56 17:44
		17:40

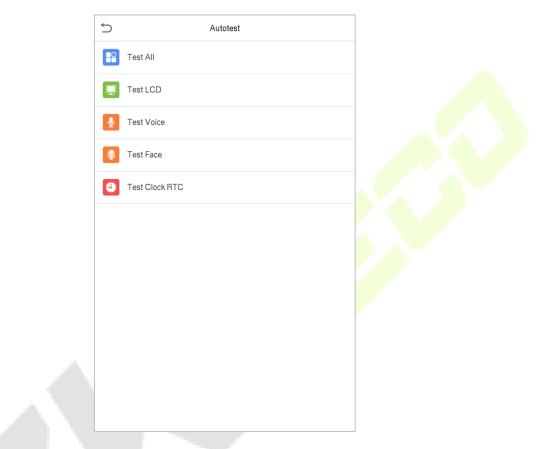
4. The below figure shows the details of the selected record.

Personal Record Search					
User ID	Name	Access recor	Mode	State	
1	A	05-09 12:25	15	0	
					[
Verification	Mode: Face	Status : In			

11 Autotest

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

Click **Autotest** on the main menu interface.



ltem	Description
Test All	To automatically test whether the LCD, audio, camera and RTC are normal.
Test LCD	To automatically test the display effect of LCD screen by displaying full-color, pure white, and pure black to check whether the screen displays colors normally.
Test Voice	To automatically test whether the audio files stored in the device are complete and the voice quality is good.
Camera testing	To test if the camera functions properly by checking the pictures taken to see if they are clear enough.
Test Clock RTC	To test the RTC. The device tests whether the clock works normally and accurately with a stopwatch. Touch the screen to start counting and press it again to stop counting.

12 System Information

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

Click **System Info** on the main menu interface.

5	System	Info	
Device Ca	apacity		
Device In	fo		
Sirmware	e Info		

Item	Description					
Device Capacity	Displays the current device's user storage, palm, password and face storage, administrators, access records, attendance and blacklist photos, and user photos.					
Device Info	Displays the device's name, serial number, MAC address, face algorithm version information, platform information, and manufacturer.					
Firmware Info	Displays the firmware version and other version information of the device.					

13 Connect to ZKBioAccess EP Software

13.1 Set the Communication Address

Device side

- Click COMM. > Ethernet in the main menu to set IP address and gateway of the device. (Note: The IP address should be able to communicate with the ZKBioAccess EP server, preferably in the same network segment with the server address)
- 2. In the main menu, click **COMM.** > **Cloud Server Setting** to set the server address and server port.

Server address: Set as the IP address of ZKBioAccess EP server.

Server port: Set as the service port of ZKBioAccess EP (The default is 8088).

5 Etherne	et	Cloud Server Setting	
IP Address	192.168.163.150	Server mode	ADMS
Subnet Mask	255.255.255.0	Enable Domain Name	\bigcirc
Gateway	192.168.163.1	Server Address	0.0.0.0
DNS	0.0.0.0	Server port	8081
TCP COMM.Port	4370	Enable Proxy Server	\bigcirc
DHCP	\bigcirc		
Display in Status Bar			

Software side

Login to ZKBioAccess EP software, click **System** > **Communication** > **Communication Device** to set the adms service port, as shown in the figure below:

©	Adms Service Settings
🔠 Basic Management 🕀	Adms Service Port 8088
∯ Authority ⊕	A The current port is for device communication service, if there is a network mapping for the service port, please refer to the actual mapped port.
Communication	
Device Commands	
Communication Device	
Communication Monitor	

13.2 Add Device on the Software

Add device by searching. The process is as follows:

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

				Search Device			
Search	No device found?	Download Search	Tools to Local Disk				
Total Progress		100%	S	earched devices cou	nt:1		
IP Address		Device Type		Serial Number		\bigotimes	
IP Address	MAC Address	Subnet Mask	Gateway Address	Serial Number	Device Type	Set Server	Operations
192.168.213.79		255.255.255.0	192.168.213.1	FOR OF MOCO	PedapteralX		Add
▲ The curren	t system communicati	ion port is 6609, ple	ease make sure the de	vice is set correctly.			

4) Click **Add** after the device to complete adding.

13.3 Add Personnel on the Software

1. Click **Personnel** > **Person** > **New**:

			New				
Personnel ID*	2		Department*	Department Name	1		
First Name			Last Name				
Gender			Mobile Phone				
Certificate Type	ID		Certificate Number				
Birthday			Email				
Device Verification Password	•••••		Card Number		ŝ	(Optimal Size 120*140).	
Biological Template Quantity	@ 0 @ 0	10 资 0 资 0				Browse Capture	
Access Control	Time Atte	endance	Personnel Detail			•	
Levels Settings	Add Select All Unselect All		Superuser	No	1	•	
🖉 General			Device Operation Role	Or	Ordinary User		
			Disabled				
			Set Valid Time				
		Save and	New OK	Cancel			

2. After setting all parameters, click OK.

13.4 Real-time monitoring on the Software

1. Click **Prevention** > **Epidemic** > **Real-time monitoring** to view all the events include the user whose temperature is over the range:

ZKTeco	2	00	S.	6	Ô					weig	ome, admi	n @ @ @ @ ()
©	Area	C	Device Name			Status		• (8)				
lemperature management ()	🐵 Alarm t	temperature s	etting									
	Time	Area	Device		Event P	oint	Personnel ID	First Name	Department	Body temperatur	Mask	Status
tatistics panel	2020-04-01	14:20:53 Area	Name 192.16	8.1.120	192.168.	1.120-1	2			36.0		Normal
emperature Raw Record	2020-04-01	14:20:43 Area	Name 192.16	8.1.120	192.168.	1.120-1	2			36.0		Normal
ersonnel temperature chedule	2020-04-01	10:50:21 Area	Name 192.16	8.1.120	192.168.	1.120-1	2	Jack	Sales	36.0	Non	e Exception
bnomal temperature record												
epartmental body temperature aily statistics report										Alarm	alert	×
											mber	1
											st Name pertment	Jack
										Bo	dy nperature	
										Ar	ea	Area Name
										De	vice	192.168.1.120
										Tir	ne	2020-04-01 10:50:21
												Close

When the **Alarm temperature setting** has set, the abnormal body temperature will be marked red automatically.

2. Click **Epidemic** > **Statistics panel** to view the analysis of statistical data and view the personnels with normal temperature.

ZKTeco	\$ [O & [O				Welcome, admin 🔅 🛞 🕧 🥐 🔱				
3	Statistics	ViewNormal temperaturePeople							
👂 Epidemic management 🖂	Time This week	Personnel ID		Department	t Name 🔍 🛞				
	The current query conditions None	The current query conditions None							
Real-time monitoring	C Refresh	⊖ Refresh							
		Personnel ID	First Name	Department Number	Department Name				
Temperature Raw Record		3		1	Sales				
Personnel temperature schedule		2		1	Sales				
	Normal temperature								
Abnomal temperature record	dy temperature —								
Departmental body temperature daily statistics report	Femperature abnormal Mormal temperature Temperature abnormal Unmeaured body temperature	r.							
		10 « 1-2	> >: 50 ro	wsperpage +	Jump To 1 /1 Page Total of 2 records				

Note: For other specific operations, please refer to ZKBioAccess EP 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.

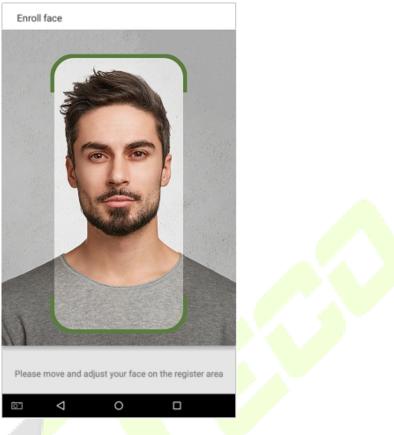


Image1 Face Capture Area

Requirements for Visible Light Digital Face Image Data

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

Eye Distance

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

Facial Expression

Plain face or smile with eyes naturally open are recommended.

Gesture and Angel

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

Accessories

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

Face

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

Image Format

Should be in BMP, JPG or JPEG.

Data Requirement

Should comply with the following requirements:

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

Appendix 2

Statement on the Right to Privacy

Dear Customers:

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

We Declare That:

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

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

Note:

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

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

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

Eco-friendly Operation

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

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

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

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

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

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



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