

User Manual

ProMA Series

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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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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	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.
••••	The general information which helps in performing the operations faster.
*	The information which is significant.
e	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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Pri	VACY P	OLICY	
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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 Palm Registration ★

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

Make sure to keep space between your fingers.



1. Place your palm within 30 to 50 cm of the device.

- 2. Place your palm in the palm collection area, such that the palm is placed parallel to the device.
- 3. Make sure to keep space between your fingers.
- 4. Please avoid direct sunlight when using the palm function outdoors. According to laboratory test, the palm recognition effect is best when the light intensity is not more than 10,000 lux.

Note:

1.4 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.

1.5 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



No.	Description
	Microphone
2	Camera & Palm
3	2" Display Screen
4	Card Reading Area
5	Doorbell Button
6	Flash
7	QR Code Scanner
8	Speaker
9	Reset

2.2 ProMA



	No.	Description
	1	Microphone
	2	Camera & Palm
	3	2" Display Screen
/	4	Card Reading Area
/	5	Doorbell Button
	6	Flash
	7	Fingerprint Sensor
	8	Speaker
	9	Reset

2.3 ProMA-RF



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

2.4 Terminal and Wiring Description

2.4.1 Terminal Description



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

AUX1	Auxiliary Input	
SEN1	Sensor	
BUT1	Exit Button	
AL-		
SEN1 BUT1	Alarm	
BELL-	2.11	
BELL+	Bell	
12V-OUT		
GND	Power Out	
	Wiegand Out	
485B		
485A	RS485	
IWD1		
IWDO	Wiegand In	
GND		
TX+		
TX-		
RX+	Network Interface	
RX-		

2.5 Wiring Description

2.5.1 Power Connection



Recommended power supply

- 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 Door Sensor, Exit Button, Alarm and Auxiliary Connection



2.5.3 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



2.5.4 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.



Note: The QR600 reader is a feature unique to ProMA-QR. For details, please refer to QR600 Code Reader Quick Start Guide.

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.



Note: The QR600 reader is a feature unique to ProMA-QR. For details, please refer to QR600 Code Reader Quick Start Guide.

2.5.6 Ethernet Connection

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





Default IP address: 192.168.1.201 Subnet mask: 255.255.255.0

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.

3 Installation

3.1 Installation Environment

Please refer to the following recommendations for installation.



ONLY



AVOID INSTALLATION NEAR 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.

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





4 Standby Interface

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>Mobile Credential</u>

Successfully verified:



Failed to verify:



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.

Successfully verified:



5.3 Palm Verification ★

This verification mode compares the palm image collected by the palm module with all the palm data template in the device.

The device will automatically distinguish between the palm and face verification mode. Place the palm in the area that can be collected by the palm module, so that the device will automatically switch to palm verification mode.

Successfully verified:



Note: Palm recognition requires the configuration of a special camera.

5.4 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.

Successfully verified:



Failed to verify:

Note: The ProMA-QR supports Chilean and Argentinean ID PDF417 codes.

5.5 Fingerprint Verification ★

Verify : Card

Verifying ...

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.

Failed to verify.

Error! Invalid Card

Verify : Card

Successfully verified:





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 <u>https:// Serial IP</u> <u>Address:1443</u>. For example: <u>https://192.168.1.201:1</u>443.

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

2020-7-22 22:47
22:47
2020-7-22 Thursday
Welcome
Serial IPAddress
192.168.1.201
ок

ZK https://19	2.168.1	.201:1443/l> × +			23
$\ \ \ \leftarrow \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	zĸ	https://192.168.1.201:1443		۲	:
	zк	https://192.168.1.201:1443	×		
	Q	https://192.168.1.201:1443 - Goolge - Search		ţ.	
	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			



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

ZKTECO	
A admin	
Login	

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>Change Password</u>.
- 2. In order to retrieve the password easily, please register a super admin first, please refer to <u>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.

ZK https://192.168.163.201:1443/ X +		~	<u> </u>
← → C ▲ 不安全 https://192.168.163.201:1443/login.html	ß	☆	:
User Name Password Login			

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

ΖК	ZKTeco management panel × +		~		<u> </u>
~	→ C ▲ 不安全 https://192.168.163.201:1443/lostp	assword.html	@ ☆		:
	Admin verification				
	Please input admin user ID.	1	Enter super admin user id		
	Password		Enter super admin user po	sswo	ord
	Confirm				



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

		×		
	ZKT	ECO		
e) admin			
e) admin@123	• 7		
	Login	187		
		AMIN		

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

ZKTECO		Ċ
System Info	After the first l	ogin, please change the password, otherwise, the webserver function
Change Password	is locked.	
	Enter the Current Password	
		Enter a new password at least 8 characters. It must contain special characters, numbers an upper and lower case letters.
	Enter a New Password	
	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 Passw Biometrics Type	1	▼	Department* Last Name Mobile Phone Certificate Number Email Position Name Card Number	Department Name		Browse Capture
Access Control Levels Settings General	Time Attendance	Elevator Control	Plate Register Superuser Device Operation Role 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.

System Info	Basic Info		
Device Info			
Device Capacity	User ID	2	
Firmware Info	Name	Jake	
User Mgt.	Rights	Normal User 🗸	
All Users	Password		
Advanced Settings	Card Number	1190130	Register
сомм.	Access Control Role	1 ~	
Cloud Service Setup			
Date Setup		Confirm Back	
System			
Card Type Settings			
Video Intercom	Online Registration		
SIP Settings	Face	Register	í l
Serial Comm	Palm	A CONTRACTOR OF	
Face		Register	
Autotest	Fingerprint	Register	I

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	 Set the role for the user as either Normal User or Super Admin. Super Admin: The Super Admin owns all management privileges in the WebServer. 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. 	
Password	Set the user's registration password.	
Card Number	Enter the card number manually, after registering the user's card number, the user can swipe the card for verification. Or 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.	
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.	



- 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 Face, Palm \bigstar and Fingerprint \bigstar . The verification mode can only be registered after the basic information is confirmed.

Card Type Settings	Online Registration	
Video Intercom	Online Registration	
SIP Settings	Face	Register
Serial Comm	Palm	Register
Face	Fingerprint	Register
Autotest		

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	
Face	Register
Palm	Register
Fingerprint	Register

- 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.

➢ <u>Register Palm</u>★

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



➢ <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.

Face	Register
Palm	Register
Fingerprint	Register
Remote Enroll Finge	Remote Enroll Finge
-------------------------	-------------------------
Press finger third time	Press finger third time
56	

For fingerprint pressing operation, please refer to Finger Placement.

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.

tem Info	User Mg	t.					
evice Info						_	
Device Capacity	New U	ser Dele	ete User		QQ	O	
irmware Info		User ID	Name	Rights	Card Number	Verification Method	Operation
er Mgt.		1	Mike	Super Admin	1311129248	<u>↓</u> □?⊕♥	Change User Info
l Users		2	Jake	Normal User	1190130	소 = 1	Change User Info
vanced Settings							< 1/1 >
омм.							

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.

System Info	User Mg	t.					
Device Info	_	_				_	
Device Capacity	New U	lser Dela	ete User		Q	G	
Firmware Info		User ID	Name	Rights	Card Number	Verification Method	Operation
User Mgt.		1	Mike	Super Admin	1311129248	<mark>⊥</mark> ⊟ १ ⊕ ♥	<u>Change User Info</u>
All Users		2	Jake	Normal User	1190130	오曰 f	Change User Info

System Info	Change User Info		
Device Info			
Device Capacity	User ID	1	
Firmware Info	Name	Mike	
User Mgt.	Rights	Super Admin	~
All Users	Password	••••	
Advanced Settings	Card Number	1311129248	Register
сомм.	Access Control Role	1	✓
Cloud Service Setup			
Date Setup		Confirm Back	
System			
Card Type Settings	Online Registration		
Video Intercom	Chine Registration		
SIP Settings	Face	Register	
Serial Comm	Palm	Register	
Face	Fingerprint		
Autotest	gelp	Register	
Wiegand Setup			
Access Control Options			

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.

ı Info	 User M	gt.					
nfo	_	_		~		_	
Capacity	New	User Del	ete User	2	Q	G	
e Info		User ID	Name	Rights	Card Number	Verification Method	Operation
		1 ¹	Mike	Super Admin	1311129248	<mark>上</mark> □?⊕♥	Change User Info
		2	Jake	Normal User	1190130	소 = 일	Change User Info
ced Settings						IK	< 1/1 >
И.							
Service Setup							
etup							
m							
Type Settings							

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.

System Info	IP Setup		
Device Info			
Device Capacity	DHCP	\bigcirc	
Firmware Info	IP Address	192.168.163.99	
User Mgt.	Subnet Mask	255.255.255.0	
All Users	Gateway	192.168.163.1	
Advanced Settings	DNS	114.114.114.114	
сомм.			
Cloud Service Setup		Confirm	

Function Name	Description
DHCP	Select whether to obtain the IP Address by automatically.
IP Address	The default IP address is 192.168.1.201. It can be modified according to network availability.
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 be modified according to network availability.
DNS	The default DNS address is 0.0.0.0. It can be modified according to network availability.

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 <u>Login WebServer</u>.

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>.

System Info	Cloud Server Settings	1
Device Info		
Device Capacity	Enable Domain Name	I
Firmware Info	Cloud Server Address 192.168.161.21	
User Mgt.	Cloud Service Port 8099	I
All Users	HTTPS Proxy Server Setup	
Advanced Settings		I
сомм.	Confirm	
Cloud Service Setup		

Functi	on 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 ON).			
Disable	Server Address	IP address of the ADMS server.			
Domain Name	Server Port	Port used by the ADMS server.			
н	ттрѕ	Based on HTTP, transmission encryption and identity authentication ensure the security of the transmission process.			
Proxy Se	erver 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**.

System Info	Date Setup	
Device Info		
Device Capacity	Configuration Mode	Auto Manual 'Manual' means to input time manually, "Auto" means the time that will be retrieved automatically.
Firmware Info	Device Date and Time	2022-12-05 14:51:02 (YYYY-MM-DD - HH:MM:SS)
User Mgt.		
All Users		Confirm
Advanced Settings		
сомм.		
Cloud Service Setup	Daylight Saving Mode	Close 🗸
Date Setup	By Date/Time	Daylight Saving Mode I
System	Daylight Saving Time	00-00 (MM-DD) - 00:00 (HH:MM)
Card Type Settings	End of Day Lightsaving	00-00 (MM-DD) - 00:00 (HH:MM)
Video Intercom	O By Week/Day	Daylight Saving Mode II
SIP Settings	Start Time	Month 1 - Number of Week 1 - Week 0 (0-6) - Time 00:00 (HH:MM)
Serial Comm Face	End Time	Month 1 - Number of Week 1 - Week 0 (0-6) - Time 00:00 (HH:MM)
Autotest		Confirm
Wiegand Setup		
Access Control Options		

9.4 System Settings

Click **System** on the WebServer.

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

System Info	System		
Device Info			
Device Capacity	Volume	70	
Firmware Info	Language	English	~
User Mgt.	Communication Protocol	PUSH Protocol	~
All Users	Device Type	A&C PUSH	~
Advanced Settings	Alphanumeric User ID	\bigcirc	
сомм.	Display IP when booting	\bigcirc	
Cloud Service Setup	User ID Masking Display Verification Name		
Date Setup	Display Verification Mode		
System		Confirm	

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.
Communication Protocol	Set the communication protocol of the device
	Set the device as an access control terminal or attendance terminal.
Device Type	<i>Note:</i> After changing the device type, the device will delete all the data and restart, and some functions will be adjusted accordingly.
Alphanumeric User ID	Enable/Disable the alphanumeric as User ID.
Display IP when booting	Enable/Disable the function of display IP when booting.
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 Card Type Settings

Click Card Type Settings on the WebServer.

The device supports 125kHz and 13.56MHz band cards, please select the corresponding card type according to your needs.

System Info	Card Type Settings
Device Info	125kHz
Device Capacity	
Firmware Info	
User Mgt.	HID PROX
All Users	
Advanced Settings	
сомм.	13.56MHz
Cloud Service Setup	FELICA
Date Setup	
System	
Card Type Settings	
SIP Settings	
Serial Comm	Confirm

9.6 Video Intercom 🛧

Click Video Intercom on the WebServer.

The video intercom function supports LAN and WAN, LAN is suitable for PC and WAN is suitable for mobile phone.

ystem Info	Video Intercom	
Device Info		
Device Capacity	Work Mode	LAN + TUYA 🗸
Firmware Info	Cloud Server Address	192.168.163.75
User Mgt.	Cloud Service Port	2555
All Users	Calling Timeout(s)	10
Advanced Settings		Confirm
сомм.		Comm
Cloud Service Setup		
Date Setup		
System		
Card Type Settings		巴洛为西部
/ideo Intercom		

9.6.1 LAN Video Intercom Function Settings

1. Installing ZKBio VMS Plugin in the ZKBio CVSecurity Software

While installing, select the "VMS" module of the ZKBio CVSecurity software to install, as shown in the following installation interface.

Personnel Access Advanced Access Elevator Attendance Visitor VMS Consumption Patrol SMS	 AD Integration LED Arteco&C2P Integration Middle Table Line Integration FaceKiosk Video Parking Temperature Mgmt
	< <u>B</u> ack Cancel <u>N</u> ext >

Note: The Video module and the VMS module cannot be selected at the same time.

Double-click on the provided **ZKBioVMSPlugin_sqlite.exe** file to install the ZKBio VMS Plugin.

Note: The ZKBio CVSecurity software and ZKBio VMS Plugin need to be opened simultaneously to recognize the intercom function.

2. Configuration Parameters

Set the required parameters correctly to ensure a connection between the device and the software.

Add site on the Video-VMS plugin

Double click the icon to open the Video-VMS Plugin. Click *Choose site > Site management > Add on the login interface. Then, enter the Name, IP address, and Port to add a site, as shown in the following figure.

⑦ZKBio VI	× Choose site	₽Zk	KBIO VMS Plugin Back
2 admin		Site Setting	
*		Site:	✓ <u>Site management</u>
English Remember password	▼ □ Auto login		
Login			Login
Site management	- ×	Add site	- ×
Site list No. Name IP address	Bort Add	Nam	e: vms
	Edit	IP addres	^{s:} 192.168.163.61
	Delete	Po	^{tt} 5252
		Sa	ve Cancel

- ✓ **IP Address:** Enter the local IP address.
- ✓ **Port:** The default port is 5252.
- 2) Enter the username and the password after adding the site and click **Login** to login the Video-VMS plugin. The username and the initial password are both **admin**.

	(†)	ZKBio VMS Plugin	× <u>Choose site</u>
	2	admin	
	*	••••	
1	٢	English 🝷	
	☑ Rer	nember password C Auto login	

Note: When the Video-VMS plugin is connected successfully to the ZKBio CVSecurity, the password changes synchronously to the admin user password of the ZKBio CVSecurity.

• Configure the connection path of the ZKBio CVSecurity and VMS plugin

Click **Video** > **maintenance Configuration** > **Browser Controls** on the ZKBio CVSecurity software to change the path, as shown in the following image:

⑦ 万傲瑞达										
ିସ Video View >	1									
🛃 Device Management >		Personnel	Access	Attendance	Consumption	t d Elevator				
▲ Decoding On The Wall >	•	00	ø	EL!	rëa.	B=B				
€ Search >	,	ČŠ Visitor	Parking	Patrol	Personal Card	Entrance Control				
(🕈 Intelligent >	•		÷			+++	Logi	n		
C Statistics	•	FaceKiosk	Temperature Detection	Video Management	Intelligent Analytics	†⊺⊺ System				
🛃 Video Patrol >	•	~								
📁 Maintenance Configur 🗸	/	Service Center								
Developer Log							· ·			
	«									
Client Request Log	«	Brov	wser Controls							
Client Request Log CU Request Parameters 3	«	Brov	wser Controls		n : Not Installed C	Or Failed To Load	3			
CU Request	«	Brov	wser Controls	File Storage Lo	ocation					
CU Request	×	Brov	wser Controls		ocation					
CU Request	×		wser Controls Parameter Set	File Storage Lo	ocation					
CU Request	×			File Storage Lo Change Path	ocation					
CU Request	«			File Storage Lo	ocation					
CU Request	×			File Storage Lo Change Path tings Debug log No Access log	ocation					
CU Request	¢			File Storage Lo Change Path tings Debug log	ocation					

VMS Connection Path

- ✓ URL: "<u>http://local IP address: port</u>"
- ✓ **Port:** It is **8489** by default (e.g., http://192.168.163.61:8489).

Server Path

- ✓ URL: "http://server IP address: port"
- ✓ Port: The port is the service port set during installation (e.g., <u>http://192.168.163.61:8098</u>) (not the ADMS port).

Configure the parameters on the ProMA

Click Cloud Server Setup on WebServer to set the server address and server port, i.e., the IP address and port number of the server after the software is installed. If the device communicates with the server successfully, the icon is displayed in the upper right corner of the standby interface.

System Info	Cloud Server Settings	1
Device Info		1
Device Capacity	Enable Domain Name	l
Firmware Info	Cloud Server Address 192.168.163.61	l
User Mgt.	Cloud Service Port 8098	l
All Users	HTTPS Proxy Server Setup	l
Advanced Settings		l
сомм.	Confirm	l
Cloud Service Setup		

- 2) Click **Video Intercom** to set the server address and server port.
- ✓ **Cloud Server Address:** Enter the ZKBio CVSecurity installation IP address.
- ✓ **Cloud Server Port:** The port is the service port set during installation (not the ADMS port).

System Info	Video Intercom	
Device Info		
Device Capacity	Work Mode	LAN + TUYA 🗸
Firmware Info	Cloud Server Address	192.168.163.61
User Mgt.	Cloud Service Port	8098
All Users	Calling Timeout(s)	10
Advanced Settings		Confirm
СОММ.		Commit
Cloud Service Setup		
Date Setup		
System		
Card Type Settings		E199456
Video Intercom		

- Adding device on the ZKBio CVSecurity software
 - 1) Click **Access** > **Device** > **Device** > **Search** to add the device on the ZKBio CVSecurity software.

ZKBio CVSecurit Access Device	ty 🛄	Step 1					
Device		Personnel	L] Access	Attendance	Consumption	Elevator	
I/O Board			L	Step 2			u
Door		66	ø	EL!	640		s
Reader		Visitor	Parking	Patrol	Entrance	FaceKiosk	
Auxiliary Input					Control		
Auxiliary Output		÷	ž	E=	+++	~	
Event Type		Temperature Detection	Intelligent Video	Intelligent Scene	System	Service Center	
Daylight Saving Time		Detection	VIGEO	ocene			
			Search				
IP Address MAC Address	Subnet		Add Serial Nun		e Set Server	Operations	
IP Address MAC Address 192.168.1.201	Subnet 255.255		.1	Device Type ProMA		Add	Step
	255.255	5.255.0 192.168.1	.1 New		Set Server	Add	Step
	255.255 Device Nar	5.255.0 192.168.1 me*	.1 New ProMA	ProMA		Add	Step
	255.255 Device Nar	5.255.0 192.168.1 me* ation Type*	.1 New	ProMA		Add	Step
	255.258 Device Nar Communic	5.255.0 192.168.1 me* ation Type*	.1 New ProMA • TCP/IP	ProMA		Add	itep
	255.250 Device Nar Communic IP Address Communic Communic	5.255.0 192.168.1 me* ation Type* ation port* ation Password	.1 New ProMA • TCP/IP (192 . 168 . 4370	ProMA		Add	Step
	255.250 Device Nar Communic IP Address Communic Communic Icon Type*	5.255.0 192.168.1 me* ation Type* ation port* ation Password	.1 New ProMA • TCP/IP (192 . 168 . 4370 Door	ProMA		Add	Step
192.168.1.201	255.250 Device Nar Communic IP Address Communic Communic	5.255.0 192.168.1 me* ation Type* ation port* ation Password	.1 New ProMA • TCP/IP (192 . 168 . 4370	ProMA		Add	Step
192.168.1.201	255.250 Device Nar Communic IP Address Communic Communic Icon Type [*] Control Pa	5.255.0 192.168.1 me* ation Type* ation port* ation Password nel Type	.1 New ProMA • TCP/IP 192 . 168 . 4370 Door One-Door Act	ProMA		Add	itep
192.168.1.201	255.250 Device Nat Communic IP Address Communic Communic Icon Type [®] Control Pat Area [®] Add to Lev Clear Data	5.255.0 192.168.1 me* ation Type* ation port* ation Password nel Type	.1 New ProMA TCP/IP 192 .168 . 4370 Door One-Door Act Area Name	ProMA		Add	Step
192.168.1.201	255.250 Device Nar Communic IP Address Communic Communic Icon Type [®] Control Par Area [®] Add to Lev Clear Data Adding	5.255.0 192.168.1 me* ation Type* ation port* ation Password nel Type rel a in the Device whe r Data in the Device	.1 New ProMA TCP/IP 192 .168 . 4370 Door One-Door Act Area Name	ProMA	×	Add	ītep

 After the device is added successfully to the access module, it automatically adds to the video module. User can click Video > Video Device > Search to view.

č Video View >	`	ideo Mai	nagement	/ Device	Managem	ent / Devi	ce									
🕴 Device Management 🛛 🗸		Device							٠	Groupir	ng Device					
Device	d	Name			Q	\Diamond				Devic	ce Name	IP A	ddress		Q 🖉	
Camera		O Re	fresh E	+ New	🗊 Delete	Q Sea	rch 🕄 S	iync Camera 🛛 … More 🔻		OR	tefresh 🖅 New	∎ Delete Q S	earch 🔤	Adjustment Area	··· More 🔻	
Group Management			Name		Device Ty	pe	Status	Subscription Status			Device Name	Channel Code	Status	Camera Type	Туре	IF
		۲	124		AS1700		Offline	•			10.8.12.211	1	Offline	Fixed Camera	CBL223-C01	1(
			126		ZKN∨R		Online	0			116_te55	2	Offline	Tube Machine	C2150-10-SIU	10
											134	3	Offline	Tube Machine	D2150-10-I-P(3.6	1
											133	4	Offline	Tube Machine	D2150-10-I-P(3.6	1
											10.8.51.13000	5	Offline	Tube Machine	D2150-10-I-P(3.6	1
	«										10.8.51.135	6	Offline	Tube Machine	D2150-10-I-P(3.6	1
											10.8.51.131设备3	2 7	Offline	Tube Machine	D2150-10-I-P(3.6	1
											测试部	8	Offline	Fixed Camera	DDS522-01	1(
											1800主设备117	9	Offline	Hemisphere	C3250-10-SIU	1(
											229	10	Offline	Fixed Camera	CBL223-C01	1(
Decoding On The Wall >																
Q Search >																
/ Intelligent >																
Statistics																
Video Patrol >																
회 Maintenance Configur >		< <	1-2	> >	50 rov	vs ner na	ne → Ju	Imp To 1 /1 Page	Total of 2 records	12	< 1-10 > 1	50 rows per	nage -	Jump To 1	/1 Page Total of	10

Note: If the device is not added to the Video module, please check whether the parameter settings are correct.

3. Video Preview on the ZKBio CVSecurity Software

Click **Video** > **Video Preview** to enter the preview interface of the device.



4. Make a Call on the Device

1) Tap 💭 icon on the ProMA to make a call.



2) The server page pops up the call window by default, as shown in the following figure.





Function Description

Function Name	Description
S	It is the Answer key, the user can click to answer the current call. After answering, enter the window during the call, and turn on audio and video by default.
-	It is the Hang up key. After hanging up, immediately end the current call.
×	It is the Ignore key, used to ignore the current call. Click it to close the call window, and the icon in the upper right corner will display the number of pending calls, like this 2. The user can click the o icon in the drop-down menu to open the call window of the current device again and choose to answer, as shown following figure. 192.168.162.87 22:20:12 O
	It is the Hang up key, used to hang up the current call.
	It is the Snapshot key, used to take a snapshot.
	It is the Remote Open key, used to open the door remotely. The default lock drive time is 5 seconds.

Note: If the device preview interface is opened on the ZKBio CVSecurity software, the call interface will no longer be displayed in this call window.

9.6.2 Connecting to ZKBio Talk Software

Download and install the ZKBio Talk software. Then, keep the parameter settings of ZKBio CVSecurity software unchanged for the relevant settings. (Please refer to <u>LAN Video Intercom Function Settings</u>).

Following are the steps to connect ZKBio Talk to the ZKBio CVSecurity software:

1. Firstly, change the parameter on the ProMA. Click Video Intercom on the WebServer to change the server address and server port, as shown in the following figure.

- All Users	Video Intercom	
Advanced Settings		
сомм.	Work Mode	LAN + TUYA 🗸
Cloud Service Setup	Cloud Server Address	192.168.163.61
Date Setup	Cloud Service Port	8098
System	Calling Timeout(s)	10
Card Type Settings		Confirm
Video Intercom		
Serial Comm		
Face		
Autotest		
Wiegand Setup		

- Server Address: Enter the current server installation IP address.
- ✓ Server Port: The default server port is 25550.
- 2. Double click the icon 🕡 to open the ZKBio Talk software. When the device-side video intercom parameters are set correctly, the device automatically pushes the device list on the left, as shown in following figure.



3. A user can click on stop to preview the video on the right. On clicking stop or stop icon, a user can close the preview screen. No action is taken when stop is clicked.



4. When a user tap ① icon on the ProMA to make a call, the software interface displays the IP address of the calling device in yellow.



5. When the user clicks the sicon to answer the call, the IP address is displayed in green while on the call. The call duration is also displayed just above the icon.



Function Description

Function Name	Description
	It is the Snapshot key, used to take a snapshot.
	It is the Remote Open key, used to open the door remotely. The default lock drive time is 5 seconds.

9.6.3 Connecting to ZSmart APP

Adding Device on the ZSmart APP

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 tap or icon 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.

16:37		•
My home 💌		Ð
1	¢	Add Device
Welcome Home	€‡	Create Scene
Set your home location for m	ore infor	mation
All Devices		•••
可视对讲门	禁机	
Home Sc	r) ene	Me

2. Click **Video Intercom** on WebServer.

All Users	Video Intercom	
Advanced Settings		
сомм.	Work Mode	LAN + TUYA 🗸
Cloud Service Setup	Cloud Server Address	192.168.163.61
Date Setup	Cloud Service Port	8098
System	Calling Timeout(s)	10
Card Type Settings		Confirm
Video Intercom		
Serial Comm		
Face		
Autotest		
Wiegand Setup		

3. Tap the 🔁 icon in the upper right corner.



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Me

• Make a Call on the Device

Tap 💭 icon on the ProMA to make a call. After receiving the call, slide up to open the door remotely.



Surveillance Screen

Find the bundled ProMA in ZSmart APP to view the screen in real time.



Function Description

Function Name	Description
Ð	Tap it to switch to the full screen.
Ô	Capture a picture to the photo album in the App.
Ċ	Tap it to talk to people in front of the device.
	Manually record a video to the photo album in the App.
」 シ	To mute or unmute the sound from the device.
Gallery	Review the recorded photos when detecting the motion.
Theme Color	Change the UI theme to light mode or dark mode.
UnLock	Remote door opening and viewing door opening records.

9.7 Onvif Settings

Note: This function needs to be used with the network video recorder (NVR) ★.

Click **ONVIF Settings** on the WebServer.

Advanced Settings	ONVIF Settings		
сомм.	Enable Authentication		
Cloud Service Setup	User Name		
Date Setup	Password		
System	Server Port	8000	
Card Type Settings Video Intercom		Confirm	
ONVIF Settings			

9.7.1 Network Video Recorder (NVR)

- 1. After the NVR device is powered on, connect the NVR wiring port via Ethernet cable.
- 2. Click [Video Management] > [Device] > [Search] on ZKBio CVSecurity server to add NVR.

ZKBio CVSec	urity	::: %						
Cd Video View	>	Step 1						
Bevice Management	~	Personnel	Access	Attendance	Consumption	t e Elevator	¢	Group
Device Camera Group Management	Step 3	V isitor	Parking	Patrol	Personal Card	Entrance Control		C
		FaceKiosk	Temperature Detection	Video Management		ļţ		
		~			Step 2			
Ca Video View	> `	'ideo Management /	Device Managen	nent / Device				
Device Management	~	Device					<	Grouping
Device		Name	Q	\Diamond				Device
Camera	_	C Refresh =+	New 💼 Delete	Q Search	🕄 Sync Camera	w Mara -		ORe
Group Management		Name	Device T	vpe Sta	Iscriptio	n Status		
		 124 	AS1700	Online	Step 4			
		0 125	NVR800	Online	•			
		0 126	ZKNVR	Online	. 0			
		+		hude Consult				
			,	Auto Search				
Search AS1700TD otal Progress Step 5		not supported yet	Searched	devices count:1				
Address	Version	Device Mode	Name	Port	User Name	Passw	rord	
10.8.14.128	NVR2.0	ZKNVR	10.8.14.128	8081	test	••••••		
					user n of the	ame ar NVR	nd	tep 6
User Name	Pass	word	Bat	ch Setup				
			Add Devic	e Clos Step 7				

ZKBio CVSecurity ::: Ħ Video Management / Device Management / Device Ca Video View > Device Grouping < Device Management QQ Name Device I Camera **O** Refresh -+ New Delete Q Search 🕃 Sync Camera ··· More -O Ref Group Management Subscription Status Name Device Type Status AS1700 0 124 NVR800 0 125 ZKNVR ø 126 Online 0 ZKNVR Online 127

The successfully added NVR are displayed in the device list, as shown in the following figure.

9.7.2 Add the ProMA to NVR

1. Click [Video Management] > [Device] > [Search] on ZKBio CVSecurity server to select the NVR to which you need to add the ProMA in the device list.



ିର୍ଦ୍ଧ Video View	>	Video Management / Device Management / Device	
Bevice Management	~	Device	< Groupir
Device		Name Q	Devic
Camera		C Refresh 🎞 New 💼 Delete 🔍 Search 🕃 Sync Camera … More ▼	OR
Group Management		Name Device Type Status Subscription Status	
		ProMA ProMA Online	
		○ 125 Step 4 0 Online	

2. In the device list, click [Search] > [Start Search], the NVR automatically search to the same LAN IPC camera through the network cable, add it.

Grouping Device		>
Device Name IP Address	Q @	
📿 Refresh ∓ New 💼 Delete 🔍 Search 🔯 Adjustment Area	··· More 🔻	
Device Name Channel Code Statu Step 5 Type	Type IP Address Area Name Operations	
IPC_10.8.12.211 1 Online Fixed Camera	CBL223-C01 10.8.12.211 区域名称	
· · · · · · · · · · · · · · · · · · ·	Auto Search	
Search Step 6 Searched Searched	devices count:6	
Protocol Type ONVIF IP Address		
IP Address Port Step 7 Type	Drive User Name Password	
2 10.8.51.118 8000	ONVIF	
10.8.51.121 80	ONVIF Step 8	
10.8.51.125 443	ONVIF	
10.8.51.126 8082	ONVIF	
10.8.51.132 80	ONVIF	
10.8.51.98 80	ONVIF	
User Name Password Ba	tch Setup	
Add Came		
	Step 9	
Photo x lea	··· More ·	
zk01 2022-09-22 14:12:09	🔆 Reboot ss Area Name Operations	
	莘 Basic Configuration 11 区域名称	
	莘 Linked Capture 34 区域名称	
	Maintenance Management	
	B Stream address 33 区域名称	
	D2150-10-I-P(3.6) 10.8.51.130 区域名称	
	D2150-10-I-P(3.6 10.8.51.135 区域名称	
	D2150-10-I-P(3.6) 10.8.51.131 区域名称	
	C3250-10-SIU 10.8.51.117 区域名称	
Happy New Your Control in the second se	CBL223-C01 10.8.14.229 区域名称 🦉	
ASASDASD ASASDAS123213ASDSAASASDASD	C2150-10-SIU 10.8.51.116 区域名称	

9.7.3 Linkage

After configuring the access controller, NVR and ProMA, you can set the event trigger linkage for illegal access, verification of door opening, alarm, abnormality, etc., which will be displayed in the corresponding event list of monitoring.

Click **[Access]** > **[Linkage]** > **[Add]** on the server to set the linkage related parameters. For more details, please refer to *ZKBio CVSecurity User Manual*.



		New		×
Linkage Name*	Test	Device*	10.8.14.94Q	
Linkage Trigger Conditions	Add	Input Point*		
Without Mask - Access		🔽 🖯 Any	3.14.94Q-1	
Output Point	Video Linkage	E-mail	,	•
Video	Video length Step 1	0 30	s(10-180)	
Capture		page immediately pop up		
_	Display time	10	s(10-60)	
	Save and New	ОК	Cancel	
		Step 11		
	Video Warning		×	
	Motion detect 2022-09-16 14:39:03 125_HoloSens SDC Emergency	tion warning	g	

9.8 SIP Settings ★

Note: This function needs to be used with the indoor station Vpad A2 \bigstar .

Click **SIP Settings** on the WebServer.

System Info	Upload Configuration Data	
Device Info	Update documents:	
Device Capacity	File name cannot contain spaces	
Firmware Info	Uploading	Confirm
User Mgt.		
All Users	Download Configuration Dat	ta
Advanced Settings		
сомм.	Download	
Cloud Service Setup		
Date Setup	SIP Settings	
System	Calling Delay(s)	30
Card Type Settings		
SIP Settings	Talking Delay(s)	60
Serial Comm	Encryption	Disabled ~
Face	Transport Protocol	UDP v
Autotest	dtmf	
Wiegand Setup	Verify TLS Certificate	
Access Control Options	SIP Server	
Device Management		Confirm
Device Management		
Update Firmware	Calling Shortcut Settings	
Change Password	Call Mode	Multi-Tenants Calling
Operation Log		
Download Firmware Logs	192.168.163.199	
	□ 192.168.163.102	
	192.168.163.103	
	□ 192.168.163.104	
	□ 192.168.163.105	

9.8.1 SIP Settings

SIP Settings			
Calling Delay(s)	30		
Talking Delay(s)	60		
Encryption	Disabled	~	
Transport Protocol	UDP	~	
dtmf			
Verify TLS Certificate			
SIP Server	\bigcirc		
	Confirm		

Function Name	Description	
Calling Delay(s)	Set the time of call, valid value 30 to 60 seconds.	
Talking Delay(s)	Set the time of intercom, valid value <mark>60 to</mark> 120 seconds.	
Encryption	When enable, this communication of video intercom will be encrypted.	
Transport Protocol	Set the transport protocol between ProMA and indoor station Vpad A2.	
dtmf	The value of WebServer is the same as the value of DMTF in the device in order to unlock it.	
Verify TLS Certificate	Enable/Disable the verify TLS certificate.	
SIP Server	Select whether to enable the server address. Once you have connected to the server, you can call it by entering the username of the indoor station. For details, please refer to 9.8.3 SIP Server.	

The ProMA and the indoor station to achieve video intercom there are two modes, respectively, the LAN and SIP server. Either method can be selected to achieve SIP video intercom, when the LAN and SIP server are set up at the same time, clicking the doorbell button of ProMA will start the SIP server first.

9.8.2 Local Area Network Use

Set the IP address on the indoor station, tap **Menu** > **Advanced** > **Network** > **1. Network** > **1. IPv4**.

Network	\checkmark
1. Connection Mode	Static IP
2. IP Address	192.168.163.199
3. Mask	255.255.255.0
4. Gateway	192.168.163.1
5. Primary DNS	114.114.114
6. Secondary DNS	8.8.8.8
	, ©
	2. IP Address 3. Mask 4. Gateway 5. Primary DNS 6. Secondary DNS

Note: In LAN, the IP addresses of the indoor station and the ProMA must be in the same network segment.

1. Download Configuration Data

1) Click **Download** to download the file and set the parameters of the video intercom.

Download C	Configuration Data	
Download		

	intercomm.csv https://192.168.163.129:1443/action/downloadintercomm	×
S	Show in the folder	

2) Open the downloaded file and manually modify the video intercom parameters as needed. Save the set parameters in order to synchronize the parameters to ProMA.

Note: The IP Address/Subnet Mask/Gateway must be the same as the indoor station to be connected.

	G13 -	⊜ fx		
	А	В	С	D
1	IP Address	Subnet Mask	Gateway	Dialing Number
2	192.168.163.199	255.255.255.0	192.168.163.1	101
3	192.168.163.102	255.255.255.0	192.168.163.1	102
4	192.168.163.103	255. 255. 255. 0	192.168.163.1	103
5	192.168.163.104	255. 255. 255. 0	192.168.163.1	104
6	192.168.163.105	255. 255. 255. 0	192.168.163.1	105
7				



2. Upload Configuration Data

1) Click **Uploading...** to find the configured parameters for the video intercom.

Upload Configuration Data
Update documents:
File name cannot contain spaces
Uploading Confirm

♥ 打开		✓ ⁴ y Search for Desktop	×
	Intercomm.csv	1	
File (N):		▼ XLS 工作表 (*.csv) 2 Open Ca	ancel

2) Click **Confirm** to sync the parameters to ProMA.

3. Calling Shortcut Settings

The configured parameters will be synchronized to the WebServer (ProMA), supporting one-to-one and Multi-Tenants Calling.

192.168.163.102	ll Mode	Multi-Tenants Calling
192.168.163.103	☑ 192.168.163.199	
	192.168.163.102	
192.168.163.104	192.168.163.103	
	192.168.163.104	
192.168.163.105	192.168.163.105	

Once the indoor station is configured with the network, the video intercom function can be realized by tap the m icon on the ProMA.



9.8.3 SIP Server

On WebServer, enable SIP Server, and enter the server parameters for the indoor station Vpad A2.

The set up SIP server is not affected by the network and responds more quickly. Can call the room number accurately according to the configured parameters.

SIP Settings	SIP Server	
Serial Comm	Server Address	20.205.119.174
Face	Server Port	5060
Autotest	User Name	109
Wiegand Setup	Password	
Access Control Options	realm	3CXPhoneSystem
Device Management		Confirm
Device Management		
Update Firmware	Calling Shortcut Settings	
Change Password		
Operation Log	Call Mode	Multi-Tenants Calling
Download Firmware Logs 🔶	☑ 192.168.163.199	1



Once the SIP Server is set up correctly, you can call the account name of the indoor station.

For details on the operation and use of the indoor station, please refer to the *indoor station user manual*.

9.9 Serial Comm

Click Serial Comm on the WebServer.

All Users	Serial Comm		Â
Advanced Settings			_
сомм.	Serial Port	Master Unit	~
Cloud Service Setup	Baudrate	115200	~
Date Setup		Confirm	
System		Commu	
Card Type Settings			
SIP Settings			
Serial Comm			
Face			

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

9.10 Face Parameters

Click **Face** on the WebServer.

All Users	Face		•
Advanced Settings			1
сомм.	1:N Threshold Value	74	I
Cloud Service Setup	1:N Match Threshold for Masked People	68	I
Date Setup	1:1 Threshold Value	63	l
System	Face Enrollment Threshold	70	l
Card Type Settings	Face Pitch Angle	30	l
SIP Settings	Face Rotation Angle	25	l
Serial Comm	Image Quality	70	
Face	Minimum Face Size	80	
Autotest	LED Light Trigger Value	80	
Wiegand Setup	Motion Detection Sensitivity	4	
Access Control Options			
Device Management	Anti-flicker Mode	50Hz 🗸	
Device Management	Live Detection		
	Anti-spoofing Using NIR		

			J
Face	Minimum Face Size	80	
Autotest			
Wiegand Setup	LED Light Trigger Value	80	
Wegana Setup	Motion Detection Sensitivity	4	
Access Control Options			
Device Management	Anti-flicker Mode	50Hz 🗸	
	Live Detection	\bigcirc	
Device Management	Anti-spoofing Using NIR	\bigcirc	
Update Firmware	Binocular Live Detection Threshold	50	
Change Password			
	WDR	\bigcirc	
Operation Log	Save Photo as Template		
Download Firmware 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.	
Face Enrollment Threshold	During face enrolment, 1: N comparison is used to determine whether the user has already registered before.	
	When the similarity between the acquired facial image and all registered facial templates is greater than this threshold, it indicates that the face has already been registered.	
	1	
------------------------------	---	--
	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.	
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-

9.11 Autotest

Click **Autotest** on the WebServer.

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

All Users	Autotest		
Advanced Settings	Test Face		
СОММ.	Test Mode Face	Camera	Acquire
Cloud Service Setup			
Date Setup			
System			
Card Type Settings			
SIP Settings	Test Fingerprint Sensor		
Serial Comm	Start End		
Face			
Autotest			

9.11.1 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.

9.11.2 Test Fingerprint Sensor

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



9.12 Wiegand Setup

Click Wiegand Setup on the WebServer.

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

All Users	Wiegand Setup		
Advanced Settings	Wiegand Input		
сомм.	○ Wiegand Output Wiegand Format		
Cloud Service Setup	26	Wiegand26	~
Date Setup	34	No Using	~
System Card Type Settings	36	No Using	~
SIP Settings	37	No Using	~
Serial Comm	50	No Using	~
Face	64	No Using	~
Autotest	Wiegand Bits	26	~
Wiegand Setup	ID Type	User ID	~
Access Control Options		Confirm	
Device Management			

All Users	Wiegand Setup		
Advanced Settings	○Wiegand Input		
сомм.	Wiegand Output Wiegand Format		
Cloud Service Setup	26	Wiegand26	~
Date Setup	34	No Using	~
System Card Type Settings	36	No Using	•
SIP Settings	37	No Using	~
Serial Comm	50	No Using	•
Face	64	No Using	•
Autotest	Wiegand Bits	26	•
Wiegand Setup	ID Type	User ID	•
Access Control Options		Confirm	
Device Management			

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.	

9.13 Access Control Options

Click Access Control Options on the WebServer.

On the Access Control interface to set the parameters of the control lock of the terminal and related equipment.

Access Control Terminal:

All Users	Access Control Options	
Advanced Settings		
сомм.	Door Lock Delay(s)	5
Cloud Service Setup	Door Sensor Delay(s)	10
Date Setup	Door Sensor Type	Normal Close(NC)
System	Master Device	In
Card Type Settings	Slave Device	Out
Video Intercom		Confirm
Serial Comm		
Face		
Autotest		
Wiegand Setup		
Access Control Options		
Function Name	Description	
The length of time that the device controls the electric leaf, to be in		

Door Lock Delay(s)	The length of time that the device controls the electric lock to be in unlock state. Valid value: 1~99 seconds; 0 seconds represents disabling the function.
Door Sensor Delay(s)	If the door is not locked and is 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 the door sensor is not in use.
	Normally Open: It means the door is always left open when electric power is on.
	Normally Closed: It means the door is always left closed when electric power is on.
	While configuring the master and slave devices, you may set the state of the master as Out or In .
Master Device	Out: A record of verification on the master device is a check-out record.
	In: A record of verification on the master device is a check-in record.
Slave Device	While configuring the master and slave devices, you may set the state of the slave as Out or In .
	Out: A record of verification on the slave device is a check-out record.
	In: A record of verification on the slave device is a check-in record.

Attendance Terminal:

All Users	Access Control Options		
Advanced Settings			
сомм.	Door Lock Delay(s)	10	
Cloud Service Setup	Door Sensor Delay(s)	10	
Date Setup	Door Sensor Type	Normal Close(NC)	
System		Confirm	
Card Type Settings			
Video Intercom			
Serial Comm			
Face			
Autotest			
Wiegand Setup			
Access Control Options			

Function Name	Description
Door Lock Delay(s)	The length of time that the device controls the electric lock to be in unlock state. Valid value: 1~255 seconds; 0 seconds represents disabling the function.
Door Sensor Delay(s)	If the door is not locked and is left open for a certain duration (Door Sensor Delay), an alarm will be triggered. The valid value of Door Sensor Delay ranges from 1 to 255 seconds.
Door Sensor Type	There are three Sensor types: None, Normal Open, and Normal Closed. None: It means the door sensor is not in use. Normally Open: It means the door is always left open when electric power is on. Normally Closed: It means the door is always left closed when electric power is on.

10 Device Management

10.1 Device Management

Click **Device Management** on the WebServer.

All Users	Device Management	
Advanced Settings		0-5-
сомм.	Clear Administrator	Confirm
Cloud Service Setup	Restart	Confirm
Date Setup		
System	Reset	Confirm
Card Type Settings	Close SSH	Confirm
SIP Settings		
Serial Comm	Delete All Data	Confirm
Face	Delete Access Control	Confirm
Wiegand Setup		
Access Control Options		
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.	
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).	
	192.168.1.201, please refer to <u>9.1 Communication Settings</u> to modify the IP.	

Close SSH	SSH is used to enter the background of the device for maintenance choose whether to close the SSH.	
Delete All Data	To delete the information and attendance logs/access records of all registered users.	
Delete Access Control	To delete the access control data from the ProMA.	

10.2 Updata Firmware

Click **Updata Firmware** on the WebServer.

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

^	Update Firmware
ings	
	Please copy content from checksum.txt.
Setup	Update documents:
	Uploading
	Upgrade device firmware. The format is emfw.cfg and size is less than 200M.
tings	Confirm
Options	
gement	
ement	
ire	

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.

All Users	Change Pas	sword
Advanced Settings	Enter the	
сомм.	Current Password	
Cloud Service Setup		Enter a new password at least 8 characters. It must contain special characters, numbers an upper and lower case letters.
Date Setup	Enter a New Password	
System	Confirm	
Card Type Settings	Password	
SIP Settings		Confirm
Serial Comm		
Face		
Autotest	Reset Passw	vord
Wiegand Setup	Enter the Current	
Access Control Options	Password	
Device Management		Reset Password
Device Management		
Update Firmware		
Change Password		

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.

Users	Operation Log						
vanced Settings							
омм.	Start Time	(YYYY-	MM-DD) End	Гіте		(YYYY-MN	1-DD)
oud Service Setup			Dowindad				
te Setup	Operator	Operation	Time	Object	Original Value	New Value	Result
stem	192.168.163.75	WEB Operation	2022-12- 07T09:25:40	Login	0	0	0
rd Type Settings	192.168.163.75	WEB Operation	2022-12- 06T17:38:34	Login	0	0	0
° Settings	D	Power On	2022-12- 06T17:37:38	0	0	0	0
rial Comm	192.168.163.75	Change Parameters	2022-12- 06T17:37:16	Language	83	69	0
ce totest	192.168.163.75	Restart	2022-12- 06T17:37:16	0	0	0	0
egand Setup	192.168.163.75	WEB Operation	2022-12- 06T17:35:47	Login	0	0	0
cess Control Options	D	Power On	2022-12- 06T17:35:26	0	0	0	0
rice Management	192.168.163.75	Change Parameters	2022-12- 06T17:35:03	Language	69	83	0
vice Management	192.168.163.75	Restart	2022-12- 06T17:35:03	0	0	0	0
date Firmware	192.168.163.75	Update Firmware	2022-12- 06T17:15:01	D	0	0	0
ange Password	192.168.163.75	Update Firmware	2022-12- 06T17:11:08	0	0	0	0
eration Log wnload Firmware Logs	192.168.163.75	Update Firmware	2022-12- 06T17:11:02	0	D	0	-1
winoad Filliware Logs			2022-12-	download			

10.5 Download Firmware Logs

Click **Operation Log** on the WebServer.

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

All Users	Download Firmware Logs		
Advanced Settings	Please select or enter the log file name	main.log 🗸	Confirm
сомм.		main.log biometric.log devs.log	
Cloud Service Setup			
Date Setup			
System			
Card Type Settings			
SIP Settings			
Serial Comm			
Face			
Autotest			
Wiegand Setup			
Access Control Options			
Device Management			
Device Management			
Update Firmware			
Change Password			
Operation Log			
Download Firmware Logs			

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.

System Info	evice Info	
Device Info		
Device Capacity	Device Name	ProMA
Firmware Info	Serial Number	7633223140012
User Mgt.	MCU Version	212
All Users	MAC Address	00:17:61:12:f2:18
Advanced Settings	Face Algorithm	ZKFace VX3.9
COMM.	Palm Algorithm Version	ZKPalmVein 12.0
Date Setup	Platform Info	ZAM180_TFT
System	Manufacturer	ZKTECO CO., LTD.
Card Type Settings	Manufacture Date	2022-12-07 11:43:31
Video Intercom	Copyright @ 2016-2021 A	I Right Reserved

System Info	vice Capacity	
Device Info		
Device Capacity	User (used/max)	2/50000
Firmware Info	Admin User	1
Jser Mgt.	Password	2
All Users	Face (used/max)	1/30000
Advanced Settings	Palm (used/max)	1/0
COMM. Cloud Service Setup	Card (used/max)	2/50000
Date Setup	T&A Record (used/max)	14868/100000
System	T&A Photo (used/max)	0/8500
Card Type Settings	Blocklist Photo (used/max)	0/500
Video Intercom	Profile Photo (used/max)	0/1000

System Info	Firmware Info	
Device Info		
Device Capacity	Firmware Version	ZAM180-NF20VA-Ver3.1.13
Firmware Info	Bio Service	Ver 2.1.14-20221108
User Mgt.	Push Service	Ver 2.0.33S-20220623
All Users	System Version	zam180 v3.2.0.5 Mar 30 2022 15:38:49 CST
Advanced Settings	Standalone Service	Ver 2.1.6-20210819
COMM. Cloud Service Setup	Dev Service	Ver 2.0.1-20221108
Date Setup	Web Service	Ver 2.0.2.005-20221108
System	VI Service	Ver 1.0.8-20221103
Card Type Settings	Licdm Service	Ver 1.13-20210927
Video Intercom	Mginit Service	Ver 1.13-20210927
Serial Comm	Libopts Service	Ver 1.06-20210324

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, palm \bigstar , fingerprint \bigstar , 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).

System Info	IP Setup		
Device Info			~
Device Capacity	DHCP		
Firmware Info	IP Address	192.168.163.99	
User Mgt.	Subnet Mask	255.255.255.0	Step 2
All Users	Gateway	192.168.163.1	Enter the
Advanced Settings	DNS	114.114.114.114	IP Info.
сомм.			
Cloud Service Setup Step 1	ו	Confirm	
Date Setup		Step 3	
System Info	Cloud Server Settin	gs	
System Info Device Info	Cloud Server Settin	gs	
	Cloud Server Settin	gs	
Device Info		1 92.168.161.21	Step 5
Device Info Device Capacity	Enable Domain Name		
Device Info Device Capacity Firmware Info	Enable Domain Name Cloud Server Address Cloud Service Port HTTPS	192.168.161.21	Step 5 Enter the Server Info.
Device Info Device Capacity Firmware Info User Mgt. All Users	Enable Domain Name Cloud Server Address Cloud Service Port	192.168.161.21	Enter the
Device Info Device Capacity Firmware Info User Mgt. All Users Advanced Settings	Enable Domain Name Cloud Server Address Cloud Service Port HTTPS	192.168.161.21	Enter the
Device Info Device Capacity Firmware Info User Mgt. All Users Advanced Settings COMM.	Enable Domain Name Cloud Server Address Cloud Service Port HTTPS	192.168.161.21 8099	Enter the
Device Info Device Capacity Firmware Info User Mgt. All Users Advanced Settings COMM. Cloud Service Setup	Enable Domain Name Cloud Server Address Cloud Service Port HTTPS Proxy Server Setup	192.168.161.21 8099	Enter the
Device Info Device Capacity Firmware Info User Mgt. All Users Advanced Settings COMM.	Enable Domain Name Cloud Server Address Cloud Service Port HTTPS Proxy Server Setup	192.168.161.21 8099	Enter the

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

ZKBio CVSecurity	::: ¥	😫 admin 🗸
🕸 System Management >	System / Communication management / Communication Monitor	
Authority Management >	Adms Service Settings	Adms Service Settings Server Side Network Condition
	Adms Service Port	
Device Commands	8088	
Communication Device	The current port is for device communication service, if service port, please refer to the actual mapped port.	there is a network mapping for the
Product	Project control file version	
Authorized device	None	
Communication Monitor	Turn on encrypted transmission	
	🔿 No 💿 Yes	
	« Server Side Network Condition	
	Whether the Internet connection is normal	
	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.

I Progress	100%			hed devices count:1 er of devices added:1			
Address	Devic	е Туре	Serial N	lumber	0	0	
IP Address	MAC Address	Subnet Mask	Gateway Add	Serial Number	Device Type	Set Server	Operations
192.168.1.201		255.255.255.0	192.168.1.1	1000	ProMA		This device has b

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.

System Management Operation Log Database Management Area Settings E-mail Management Dato Code Setting Dato Time Format Settings E-mail Management Data Cleaning Audio File Certificate Type Print Template System Monitoring Parameters Date Time Format Settings Date Time Format Settings Date Time Format Settings	TKBio CVSecurity	::: ¥	😫 admin 🗸					
QR Code Setting Database Management Area Settings E-mail Management Dictionary Management Dictionary Management Data Cleaning Audio File Certificate Type Print Template System Monitoring Parameters Date Time Format Settings Date Time Format Settings Date Time Format Settings	🟫 System Management 🗸	System / System Management / Parameters						
E-mail Management Dictionary Management Data Cleaning Audio File Certificate Type Print Template System Monitoring		QR Code Setting						
Dictionary Management Data Cleaning Audio File Certificate Type Print Template System Monitoring Parameters Date Time Format Settings Date Date Date	Area Settings							
Data Cleaning Audio File Certificate Type Print Template System Monitoring	E-mail Management	Management O No O Yes						
Data Cleaning Audio File Certificate Type Print Template System Monitoring	Dictionary Management	Qrcode Type						
Addof He 30 Certificate Type Print Template System Monitoring Parameters	Data Cleaning							
Print Template System Monitoring Parameters Date Time Format Settings Date 2022-01-01	Audio File							
Print Template to device error! System Monitoring Parameters Date Time Format Settings Date 2022-01-01	Certificate Type	30	second(30-300)					
Parameters Date Time Format Settings Date Date 2022-01-01	Print Template		tch may lead					
Date 2022-01-01	System Monitoring	System Monitoring						
2022-01-01	Parameters	DateTime Format Settings						
		Date						
Time		2022-01-01 •						
		Time						
00:00:00 -		00:00:00 -						

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

	New	×
Client Type*	APP Client-Administr 🔻	
Registration Code*	1C40F0	
0	K Cancel	

Ţ	ZKBio CVSecurity			Ħ						(9 a	dmin ~	
ŝ	System Management	s	ystem /	/ Authority Mana	gement / Clier	nt Register							
0	Authority Management 🔍		Regist	tration Code		Client Type		• A	ctivation	• (۵ ک	2	
	User		O R	efresh ∓ New		🛍 Delete							
	Role API Authorization			Registratio	Client name	Registration Key		Activated D	Creation Date	Client Type		rations	
	Client Register			1C40F0			•	_	2022-05-07 06:09	APP Client-Ac		Û	
	Security Parameters					Register QR-code		×					
	•					9 ° 40 PC							
					19								
					58								
		«			73	-	н.						
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						Cancel							
0													
Ø	Communication mana >		•									Þ	
ക	Third Party Integration >		<	< 1-1 >	>I 50 ro	wsperpage 👻 Jun	ip 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 <i>∢</i> <	, Server Setting	•11 4G 💷	
	•		
	ZKBioSecurity Mobile		
WW	http://110.80.38.74		
	6066		
	Connect successfully 095291		
8	native		
	Testing Connection		56.5
- 00	Version 4.0.0 or above. V2.20.1 pyright ⊚2		•

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 refreshes automatically for every 30s and 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) The digital photo should be straight-edged, colored, and half-portrayed with only one person, and the person should be uncharted and casual. Persons who wear eyeglasses should remain to put on eyeglasses for photo-taking.
- 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	Ο			
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

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

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

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

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