

User Manual

4-inch Visible Light Terminal

Date: June 2022 Doc Version: 1.1 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 www.zkteco.eu.

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

ZKTeco Headquarters

Address Ctra. Fuencarral 44. Building 1, 2nd Floor.

28108 Alcobendas Madrid. Spain

Phone +34 916 532 891

To know more about our global branches, visit www.zkteco.eu.

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 **4-inch Visible Light Terminal**.

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

Features and parameters with \star are not available in all devices.

Document Conventions

Conventions used in this manual are listed below:

GUI Conventions

For Software						
Convention Description						
Bold font	I 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 sepa <mark>rated</mark> 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.			
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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Data Security Statement

ZKTeco, as a smart product supplier, may also need to know and collect some of your personal information in order to better assist you in using ZKTeco's goods and services, and will treat your privacy carefully by developing a Privacy Policy.

Please read and understand completely all the privacy protection policy regulations and key points that appear on the device before using ZKTeco products.

As a product user, you must comply with applicable laws and regulations related to personal data protection when collecting, storing, and using personal data, including but not limited to taking protective measures for personal data, such as performing reasonable rights management for devices, strengthening the physical security of device application scenarios, and so on.

Safety Measures

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

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

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

7. **Replacement parts** - When replacement parts are needed, service technicians must only use replacement parts provided by the supplier. Unauthorized substitutes can result in a burn, shock, or other hazards.

- 8. **Safety check** On completion of service or repair work on the unit, ask the service technician to perform safety checks to ensure proper operation of the unit.
- 9. **Power sources** Operate the system only from the label's power source form. If the sort of power supply to use is unclear, call your dealer.
- 10. **Lightning** External lightning conductors can be installed to protect against electrical storms. It stops power-ups destroying the system.

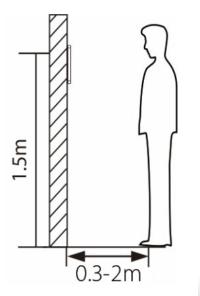
The devices should be installed in areas with limited access.

1 Instruction for Use

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

1.1 Standing Position, Posture and Facial Expression

• The recommended distance



The distance between the device and a user whose height is in a range of 1.55m-1.85m is recommended to be 0.3-2m. Users may slightly move forward or backward to improve the quality of facial images captured.

Recommended standing posture and facial expression



Standing Posture

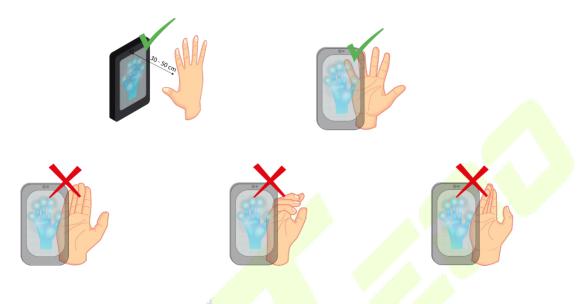
Facial Expression

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

1.2 Palm Registration

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

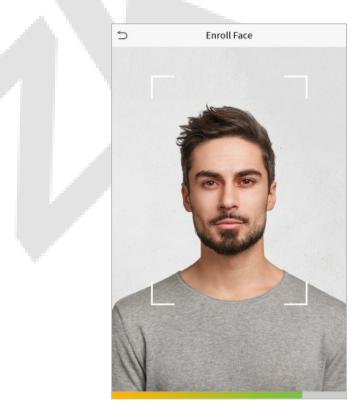
Make sure to keep space between your fingers.



Note: Place your palm within 30-50cm of the device.

1.3 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

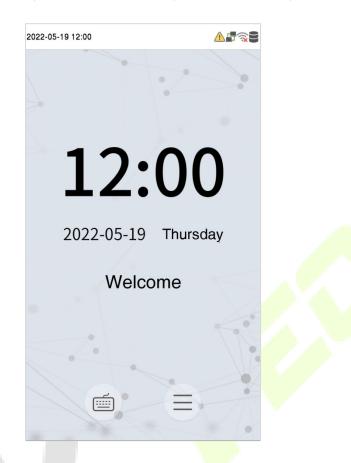
- When registering a face, maintain a distance of 40cm to 80cm between the device and the face.
- Be careful not to change your facial expression. (smiling face, drawn face, wink, etc.)
- If you do not follow the instructions on the screen, the face registration may take longer or may fail.
- Be careful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

1.4 Standby Interface

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



- Click is to enter the User ID input interface.
- When there is no Super Administrator set in the device, tap \equiv to go to the menu.
- After setting the Super Administrator on the device, it requires the Super Administrator's verification before entering the menu functions.

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

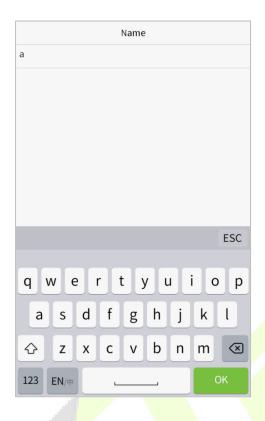
The punch state options can also be displayed and used directly on the standby interface.
 Click anywhere on the screen apart from the icons, and six shortcut keys appears on the screen, as shown in the figure below:



 Press the corresponding punch state key to select your current punch state, which is displayed in green.

Note: The punch state options are off by default and need to be changed to other option in the <u>"7.4</u> <u>Punch States Options"</u> in order to get the punch state options on the standby screen.

1.5 Virtual Keyboard



Note:

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

- Click **En** to switch to the English keyboard.
- Press **123** to switch to the numeric and symbolic keyboard.
- Click **ABC** to return to the alphabetic keyboard.
- Click the input box, virtual keyboard appears.
- Click **ESC** to exit the virtual keyboard.

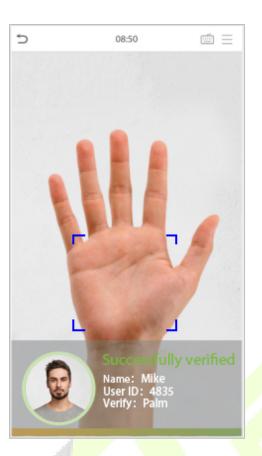
1.6 Verification Mode

1.6.1 Palm Verification

• 1: N palm verification mode

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

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



• 1: 1 palm verification mode

Click the button on the main screen to enter 1:1 palm verification mode and input the user ID and press OK, as shown in image below.

	16:5	5:00	
1			
1	2	3	$\overline{\mathbf{x}}$
4	5	6	^
7	8	9	\sim
ESC	0	123	ОК

If the user has registered face, card and password in addition to his/her palm, and the verification method is set to palm/ face/ card/ password verification, the following screen will appear. Select will icon to enter palm verification mode. Then place your palm for verification.



1.6.2 Facial Verification

1. Conventional verification

• 1:N facial verification

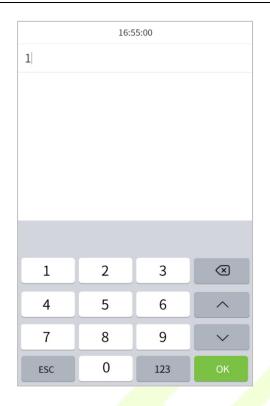
In this verification mode, the device compares the collected facial images with all face data registered in the device. The following is the pop-up prompt of a successful comparison result.



1:1 facial verification

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 click **OK**.



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

5	16:14	\equiv
User ID: 1		
	000	
	and	
	_	
	9	
	-	

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



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

2. Mask detection

When the user enabled the **Mask detection** function, the device will identify whether the user is wearing a mask or not. The following is the verification interface.



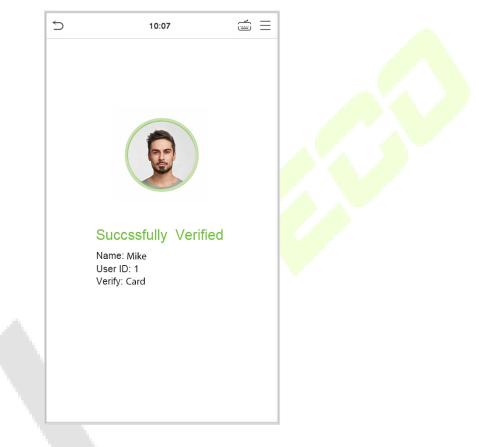
1.6.3 Card Verification

Card verification can be set up as both card and QR code verification methods.

1. Card Verification

• 1:N card verification

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



1:1 card verification

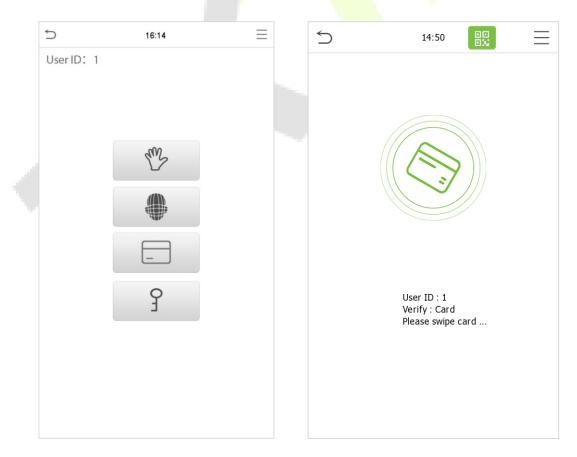
The 1:1 card verification mode compares the card number in the card induction area with the number associated with the employee's User ID registered in the device.

Press on the main interface to open the 1:1 card verification mode.

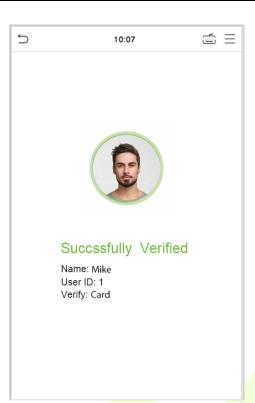
Enter the user ID and click OK.



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



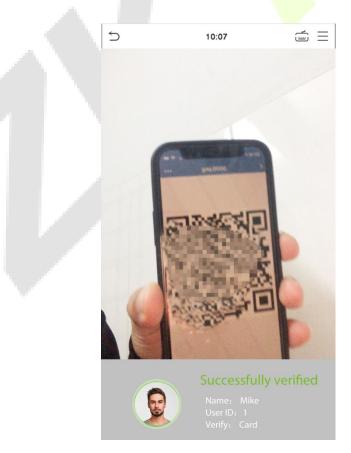
After successful verification, the prompt box displays "Successfully Verified", as shown below:



2. QR code verification

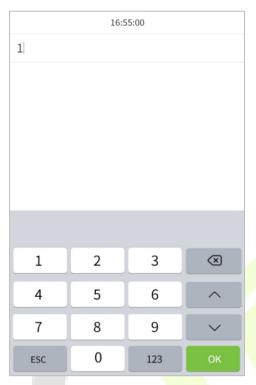
• 1:N QR code verification

Compare the acquired QR code with all QR code data registered in the device. The following is the popup prompt box of comparison result.

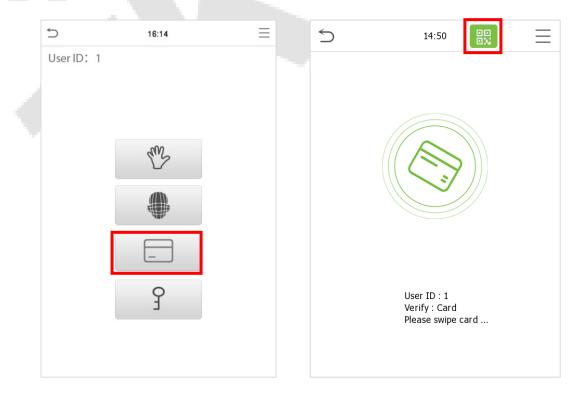


• 1:1 QR code verification

In this verification mode, the device compares the QR code captured by the camera with the QR code template related to the entered user ID. Press on the main interface and enter the 1:1 QR code verification mode and enter the user ID and click **OK**.



If the user has registered palm, face and password in addition to his/her card, and the verification method is set to palm/ face/card/ password verification, the following screen will appear. Select the \Box > \blacksquare icon to enter the QR code verification mode.



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



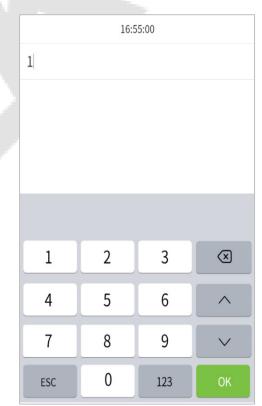


UCCESSFULLY VERIFIE Name: Mike User ID: 1 Verify: Card

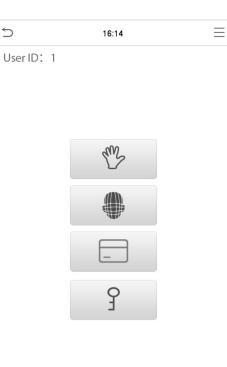
1.6.4 Password Verification

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

Click the is button on the main screen to enter the 1:1 password verification mode. Then, input the user ID and press **OK**.



If the user has registered palm, face and card in addition to password, and the verification method is set to palm/ face/ card/ password verification, the following screen will appear. Select the given to enter password verification mode.





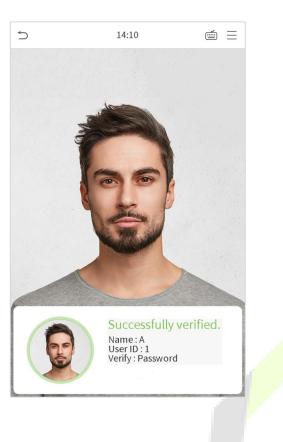
Input the password and press OK.

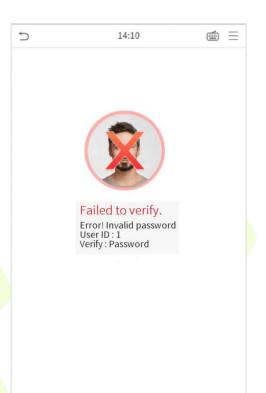
17:43							
Input password							
1	2	3	\bigotimes				
4	5	6	~				
7	8	9	\sim				
ESC	0	123	ОК				

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

Verification is successful:

Verification is failed:





1.6.5 Combined Verification

To increase security, this device offers the option of using multiple forms of verification methods. A total of 12 different verification combinations can be used, as shown below:

Combined Verification Symbol Definition

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

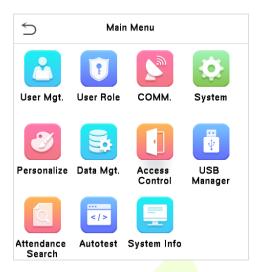
5	Verification Mode 11		5	Verification Mode 1	
۲	Password/Card/Face/Palm		0	Password	
0	User ID only		0	Card only	
0	Password		0	Password+Card	
0	Card only		0	Password/Card	
0	Password+Card		0	Face only	
0	Password/Card		0	Face+Password	
0	Face only		0	Face+Card	
0	Face+Password		۲	Palm	
0	Face+Card	-	0	Palm+Card	
0	Palm		0	Palm+Face	

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 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 scanned 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".

2 Main Menu

Press \equiv on the Standby interface to enter the **Main Menu**, the following screen will be displayed:



Function Description

Menu	Descriptions		
User Mgt. To Add, Edit, View, and Delete basic information of a User.			
User Role	To set the permission scope of th <mark>e custo</mark> m role and enroller for the users, that is, the rights to operate the system.		
COMM. To set the relevant parameters of Network, Serial Comm, PC Connection Network, Cloud Server, Wiegand and Network Diagnosis.			
SystemTo set the parameters related to the system, including date time, acce setting, face and palm parameters, video intercom parameters, security s reset to factory, USB upgrade, device type setting and detection managem			
Personalize	This includes User Interface, Voice, Bell Schedules, Punch State Options and Shortcut Key Mappings settings.		
Data Mgt.	To delete all relevant data in the device.		
Access Control	To set the parameters of the lock and the relevant access control device including options like Time Rule, Holiday Settings, Combine verification, Antipassback Setup, and Duress Option Settings.		
USB Manager	To upload or download the specific data by a USB drive.		
Attendance Search	To query the specified Event Logs, check Attendance Photos and Blocklist attendance photos.		
Autotest	To automatically test whether each module functions properly, including the LCD Screen, Audio, Microphone, Camera, and real-time clock.		
System Info	To view Data Capacity, Device and Firmware information and privacy policy of the device.		

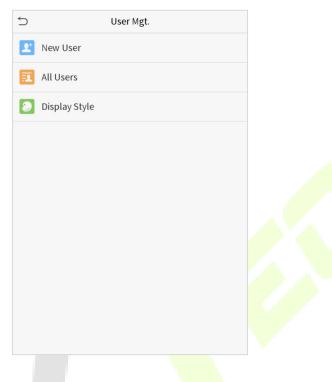
Note: When users use the product for the first time, they should operate it after setting administrator privileges. Tap **User Mgt.** to add an administrator or edit user permissions as a super administrator. If the product does not have an administrator setting, the system will show an administrator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



3 User Management

3.1 User Registration

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



3.1.1 User ID and Name

Tap New User. Enter the User ID and Name.

5	New User
User ID	1
Name	Mike
User Role	Normal User
Palm	1
Face	1
Card Number	1
Password	****
User Photo	1
Access Control Rol	e

Note:

- 1) A name can take up to 34 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!**" pops up, you must choose another ID as the enter User ID already exists.

3.1.2 User Role

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

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

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 Mode</u>.

3.1.3 Palm

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

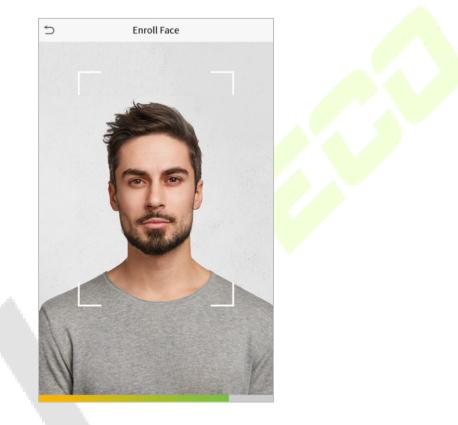
- Select the palm to be enrolled.
- Please place your palm inside the guiding box and keep it still while registering.
- A progress bar shows up while registering the palm and a **"Enrolled Successfully"** is displayed as the progress bar completes.
- If the palm is registered already then, the **"Duplicate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



3.1.4 Face

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

- Please face towards the camera and position your face inside the white guiding box and stay still during face registration.
- A progress bar shows up while registering the face and a **"Enrolled Successfully"** is displayed as the progress bar completes.
- If the face is registered already then the **"Duplicate Face"** message shows up. The registration interface is as follows:

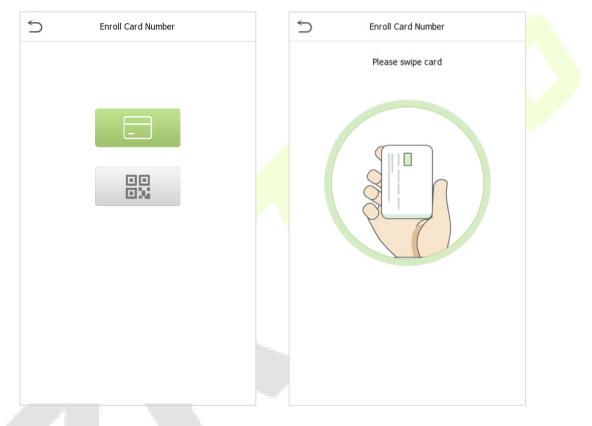


3.1.5 Card

Enroll card

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

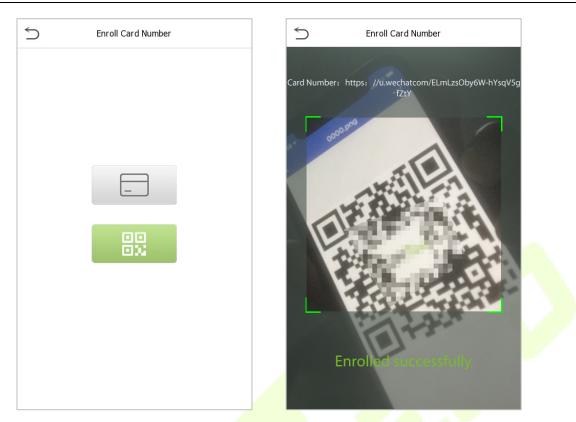
- On the Card interface, swiping card underneath the card reading area. The card registration will be successful.
- If the card is registered already then the "**Duplicate Card**" message shows up. The registration interface is as follows:



Enroll card QR code

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

- On the Card interface, show the QR code in front of the camera. The QR code registration will be successful.
- If the QR code is registered already then the "Error! Card already enrolled." message shows up. The registration interface is as follows:



3.1.6 Password

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

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

	Password			
4 I N	L			
V				
	1	2	3	$\overline{\mathbf{x}}$
	4		6	
	4	5	6	
	7	8	9	\sim
	ESC	0	123	ОК

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

3.1.7 User Photo

Tap on **User Photo** in the **New User** interface to go to the User Photo registration page.

5	New User	Ć
User ID	1	
Name	Mike	
User Role	Normal User	
Palm	1	
Face	1	
Card Number	1	
Password	****	
User Photo	1	
Access Control Ro	le	



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

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

3.1.8 Access Control Role

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

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

5	Access Control		
Access Group		1	
Time Period			

3.2 Search for Users

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

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

5	User Mgt.	Ś	All U	sers
2 Nev	w User	1	Amy	
🛐 All	Users	2	Jack	°™ €
Dis	play Style	3	Ella	et B
		4	Tony	
				Q

3.3 Edit User

5

User: 1 Mike

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

 \leq

Edit: 1 Mike

Edit User ID 1 Delete Name Mike User Role Normal User Palm 1 Face 1 Card Number https://www.zkteco.com/ ****** Password User Photo 0 Access Control Role

Note: The process of editing the user information is the same as that of adding a new user, except that the User ID cannot be modified when editing a user. The process in detail refers to <u>"3. User Management"</u>.

3.4 Delete User

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

Delete operations

Delete User: Deletes all the user information (deletes the selected User as a whole) from the Device.

Delete Face Only: Deletes the face information of the selected user.

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

Delete Palm Only: Deletes the palm information of the selected user.



Delete User

Delete Face Only

Delete Password Only

Delete Card Number Only

Delete Palm Only

4 User Role

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

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

Ś		User Role		
2.	User Defined Ro	ole 1		
2	User Defined Ro	ole 2		
2.	User Defined Ro	ole 3		
2	Enroller			

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

S User Role	User Defined Role 1
Subser Defined Role 1	Enable Defined Role
User Defined Role 2	Name User Defined Role 1
User Defined Role 3	Define User Role

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

	ined Role 1	5	User Role	
User Mgt.	✓ New User	۲	Normal User	
Comm.	All Users	0	User Defined Role 1	
V System	V Display Style	0	Super Admin	
Personalize				
Data Mgt.				
Access Control	-			
USB Manager				
Attendance Search				
Autotest				
System Info				

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

5 Communication Settings

Tap **COMM.** on the **Main Menu** to set the relevant parameters of Network, Serial Comm, PC Connection, Wireless Network, Cloud Server, Wiegand and Network Diagnosis.

5	Comm.	
	Ethernet	
	Serial Comm	
	PC Connection	
(î:	Wireless Network	
	Cloud Server Setting	
	Wiegand Setup	
	Network Diagnosis	

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.

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

Ś	Ethernet
IP Address	192.168.163.99
Subnet Mask	255.255.255.0
Gateway	192.168.163.1
DNS	0.0.0.0
TCP COMM.Port	4370
DHCP	\bigcirc
Display in Status Bar	

Function Description

Function Name	Descriptions
IP Address	The default IP address is 192.168.1.201. It can be modified according to the network availability.
Subnet Mask	The default Subnet Mask is 255.255.255.0. It can be modified according to the network availability.
Gateway	The default Gateway address is 0.0.0.0. It can be modified according to the network availability.
DNS	The default DNS address is 0.0.0.0. It can be modified according to the network availability.
TCP COMM. Port	The default TCP COMM Port value is 4370. It can be modified according to the network availability.
DHCP	Dynamic Host Configuration Protocol is to dynamically allocate IP addresses for clients via server.
Display in Status Bar	Toggle to set whet <mark>her to disp</mark> lay the ne <mark>twork icon on the s</mark> tatus bar.

5.2 Serial Comm

Serial Comm function facilitates to establish communication with the device through a serial port (RS485/ Master Unit).

Tap Serial Comm. on the Comm. Settings interface.

5	Serial Comm			5		Serial Port	
Serial Port		RS485(PC)		۲	no using		
Baudrate		115200	-	0	RS485(PC)		
				<u> </u>			
				0	Master Unit		
			-				

Function Description

Function Name	Descriptions					
	no using: Do not communicate with the device through the serial port.					
Serial Port	RS485(PC): Communicates with the device through RS485 serial port.					
	Master Unit: When RS485 is used as the function of " Master unit ", the device will act as a master unit, and it can be connected to RS485 card reader.					
	The rate at which the data is communicated with PC, there are 4 options of baud rate: 115200 (default), 57600, 38400, and 19200.					
Baud Rate	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.					

5.3 PC Connection

Comm Key facilitates to improve the security of data by setting the communication between the device and the PC. Once the Comm Key is set, its connection password must be provided before the device gets connected to the PC software.

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

N	5	PC Connection	
	Comm Key		0
	Device ID		1

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

5.4 Wireless Network

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

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

Tap Wireless Network on the Comm. Settings interface to configure the WiFi settings.

5	Wireless Network
WIFI	
Add WIFI Network	
Advanced	

• Search the WIFI network

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

S Wireless Network		5		ZSZX	-test
WIFI			Security: WPAP:	SK/WPA2PS	к
kq1234 Not in the	Network range		Signal Strength:	Strong	
Add WIFI Network			Password		
Advanced					
			Connect to WIF	I (OK)	Cancel (ESC)
		_			

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

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

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

Add WIFI network manually

The WIFI can also be added manually if the required WIFI is not displayed on the list.

the Network range

SSID Network Mode INFRA Auth. Mode OPEN
Auth Mode OPEN

Tap on **Add WIFI Network** to add the WIFI manually.

On this interface, enter the WIFI network parameters. (The added network must

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

Advanced setting

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

S Wi	reless Network
WIFI	
	Not in the Network range
Add WIFI Network	
Advanced	

5	Ethernet	
DHCP		
IP Address		0.0.0.0
Subnet Mask		0.0.0.0
Gateway		0.0.0.0

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

5.5 Cloud Server Setting

Tap **Cloud Server Setting** on the **Comm.** Settings interface to connect with the ADMS server.

5	Cloud Server Setting
Server Mode	ADMS
Enable Domain Nan	ne
Server Address	0.0.0.0
Server Port	8081
Enable Proxy Serve	r
HTTPS	\bigcirc

Function Description

Function Name		Description
Enable Domain Server Address Name		Once this function is enabled, the domain name mode "http://" will be used, such as http://www.XYZ.com, while "XYZ" denotes the domain name (when this mode is turned ON).
Disable Domain NameServer AddressDomain Server PortEnable Proxy Server		IP address of the ADMS server.
		Port used by the ADMS server.
		When you choose to enable the proxy, you need to set the IP address and port number of the proxy server.
HTTPS		To increase the security of browser access, users can enable the HTTPS protocol to create a secure and encrypted network transmission and assure the security of sent data through identity authentication and encrypted communication. This function is enabled by default. This function can be enabled or disabled through the menu interface, and when changing the HTTPS status, the device will pop up a security prompt, and restart after confirmation.

5.6 Wiegand Setup

To set the Wiegand input and output parameters.

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

5	Wiegand Setup
Wiegand Input	
Wiegand Output	

5.6.1 Wiegand Input

5	Wiegand Option	ns
Wiegand	Format	
Wiegand	Bits	26
Pulse Wi	dth(us)	100
Pulse Int	erval(us)	1000
ID Type		User ID

Function Description

Function Name	Descriptions
Wiegand Format	Values range from 26 Bits, 34 Bits, 36 Bits, 37 Bits, 50 Bits and 64Bits.
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 400 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 card number.

Various Common Wiegand Format Description

Wiegand Format	Description		
	ECCCCCCCCCCCCCCCCO		
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.		
Wiegand26a	ESSSSSSSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		
Wiegand34	ECCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		

	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.
	EFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF
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.
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.
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, and 15 th to 20 th bits are the site codes, and the 21 st to 36 th bits are the card numbers.
	ESSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS
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.

"F" denotes the facility code; "M" denotes the manufacturer code; "P" denotes the parity bit; and "S" denotes the site code.

5.6.2 Wiegand Output

5	Wiegand Option	S		
Wiegand I	Wiegand Format			
Wiegand	output bits	26		
Failed ID		Disabled		
Site Code		Disabled		
Pulse Wid	th(us)	100		
Pulse Inte	rval(us)	1000		
ID Type		User ID		

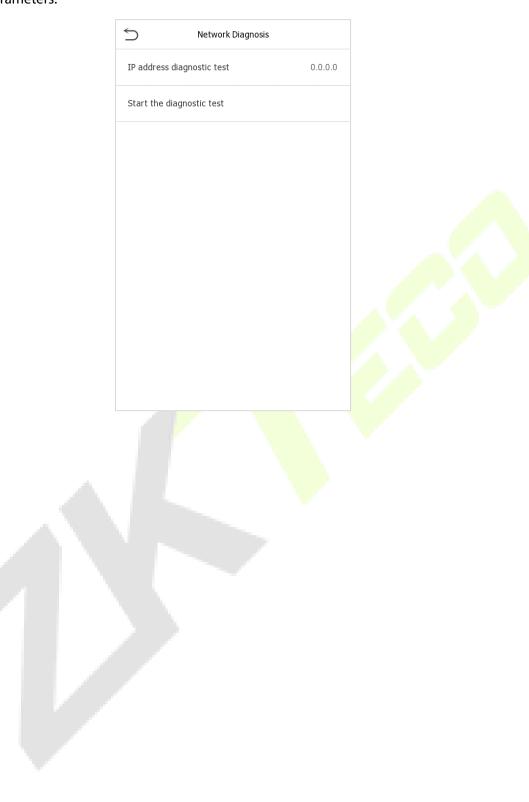
Function Description

Function Name	Descriptions
SRB★	When SRB is enabled, the lock is controlled by the SRB to prevent the lock from being opened due to device removal.
Wiegand Format	Values range from 26 bits, 34 bits, 36 bits, 37 bits, and 50 bits.
Wiegand Output Bits	After selecting the required Wiegand format, select the corresponding output bit digits of the Wiegand format.
Failed ID	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 one.
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 electric charge with regular high-frequency capacitance within a specified time.
Pulse Interval(us)	The time interval between pulses.
ID Type	Select the ID types as either User ID or card number.

5.7 Network Diagnosis

To set the network diagnosis parameters.

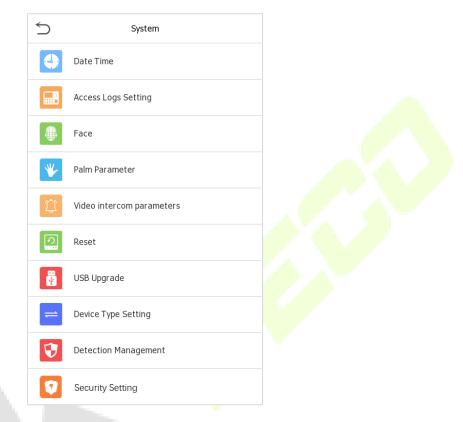
Tap **Network Diagnosis** on the **Comm.** Settings interface to set the IP address diagnostic and Start the diagnostic parameters.



6 <u>System Settings</u>

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

Tap **System** on the **Main Menu** interface to set the related system parameters so as to optimize the performance of the device.



6.1 Date and Time

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

5	Date Time	
Date and Time Au	to Sync	
Set the NTP Serve	er Address	0.cn.pool.ntp.org
Select Time Zone		UTC+8:00
24-Hour Time		
Date Format		YYYY-MM-DD

- The product supports the NTP synchronization time system by default. This function takes effect after **Date and Time Auto Sync** is enabled and the corresponding NTP server address link is set.
- If users need to set date and time manually, disable **Date and Time Auto Sync** first, and then tap **Manual time setting** to set date and time and tap **Confirm** to save.

5	Date Time	
Date and Time Auto Sy	nc	\bigcirc
Manual Date and Time		
Select Time Zone		UTC+8:00
24-Hour Time		
Date Format		YYYY-MM-DD

- Tap **24-Hour Time** to enable or disable this format. If enabled, then select the **Date Format** to set the date format.
- Tap Daylight Saving Time to enable or disable the function. If enabled, tap Daylight Saving Mode to select a daylight-saving mode and then tap Daylight Saving Setup to set the switch time.

Ś	Daylight Saving Setup		5	Daylight Saving Setup	
Start Month		1	Start Date		00
Start Week		1	Start Time		00
Start Day		Sunday	End Date		00
Start Time		00:00	End Time		00
End Month		1			
End Week		1			
End Day		Sunday			
End Time		00:00			

• 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 Settings on the System interface.

5	Access Logs Setting	
Camera Mode	Save on fai	led verification
Display User Ph	noto	
Access Log Ale	rt	99
Periodic Del of	Access Logs	Disabled
Periodic Del of	ATT Photo	99
Periodic Del of	Blocklist Photo	99
Authentication	n Timeout(s)	3
Face comparise	on interval(s)	1

Function Name	Description		
	This function is disabled by default. When enabled, a security prompt will pop-up and the sound of shutter in the camera will turn on mandatorily. There are 5 modes:		
	No Photo: No photo is taken during user verification.		
Camera Mode	Take photo, no save: Photo is taken but 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.		
× 1	Save on failed verification: Photo will be taken and saved only for each failed verification.		
Display User Photo	This function is disabled by default. When enabled, there will be a security prompt.		
Access Logs Alert	When the record space of the attendance access reaches the maximum threshold value, the device will automatically display the memory space warning.		
	Users may disable the function or set a valid value between 1 and 9999.		
Periodic Del of Access Logs	When access records have reached full capacity, the device will automatically delete a set of old access records.		
	Users may disable the function or set a valid value between 1 and 999.		

Periodic Del of ATT	When attendance photos have reached full capacity, the device will automatically delete a set of old attendance photos.
Photo	Users may disable the function or set a valid value between 1 and 99.
Periodic Del of	When block listed photos have reached full capacity, the device will automatically delete a set of old block listed photos.
Blocklist Photo	Users may disable the function or set a valid value between 1 and 99.
Authentication	The time length of the message of successful verification displays.
Timeout(s)	Valid value: 1~9 seconds.
Face comparison	To set the facial template matching time interval as required.
Interval (s)	Valid value: 0~9 seconds.

Face Parameters 6.3

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

5	Face	11	5 Face	11
1:N Threshold Va	lue	74	Face Rotation Angle	25
1:N Match Thresh People	old for Masked	68	Image Quality	40
1:1 Threshold Val	ue	63	Minimum Face Size	80
Face Enrollment	Threshold	70	LED Light Trigger Value	80
Face Pitch Angle		35	Motion Detection Sensitivity	4
Face Rotation An	gle	25	Live Detection	
Image Quality		40	Live Detection Threshold	50
Minimum Face Siz	ze	80	Anti-spoofing using NIR	\bigcirc
LED Light Trigge	r Value	80	Face Algorithm	
Motion Detection	Sensitivity	4	Save Photo as Template	

500	FAD	Recommended Matching Thresholds		
FRR	FAR	1:N	1:1	
High	Low	85	80	
Medium	Medium	82	75	
Low	High	80	70	

Function Name	Description
1:N Threshold Value	Under 1:N verification mode, the verification will only be successful when the similarity between the acquired facial image and all registered facial templates is greater than the set value.
	The valid value ranges from 65 to 120. The higher the thresholds, the lower the misjudgment rate, the higher the rejection rate, and vice versa. It is recommended to set the default value of 75.
1:1 Threshold Value	Under 1:1 verification mode, the verification will only be successful when the similarity between the acquired facial image and the user's facial templates enrolled in the device is greater than the set value.
	The valid value ranges from 55 to 120. The higher the thresholds, the lower the misjudgment rate, the higher the rejection rate, and vice versa. It is recommended to set the default value of 63.
Face	During face enrollment, 1:N comparison is used to determine whether the user has already registered before.
Enrollment 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 the minimum size of the captured figure is smaller than this set value, then it will be filtered off 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 Value	This value controls the on and off of the LED light. The larger the value, the more frequently the LED light will be turned on.

Motion Detection	It is to set the value for the amount of change in a camera's field of view, which is known as potential motion detection that wakes up the terminal from standby to the comparison interface.		
Sensitivity	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 the motion detection frequently triggered.		
Live Detection	Detecting the spoof attempt using visible light images to determine if the provided biometric source sample is really a person (a live human being) or false representation.		
Live Detection Threshold	Facilitates to judge whether the captured visible image is really a person (a live human being). The larger the value, the better the anti-spoofing performance using visible light.		
Anti-spoofing using NIR	Using near-infrared spectra imaging to identify and prevent fake photos and videos attack.		
Face Algorithm	Facial algorithm related information and pause facial template update.		
Save Photo as Template	This function is enabled by default, and the menu interface supports enabling or disabling this function, and there is a security prompt when switching. When this function is disabled, it will indicate that there is a risk reminder: "Face re-registration is required after an algorithm upgrade."		
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

Tap **Palm** on the **System** interface to configure the palm settings.

Palm Parameter	
Palm 1:1 Matching Threshold	576
Palm 1:N Matching Threshold	576

Function Name	Description	
Palm 1:1 Matching Threshold	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 Video Intercom Parameters

Click Video intercom parameters on the System interface.

S Video intercom parameters		
QR code binding		
Intercom Server Setting		
Calling Timeout(s)	20	

Function Name		Description	
QR Code Binding		For video door phone connection, after downloading and installing the ZSmart APP on the phone, open the APP and add the device by scanning the QR code.	
Intercom Server	Server Address	s IP address of the ADMS server.	
Setting	Server Port	Port used by the ADMS server.	
Calling Timeout(s)		When a call is not answered and the time exceeds the set value, the device will automatically hang up the call. Valid value 10~30 seconds.	

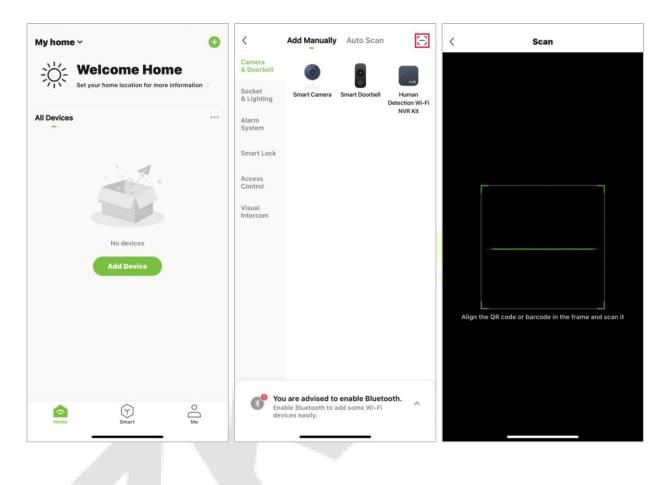
• Connect to ZSmart APP

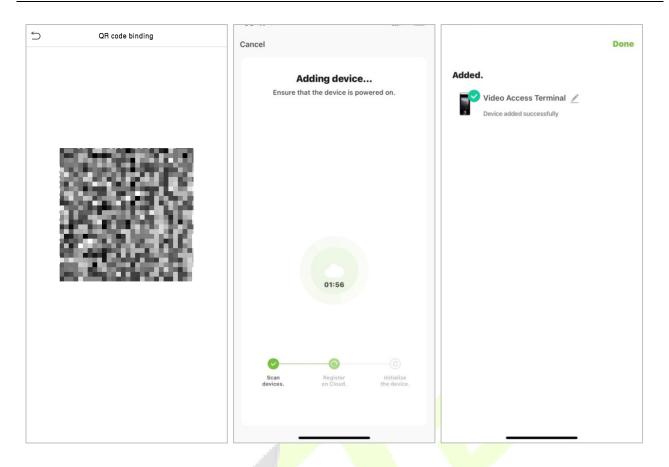
Add Device or ticon

After downloading and installing the ZSmart APP on your phone, create a User account initially with

your Email ID. After creating the User account, log in to the App, and click on the top right corner of the screen to add a device. The process is as follows:

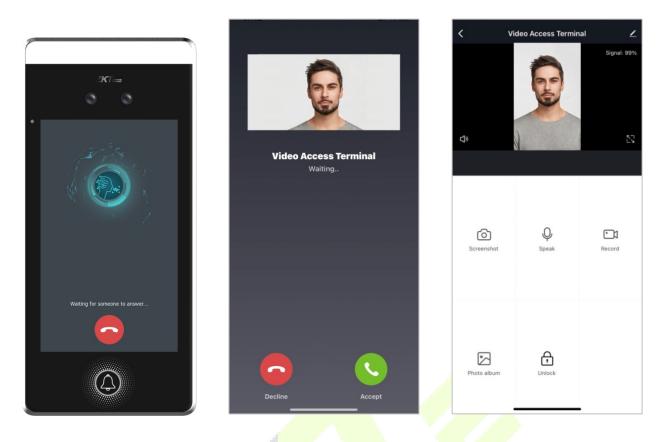
- 1) Click **Add Device** on the Home page.
- 2) Click the C icon in the upper right corner to scan and add devices.





Video door phone connection

Visitors press the button on the device to make a call and the phone will ring. The user can accept or decline the call. After the user accepts the call, it will open the video door phone interface. Enter the password to unlock the door.



6.6 Security Setting

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

Security Setting	
Security Mode	
Standalone communication	
SSH	
User ID Masking	
Display Verification Name	\bigcirc
Display Verification Mode	\bigcirc

Page **|61**

Function Name	Description
	When enabled, user information verification has a high level of security. This function can be enabled or disabled via the menu interface. When switching on and off, there are security prompts. All data will be deleted and the device will be restarted after confirmation.
Security Mode	Note: After turning on the security mode, the product will forcibly enable the function of returning to the standby interface when the menu times out by default (default 60s). It does not support disabling in security mode, but it does support disabling in non-security mode. To configure, go to Personalize > User Interface > Menu Screen Timeout(s) .
Standalone Communication	By default, this function is disabled. This function can be enabled or disabled via the menu interface. When it is switched on, a security prompt appears, and the device will restart after you confirm.
SSH	The device does not support the Telnet feature, hence SSH is typically used for remote debugging. By default, SSH is enabled. The menu interface allows you to enable and disable SSH. When enabled, there will be a security prompt, but the device will not need to be restarted after confirmation.
User ID Masking	After enabled, the User ID will be partially displayed after the personnel verification result (only the User ID with more than 2 digits supports the masking display), and it is enabled by default.
Display Verification Name After enabled, the user's name will be displayed after the personance verification result. The verification result will not show the after disabling it.	
Display Verification Mode	After enabled, the personnel verification result will show the user's verification mode. The verification result will not show the verification mode after you disable it.

6.7 Factory Reset

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

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

	\mathbf{r}	System	
-	Date 1	Fime	
	Acces	s Logs Setting	
-	Face		
-	Palm F	Parameter	
-	💭 Video	intercom parameters	
-	Reset		
	USB U	pgrade	
		Reset?Restart	
		ОК	
		Cancel	

6.8 USB Upgrade

Tap **USB Upgrade** on the **System** interface.

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

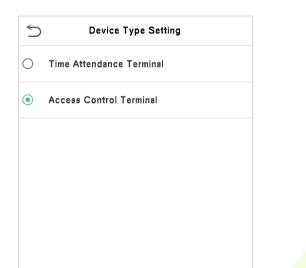
If no USB disk is inserted in, the system gives the following prompt after you tap **USB Upgrade** on the System interface.

5	USB Upgrade	
	USB Upgrade	

Note: If upgrade file is needed, please contact our technical support. Firmware upgrade is not recommenced under normal circumstances.

6.9 Device Type Setting

Tap **Device Type Setting** on the System interface.



Function Name	Description
Time Attendance Terminal	Set the device as time attendance terminal.
Access Control Terminal	Set the device as access control terminal.

6.10 Detection Management

Click **Detection Management** on the System interface to configure the Detection Management settings.

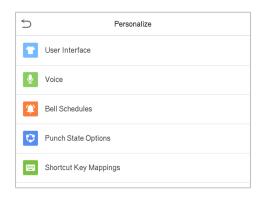
Detection Management	
Enable mask detection	
Deny access without mask	\bigcirc
Allow unregistered people to access	\bigcirc
Trigger external alarm	\bigcirc
Clear external alarm	
External Alarm Delay(s)	255

Function Name

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.	

7 Personalize Settings

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



7.1 Interface Settings

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

Ś	User Interface	
Wallpaper		
Language		English
Menu Screen T	Timeout(s)	Disabled
Idle Time to Sl	ide Show(s)	None
Slide Show Int	erval(s)	Disabled
Idle Time to Sl	eep(m)	Disabled
Main Screen S	tyle	Style 1

Function Name	Description
Wallpaper	The main screen wallpaper can be selected according to the user preference.
Language	Select the language of the device.
Menu Screen	When there is no operation, and the time exceeds the set value, the device will automatically go back to the initial interface.
Timeout (s)	The function either can be disabled or set the required value between 60 and 99999 seconds.
Idle Time To Slide	When there is no operation, and the time exceeds the set value, a slide show

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

7.2 Voice Settings

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

5	Voice	
Voice Prompt		
Touch Prompts	\bigcirc	
Volume	70	
		Y

Function Description

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

7.3 Bell Schedules

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

5	Bell Schedules
New Bell S	chedule
All Bell Schedules	

New bell schedule

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

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

Function Description

Function Name	Description	
Bell Status	Toggle to enable or disable the bell status.	
Bell Time	Once the required time is set, the device will automatically trigger to ring the bell during that time.	
Repeat	Set the required number of counts to repeat the scheduled bell.	
Ring Tone	Select a ring tone.	
Internal Bell D elay(s)	Set the replay time of the internal bell. Valid values range from 1 to 999 seconds.	

• All bell schedules

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

• Edit the scheduled bell

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

Delete a bell

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

7.4 Punch States Options

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

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

Function Name	Description		
	Off: Disable the punch state function. Therefore, the punch state key set under Shortcut Key Mappings menu will become invalid.		
	Manual Mode: Switch the punch state key manually, and the punch state key will disappear after Punch State Timeout.		
Auto Mode: The punch state key will automatically switch to a sp punch status according to the predefined time schedule which can be the Shortcut Key Mappings.			
Punch State Mode	Manual and Auto Mode: The main interface will display the auto-switch punch state key. However, the users will still be able to select alternative that is the manual attendance status. After timeout, the manual switching punch state key will become auto-switch punch state key.		
	Manual Fixed Mode: After the punch state key is set manually to a particular punch status, the function will remain unchanged until being manually switched again.		
	Fixed Mode: Only the manually fixed punch state key will be shown. Users cannot change the status by pressing any other keys.		

7.5 Shortcut Key Mappings

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

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

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

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

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

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

Set the switch time

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

5 F1	Switch Cycle	Set Switch Time
Punch State Value 0	Monday	Switch Cycle Monday Tuesday Wednes
Function Punch State Options	✓ Tuesday	Monday
Name	✓ Wednesday	Tuesday
Set Switch Time	✓ Thursday	Wednesday
	✓ Friday	Thursday
	Saturday	Friday
	Sunday	

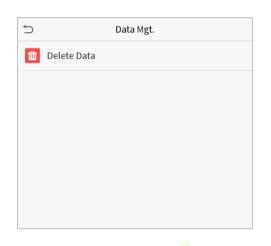
• Once the Switch cycle is selected, set the switch time for each day and tap **OK** to confirm, as shown in the image below.

S Mor	nday	5	Set Switch Time
		Switch Cycl	e Monday Tuesday Wednes
08	:00	Monday	08:00
		Tuesday	
▲ 08	00	Wednesday	
		Thursday	
НН	MM	Friday	
Confirm (OK)	Cancel (ESC)		
	Cancer (LOC)		

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

8 Data Management

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



8.1 Delete Data

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

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

Function Name	Description	
Delete Access Records	To delete attendance data/access records conditionally.	
Delete Attendance Photo	To delete attendance photos of designated personnel.	

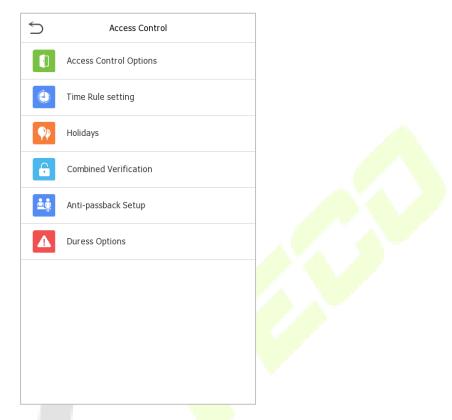
Delete Blocklist Photo	To delete the photos taken during failed verifications.			
Delete All Data	To delete information and attendance logs/access records of all registered users.			
Delete Admin Role	To remove all administrator privileges.			
Delete Access Control	o delete all access data.			
Delete User Photo Templates	To delete user photo templates in the device. When deleting template photos, there is a risk reminder: "Face re-registration is required after an algorithm upgrade."			
Delete Profile Photo	To delete all user photos in the device.			
Delete Wallpaper	To delete all wallpapers in the device.			
Delete Screen Savers	To delete the screen savers in the device.			

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

Ć	Delete Attendance Data	-	C	Sta	irt Time		
Delete All							
Delete bỵ T	ime Range						
			2019-05-1	LO 00:			
			2019	05	10	00	00
				•		•	
			YYYY	MM	DD	HH	MM
			Confirn	ו (OK)		Cancel (E	SC)
Select D	Pelete by Time Range.	9	Set the ti		ge and		

9 Access Control

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



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

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

9.1 Access Control Options

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

Access Control Options 1	Access Control Options
Gate Control Mode	Gate Control Mode
Door Lock Delay (s) 5	Verification Mode Password/Card/F
Door Sensor Delay (s) 10	Door available time period 1
Door Sensor Type Normal Close	Normal open time period None
Verification Mode Password/Card/F	Master Device Out
Door available time period 1	Slave Device Out
Normal open time period None	Auxiliary input configuration
Master Device Out	Verify mode by RS485 Card Only
Slave Device Out	Speaker Alarm
Auxiliary input configuration	Reset Access Setting

Function Name	Description
Gate Control Mode	Toggle between ON or OFF switch to get into gate control mode or not. When set to ON , on this interface will remove Door lock relay, Door sensor
	relay and Door sensor type options.
Door Lock Delay (s)	The length of time that the device controls the electric lock to be in unlock state.
	Valid value: 1~10 seconds; 0 second represents disabling the function.
Door Sensor Delay (s)	If the door is not locked and is being left open for a certain duration (Door Sensor Delay), an alarm will be triggered.
	The valid value of Door Sensor Delay ranges from 1 to 255 seconds.
	There are three Sensor types: None, Normal Open and Normal Closed.
Door Sensor Type	None: It means door sensor is not in use.
	Normal Open: It means the door is always left opened when electric power is on.
	Normal Closed: It means the door is always left closed when electric power is on.

	1	
Verification Mode	The supported verification mode includes Password/Face, User ID only, Password, Face only, and Face + Password.	
Door AvailableTime Period	To set time period for door, so that the door is available only during that period.	
Normal Open Time Period	Scheduled time period for "Normal Open" mode, so that the door is always left open during this period.	
Master Device	When setting up the master, the status of the master can be set to exit on enter.	
Master Device	Out: The record verified on the host is the exit record.	
	In: The record verified on the host is the entry record.	
	When setting up the slave, the status of the slave can be set to exit on enter.	
Slave Device	Out: The record verified on the host is the exit record.	
	In: The record verified on the host is the entry record.	
Auxiliary input Configuration	Sets the door unlock time period and auxiliary output type of the auxiliar terminal device. Auxiliary output types include None, Trigger door oper Trigger Alarm, Trigger door open and Alarm.	
Verify Mode by RS485	The verification mode is used when the device is used either as a host or slave.	
	The supported verification mode includes Card Only, Card + Password.	
Speaker Alarm	Transmits a sound alarm or disassembly alarm from the local. When the door is closed or the verification is successful, the system will cancel the alarm from the local.	
Reset Access Setting	The access control reset parameters include door lock delay, door sensor delay, door sensor type, 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 Rule Setting

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

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

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

5	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:
1	Q

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

5		Time P	eriod 1		
0	0:00 23:59				
	00	00	23	59	
	нн	ММ	нн	ММ	
	Confirm (O	N)	Ca	ncel (ESC)	

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

Note:

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

9.3 Holidays

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.

Tap Holidays on the Access Control interface to set the Holiday access.

5	Holidays	
Add Holiday		
All Holidays		

• Add a new holiday

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

5	Holidays
No.	1
Date	Undefined
holiday type	holiday type 1
Looping or not	

Edit a holiday

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

Delete a Holiday

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

9.4 Combined Verification

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.

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

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

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

For Example:

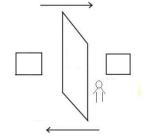
- The **Door-unlock combination 1** is set as **(01 03 05 06 08)**, indicating that the unlock combination 1 consists of 5 people, and the 5 individuals are from 5 groups, namely, **Access Control Group** 1 (AC group 1), AC group 3, AC group 5, AC group 6, and AC group 8, respectively.
- The **Door-unlock combination 2** is set as **(02 02 04 04 07)**, indicating that the unlock combination 2 consists of 5 people; the first two are from AC group 2, the next two are from AC group 4, and the last person is from AC group 7.
- The **Door-unlock combination 3** is set as **(09 09 09 09 09)**, indicating that there are 5 people in this combination; all of which are from AC group 9.
- The **Door-unlock combination 4** is set as **(03 05 08 00 00)**, indicating that the unlock combination 4 consists of only 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 Door-unlock combinations to 0 if you want to delete door-unlock 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 a security breach. So, to avoid such a situation, the Anti-Passback option was developed. Once it is enabled, the check-in record must match with the 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), and the other one is installed outside the door (slave device). The two devices communicate via the Wiegand signal. The Wiegand format and Output type (User ID / Card Number) adopted by the master device and slave device must be consistent.



Tap Anti-passback Setup on the Access Control interface.

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

Function Name	Description					
	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 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-passback: 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.					

9.6 Duress Options

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

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

5	Duress Optior	ıs
Alarm on	Password	\bigcirc
Alarm De	lay(s)	10
Duress P	assword	None

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

10 USB Manager

You can import the user information, and attendance data in the machine to matching attendance software for processing by using a USB disk, or import the user information to other devices for backup.

Before uploading/downloading data from/to the USB disk, insert the USB disk into the USB slot first.

Tap **USB Manager** on the main menu interface.



10.1 USB Download

On the **USB Manager** interface, tap **Download**.

\mathbf{r}	Download				
Download Access Records					
User Data					
User Portrait Attendance Photo Blocklist Photo					

Function Name	Description			
Download Access Record	To download access record in specified time period into USB disk.			
User Data	To download all user information from the device into USB disk.			
User Portrait	To download all user portraits from the device into a USB disk.			
Attendance Photo	To download all attendance photos from the device into USB disk.			
Blocklist Photo	To download all blocklisted photos (photos taken after failed verifications) from the device into USB disk.			

10.2 USB Upload

On the **USB Manager** interface, tap **Download**.

Ś	Upload	
Screen Saver		
Wallpaper		
User Data		
User Portrait		

Function Name	Description
Screen Saver	To upload all screen savers from USB disk into the device. You can choose Upload selected photo or Upload all photos. The images will be displayed on the device's main interface after upload.
Wallpaper	To upload all wallpapers from USB disk into the device. You can choose Upload selected photo or Upload all photos. The images will be displayed on the screen after upload.
User Data To upload all the user information from USB disk into the device.	
User Portrait To upload all user portraits from USB disk into the device.	

11 Attendance Search

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

Click **Attendance Search** on the **Main Menu** interface to search for the required Access/Attendance log.

5	Attendance S	earch		
🔳 Even	t Logs			
I Atter	idance Photo			
Block	klist ATT Photo			

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

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

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

2. Select the time range in which the logs need to be searched.

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

5	Time Range
 Today 	
O Yesterday	
○ This week	
O Last week	
O This month	
O Last month	
) All	
O User Defined	

3. Once the log search succeeds. Tap the login highlighted in green to view its details.

_
1
2
13
1
14
1
1
15
06
1
6
56 17:44

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

Personal Record Search									
User ID	Name	Access recor	Mode	State					
1	А	05-09 12:25	15	0					
Vorification	n Mode : Face	Statucila							
venication	r woue : Face	Status : In							

12 Autotest

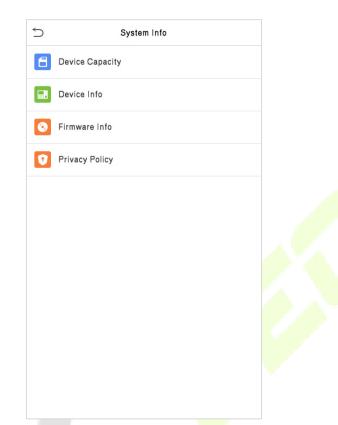
On the **Main Menu**, tap **Autotest** to automatically test whether all modules in the device function properly, which include the LCD, Voice, Camera and Real-Time Clock (RTC).

5	Autotest
	Test All
	Test LCD
9	Test Voice
0	Microphone test
	Test Face
•	Test Clock RTC

Function Name	Description
Test All	To automatically test whet <mark>her the</mark> 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.
Microphone Test	Check whether the microphone is working by speaking to microphone and playing the microphone recording.
Test Face	To test if the camera functions properly by checking the photos 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. Tap the screen to start counting and press it again to stop counting.

13 System Information

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



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

14 Connect to ZKBioAccess IVS Software

14.1 Set the Communication Address

Device side

1. Tap **COMM.** > **Ethernet** in the main menu to set the IP address and gateway of the device.

(**Note:** The IP address should be able to communicate with the ZKBioAccess IVS 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 the IP address as of ZKBioAccess IVS server.

Server port: Set the server port as of ZKBioAccess IVS(The default is 8088).

⇒ Ethe	ernet	S 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	HTTPS	\bigcirc
Display in Status Bar			

Software side

Login to ZKBioAccess IVS software, click **System** > **Communication** > **Communication Monitor** to set the ADMS service port, as shown in the figure below:

Ø	Adms Service Settings
Basic Management \oplus	Adms Service Port 8088 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.
💑 Authority 🕀	The current port is for device communication service, in there is a network mapping for the service port, please relef to the actual mapped port.
Communication	
Device Commands	
Communication Device	
Communication Monitor	

14.2 Add Device on the Software

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

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

				Search Device				×
Search	No device found?	Download Search	Tools to Local Disk					
Total Progress 100% Searched devices count:1								
IP Address		Device Type		Serial Number		\bigotimes		
IP Address	MAC Address	Subnet Mask	Gateway Address	Serial Number	Device Type	Set Server	Operations	
92.168.213.79		255.255.255.0	192.168.213.1	todo en esco	PedaptersK		Add	
▲ The current system communication port is 6609, please make sure the device is set correctly.								
	Close							

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.

14.3 Add Personnel on the Software

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

			New				
Personnel ID*	2		Department*		Department Name		
First Name			Last Name				
Gender			Mobile Phone				
Certificate Type	ID		Certificate Nun	nber			
Birthday			Email				
Device Verification Password	•••••		Card Number			ŝ	(Optimal Size 120*140).
Biological Template Quantity	0	뚯 0					Browse Capture
Access Control	Time Attendance		Personnel Detail				Þ
Levels Settings	Add	Add Select All			No)	•
🖉 General	Select /			Device Operation Role			er 🗸
	Unselec	Unselect All	Disabled				
			Set Valid Time				
	Sav	e and	New OK		Cancel		

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

Appendix 1

Requirements of Live Collection and Registration of Visible Light

Face Images

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



Requirements for Visible Light Digital Face Image Data

The digital photo should be straight-edged, 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.

Appendix 2

Privacy Policy

Notice:

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

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

I. Collected Information

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

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

II. Product Security and Management

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

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

III. How we handle personal information of minors

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

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

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

IV. Others

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

Eco-friendly Operation

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

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

Hazardous 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				

 \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.

Ctra. Fuencarral 44. Building 1, 2nd Floor.

28108 Alcobendas Madrid. Spain

Phone :+34 916 532 891

www.zkteco.eu

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