

# **User Manual**

# **ProMA Series**

Date: May 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.

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

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

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### 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 the ProMA Series.

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

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

### **Document Conventions**

#### Conventions used in this manual are listed below:

#### **GUI** Conventions

For Software			
Convention	Convention Description		
Bold font	Used to identify software interface names e.g. 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.		
/	Multi-level menus are separat <mark>ed by</mark> forwarding slashes. For example, [File/Create/Folder].		

#### Symbols

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

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# 1 Instruction for Use

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

### 1.1 How to scan the QR code?

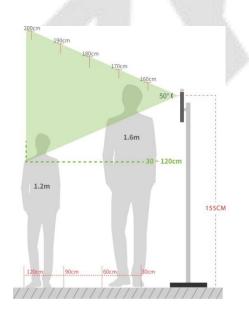
Open the Mobile Credential of ZKBioSecurity App and parallel the phone screen to the device QR code scanner.



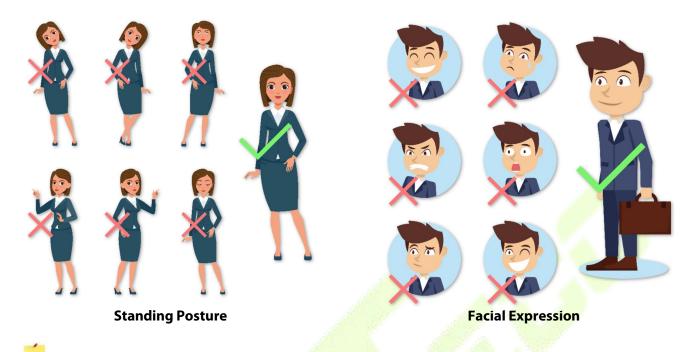
**Note:** Place your phone within 15 to 50cm of the device (distance depends on the size of the phone screen), do not block the device QR code scanner and QR code in the phone screen.

# **1.2** 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 to 1.85m is recommended to be 0.3 to 2.5m. Users may slightly move forward or backward to improve the quality of facial images captured.

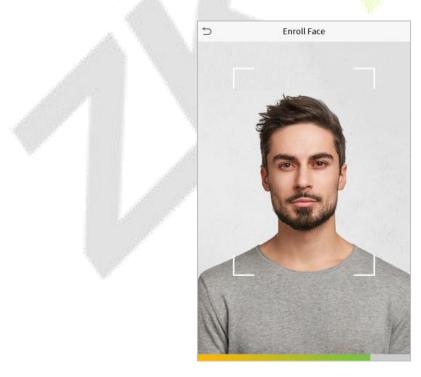


#### Recommended Standing Posture and Facial Expression

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

### **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.

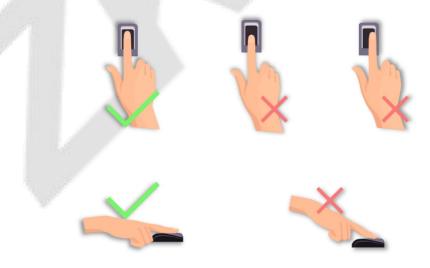
#### Recommendation for authenticating a face

- 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 Finger Placement

Recommended fingers: Index, middle, or ring fingers.

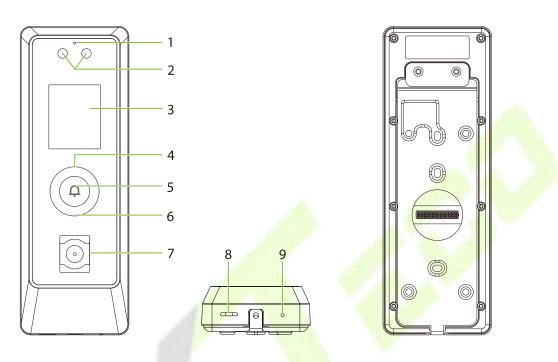
Avoid using the thumb or pinky, as they are difficult to accurately tap onto the fingerprint reader.



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

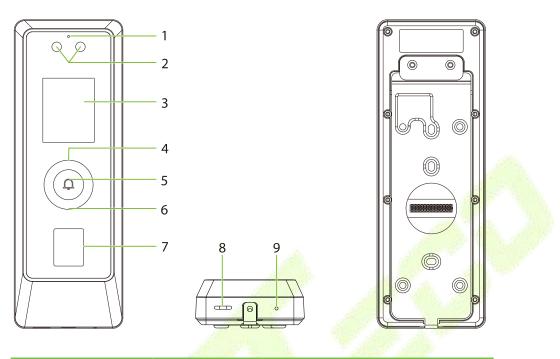
# 2 Appearance

# 2.1 ProMA-QR



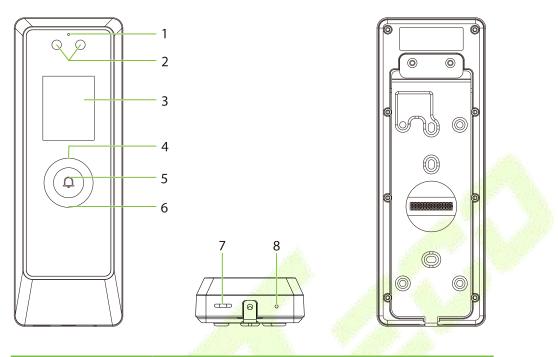
N	о.	Description
1	<u> </u>	Microphone
	2	Camera
3	3	2" Display Screen
-	+	Card Reading Area
E	5	Doorbell Button
(	5	Flash
-	7	QR Code Scanner
8	3	Speaker
9	)	Reset

# 2.2 ProMA



	No.	Description
	1	Microphone
	2	Camera
	3	2" Display Screen
de la compañía de la	4	Card Reading Area
Jac -	5	Doorbell Button
	6	Flash
	7	Fingerprint Sensor
	8	Speaker
	9	Reset

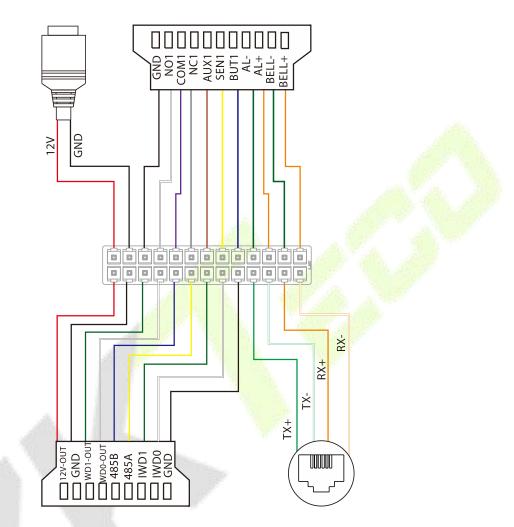
# 2.3 ProMA-RF



	No.	Description
	1	Microphone
	2	Camera
	3	2" Display Screen
J.	4	Card Reading Area
1	5	Doorbell Button
	6	Flash
	7	Speaker
	8	Reset

# 2.4 Terminal and Wiring Description

### 2.4.1 Terminal Description

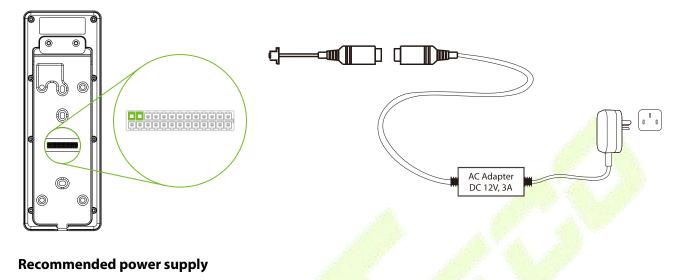


A.	Interface	Description
	12V	
	GND	12V Power In
	GND	
	NO1	
	COM1	Lock
	NC1	

AUX1	Auxiliary Input
SEN1	Sensor
BUT1	Exit Button
AL-	Alarm
AL+	Aldini
BELL-	Dell
BELL+	Bell
12V-OUT	Dura O d
GND	Power Out
WD1-OUT	
WD0-OUT	Wiegand Out
485B	DC405
485A	RS485
IWD1	
IWDO	Wiegand In
GND	
TX+	
тх-	
RX+	Network Interface
RX-	

### 2.5 Wiring Description

#### 2.5.1 Power Connection

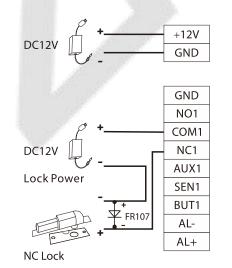


- Rating of 12V and 3A
- To share the device's power with other devices, use a power supply with higher current ratings.

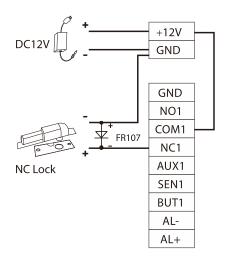
#### 2.5.2 Lock Relay Connection

The system supports both Normally Opened Lock and Normally Closed Lock. The NO Lock (normally opened when powered) is connected with 'NO1' and 'COM1' terminals, and the NC Lock (normally closed when powered) is connected with 'NC1' and 'COM1' terminals. The power can be shared with the lock or can be used separately for the lock, as shown in the example with NC Lock below:

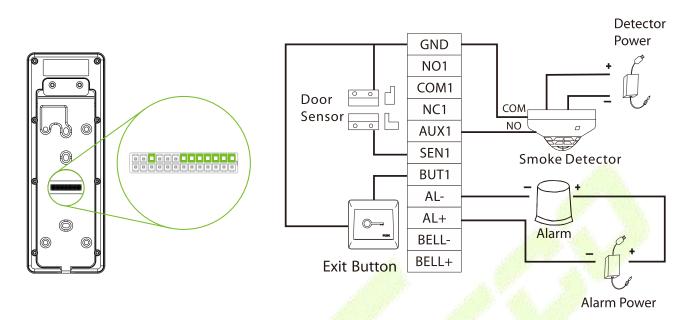
1) Device not sharing power with the lock



2) Device sharing power with the lock

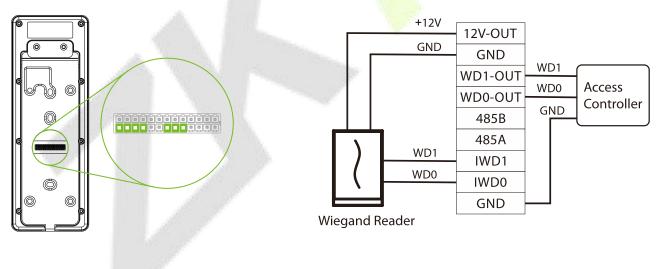


### 2.5.3 Door Sensor, Exit Button, Alarm and Auxiliary Connection



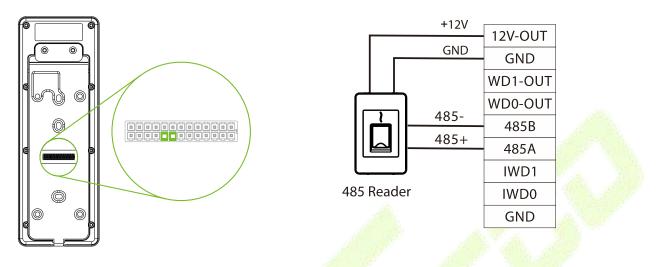
#### 2.5.4 Wiegand Connection

The Wiegand card reader connects to the top 4 pins of the Wiegand terminal and the last two pins are used by the Access Controller, as shown in the following figure. It sends the credentials to the device via Wiegand communication.



### 2.5.5 RS485 Connection

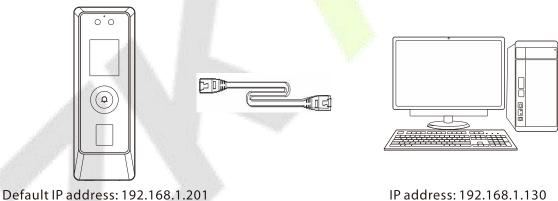
The RS485 lets users connect to multiple readers to the device. RS485 can be connected to the terminal, as shown in the figure below.



### 2.5.6 Ethernet Connection

Subnet mask: 255.255.255.0

Connect the device and computer software over an Ethernet cable. An example is shown below:



IP address: 192.168.1.130 Subnet mask: 255.255.255.0

**Note:** In LAN, the IP addresses of the server (PC) and the device must be in the same network segment when connecting to WebServer.

#### **Installation** 3

#### Installation Environment 3.1

Please refer to the following recommendations for installation.



ONLY



NEAR

**INSTALL INDOORS** AVOID INSTALLATION **GLASS WINDOWS** 



AVOID DIRECT SUNLIGHT AND EXPOSURE

2

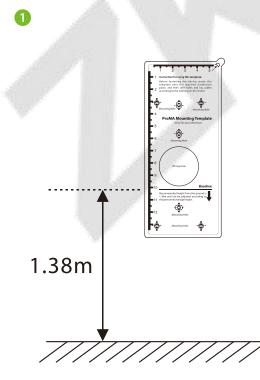


AVOID USE OF ANY HEAT SOURCE NEAR THE DEVICE

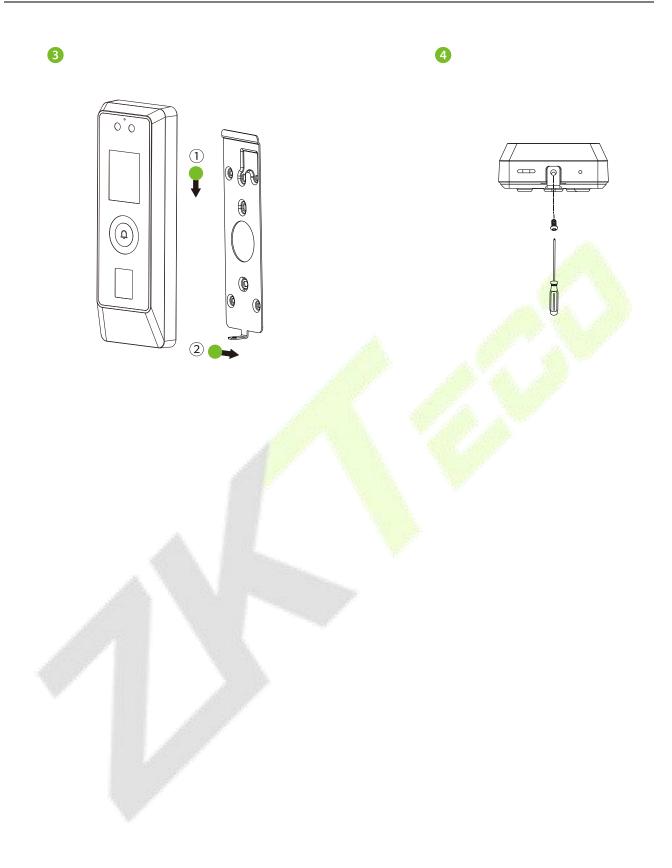
#### 3.2 **Device Installation**

ProMA series installations are the same, the following is an example of ProMA.

- Attach the mounting template sticker to the wall, and drill holes according to the mounting paper. 1.
- Fix the backplate on the wall using wall mounting screws. 2.
- Attach the device to the backplate. 3.
- Fasten the device to the backplate with a security screw. 4.

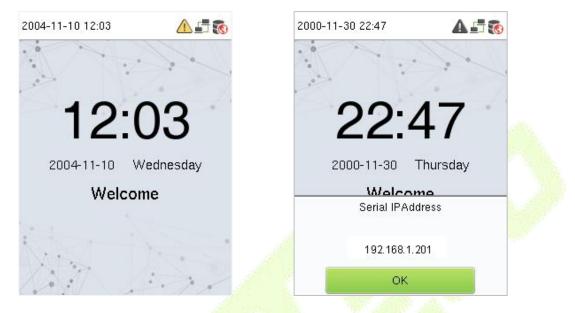


Company Company 6 6 (M) ()))))) ())))))



# 4 <u>Standby Interface</u>

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



The device has a built-in IP address, which can be used for device communication, connection to WebServer and ZKBio CVSecurity software, etc.

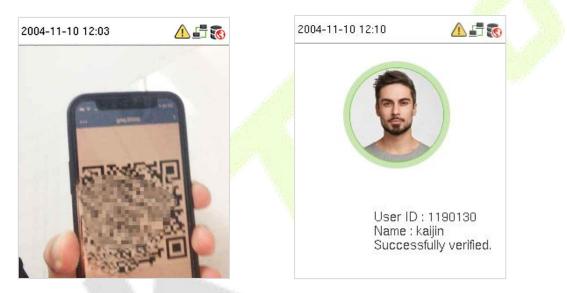
**Note:** The device uses a 2" display screen, which does not support touch operation and is only used to display status and verification information. All operations such as device information, communication settings, user management and system settings are operated and set up on WebServer.

# 5 Verification Mode

### 5.1 QR Code Verification **★**

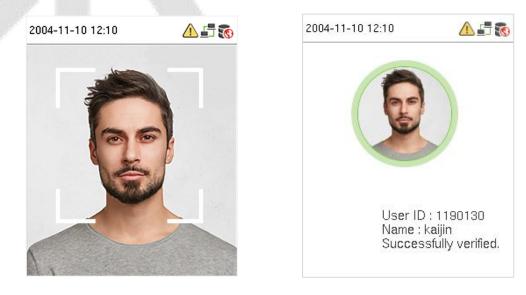
In this verification mode, the device compares the QR code image collected by the QR code collector with all the QR code data in the device.

Tap [**Mobile Credential**] on the ZKBioSecurity App, and a QR code will appear, which includes employee ID and card number (static QR code only includes card number) information. The QR code can replace a physical card on a specific device to achieve contactless authentication. Please refer to <u>12.4 Mobile</u> <u>Credential</u>.



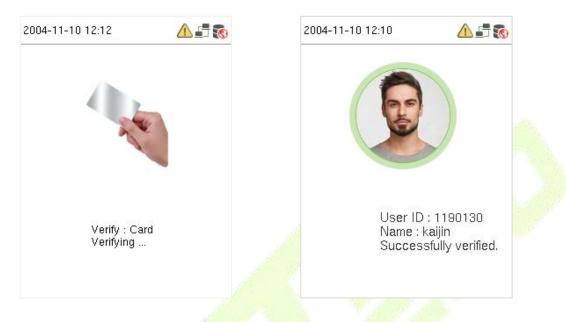
### 5.2 Facial Verification

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.



### 5.3 Card Verification

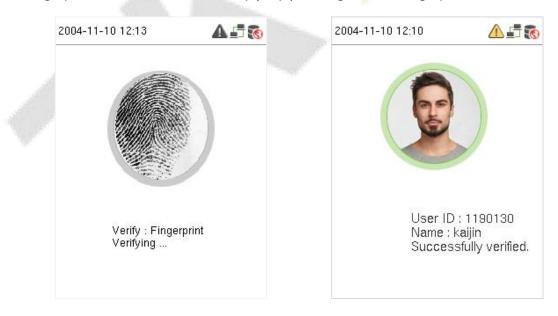
The Card Verification mode compares the card number in the card induction area with all the card number data registered in the device; The following is the card verification screen.



## 5.4 Fingerprint Verification ★

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

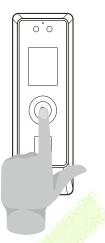
To enter fingerprint identification mode, simply tap your finger on the fingerprint reader.



# 6 Login WebServer

A user can open the web application to set the relevant parameters of the device.

1. Press and hold the Doorbell Button of the device until the IP pops up.



2. Open a browser to enter the address to log in to the WebServer, the address is https:// <u>Serial IP</u> <u>Address:1443</u>. For example: <u>https://192.168.1.201:1443</u>.

**Note:** The Serial IP Address of the device for communication can be modified, for details please refer to <u>Communication Settings</u>.

	2000-11-30 22:47
	22:47
	2000-11-30 Thursday
	Welcome
	Serial IPAddress
	192.168.1.201
	ок
<b>zk</b> https://192.168.1.201:1443/  <b>x</b> +	

zĸ	https://19	2.168.1	.201:1443/lo <b>× +</b>		<u> </u>	
÷	$\rightarrow$ G	ZK	https://192.168.1.201:1443		-	:
		ZK	https://192.168.1.201:1443	×		
		Q	https://192.168.1.201:1443 - Goolge - Search			
		ZK	https://192.168.1.201:1443/login.html - https://192.168.1.201:1443/start.html			
		ZK	https://192.168.1.201:1443/login.html - https://192.168.1.201:1443/login.html			

~				
	<b>Z</b>	KTECO		
	Ð	Login	8	

3. Enter the WebServer account and password, the default account is: **admin**, password: **admin@123**.

ZKTECO	
admin	
Login	
	- 11

Note:

- 1. After logging in for the first time, users need to change their original password and log in again before they can use it, please refer to <u>10.3 Change Password</u>.
- 2. In order to retrieve the password easily, please register a <u>super admin first, please refer to 8.1 User</u> <u>Registration</u>.

# 7 Forgot Password

#### Method 1 (When there is a super admin):

If you forgot the password of WebServer, you can reset it by the registered <u>super admin</u>. The detailed steps are as follows:

1. Click the icon on the login interface.

<b>2K</b> https://192.168.163.201:1443/ <b>X</b> +		~		<u></u>
← → C ▲ 不安全   https://192.168.163.201:1443/login.html	Ŕ	☆		:
User Name     Password     Orgin				

2. On the pop-up page, enter the relevant information of the super admin user as prompted.

ZK ZKTeco management panel × +		
← → C ▲ 不安全   https://192.168.163.201	:1443/lostpassword.html	🖻 🏚 🖬 😩 🗄
Admin verification		
Please input admin user ID.	Ĩ	Enter super admin user id
Password		Enter super admin user possword
	Confirm	



3. After a successful reset, enter the default account and password (account: **admin**, password: **admin@123**) on the login interface to log in.

		A	
	ZKT	200	
	8 admin		
	admin@123	• ?	
	Login	427	
<u></u>			

4. For security reasons, please change your password after successfully logging in.

ZKTECO		Ċ
System Info	After the first login, please change the password, otherwise, the webserver funct	tion
Change Password	is locked.	
	Enter the Current Password	
	Enter a new password at least 8 characters. It must contain special characters, numbers an up and lower case letters. Enter a New Password	per
	Confirm Password	
	Confirm	

**Note:** The super admin must exist.

#### Method 2 (When there is not a super admin):

If the network of the device is normal and ZKBio CVSecurity has been connected, you can reset the password by sending the super admin account and password from the server.

1. Click **Personnel** > **Person** > **New** on the ZKBio CVSecurity Server.

			New			×
Personnel ID* First Name Gender Certificate Type Birthday Hire Date Device Verification Password Biometrics Type	1 	· ·	Department* Last Name Mobile Phone Certificate Number Email Position Name Card Number			Browse Capture
Access Control     T Levels Settings     General	îme Attendance	Elevator Control	Plate Register Superuser Device Operation Ro Extend Passage Disabled Set Valid Time	Passage Setting	FaceKiosk Yes Administrator	Personnel Detail >
Add	Select All	Unselect All				
		Save and New	ОК	Cancel		

- 2. After registering the information of the super admin, click **Save and New**.
- Click Access > Device > Control > Synchronize All Data to Devices to synchronize all the data to the device including the new users.

Note: For other specific operations, please refer ZKBio CVSecurity V6600 User Manual.

4. After the data synchronization is successful, you can reset the password with the newly registered super admin. The operation steps are the same as method 1.

#### • Method 3:

If the device has not registered a super admin and cannot connect to the server, please contact our aftersales technicians to help retrieve the password.

# 8 User Management

### 8.1 User Registration

### 8.1.1 Basic Information

Click All Users on the WebServer.

In this interface, you can register the User ID, Name, Rights, Password, Card Number and Access Control Role of the new user, click **Confirm** to save.

ZKTECO			ധ
System Info	Basic Info		Î
Device Info			_
Device Capacity	User ID		
Firmware Info	Name		
User Mgt.			
All Users	Rights	Normal User 🗸	
Advanced Settings	Password		
сомм.	Card Number		
Cloud Service Setup	Access Control Role	1 ~	
Date Setup			
System		Confirm	
Serial Comm		Back	
Face			
Autotest	Online Registration		
Wiegand Setup			
Device Management	Fingerprint	Register	
Device Management	Face	Register	
Update Firmware	Card Number	Register	
Change Password			
Operation Log	•		

Function Name	Description
User ID	The user ID may contain 1 to 14 characters by default. It can be numbers, letters, symbols, etc.
Name	A name can be up to 63 characters.

Rights	<ul> <li>Set the role for the user as either Normal User or Super Admin.</li> <li>Super Admin: The Super Admin owns all management privileges in the WebServer.</li> <li>Normal User: If the Super Admin is already registered in the WebServer then the Normal Users will not have the privileges to manage the system and can only access authentication verifications.</li> </ul>	
Password	Set the user's registration password.	
Card Number	nter the card number manually, after registering the user's card number, the ser can swipe the card for verification.	
Access Control Role	The Access Control Role sets the door access privilege for each user, new users will be added to Group 1 by default, which can be reassigned to other required groups. The system supports up to 10 access control groups.	
-		

#### Note:

- 1. During the initial registration, you can modify your ID; you cannot be modifying the registered ID once after the successful registration.
- 2. If the message "**Setup failed!**" pops up, you must choose a different User ID because the one you entered already exists.

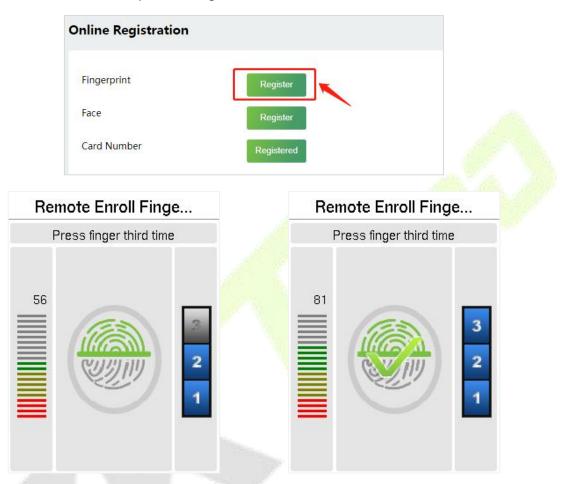
#### 8.1.2 Online Registration

In this interface, you can register the User's Fingerprint, Face and Card Number. The verification mode can only be registered after the basic information is confirmed.

System Info	Basic Info		
Device Info			
Device Capacity	User ID	1	
Firmware Info	Name	h dite.	
User Mgt.		Mike	
All Users	Rights	Normal User	~
Advanced Settings	Password		
сомм.	Card Number	1311129248	
Cloud Service Setup	Access Control Role	1	~
Date Setup			
System		Confirm	
Serial Comm		Back	
Face		_	
Autotest	Online Registration		
Wiegand Setup			
Device Management	Fingerprint	Register	
Device Management	Face	Register	
Update Firmware	Card Number	Registered	
Change Password	Vigers announe source processes 121	Registered	

#### **<u>Register Fingerprint</u>**

In the current interface, behind the fingerprint bar, click **Register**, and the device will display the fingerprint registration interface in real time, press your finger onto the fingerprint sensor of the device, and follow the instructions to complete the registration.



For fingerprint pressing operation, please refer to <u>1.4 Finger Placement</u>.

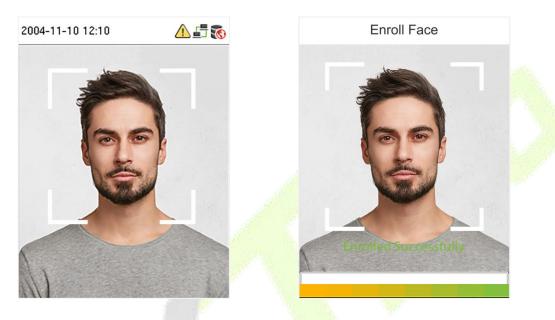
#### Register Face

In the current interface, behind the face bar, click **Register**, and the device will display the face registration interface in real time.

Online Registration	
Fingerprint	Registered
Face	Register
Card Number	Registered

- 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 "**Enrolled Successfully**" is displayed until the registration completes.
- If the face is registered already then, the "Duplicated Face" message shows up.

The registration interface is as follows:



**Note:** While registering a face, the system automatically captures a picture as the profile photo. If you do not register a profile photo, the system automatically sets the picture captured during registration as the default photo.

#### Card Number

In the current interface, behind the card number, click **Register**, and the device will display the card registration interface in real time, swipe the card underneath the card reading area. The registration of the card will be successful.

Enroll Card Number	Enroll Card Number
Please swipe card	Card Number:1311129248

### 8.2 Search for Users

Click **All Users** on the WebServer, click the search bar 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.

Device Info							
Device Capacity	New Use	er Delete Us	er		QO		
Firmware Info		User ID	Name	Rights	Card Number	Verification Method	Operation
Jser Mgt.							
All Users		1	Mike	Normal User		2@2●	Change User Info
Advanced Settings		2	native	Normal User		2@2	Change User Info
сомм.		3	Lucy	Normal User	9108697	2@⊟ ?	Change User Info

### 8.3 Edit User

On the **All Users** interface, select the required user from the list and click **Change User Info** to edit the user information.

m Info	User Mgt.						
ice Info							
vice Capacity	New User	r Delete Us	er		Q C		
irmware Info			223		2 555 5		2 2
ser Mgt.		User ID	Name	Rights	Card Number	Verification Method	Operation
All Users		1	Mike	Normal User		2@?⊕	Change User Info
dvanced Settings		2	native	Normal User		2 @ f	Change User Info
сомм.		3	Lucy	Normal User	9108697	2@= 1	Change User Info
Cloud Service Setur		1993	6				
rstem Info							
Device Info	Change Us	ser Into					
Device Capacity	User ID						
Firmware Info			1				
ser Mgt.	Name		N	like			
All Users	Rights		1	Normal User	~		
dvanced Settings	Password						
	Card Numb						
сомм.	Card Numb	ber					
Cloud Service Setup	Access Con	trol Role	1		~		
Date Setup	Fingerprint	8		Register			
System	Face						
Serial Comm	, acc			Register			
ace	Card Numb	)er		Register			
utotest			-				
				Change			

**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. The process in detail refers to <u>8.1 User Registration</u>.

### 8.4 Delete User

On the **All Users** interface, select the required user from the list and click **Delete User** to delete the user. Here individual deletion and batch deletion is available.

stem Info	User Mg	ι.					
evice Info	Contraction of the second						
evice Capacity	New Us	er Delete Us	er 2		Q		
rmware Info		User ID	Name	Rights	Card Number	Verification Method	Operation
er Mgt.							
l Users		1 1	Mike	Normal User		2@१⊕	Change User Info
vanced Settings		2	native	Normal User		2@2	Change User Info
ОММ.		3	Lucy	Normal User	9108697	£@⊟ ?	Change User Info
oud Service Setup nte Setup rstem rrial Comm							
nte Setup /stem erial Comm ice utotest iegand Setup							
ite Setup rstem irial Comm ice itotest							
ate Setup rstem erial Comm ace utotest iegand Setup vice Management							
nte Setup rstem erial Comm ice utotest iegand Setup vice Management evice Management							
ate Setup vistem erial Comm ace utotest iegand Setup vice Management evice Management odate Firmware							

# 9 Advanced Settings

### 9.1 Communication Settings

Click **COMM.** on the WebServer.

Change the IP address of the device as needed, click **Confirm** to save, and the device will automatically synchronize the IP information.

ZKTECO		Ċ			
System Information	IP Setup				
Device Info					
Data Capacity Information	Automatic Acquisition				
Firmware Information	IP Address 192.168.163.99				
User Mgt.	Subnet Mask 255.255.255.0				
New User	Gateway 192.168.163.1				
All Users Advanced Settings	DNS 0.0.0.0				
сомм.	Confirm				
Function Name	Description				
Automatic Acquisition	Select whether to obtain the IP Address by aut	tomatically.			
IP Address	The default IP address is 192.168.1.201. It can l availability.	be modified according to network			
Subnet Mask	The default Subnet Mask is 255.255.255.0. It can be modified according to network availability.				
Gateway	The Default Gateway address is 0.0.0.0. It can bavailability.	be modified according to network			
DNS	The default DNS address is 0.0.0.0. It can be availability.	e modified according to network			

**Note:** After the IP address of the device is changed successfully, you need to log out of the currently WebServer and log in again to the IP address you just changed to connect to the device. For WebServer login details, please refer to Login WebServer.

# 9.2 Cloud Server Setting

Click **Cloud Service Setup** on the WebServer.

Cloud Server Setup was used to connect to the ZKBio CVSecurity software, please refer to <u>12.1 Set the</u> <u>Communication Address</u>.

ZKTECO			Ċ
System Info Device Info	Cloud Server Settin	gs	
Device Capacity Firmware Info User Mgt. All Users Advanced Settings COMM. Cloud Service Setup Date Setup System Serial Comm Face Autotest	Enable Domain Name Cloud Server Address Cloud Service Port HTTPS Proxy Server Setup	https://20.115.34.89/ 8088	
Wiegand Setup			

Fur	nction Name	Description
Enable Domain Name	Server Address	Once this function is enabled, the domain name mode "http://" will be used, such as http://www.XYZ.com, while "XYZ" denotes the domain name (when this mode is turned <b>ON</b> ).
Disable	Server Address	IP address of the ADMS server.
Domain Name	Server Port	Port used by the ADMS server.
нттрѕ		Based on HTTP, transmission encryption and identity authentication ensure the security of the transmission process.
Enable Prox	y Server Setup	When you choose to enable the proxy, you need to set the IP address and port number of the proxy server.

### 9.3 Date Setup

Click **Date Setup** on the WebServer.

- Click **Manual** to manually set the date and time and click **Confirm** to save.
- Select Open or Close the **Daylight Saving Mode** function. If opened, set the **Daylight Saving Time** and **End of Daylight Saving**.

ZKTECO		Ċ
ystem Information	Date Setup	
Device Info		
Data Capacity Information	Configuration Mode	O Auto       Manual
Firmware Information	Server Date and Time	2022-01-07 15:59:12
ser Mgt.	Device Date and Time	2004-11-10 17:32:42 (VYYY-MM-DD - HH::MM:SS)
ew User	Device Date and Time	2004-11-10 (111-100-00-111.000-33)
ll Users		Confirm
lvanced Settings		
омм.		
loud Service Setup		
ate Setup		
rstem		
ace		
itotest	Daylight Saving Mode	Close 🗸
vice Management	By Date/Time	Daylight Saving Mode I
evice Management odate Firmware	Daylight Saving Time	00-00 (MM-DD) - 00.00 (HH:MM)
nange Password	End of Day Lightsaving	00-00 (MM-DD) - 00:00 (HH:MM)
peration Log	O By Week/Day	Daylight Saving Mode II
wnload Firmware Logs	Start Time	Month         1         -         Week         0         (0-6) -         Time         00:00         (HH:MM)
	End Time	Month         1         -         Week         0         (0-6) -         Time         00:00         (HH:MM)
		Confirm

# 9.4 System Settings

Click **System** on the WebServer.

It helps to set related system parameters to optimize the accessibility of the device.

ZKTECO				Ċ
System Info	System			*
Device Info				_
Device Capacity	Volume	70		
Firmware Info	Language	English	~	
User Mgt.	Alphanumeric User ID			
All Users	User ID Masking			
Advanced Settings	Display Verification Name	$\bigcirc$		
сомм.	Display Verification Mode	$\bigcirc$		
Cloud Service Setup		Confirm		
Date Setup		Confirm		
System				

Function Name	Description		
Volume	Adjust the volume of the device which can be set between 0 and 100.		
Language	Select the language of the WebServer and device.		
Alphanumeric User ID	Enable/Disable the alphanumeric as User ID.		
User ID Masking	When enabled, and then the user is successfully compared and verified, the User ID in the displayed verification result will be replaced with an * to achieve secure protection of sensitive private data.		
Display Verification Name	Set whether to display the username in the verification result interface.		
Display Verification Mode	Set whether to display the verification mode in the verification result interface.		

### Note:

- 1. After selecting the language and clicking **Confirm**, the device will automatically reboot and display the changed language.
- 2. Then WebServer will not display the switched language until the device reboots and log in again.

# 9.5 Serial Comm

Click **Serial Comm** on the WebServer.

System Info     Serial Comm       Device Info     Serial Port       Device Capacity     Serial Port       Firmware Info     Baudrate       115200	
Device Info Device Capacity Serial Port DM10  Firmware Info Baudrate 115200	
Firmware Info Baudrate 115200	
Baudrate 115200 V	
115200	
User Mgt.	
All Users Confirm	
Advanced Settings	
сомм.	
Cloud Service Setup	
Date Setup	
System	
Serial Comm	

Function Name	Description
	<b>No Using:</b> No communication with the device through the serial port.
	<b>RS485 (PC):</b> Communicate with the device through the RS485 serial port.
Serial Port	<b>Master Unit:</b> When RS485 is used as the function of the "Master unit", it can be connected to a card reader.
	<b>DM10:</b> Communicate with the device through the DM10 serial port.
	There are 5 baudrate options at which the data communicates with the PG They are: 115200 (default), 57600, 38400, 19200 and 9600.
Baudrate	The higher the baudrate, the faster is the communication speed, but also les reliable.
	Hence, a higher baudrate can be used when the communication distance short; when the communication distance is long, choosing a lower baudrate more reliable.

# 9.6 Face Parameters

#### Click **Face** on the WebServer.

ZKTECO		
stem Info	Face	
evice Info		
evice Capacity	1:N Threshold Value	74
rmware Info	1:N Match Threshold for Masked People	68
r Mgt.	1:1 Threshold Value	63
isers	Face Enrollment Threshold	70
vanced Settings		//
MM.	Face Pitch Angle	30
d Service Setup Setup	Face Rotation Angle	25
tem	Image Quality	70
erial Comm	Minimum Face Size	80
2	LED Light Trigger Value	80
totest	Motion Detection Sensitivity	4
and Setup	Anti-flicker Mode	50Hz 🗸
e Management	Live Detection	
e Management	Anti-spoofing Using NIR	$\widetilde{\mathbf{O}}$
te Firmware	Binocular Live Detection Threshold	50
nge Password	WDR	0
veration Log wnload Firmware Logs	Save Photo as Template	
noad Philiware Logs		Confirm

Function Name	Description
1:N Threshold Value	Under face verification mode, the verification will only be successful when the similarity between the acquired facial image and all registered facial templates is greater than the set value. The valid value ranges from 0 to 100. The higher the thresholds, the lower the misjudgment rate, the higher the rejection rate, and vice versa. It is recommended to set the default value of 74.
1:N Match Threshold for Masked People	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 68.

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 0 to 100. The higher the thresholds, the lower the misjudgment rate and the higher is the rejection rate, and vice versa. It is recommended to set the default value of 63.
	During face enrolment, 1: N comparison is used to determine whether the user has already registered before.
Face 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.
Face Rotation Angle	The rotation angle tolerance of a face for facial template registration and comparison.
	If a face's rotation angle exceeds this set value, it will be filtered by the algorithm, i.e. ignored by the terminal thus no registration and comparison interface will be triggered.
Image Quality	Image quality for facial registration and comparison. The higher the value, the clearer the image requires.
A	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 Sensitivity	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.
	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.

Anti-flicker Mode	Used when WDR is turned off. This helps reduce flicker when the device's screen flashes at the same frequency as the light.
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 a 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 video attacks.
Binocular 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.
WDR	Wide Dynamic Range (WDR), which balances light and extends image visibility for surveillance videos under high contrast lighting scenes and improves object identification under bright and dark environments.
Save Photo as Template	Select whether to save the registered photo.

**Note:** Improper adjustment of the exposure and quality parameters may severely affect the performance of the device. Please adjust the exposure parameter only under the guidance of the after-sales service personnel of our company.

### 9.7 Autotest

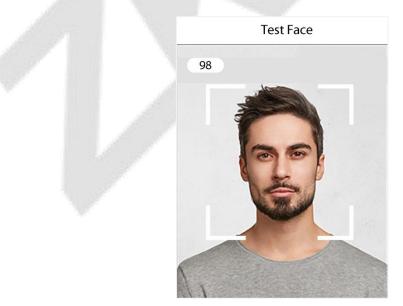
Click **Autotest** on the WebServer.

It enables the system to automatically test whether the functions of various modules are working normally.

System Info	Autotest
Device Info Device Capacity Firmware Info	Test Face Test Mode Face Camera Acquire
User Mgt.	
All Users	
Advanced Settings	
сомм.	
Cloud Service Setup	Test Fingerprint Sensor
Date Setup System	Start End
Serial Comm	
Face	
Autotest	

### 9.7.1 Test Face

Click **Test Mode**, the ProMA device will display the Test Face interface in real time, click **End of Testing** to exit the test.



After opening the test mode, the upper left corner of the device screen will display the value of the face in real time, the higher the value, the better quality of the face.

### 9.7.2 Test Fingerprint Sensor

Click **Start**, the ProMA device will display the Test Fingerprint interface in real time, click **End** to exit the test.



## 9.8 Wiegand Setup

Click Wiegand Setup on the WebServer.

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

System Info	Wiegand Setup		
Device Info			
Device Capacity	Wiegand Input Wiegand Output		
Firmware Info	Wiegand Format		
User Mgt.	26	Wiegand26	~
All Users	34	No Using	~
Advanced Settings	36	No Using	~
сомм.			
Cloud Service Setup	37	No Using	~
Date Setup	50	No Using	~
System	64	No Using	~
Serial Comm	Wiegand Bits	26	~
Face			
Autotest	ID Type	User ID	~
Wiegand Setup		Confirm	

ZKTECO				Ċ
System Info	Wiegand Setup			
Device Info				
Device Capacity	<ul> <li>Wiegand Input</li> <li>Wiegand Output</li> </ul>			
Firmware Info	Wiegand Format			
User Mgt.	26	Wiegand26	~	
All Users	34	No Using	~	
Advanced Settings	26			
сомм.	36	No Using	~	
Cloud Service Setup	37	No Using	~	
Date Setup	50	No Using	~	
System	64	No Using	~	
Serial Comm	Mission of Dife			
Face	Wiegand Bits	26	~	
Autotest	ID Type	Card Number	~	
Wiegand Setup		Confirm		

Function Name	Description
Wiegand Format	Its value can be 26 bits, 34 bits, 36 bits, 37 bits, 50 bits and 60 bits.
Wiegand Bits	The number of bits of the Wiegand data.
ID Type	Select between the User ID and card number.

# 10 Device Management

# **10.1 Device Management**

Click **Device Management** on the WebServer.

System Info	Device Management	
Device Info		
Device Capacity	Clear Administrator	Confirm
Firmware Info		
User Mgt.	Restart	Confirm
All Users		
Advanced Settings	Close SSH	Confirm
сомм.		
Cloud Service Setup	Reset	Confirm
Date Setup	Delete All Data	Confirm
System	Delete All Data	Comme
Serial Comm		
Face		
Autotest		
Wiegand Setup		
Device Management		
Device Management		

Function Name	Description		
Clear Administrator	Choose whether to change the super administrator into a normal user.		
Restart	Choose whether to restart the device.		
Close SSH	SSH is used to enter the background of the device for maintenance, choose whether to close the SSH.		
Reset	The Reset function restores the device settings such as communication and system settings to the default factory settings (this function does not clear registered user data). Note: After reset, the IP of the device is restored to the original 192.168.1.201, please refer to <u>9.1 Communication Settings</u> to modify the IP.		

Delete All Data	To delete the information and attendance logs/access records of al registered users.
Delete All Data	

### **10.2 Updata Firmware**

Click **Updata Firmware** on the WebServer.

Select an upgrade file and click **Confirm** to complete firmware upgrade operation.

ZKTECO		Ċ
System Info	Update Firmware	
Device Info		
Device Capacity	Please copy content from checksum.txt.	
Firmware Info		
User Mgt.	Update documents:	
All Users	Uploading	
Advanced Settings	Upgrade device firmware. The format is emfw.cfg and size is less than 200M.	
сомм.		
Cloud Service Setup		
Date Setup		
System		
Serial Comm		
Face		
Autotest		
Wiegand Setup		
Device Management		
Device Management		
Update Firmware		
Change Password		
Operation Log		
Download Firmware Logs		

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

# **10.3 Change Password**

Click **Change Password** on the WebServer.

In this interface, you can change the password and reset the password of WebServer.

ZKTECO		С
System Info	Change Passwo	ord
Device Info		
Device Capacity	Enter the Current Password	
Firmware Info		Enter a new password at least 8 characters. It must contain special characters, numbers an upper and lower case letters.
User Mgt.	Enter a New	and lower case letters.
All Users	Password	
Advanced Settings	Confirm Password	
сомм.		
Cloud Service Setup		Confirm
Date Setup		
System		
Serial Comm		
Face		
Autotest		
Wiegand Setup	Reset Password	
Device Management		-
Device Management	Enter the Current Password	
Update Firmware	1022196229479.6	Reset
Change Password		Password
Operation Log		
Download Firmware Logs		

# **10.4** Operation Log

Click **Operation Log** on the WebServer.

All the user's operation records on the device or WebServer are saved. Users can search and download these logs by time.

/stem Info	Operation Log						
Device Info	Operation Log						
Device Capacity	Start Time		(YYYY-MM-DD)	End Time	(YY	YY-MM-E	
Firmware Info			Contract of the second	ownload			
lser Mgt.	-	2 3			Original	New	72 3
All Users	Operator	Operation	Time	Object	Value	Value	Resul
dvanced Settings	192.168.163.75	Face Parameters	2022-05- 06T16:22:10	~FaceMThr	1000000	0	-1
сомм.	192.168.163.75	Face Parameters	2022-05- 06T16:22:10	CameraWorkMode	0	0	0
Cloud Service Setup	192.168.163.75	Face Parameters	2022-05- 06T16:22:10	WDRStatus	0	0	0
Date Setup System	192.168.163.75	Change Parameters	2022-05- 06T16:13:33	VOLUME	70	10	0
Serial Comm	192.168.163.75	Change Parameters	2022-05- 06T16:13:17	EnableShowUserName	0	1	0
Face	192.168.163.75	Change Parameters	2022-05- 06T16:13:17	EnableShowVerifyType	0	1	0
Autotest Wiegand Setup	192.168.163.75	Change Parameters	2022-05- 06T16:13:07	IsSupportABCPin	0	1	0
Device Management	0	Enroll Fingerprint	2022-05- 06T15:51:50	3	0	0	0
Device Management	192.168.163.75	Register User	2022-05- 06T15:51:40	3	0	0	0
Update Firmware	0	Enroll Fingerprint	2022-05- 06T15:49:08	2	0	0	0
Change Password Operation Log	0	Enroll Fingerprint	2022-05- 06T15:48:51	2	0	0	0
Download Firmware Logs	0	Enroll Fingerprint	2022-05- 06T15:47:56	2	0	0	0
	192.168.163.75	Register User	2022-05- 06T15:47:23	2	0	0	0

# **10.5** Download Firmware Logs

Click **Operation Log** on the WebServer.

In this interface, you can select download the main, biometric, or dev.log.

ZKTECO			Ċ
System Info	Download Firmware Logs		
Device Info			
Device Capacity	Please select or enter the log file name	main.log	Confirm
Firmware Info		biometric.log devs.log	
User Mgt.			
All Users			
Advanced Settings			
сомм.			
Cloud Service Setup			
Date Setup			
System			
Serial Comm			
Face			
Autotest			
Wiegand Setup			
Device Management			
Device Management			
Update Firmware			
Change Password			
Operation Log			
Download Firmware Logs			

0

# 11 System Information

#### Click **System Information** on the WebServer.

In this interface, you can view the data capacity, device and firmware information of the current device.

ystem Info	Device Info		
Device Info			
Device Capacity	Device Name	ProMA[MF]	
Firmware Info	Serial Number	7633221700022	
lser Mgt.			
All Users	MCU Version	212	
dvanced Settings	MAC Address	00:17:61:11:3f:26	
сомм.	Fingerprint Algorithm	ZKFinger VX10.0	
Cloud Service Setup	Face Algorithm	ZKFace VX3.9	
Date Setup	Diatform Info	200400 101	
System	Platform Info	ZAM180_TFT	
Serial Comm	Manufacturer	ZKTECO CO., LTD.	
Face			

# ZKTECO

System Info	Device Capacity	
Device Info		
Device Capacity	User (used/max)	3/50000
Firmware Info	Admin User	0
User Mgt.		
All Users	Password	3
Advanced Settings	Face (used/max)	1/30000
сомм.	Fingerprint (used/max)	3/10000
Cloud Service Setup	Card (used/max)	1/50000
Date Setup	TO A Deserved	
System	T&A Record (used/max)	44/500000
Serial Comm	T&A Photo (used/max)	0/8500
Face	Blocklist Photo (used/max)	0/500
Autotest		

ZKTECO		ر
System Info	Firmware Info	
Device Info		
Device Capacity	Firmware Version	ZAM180-NF20VA-Ver3.1.1
Firmware Info	Bio Service	Ver 2.1.14-20220428
User Mgt.	Push Service	Ver 0.0.000.0000004
All Users	Push Service	Ver 2.0.33S-20220304
Advanced Settings	System Version	zam180 v3.2.0.5 Mar 30 2022 15:38:49 CST
сомм.	Standalone Service	Ver 2.1.6-20210819
Cloud Service Setup	Dev Service	Ver 2.0.1-20220428
Date Setup		
System	Web Service	Ver 2.0.1.001-20220427
Serial Comm	FpSensor Version	Ver 3.0.8-20210623
Face	Licdm Service	Ver 1.13-20210927
Autotest	Mginit Service	Ver 1.13-20210927
Wiegand Setup	Myllin Service	VCI 1.13-20210327

Function Name	Description
Device Info	Displays the device's name, serial number, MCU version, MAC address, fingerprint and face algorithm version information, platform and manufacturer information.
Device Capacity	Displays the current device's user storage, password, fingerprint, card and face storage, administrators, attendance records, attendance and forbidden list photos.
Firmware Information	Displays the firmware version and other version information of the device.

# 12 Connect to ZKBio CVSecurity Software

### **12.1 Set the Communication Address**

1. Click **COMM.** > **IP Setup** in the WebServer to set the IP address and gateway of the device.

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

2. In the WebServer, click **Cloud Server Setup** to set the server address and server port.

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

**Server port:** Set the server port as of ZKBio CVSecurity (The default is 8808).

ZKTECO		Ċ
System Info	IP Setup	
Device Info		
Device Capacity	Automatic Acquisition	
Firmware Info	IP Address 192.168.1.201	
User Mgt.	Subnet Mask 255.255.0 Step 2	
All Users		
Advanced Settings	Enterthe	
сомм.	DNS 0.0.0 IP Info.	
Cloud Service Se Step 1	Confirm	
Date Setup	Step 3	
System		
1.1		
ZKTECO		Ċ
System Info	Cloud Server Settings	
Device Info	· · · · · · · · · · · · · · · · · · ·	
Device Capacity	Enable Domain Name	
Firmware Info	Cloud Server Address https://20.115.34.89/	
User Mgt.	Cloud Service Port 8088	
All Users		
Advanced Settings	Proxy Server Setup Enter Info.	
сомм.	Confirm	
Cloud Service Setup	Step 6	
Date Setup Step 4	(Step 0)	
System		

3. Login to ZKBio CVSecurity software, click **System** > **Communication Management** > **Communication Monitor** to set the ADMS Service Port, as shown in the figure below:

JZKBio CVSecurity		e admin
System Management >	System / Communication management / Communication Monitor	
Authority Management >	Adms Service Settings	Adms Service Settings Server Side Network Condition
🛛 Communication mana 🗸	Adms Service Port	
Device Commands	8088	
Communication Device	The current port is for device communication se	arvice, if there is a network mapping for the
Product	service port, please refer to the actual mapped p Project control file version	port.
Authorized device	None	
Communication Monitor	Turn on encrypted transmission	
	🔿 No 💿 Yes	
	D	
	Server Side Network Condition	
	Whether the Internet connection is norma	al
	Yes	

### 12.2 Add Device on the Software

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

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

Search No devi	ice found? <u>Download Search To</u> 100%	Searched devices count:1		
P Address	Device Type	Number of devices added:           Serial Number	1	
IP Address M	AC Address Subnet M	ask Gateway Add Serial Number	Device Type Set Server	Operations
192.168.1.201	255.255.2	255.0 192.168.1.1	ProMA	This device has be
The current system or	rmmunication port is 8088, please	make sure the device is set correctly.		

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.

### 12.3 Mobile Credential ★

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

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

<b>ZKBio</b> CVSecurity	::: ж	e admin ~		
🤹 System Management 🗸 🗸	System / System Management / Parameters			
Operation Log Database Management	QR Code Setting	QR Code Setting DateTime Format Settings		
Area Settings	Enable QR Code			
E-mail Management	🚫 No 💿 Yes			
Dictionary Management	Qrcode Type			
Data Cleaning	🔿 Static 💿 Dynamic			
Audio File	Valid Time:			
Certificate Type	30	second(30-300)		
Print Template	Switch between static QR code and dynamic QR code should to device error!	Switch between static QR code and dynamic QR code should be careful, frequent switch may lead to device error!		
System Monitoring	*			
Parameters				
	Date			
	2022-01-01	-		
	Time			
	00:00:00	•		

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

Client Type*	APP Client-Administr 🔻	
Registration Code*	1C40F0	

TECHNIC CVSecurity	III H O admin ~	
🙀 System Management >	System / Authority Management / Client Register	
🔞 Authority Management 🗸	Registration Code Client Type   Activation   Q	
User	O Refresh ∓ New 2 Reset 前 Delete	
Role	Z Registratio Client name Registration Key Activ Activated D Creation Date Client Type Operations	
API Authorization	🔽 1C40F0 🗢 2022-05-07 06:09 APP Client-Ad 🏭 💼	
Client Register	Register QR-code X	
Security Parameters		19. 19. 19. 19. 19. 19. 19. 19. 19. 19.
	x >	
Å Third Party Integration >	IC C 1-1 > >I 50 rows per page - Jump To 1 /1 Page Total of 1 records	

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

10:53 <del>1</del>	, Server Setting	•••1 4G 🗩	
	0		
	ZKBioSecurity Mobile		
	http://110.80.38.74		
	Connect successfully 095291		
	native		0.27
	Testing Connection		6 6. 2
Co	Version 4.0.0 or above. V2.20.1 hts re-	served	

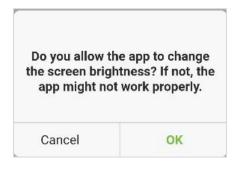
The Mobile Credential function is only valid when logging in as an employee, tap on Employee to switch to Employee Login screen. Enter the Employee ID and Password (Default: 123456) to login.

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

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



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



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



O Manual refresh of QR Code

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

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

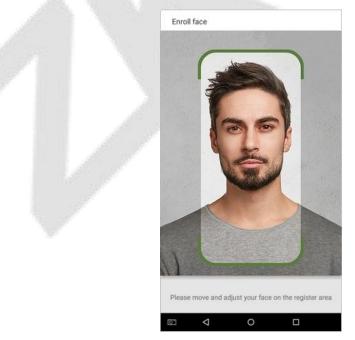


Image1 Face Capture Area

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

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

#### • Eye Distance

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

#### Facial Expression

Neutral face or smile with eyes naturally open are recommended.

#### Gesture and Angel

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

#### Accessories

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

#### Face

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

#### Image Format

Should be in BMP, JPG or JPEG.

#### Data Requirement

Should comply with the following requirements:

- 1) White background with dark-colored apparel.
- 2) 24bit true color mode.
- 3) JPG format compressed image with not more than 20kb size.
- 4) Resolution should be between 358 x 441 to 1080 x 1920.
- 5) The vertical scale of head and body should be in a ratio of 2:1.
- 6) The photo should include the captured person's shoulders at the same horizontal level.
- 7) The captured person's eyes should be open and with clearly seen iris.
- 8) Neutral face or smile is preferred, showing teeth is not preferred.
- 9) The captured person should be clearly visible, natural in color, no harsh shadow or light spot or reflection in face or background. The contrast and lightness level should be appropriate.

# 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. <u>If you do not agree to the relevant agreement or any of its terms, you must stop using our products and services.</u>

### I. Collected Information

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

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

### II. Product Security and Management

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. Others

You can visit <u>https://www.zkteco.com/en/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)	Cadmium (Cd)	Hexavalent Chromium (Cr6+)	Polybrominated 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	Ο	0		
Buzzer	×	0	0	0	0	0		
Adapter	×	0	0	0	0	0		
Screws	0	0	0	×	0	0		

#### Hazardous or Toxic substances and their quantities

 $\bigcirc$  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.

#### FCC Warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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