

User Manual

C3-X00 Plus 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 template-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 C3-X00 Plus 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 * 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 separated by forwarding slashes. For example, [File/Cr Folder].							

Symbols

Convention	Description
	This implies about the notice or pays attention to, in the manual.
ę	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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1 Safety Instructions

1.1 Important Security Instructions

- 1. Read and follow the instructions carefully before operation. Please keep the instructions for future reference.
- 2. Accessories: Please use the accessories recommended by the manufacturer or delivered with the product. Other accessories are not recommended, including major alarming systems and monitoring systems. The primary alarming and monitoring system should comply with the local applicable fire-prevention and security standards.
- 3. Installation cautions: Do not place this equipment on an unstable table, tripod mount, support, or base, lest the equipment falls and get damaged or any other undesirable outcome resulting in severe personal injuries. Therefore, it is essential to install the equipment as instructed by the manufacturer.
- 4. All peripheral devices must be grounded.
- 5. No external connection wires can be exposed. All the connections and idle wire ends must be wrapped with insulating tapes to prevent any damage to the equipment by accidental contact of the exposed wires.
- 6. Repair: Do not attempt to have an unauthorized repair of the equipment. Disassembly or detachment is risky and likely to cause shock. All repairs should be done by a qualified technician.
- **7.** If any of the following cases arise, disconnect the power supply from the equipment first and intimate the technician immediately.
 - The power cord or connector is damaged.
 - Any liquid or material spilled into the equipment.
 - The equipment is wet or exposed to bad weather (rain, snow, etc.).
 - If the equipment cannot work properly, even if it is operated as instructed, please be sure to adjust only the control components specified in the operating instructions. Incorrect adjustments on other control components may cause damage to the equipment; even the equipment may fail to operate permanently.
 - The equipment falls, or its performance changes dramatically.
- 8. Replacing components: If it is necessary to replace a component, only the authorized technician can replace the accessories specified by the manufacturer.
- **9.** Security inspection: After the equipment is repaired, the technician must conduct security inspection to ensure proper working of the equipment.
- **10.** Power supply: Operate the equipment with only the type of power supply indicated on the label. Contact the technician for any uncertainty about the type of power supply.

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Violation of any of the following cautions is likely to result in personal injury or equipment failure. We will not be responsible for the damages or injuries caused thereby.

- Before installation, switch off the external circuit (that supplies power to the system), including locks.
- Before connecting the equipment to the power supply, ensure the output voltage is within the specified range.
- Never connect the power before completion of installation.

1.2 Installation Instructions

- 1. The conduits of wires under relay must match with the metal conduits; other wires can use PVC conduits, to prevent failure caused by rodent damage. The Control panel is designed with proper antistatic, lightning-proof, and leakage-proof functions, ensure its chassis and the AC ground wire are correctly connected and the AC ground wire is grounded physically.
- 2. It is recommended not to plug/unplug connection terminals frequently when the system is powered on. Be sure to unplug the connection terminals before starting any relevant welding job.
- **3.** Do not detach or replace any control panel chip without permission, and an unpermitted operation may cause damage to the control panel.
- **4.** It is recommended not to connect any other auxiliary devices without permission. All non-routine operations must be communicated to our engineers in advance.
- 5. A control panel should not share the same power socket with any other large-current device.
- 6. It is preferable to install card readers and buttons at the height of **1.4 to 1.5m** above the ground or subject to customers' usual practice for proper adjustment.
- It is advised to install control panels at places where maintenance is easy, like a weak electric well.
- It is strongly recommended that the exposed part of any connection terminal should not be longer than 4mm, and specialized clamping tools may be used to avoid short-circuit or communication failure resulting from accidental contact with excessively exposed wires.
- 9. To save access control event records, export the data periodically from control panels.
- **10.** Prepare countermeasures according to application scenarios for unexpected power failure, like **selecting power supply with UPS**.
- 11. To protect the access control system against the self-induced electromotive force generated by an electronic lock at the instant of switching off/on, it is necessary to connect a diode in parallel (please use the FR107 delivered with the system) with the electronic lock to release

the self-induced electromotive force during onsite connection for application of the access control system.

- **12.** It is recommended that an electronic lock and a control panel should use separate power supplies.
- **13.** It is recommended to use the power supply delivered with the system as the control panel power supply.
- **14.** In a place with substantial magnetic interference, galvanized steel pipes or shielded cables are recommended, and proper grounding is required.

2 <u>Overview</u>

2.1 Introduction

ZKTeco's C3 Plus series is an IP-based controller offering RFID cards and dynamic QR code authentication for access control solutions.

The C3 Plus series includes three models: C3-100 Plus, C3-200 Plus, and C3-400 Plus. This series is designed for small-to medium-sized enterprises and can handle up to 100,000 multi-tech card users and 100,000 dynamic QR code transactions.

The C3 Plus series has RS-485 interfaces, which ZKTeco's RS-485 protocols and OSDP (Ver 2.1.7) for accessing card readers. It is also compatible with ZKTeco's QR code reader, including QR50, QR500, and QR600. C3 Plus series is highly versatile, with the Wiegand interface (Wiegand format: W26/W34/W66) for seamless integration with third-party access control readers.

The C3 Plus Series levels up data storage encryption by AES 256-bit algorithm. Also, C3 Plus Series adopts the AES 128-bit algorithm encryption to ensure the communication between controller, readers and I/O expansion boards secure. Also, the C3 Plus Series support HTTPS / TLS1.2 protects communications between the server and the web client.

2.2 Features

- Access points capacity: 1 / 2 / 4 Access Points.
- Multiple Authentication Methods: RFID Cards / Dynamic QR Code / Password.
- Optimal Capacity for small to medium enterprise. Supports 100,000 QR Code capacity and 100,000 RFID card capacity.
- Features ZKTeco's RS-485 protocols and OSDP (Ver 2.1.7) for connecting card readers, and it is compatible with ZKTeco's QR code readers such as QR50, QR500, and QR600.
- Highly versatile with Wiegand interfaces (Input) for integrating with third party card reader equipped with Wiegand interface (Wiegand format W24/W34/W66).
- Supports the I / O expansion board, EX0808 with 8 inputs and 8 outputs (via RS-485 connection).
- Supports firmware protocol access control push and compatible with ZKBio CVAccess.

2.3 Specifications

Model	C3-100 Plus	C3-200 Plus	C3-400 Plus			
Operation System	Linux OS					
Hardware	CPU: Single Core @ 1.0GHz RAM: 128MB; ROM: 256MB					
Authentication Method		Card / Password / QR Code				
Access Point Capacity	1 Access Point	2 Access Point	4 Access Point			
Reader Capacity	2*RS-485 Readers (ZKTeco RS-485 / OSDP), 2* 26 / 34 / 66 bit Wiegand Readers	8*RS-485 Readers (ZKTeco RS-485 / OSDP), 4* 26 / 34 / 66 bit Wiegand Readers				
IO Expansion Board Capacity		8pcs EX0808 (RS-485 connection)				
User Capacity		100,000				
Card Capacity		100,000 (1:N) (Standard)				
QR Code Capacity		100,000 (Static QR Code / Dynamic QR Code)			
Transaction Capacity		500,000 (Standard)				
Number of Inputs	1 * Exit Button, 1 * Door Status, 1 * AUX Inputs or 64 (with 8pcs of EX0808 IO expansion board)	1 * AUX Inputs2 * AUX Inputsoror64 (with 8pcs of EX0808 IO64 (with 8pcs of EX0808 IO				
Number of Outputs	1*Form C Relay forLock, 1*Form C Relay for Aux Output or 64 (with 8pcs of EX0808 IO expansion board)	4*Form C Relay forLock, 4*Form C Relay for Aux Output or 64 (with 8pcs of EX0808 IO expansion board)				
Max. Card Length		Supports up to 66 bits Card Length				
QR Code	QR code, PDF417, Data Matrix, MicroPDF417, Aztec scanning in third-party development projects. Dynamic QR codes on the ZKBio CVAccess mobile application.					
Communication	TCP/IP *1 RS-485: ZKTeco RS-485/OSDP *1 Wiegand (Input)*1 USB: Type A (USB Drive Only)*1 Aux Inputs *1, Aux Outputs *1, Electric Lock*1, Door Sensor*1, Exit Button*1, Alarm*1	TCP/IP *1 RS-485: ZKTeco RS-485/OSDP *1 Wiegand (Input)*1 USB: Type A (USB Drive Only)*1 Aux Inputs *2, Aux Outputs *2, Electric Lock*2, Door Sensor*2, Exit Button*2, Alarm*2	TCP/IP *1 RS-485: ZKTeco RS-485/OSDP *1 Wiegand (Input)*1 USB: Type A (USB Drive Only)*1 Aux Inputs *4, Aux Outputs *4, Electric Lock*4, Door Sensor*4, Exit Button*4, Alarm*4			

Standard Functions	Webserver, Upto 14-digit User ID, Access Levels, Access Groups, Holidays, Anti-passback, Anti-tailgating, Linkage, Global Linkage, Multiple Verification Methods					
Access Control Interface	Wiegand (Card Reader) RS-485 (RS-485 Card Reader / QR Code Reader)					
Power Supply		9.6V - 14.4V DC				
Operating Temperature		0°C to 45°C				
Operating Humidity		20% to 80% RH (Non-condensing)				
Dimensions (mm)	175 mm*99 mm*19.3 mm (L*W*H)	215.88 mm*99.14 mm*19.3 mm(L*W*H)				
Gross Weight	0.263 Kg	0.263 Kg 0.296 Kg				
Net Weight	0.158 Kg	0.252 Kg				
Supported Software	ZKBio CVAccess					
Installation	Supporter	d Wall-mount with Metal Enclosure	(Optional)			
Enclosure (Optional)	Size: 350 mm*90 mm*300 mm (L*W*H) Material: SPCC steel Power Supply Unit: input 110V~240V AC, output 12V 4A+1A DC Backup Battery: Space reserved [Recommended Backup Battery size: 151 x 94 x 65 mm (L*W*H)] Gross Weight: 3.35Kg	(L*W*H)(L*W*H)Material: SPCC steelMaterial: SPCC steelPower Supply Unit: input 110V~240VPower Supply Unit: input 110V~240VAC, output 12V 4A+1A DCAC, output 12V 4A+1A DCBackup Battery: Space reservedBackup Battery: Space reserved [Recommended Backup Battery]size: 151 x 94 x 65 mm (L*W*H)]size: 151 x 94 x 65 mm (L*W*H)]				
Certifications	ISO14001, ISO9001, CE, FCC, RoHS					
Factory ID	AC02-C11H-U10	AC02-C12H-U10	AC02-C14H-U10			

2.4 Dimension



Mainboard Bracket



Figure 2-1 Product Appearance

2.5 Control Panel Indicators

When the C3-100/200/400 Plus is powered on, normally the POWER indicator (red) is lit constantly, the RUN indicator (green) shall flash slowly (indicating the system is normal), and other indicators are all off.

- LINK indicator (green): indicates proper TCP/IP connection if it is lit constantly;
- ACT indicator (yellow): indicates transmission of TCP/IP data if it flashes;
- EXT RS485 (TX) indicator (yellow): Reader 485 communication indicator, indicates sending of 485 data if it flashes;
- EXT RS485 (RX) indicator (green): Reader 485 communication indicator, indicates receiving of 485 data if it flashes;
- PC RS485 (TX) indicator (yellow): PC485 communication indicator, indicates sending of 485 data if it flashes;
- PC RS485 (RX) indicator (green): PC485 communication indicator, indicates receiving of 485 data if it flashes;
- CARD indicator (yellow): indicates input of Wiegand signal if it is lit.

Indicator Diagram:



Figure 2-2 Indicators in the InBio460 Pro

3 Installation and Connection

Ensure that the device is installed following the provided installation instructions. Failure to do so may result in voiding of the devices warranty.

3.1 Installing the metal enclosure on the wall

- According to the mounting holes position of the metal enclosure. Drill three mounting holes in a suitable spot on the wall and make sure it is about **114 inches (2.9m)** above the ground, which can be adjusted according to actual needs. Take care to leave at least **3.937 inches (100** mm) on the left side of the metal enclosure.
- 2. Place the Anchors in the mounting holes.
- 3. Then f ix the metal enclosure with the self-tapping screws as shown below.



Figure 3-1 Installation the metal enclosure on the wall

Note: The metal enclosure is equipped with an tamper alarm switch. When it is working normally, please keep the enclosure closed.

3.2 Installation of access control panel wires



Figure 3-2 Access Control Panel Wire Installation Diagram

Remarks:

- Ensure the power supply is disconnected before connecting the wires; otherwise, it may cause severe damage to the equipment.
- The access control wires must be separated according to heavy and light current; the control panel wires, electronic lock wires, and exit button wires must run through their casing pipes, respectively.

3.3 Controller System Installation



Figure 3-3 Schematic Diagram of System Installation

Notes:

- The access control management system consists of two parts: Management Workstation (PC) and Control panel. The management workstation and control panel communicate through TCP/IP. The communication wires should be kept away from high-voltage wires as far as possible and should be neither routed in parallel with nor bundled with power wires.
- A management workstation is a PC connected with the network. By running the access control management software installed in the PC, access control management personnel can remotely perform various management functions, like adding/deleting a user, viewing event records, opening/closing doors, and monitoring the status of each door in real-time.

3.4 Access Control Operator Panel System Power Supply Structure



Figure 3-4 Access Controller System Power Supply

Remarks:

- An access control operator panel is powered by +12V DC. Generally, to reduce power interference between control panels, each control operator panel should be powered separately. When high reliability is required, control panels and electronic locks should be powered respectively.
- To prevent power failure of a control operator panel from making the whole system unable to work normally, the access control management system is usually required to have one UPS at least, and access control locks are powered externally to guarantee the access control management system can still work normally during power failure.

4 **Terminal and Wiring Description**

4.1 Terminal Description

4.1.1 C3-100 Plus





4.1.2 C3-200 Plus



Figure 4-2 C3-200 Plus terminal description

4.1.3 C3-400 Plus



Figure 4-3 C3-400 Plus terminal description

Description of the terminals:

- 1. The auxiliary input may connect to infrared body detectors, fire alarms, or smoke detectors.
- 2. The auxiliary output may connect to alarms, cameras or doorbells, etc.
- 3. The EXT RS485 Reader port can be connected externally to RS485 reader.
- **4.** The PC RS485 communication port can be externally connected to EX0808 expansion board (for customized function, please contact your dealer if needed).
- 5. The terminals above are set through the relevant access control software. Please see the respective software manual for further details.

SD card function:

Backup event records of access control for client. Supports connection of 32GB SD card.

Ports of C3-100/200/400 Plus Control Panel:

No.	Functional Port	C3-100 Plus	C3-200 Plus	C3-400 Plus
1	Number of doors controller	1	2	4
2	Wiegand card reader interface	2	4	4
3	Exit button	1	2	4
4	Control lock relay	1	2	4
5	Door sensor	1	2	4
6	Extension input	1	2	4
7	Extension output	1	2	4
8	TCP/IP	\checkmark	\checkmark	\checkmark
9	RS485 extension communication	\checkmark	✓	✓
10	PC485 communication	Customization	Customization	Customization

4.2 Wiring Description

4.2.1 Power Wiring

• Without Backup Battery



Figure 4-4 Power supply wiring diagram

4.2.2 Network Wiring

Establish the connection between the device and the software using an Ethernet cable. An illustrative example is provided below:



Figure 4-5 Network wiring diagram

Note:

• In LAN, IP addresses of the server (PC) and the device must be in the same network segment when connecting to the software.

4.2.3 Wiegand Reader Wiring



Figure 4-6 Wiegand reader wiring diagram

The C3-100 Plus can connect two Wiegand readers in the one-door two-way mode. The C3-200 Plus provides four readers, which can be connected in the two-door two-way mode. The C3-400 Plus provides four readers, which can be connected in the two-door two-way or four-door one-way mode.

The Wiegand interfaces provided by the C3 Plus series can be connected to different types of

readers. If your card reader does not use the voltage of DC 12V, an external power supply is needed. A reader should be installed at a height of about 1.4m above the ground and at a distance of 30-50mm away from a door frame.

Reader Model	Wiegand26/34	Wiegand66
KR100/101/102E/M	✓	X
KR200/201/202E/M	✓	X
KR310	✓	X
KR500E/501M/502E/M/503E	✓	X
KR600/601/602E/M	✓	X
KR610/611/612E	✓	X
KR610/611/612D	✓	
KR610/611/612DL	✓	
ProID10/20/30/40 E/M	✓	X
ProID10/20/30/40 D	✓	\checkmark
ProID20/30BEMD-RS	✓	✓

The following Wiegand reader models are supported for connection:

Remarks: \checkmark indicates support, \times indicates no support.

4.2.4 Auxiliary Input Wiring

The C3-100 Plus provides one auxiliary input interface; the C3-200 Plus provides two and the C3-400 Plus provides four, which may connect to infrared body detectors, smoke detectors, gas detectors, window magnetic alarms, wireless exit switches, etc. Auxiliary inputs are set through the relevant access control software. Please refer to the relevant user manual for details. The following is an example of wiring with fire alarm only.



Figure 4-7 Auxiliary input wiring diagram

4.2.5 Auxiliary Output Wiring

The C3-100 Plus has two relays (one used as control lock by default, and the other one used as auxiliary output); the C3-200 Plus has four relays (two used as control locks by default, and the other two used as auxiliary outputs); the C3-400 Plus has eight relays (four used as control locks by default, and the other four used as auxiliary outputs).

The relays for auxiliary outputs may connect to monitors, alarms, doorbells, etc. Auxiliary outputs are set through the relevant access control software. Please refer to the respective software manual for details. The following is an example of wiring with alarm only.



Figure 4-8 Auxiliary output wiring diagram

4.2.6 Exit Button Wiring

An exit switch is a switch installed indoor to open a door. When it is switched on, the door will be opened. An exit button is fixed at the height of about 1.4m above the ground. Ensure it is located in the right position without slant, and its connection is correct and secure. (Cut off the exposed end of any unused wire and wrap it with insulating tape.) Make sure to avoid electromagnetic interference (such as light switches and computers). It is recommended to use two-core wires with a gauge over 0.3mm² as the connection wire between an exit switch and the Control panel.





4.2.7 RS485 Reader Wiring

The C3-100 Plus can connect two RS485 readers in the one-door two-way mode. The C3-200 Plus provides four readers, which can be connected in the two-door two-way mode. The C3-400 Plus provides four readers, which can be connected in the two-door two-way or four-door two-way mode.



Figure 4-10 Connection between C3-400 Plus and RS485 Readers

• Controller Supported Reader Models:

Reader Model	485 Unencrypted	485 Encryption	OSDP Unencrypted	OSDP Encryption
ProID101/102/103/104	\checkmark	×	\checkmark	×
ProID20/30BEMD-RS	\checkmark	×	\checkmark	×
QR50/QR500/QR600	\checkmark	\checkmark	×	×

Remarks:

- 1. \checkmark means connectable, \times means not connectable.
- 2. In 485 communication encryption mode, the ProID100 reader supports tamper alarm function. When the reader is illegal tampering, it will send a tamper signal to the controller via 485, and the controller will report to the software to form a tamper alarm event. Users can configure the alarm linkage on the software side and connect the alarm to the auxiliary output. The tamper switch for the ProID100 reader is on the back case of the unit.
- 3. On the software side, click **Access > Access Device > Reader**, select the reader and check **Encrypt** in the pop-up editing window to enable the encryption function. This is shown in the figure below.

TKBio CVSecurity	::: ¥				
📕 Access Device 🗸 🗸	Access / Access	Device / Reader			
Device I/O Board	Reader Name	Door Name	Q Q		
Door	O Refresh				
Reader	Reader Nam <u>192.168.163</u>		communication Type In/Out Ov /legand/RS485 In	ning Board Operations	
Auxiliary Input Auxiliary Output	<u>192.168.16</u>		Edit	× L	
Event Type	<u>192.168.16</u>	Door Name*	192.168.163.199-1 192.168.163.199-1-In	2	
Daylight Saving Time	<u>192.168.16</u>	Number*	1	₽	
Real-Time Monitoring	<u>192.168.16</u>	In/Out" Communication Type"	In Out Wiegand/RS485 ▼	2	
Alarm Monitoring	* <u>192.168.16</u>	Communication Address*	1	2	
Мар	<u>192.168.16</u>	RS485 Protocol Type Encrypt	ZK485 • 3	2	
	<u>192.168.16</u>	Conceal Part Personnel Information		2	
		A The encryption is copied to all reade	rs in current device!		
		The option to hide some personnel i default!	nformation is copied to all readers of the sa	me device by	
		The RS485 protocol type is copied to effect after the device restarts!	o all readers in current device. The settings	will take	
		4	Cancel	_	
]L Access Rule >					
Advanced Functions					

• Setting the RS485 Address

RS485 reader connection: Set the RS485 address (device number) of the reader by DIP switch or other ways.

RS485 address Control Panel	1	2	3	4	5	6	7	8
C3-100 Plus	#1Door IN	#1Door OUT						
C3-200 Plus	#1Door IN	#1Door OUT	#2Door IN	#2Door OUT				
C3-400 Plus	#1Door IN	#1Door OUT	#2Door IN	#2Door OUT	#3Door IN	#3Door OUT	#4Door IN	#5Door OUT

Important Notes:

- 1. RS485 communication wires should be a shielded twisted pair cable. RS485communication wires should be connected in a bus cascade topology instead of a star topology, to achieve a better shielding effect by reducing signal reflection during communications.
- 2. A single RS485 bus can connect up to 63 access control panels, but preferably 32 is recommended maximum.
- 3. To eliminate signal attenuation in communication cables and suppress interference, if the bus is longer than 200 meters, set the number 8 DIP switch to the ON position. The number 8 DIP switch is for setting the RS485 termination resistance. This is equivalent to a parallel connection of one 1200hm resistance between the 485+ and 485- lines.



- 4. When the EXT RS485 port is configured with ZK485 or OSDP protocol, the corresponding baud rate is set to **9600** for **ZK485** and **115200** for **OSDP**.
- **5.** A single EXT RS485 interface can supply for maximum 750 mA (12V) current. So the entire current consumption should be less than this max value when the readers share power with the panel. For calculation, please use max current of the reader, and starting current is usually more than twice of the normal work current, please consider this situation.
- 6. If RS485 reader is connected externally and shares the power supply with the device, it is recommended that the connection between the EXT RS485 port and the reader be no longer than 100m. Otherwise, it is recommended that using a separate power supply for the reader.
- **7.** For some of the devices with much greater consumption, we suggest to use the separately power supplies, to make sure the steady operation.

• QR50 Connection

The QR50 code reader does not need to be connected to the lock body when it is used as a reader. The figure below shows the connection to the controller via RS485:





• External Readers Verification Status

After the external reader is connected to the controller, the status of the buzzer and LEDs are shown below.

ltems	Voice Prompt	Indicator Status	Buzzer Status
Standby Status / Online	/	Breathing light interval frequency 1s, white light on	/
Standby Status / Offline	/	Breathing light interval frequency 1s, red light on	/
Successfully verified	Voice prompt: Successfully verified	The indicator (green) lights up	The buzzer rings once.
Verification failure	Voice prompt: Failed to verify	The indicator (red) lights up briefly twice.	The buzzer sounds twice fast.
Unauthorized personnel	Voice prompt: Unauthorized	The indicator (red) briefly light three times	The buzzer sounded three times fast.
Authentication mode error	Voice prompt: Verification error	The indicator (red) long light three times.	The buzzer beeps twice fast and once long.
Combined verification timeout	Voice prompt: Combined verification timeout	The indicator (red) lights up briefly four times.	The buzzer sounded four times fast (timeout is 10 seconds).
Verification timeout	Voice prompt: Verification timeout	The indicator (red) lights up briefly four times.	The buzzer sounded four times fast (timeout is 8 seconds).

4.2.8 PC485 Extension Communication Wiring

The C3 Plus series can be connected to the EX0808 expansion board via PC485. **Note:** PC software communication is a customized feature and not supported by default, please contact your dealer if you need it.

What is EX0808?

EX0808 is an extended module for controllers which is used for connecting more number of auxiliary devices.



Figure 4-12 Connecting the EX0808 expansion board via PC485

Important Notes:

- Conf igure the ZK485 protocol through the PC485 port to connect up to eight EX0808 expansion boards to expand a certain number of auxiliary inputs and auxiliary outputs.
 Note: Set DIP switch #5 of the expansion board to the OFF position.
- Conf igure the OSDP protocol through the PC485 port to connect up to eight EX0808 expansion boards to expand a certain number of auxiliary inputs and auxiliary outputs.

Note: Set DIP switch **#5** of the expansion board to the **ON** position.

- 3. The RS485/OSDP address of each EX0808 is set via the DIP switch before power is applied.
- 4. Each EX0808 requires a separate power supply. Up to eight auxiliary input devices and eight auxiliary output devices can be connected to one EX0808.
- DIP Switch Setting for RS485/OSDP Communication

There are six DIP switches on the EX0808 expansion board and their functions are:

- 1. Switches 1-4 are used to set the RS485/OSDP addresses.
- 2. Switch **5** is for RS485/OSDP mode switching. When set to **OFF**, RS485 mode is used, and when set to **ON**, OSDP mode is used.
- 3. If the cable length is more than 200 meters, the switch **6** should be **ON** for noise reduction on long RS485 cables.
- 4. The detailed settings of the DIP switches are shown in the table 4-1 below.

Description	RS485 Address	DIP Switch	RS485 Address	DIP Switch	RS485 Address	DIP Switch
N 1 2 3 4 5 6 1 2 4 8 MODE (RS485/OSDP) RS485 Terminal Resistance	1	0 1 2 3 4 5 6	6	0 1 2 3 4 5 6	11	0 N 1 2 3 4 5 6
	2	V 1 2 3 4 5 6	7	V 1 2 3 4 5 6	12	V 1 2 3 4 5 6
	3	♦ 0 1 2 3 4 5 6	8	V 1 2 3 4 5 6	13	♦ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	4	0 1 2 3 4 5 6	9	V 1 2 3 4 5 6	14	♦ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	5	0 1 2 3 4 5 6	10	♦ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	15	0 1 2 3 4 5 6 K

Table 4-1 - DIP Switch Setting for RS485/OSDP Communication

4.2.9 Door Sensors Wiring

A Door Sensor is used to sense the open/close status of a door. With a door sensor switch, an access control panel can detect the unauthorized opening of a door and will trigger the output of alarm. Moreover, if a door is not closed within a specified period after it is opened, the door control panel will also raise the alarm. It is recommended to select two-core wires with a gauge over 0.22 mm². A door sensor can be omitted if it is unnecessary to monitor the open/closed status of a door, raise the alarm when the door is not closed for a long time, monitor if there is unauthorized access, and use the interlock function.





4.2.10 Lock Relay Wiring

The C3-100 Plus has one lock relay, the C3-200 Plus has two lock relays, and the C3-400 Plus has four lock relays.

- 1. An access control panel provides multiple electronic lock outputs. The COM and NO terminals apply to the locks that are unlocked when power is connected and locked when power is disconnected. The COM and NC terminals use the locks that are locked when power is connected and unlocked when power is disconnected.
- 2. To protect the access control system against the self-induced electromotive force generated by an electronic lock at the instant of switching off/on, it is necessary to connect a diode in parallel (please use FR107 delivered with the system) with the electronic lock to release the self-induced electromotive force during the onsite connection for application of the access control system.
- 3. In general, the default connection mode of the door lock is "Dry Mode". Dry mode supports separate power supply for the door lock using an external independent power supply. Wet mode supports the door lock sharing power with the controller.
- 4. By setting the jumper terminal beside the lock relay, you can select the device power supply or lock power supply for the lock (that is, the wet mode or dry mode). The factory default jumper setting is Dry Mode.

Method of switching between wet and dry modes:

- Dry mode jumper setting: short 1-2 and 3-4 will be used for the relay output.
- Wet mode jumper setting: short 2-3 and 4-5 CCCC, and the lock power supply will be used for the relay output.

54 m 01-



Figure 4-14 Schematic diagram for switching between wet and dry modes



• Controller not sharing power with the lock (Dry Connect)

Figure 4-15 Schematic diagram of the controller not sharing power with the lock

• Controller sharing power with the lock (Wet Connect)

The system supports both **Normally Opened Lock** and **Normally Closed Lock**. The **NO LOCK** (normally opened at power on) is connected with '**NO**' and '**COM**' terminals, and the **NC LOCK** (normally closed at power on) is connected with '**NC**' and '**COM**' terminals.



Normally Opened Lock Powered From Lock Terminal:

Figure 4-16 Schematic diagram of the controller sharing power with the NO Lock


Normally Closed Lock Powered From Lock Terminal:

Figure 4-17 Schematic diagram of the controller sharing power with the NC Lock

Important Notes:

- 1. The access controller comes standard with a 12V/3A power supply, and this power supply only takes into account the power consumption of the controller itself, the output power consumption of the Wiegand reader and the RS485 reader. So usually, it is not recommended to share the power supply between the lock and the device. If you do need to share the power supply between the lock and the device, it is recommended to replace the power supply with a larger capacity, such as 12V/5A power supply. At this time, in addition to the reserved 3A current, there are 2A current can be used by the lock. If you connect our common electric lock (static loss 300mA, maximum dynamic current 500mA), you can connect up to 4 electric locks.
- 2. For equipment with high power consumption, it is recommended to use separate power supply to ensure stable operation of the equipment.

5 Equipment Communication

The background PC software can communicate with the system according to two protocols for data exchange and remote management.

5.1 Access Control Networking Wires and Wiring

- 1. The power supply is 12V DC converted from 220V.
- 2. As an electronic lock has a large current, it generates a strong interference signal while functioning. To reduce such an effect, 4-core wires (RVVP 4×0.75 mm2, two for a power supply, and two for a door sensor) are recommended.
- **3.** RS485 communication wires are made of internationally accepted shielded twisted pairs, which prove effective to prevent and shield interference.
- 4. The Wiegand readers use 6-core communication shielded wires (RVVP 6×0.5mm) (usually there are 6-core, 8-core, and 10-core types available for users to select according to the ports) to reduce interference during transmission.
- 5. Other control cables (like exit switches) are all made of 2-core wires (RVVSP 2×0.5mm2).
- 6. Notes for wiring:
 - Signal wires (like network cables) can neither run in parallel with nor share one casing pipe with large-power electric wires (like electronic lock wires and power cables). If parallel wiring is unavoidable for environmental reasons, the distance must be above 50cm.
 - Try to avoid using any conductor with a connector during distribution. When a connector is indispensable, it must be crimped or welded. No mechanical force can be applied to the joint or branch of conductors.
 - In a building, the distribution lines must be installed horizontally or vertically. They should be protected in casing pipes (like plastic or iron water pipes, to be selected according to the technical requirements of the indoor distribution). Metal hoses are applicable to ceiling wiring, but they must be secure and good-looking.
 - Shielding measures and shielding connection: If the electromagnetic interference in the wiring environment is found substantial in the survey before construction, it is necessary to consider the shielding protection of data cables when designing a construction scheme. Overall, shielding protection is required if there is a large radioactive interference source or wiring has to be parallel with a large-current power supply on the construction site. Generally, shielding measures includes keeping a maximum distance from any interference source, and using metal wiring troughs or galvanized metal water pipes to ensure reliable grounding of the connection between the shielding layers of data cables and the metal troughs or pipes. Noted that a shielding enclosure can have a shielding effect only when it is grounded reliably.
 - Ground wire connection method: Reliable large-diameter ground wires in compliance with applicable national standards are needed on the wiring site and should be connected in a tree form to avoid DC loop. These ground wires must be kept far away from lightning fields.

No lightning conductor can serve as a ground wire and ensure there is no lightning current through any ground wire when there is lightning. Metal wiring troughs and pipes must be connected continuously and reliably and linked to ground wires through large-diameter cables. The impedance of this section of wire cannot exceed 2 ohms. Also, the shielding layer must be connected reliably and grounded at one end to guarantee a uniform current direction. The ground wire of the shielding layer must be connected through a large-diameter wire (not less than 2.5mm²).

5.2 TCP/IP Communication

The Ethernet 10/100Base-T Crossover Cable, a type of crossover network cable, is mainly used for cascading hubs and switches or used to connect two Ethernet endpoints directly (without a hub). Both 10Base-T and 100Base-T are supported.



Figure 5-1 TCP/IP Communication System Networking

In Access software: Click **Device** > **Search Device** to search for access controllers in the network, and directly add from the search result.

5.3 DIP Switch Settings







• 485 address setting

- 1. Number 1-6 are reserved to set the device number for RS485 communication. The code is binary, and the numbering starts from left to right. When the switch is set to ON position, it indicates 1 (on); when the switch is set downwards, it indicates 0 (OFF).
- 2. For example, to set a device number 39=1+2+4+32, which corresponds to the binary code 111001, put number 1, 2, 3, and 6 to ON position, as illustrated below.



Figure 5-3 DIP switch setting diagram

Table 5-1 485 address setting table

Place Address	Switch Setting					
	1	2	3	4	5	6
Address No.	1	2	4	8	16	32
01	ON	OFF	OFF	OFF	OFF	OFF
02	OFF	ON	OFF	OFF	OFF	OFF
03	ON	ON	OFF	OFF	OFF	OFF
04	OFF	OFF	ON	OFF	OFF	OFF
05	ON	OFF	ON	OFF	OFF	OFF
06	OFF	ON	ON	OFF	OFF	OFF
07	ON	ON	ON	OFF	OFF	OFF
08	OFF	OFF	OFF	ON	OFF	OFF

09	ON	OFF	OFF	ON	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF
17	ON	OFF	OFF	OFF	ON	OFF
18	OFF	ON	OFF	OFF	ON	OFF
19	ON	ON	OFF	OFF	ON	OFF
20	OFF	OFF	ON	OFF	ON	OFF
21	ON	OFF	ON	OFF	ON	OFF
22	OFF	ON	ON	OFF	ON	OFF
23	ON	ON	ON	OFF	ON	OFF
24	OFF	OFF	OFF	ON	ON	OFF
25	ON	OFF	OFF	ON	ON	OFF
26	OFF	ON	OFF	ON	ON	OFF
27	ON	ON	OFF	ON	ON	OFF
28	OFF	OFF	ON	ON	ON	OFF
29	ON	OFF	ON	ON	ON	OFF
30	OFF	ON	ON	ON	ON	OFF
31	ON	ON	ON	ON	ON	OFF
32	OFF	OFF	OFF	OFF	OFF	ON
33	ON	OFF	OFF	OFF	OFF	ON
34	OFF	ON	OFF	OFF	OFF	ON
35	ON	ON	OFF	OFF	OFF	ON
36	OFF	OFF	ON	OFF	OFF	ON
37	ON	OFF	ON	OFF	OFF	ON
38	OFF	ON	ON	OFF	OFF	ON
39	ON	ON	ON	OFF	OFF	ON
40	OFF	OFF	OFF	ON	OFF	ON
41	ON	OFF	OFF	ON	OFF	ON
42	OFF	ON	OFF	ON	OFF	ON
43	ON	ON	OFF	ON	OFF	ON
44	OFF	OFF	ON	ON	OFF	ON
45	ON	OFF	ON	ON	OFF	ON
46	OFF	ON	ON	ON	OFF	ON
47	ON	ON	ON	ON	OFF	ON

48	OFF	OFF	OFF	OFF	ON	ON
49	ON	OFF	OFF	OFF	ON	ON
50	OFF	ON	OFF	OFF	ON	ON
51	ON	ON	OFF	OFF	ON	ON
52	OFF	OFF	ON	OFF	ON	ON
53	ON	OFF	ON	OFF	ON	ON
54	OFF	ON	ON	OFF	ON	ON
55	ON	ON	ON	OFF	ON	ON
56	OFF	OFF	OFF	ON	ON	ON
57	ON	OFF	OFF	ON	ON	ON
58	OFF	ON	OFF	ON	ON	ON
59	ON	ON	OFF	ON	ON	ON
60	OFF	OFF	ON	ON	ON	ON
61	ON	OFF	ON	ON	ON	ON
62	OFF	ON	ON	ON	ON	ON
63	ON	ON	ON	ON	ON	ON

• Restoring factory setting

 If you forget the IP address of the C3-X00 Plus series panel or the device does not work normally, you can use the number 7 DIP switch to restore it to factory default settings. The parameters which gets reset are device IP address, communication password, gateway, and subnet mask.

Note: Restoring the factory settings will empty the user data, please be careful.

- 2. The switch is OFF by default. When it is moved up and down for three times within 10 seconds and f inally returned to OFF position, the factory settings will be restored after the access control panel is restarted.
- 3. The procedure is shown below.



To reset factory settings Turn #7 switch ON and OFF Repeat process **3** times

Default Position

Final Position

Figure 5-4 DIP switch setting diagram

• RS485 Terminal Resistance

To eliminate signal attenuation in communication cables and suppress interference, if the bus is longer than 200 meters, set the number 8 DIP switch to the ON position. The number 8 DIP switch is for setting the RS485 termination resistance. This is equivalent to a parallel connection of one 1200hm resistance between the 485+ and 485- lines.



Distance: More than 200 meters



MULTI C3-X00 Pro Plus

Figure 5-5 Restoring factory setting

6 Login to the Web Server

To help users conveniently manage controllers, the built-in Web Server function is added to some models. With this function, a user can connect to the controller through a PC, and enter the IP address of the controller to access the web. Users can also use the Web Server function to perform other operations, such as network configuration, Push communication configuration, time synchronization, and user account management.

6.1 Login Web Server

1. Connect the controller to the network or PC, start the browser, enter the IP address of the controller, which is **https://192.168.1.201** by default. Then you can visit the Web Server.



2. When Web Server is used, "User Name" and "Password" should be set firstly. The default "user name" is **admin** and the default "password" is **zkteco@12345**.

) User Name	
) Password	6
) Password	

3. Click Sign In to access the Web Server.

Notes:

- 1. IP addresses of both the server (PC) and the controller must be in the same network segment.
- 2. IP address of the controller could be found by searching devices with the BioSecurity software ([Access Access Device Device Search Device]).

6.2 Basic Operation Bar of the Web Server

Welcome admin	Ð	\$ <u>`</u> }	i	?	Ċ
---------------	---	---------------	---	---	---

- Change of the Administrator's Password
- **1.** Click 0 to modify the password.
- 2. Enter the old and new passwords in the pop-up window and click **Confirm** to change the administrator login password.

odify Password		Cl
User Name:	admin	Enter a string of 4-16 characters!
Old Password:		Enter a string of 8-16 characters!
New Password:		Enter a string of 8-16 characters!
Confirm New Password		Enter a string of 8-16 characters!
-At least 1 Lowercase L -At least 1 Uppercase L -At least 1 Number	etter acter are !@#\$%&*()+	

• Language Settings

Click ^{Confirm}, change the language in which the server interface is displayed, and click **Confirm**.

Personality			Clos	e
Language:	English		~	
	English Latin-Spa	anish		
C	onfirm	Cancel		
	Confirm	Cancel		

• Use Conditions of the Server

Click (i), and you can view the version of the current server, as well as thebrowser and resolution recommended for the server.



• Online Help of the Server

If you met some problems when using the server, click ? to view or download the user help document.

WEB Help Do	cument
WEB Version: 2.0.2	
Date: Mar 2024	
Note:For other information	not mentioned here, please read related user manual.
<u>Login Web Server Basic Op</u>	eration Network Settings Communication Settings System
1. Login Web Serv	er
• 1. Connect the controll	er to the network or PC, start the browser, enter the IP address of the controller, which is 192.168.1.201 by default. Then you can visit the Web Serv
ZKTeco Webserver	× +
$\leftarrow \rightarrow$ C \textcircled{a}	Q 192.168.1.201
• 2. When Web Server is	used, "user Name" and "Password" should be set firstly.The default "user name" and "password" are admin.
7	
Z	KTECO
8 User Name	
Password	Q
	Sign In

• Exit

Click , and then click Confirm to return to the server login page.



6.3 Network Settings

• TCP/IP Settings

Network Settings	TCP/IP Settings	
TCP/IP Settings		
Communication Settings	IP Address	10.8.16.166
System	Subnet Mask	255.255.255.0
	Gateway	10.8.16.1
	Primary DNS	0.0.0.0
		Confirm

Function introduction:

Set the TCP/IP communication parameters, which are used in the communications between device and PC.

> Operating steps:

- 1. Click Network Setting > TCP/IP Settings.
- 2. Input the device's IP address, Subnet Mask, Default Gateway.
 - IP address: the default IP is 192.168.1.201, and you can modify according to the actual.
 - Subnet Mask: the default subnet mask is 255.255.255.0, and you can modify according to the actual.
 - Default Gateway: the default gateway is 0.0.0.0, and you can modify it according to the actual.
 - **Primary DNS:** the default value is null, and you can set its value.
- 3. Click **Confirm** to write parameters into the device. please restart the device by manual.

• Communication Settings

PUSH Server Settings

Network Settings	PUSH Server Se	ettings
Communication Settings		
PUSH Server Settings		Domain Mode
Port Settings	IP Address:	0.0.0.0
Communication Password	Port:	80
System		Confirm

PUSH Server: Indicates that the controller proactively pushes information to the server.

IP Mode:

- **IP Address:** the default server IP is 0.0.0.0, and you can modify it according to the actual.
- **Port:** The default Port is 80, and you can modify it according to the actual.

Network Settings	PUSH Server Set	tings
Communication Settings		
PUSH Server Settings		🕗 Domain Mode
Port Settings	Domain Name:	https://0.0.0.0:80
Communication Password		Confirm
System		

Domain Mode: The default value is null, and you can set its value.

Port Settings

Network Settings	Port Settings	
Communication Settings		
PUSH Server Settings	HTTPS Port:	443
Port Settings		Confirm
Communication Password		
System		

Http Port: Indicates that the client initiates an HTTP request to a specified port on the server. the default HTTP Port is 80, and you can modify it according to the actual.

• Communication Password

Network Settings	Communication Password	
Communication Settings		
PUSH Server Settings	Old Password: Enter a string of 2-6 cha	racters!
Port Settings	New Password: Enter a string of 2-6 cha	racters!
Communication Password	Confirm New Password: Enter a string of 2-6 cha	racters!
System	Confirm	

Communication Password: Indicates that network communication is encrypted. The default value is null, and you can set its value.

If you configure the communication password here, the same communication password must be configured on the server before the connection can be set up.

• System

User Settings

Network Settings	User Setting	S	
Communication Settings	Add		
System			
User Settings	User Name	Note	Operation
Data Encryption	admin	You can perform any configuration	Edit
Time Settings			
System Settings			
Device Information			
Operation Log			
Load Certificate			

Click Edit to change the login password of an administrator or a user.

Data Encryption

ave to
51
sl
sl

Data Encryption: This feature ensures user data is encrypted and stored securely in the device firmware, preventing unauthorized access. By default, data is encrypted, and users can customize the encryption password (after modification, the communication password will be restored to the default password for data re-synchronization).

<u>Time Settings</u>

Network Settings	Time Settings	
Communication Settings		
System	Current Time: 2	024-06-27 00:36:55
User Settings	O Manual Setting	
Data Encryption	Date:	2024-6-27
Time Settings	Time:	0:36:39
System Settings	Synchronization with PC Time	
Device Information	PC Time:	2024-06-26 16:35:22
Operation Log	PC Time.	2027-00-20 10:30:22
Load Certificate	Confirm	

You can manually configure the controller time or synchronize the controller time with the PC time, and click Confirm to complete the setting.

System Settings

Network Settings	System Settings	
Communication Settings		
System	Reboot Device	Reboot
User Settings		
Data Encryption		
Time Settings		
System Settings Device Information		
Operation Log		
Load Certificate		

Click **Reboot**. The device will be restarted.

Device Information

Network Settings	Device Information	
Communication Settings		
System	Device Name:	Inbio260 Pro Plus
User Settings	Serial Number:	PQU8242100002
Data Encryption	Platform:	ZMM200_INBIOPRO
50 1	Firmware Version:	AC Ver 19.0.5 May 20 2024
Time Settings	Facial Algorithm Version:	35.4
System Settings	Reader Facial Algorithm Version:	
Device Information	Maximum user count:	100000 Remaining Capacity:100000
Operation Log	Maximum fingerprint count:	20000 Remaining Capacity:20000
Load Certificate	Maximum log count:	500000 Remaining Capacity:499992
	MAC Address:	00:17:61:20:02:D4
	IP Address:	192.168.1.201
	Subnet Mask:	255.255.255.0
	Gateway:	192.168.1.254
	Primary DNS:	
	TCP Port:	14370
	HTTPS Port:	443

You can view the basic information, remaining capacity, and network information of the current device.

Operation Log

vstem	Starting Time		(YYYY-MM- Ending DD) Time		(YYYY-MM- DD)	Download
Jser Settings						
Data Encryption	User	Operation	Time	Previous Value	New Value	Results
īme Settings	admin	login	2024-06-27T00:36:34			SUCCESS
system Settings	admin	login	2024-06-27T00:05:13			success
Device Information	admin	login	2024-06-26T22:29:22			SUCCESS
operation Log	admin	login	2024-06-26T21:41:05			SUCCESS
oad Certificate	admin	modify user password	2024-06-26T21:40:54	admin	admin	SUCCESS
	admin	login	2024-06-26T21:39:53			SUCCESS
	admin	login	2024-06-26T21:39:45			failed
	admin	login	2024-06-23T00:05:07			failed
						1/1

Users can view and download webserver operation logs here.

Load Certificate

Network Settings	Load Certificate
Communication Settings	
System	Please specify a certificate file (*.crt) browser
User Settings	Please specify the private key file (*,key) browser
Data Encryption	
Time Settings	Confirm
System Settings	
Device Information	
Operation Log	
Load Certificate	

This feature enables users to upload their authenticated browser certificate for accessing the C3 Plus series's webserver.

7 Connect to ZKBioCVSecurity Software

7.1 Set the Communication Address

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

ZKBio CVSecurity	::: ж	Ø	\rm edmin ~	
🕸 System Management >	System / Communication management / Communication Monitor			
Authority Management >	Adms Service Settings	Ims Service Settings	ition	
💿 Communication mana 🗸				
Device Commands Communication Device Product Authorized device Communication Monitor	Adms Service Port 8088 The current port is for device communication service, if there is a network mapping for service port, please refer to the actual mapped port. Project control file version None Turn on encrypted transmission No O Yes	the		
	Server Side Network Condition Whether the Internet connection is normal Yes]		

7.2 Add Device on the Software

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

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

KBio CVSecurity	::: ¥								0	e admir
Access Device 🗸 🗸	Access / Access Dev	rice / Device								
Device	Device Name	Serial N	umber 6	IP Ac	dress	Mor	e∗ Q @			
I/O Board		-		1			_			
Door	O Refresh 📑		· .	1			Communication			
Reader	Device Na	me Serial Number	Area Name	IP Address	Status Devic	e Model Reg	ister Device Firm	ware Version Commands Lis	t Ope	erations
Auxiliary Input	6				Search				×	前民
Auxiliary Output	Search	No device found? Download	Search Tools to	Local Disk						<u>i</u> 🖪
Event Type	Total Progress	100%		Searched device Number of device						<u>i</u> 🖪
Daylight Saving Time	IP Address	Device 1	уре	Serial N	umber	(\otimes			<u>i</u> 🗟
Real-Time Monitoring	« IP Address	MAC Address	Subnet Mask	Gateway Add	Serial Number	Device Type	Set Server	Operations		<u>i</u> 🖪
Alarm Monitoring	18.8.16.299	08-17:61:12:PE 89	295.295.255.0	10.4.16.1	8RI0215280803	Inélia 468 Pro	http://10.0.10.8710	NR Add Modify IP Address	^	前 昆
Мар	10.0.10.0	08.11.81.11.12.40	201.201.204.0	10.8.18.1	MIRN 43 811 000 03	C3-400 Pro P	lus 🧧	Add Modify IP Address		前民
	10.0.95.30	08:17:01:12:76:38	295,295,295,9	10.8.16.1	5810215250002	In510468 Pro	Mar 210.8.17.12	5.8 Add Month P.Address		
	18.8.10.57	08:17:61:12:59:34	295.295.255.0	10.8.16.1	7705201040000	in#10548	NEX-1/10-0-18-148	80 This device has been added		
	10.0.10.04	28.11.81.11.17.32	201.201.201.0	10.8.10.1	OV18242100801	Indiated Pro 1	- 1894-010-0-00-00	TH ARE MORT PARAME		
	18.8.95.98	00.17101.10.4634	295,295,295,9	10.8.18.1	MR01241100004	16840 173061	Mar (210.8.51.15	4.8 Add Mosth P.Address		
	18.8.10.98	08-17:61:11:02:29	265,265,254,0	10.8.18.1	SRF1242808014	InBioP3040	http://10.0.55.253	NO Add Modify IP Address		
Access Rule >	A The current s	system communication port is 8	1088, please make si	ire the device is set	correctly.	0 T		+er: a e ea.a		
Advanced Functions >					Close	5				
										_

7.3 Add Personnel on the Software

sonnel 🗸	Personnel / Personnel / Person								
sonnel 🗸 🗸									
ion	Department Name	Personnel ID	Name	Мо	re = Q 🖉				
artment									
tion	2 ⁷ 7 ⁴	C Refresh ∓ New 🖁	Personnel Adjustm	ents 👻 🛍 Delete 👻		± Import * … Mor	e *		
ssed Personnel			New				× ^{ode}	Enable	App logir
Review	Personnel ID* [661247		Department*	部门名称	•	0		0	0
ributes	First Name		Last Name					0	•
utes	Gender	•	Mobile Phone					0	
	Certificate Type	-	Certificate Number					0	•
	Birthday		Email Position Name					0	•
	Hire Date Device Verification Password		Card Number		• 6	Browse Capture		0	•
	Biometrics Type	C 3	WhatsApp					0	
	«								
	Access Control Time Attenda	ance Elevator Control	Plate Register	Passage Setting	FaceKlosk	Locker Setting	•	0	•
	Levels Settings			③ Superuser	No			0	•
	General			Device Operation Role	Ordinary User	-		0	•
				① Extend Passage				0	0 0 0 0 0 0 0
			(Access Disabled Set Valid Time					
				Set valid Time				0	•
								0	0
								0	•
	Add Select A	Unselect All							
								0	0
								0	0
		Save and New	OK	Cancel			_	0	0

1. Click **Personnel** > **Person** > **New** to register a new user.

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

ZKBio CVSecurity		: #							08	admin
Access Device ~	Ac	cess / Acces	s Device / Dev	ice						
Device		Device Name		Serial N	umber		IP Address		More - Q 6	2
I/O Board		O Refresh	Ξ∓ New 🗊	ÎDelete <u>↑</u> E	oprt Q Searc	h	🖳 Control 🔻 @ Set up 👻	Ea View / Ge	et 👻 🜻 Commun	cation 💌
Door			e Name	Serial Numbe		IE	Clear Administrator Permission	e Model	Register Device	Firmwar
Reader			6.174	00164242190	Hi Area Name	1	S Clear Command	t Terminal	0	ZAMINO
Auxiliary Input	1		68.107.65	0044242100	12 Area Name	1	Upgrade Firmware	dPalm V54	•	284180
Auxiliary Output			0.131.00	March 11 and 10 March	C. Alex Maller	4	* Reboot device	t Televisial	•	ZAMTE-
Event Type							Ge Synchronize Time			
Daylight Saving Time			16.162	0500184360	15' Area Name	1	✓ Enable	different fil	•	3.0.1.99
Real-Time Monitoring	«		10.57	77352016480	oli Ana Nama	1	S Disable)6 4	•	AC Yer
Alarm Monitoring	9		an tair an	VORGALITIES	0° AND NAME	1	G Synchronize All Data to Devices	THINK A	•	23.6710-
Map		182.1	55,162,102	YM 83241000	C. Area Name	15	2.158.152.192 Office See	editain VSI	0	244110

7.4 Mobile Credential★

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

 In 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.

ZKBio CVSecurity	::: ¥	🧔 😫 admin ~
😭 System Management 🗸 🗸	System / System Management / Parameters	
Operation Log Data Management Area Settings E-mail Management Dictionary Management Data Cleaning Resource File Cloud Settings Certificate Type Print Template System Monitoring Message Notification	C Code Setting	OR Code Setting DateTime Format Settings Video watermark Personal sensitive information pro Privacy Policy
	Date Time Format Settings	
	Date	
	2022-01-01	
Authority Management >	Time	
Communication mana >	00.00.00 · · ·	*
A Third Party Integration >		

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

System Management	System / Authority Management / Client Register
🔞 Authority Management 🥾	Registration Code Client Type APP Client-Staff Activation Q
User	C Refresh III New 2 Reset III Delete
Role	Registratio Client name Registration Key Activ Activated D Creation Date Client Type Operations
API Authorization	New × 4-06-25 2024-06-25 14:48 APP Client-Ad 💼
Client Register	Client Type*
Security Parameters	Registration Code" 313ADA 4-06-24 2024-06-24 13:50 APP Client-Ad 💼
	4-06-21 2024-06-21 14:34 APP Client-Sta
	≪ □ 4-06-20 2024-06-20 15:51 APP Client-Sta
	4-06-20 2024-06-20 15:12 APP Client-Sta
	Cancel 4-06-19 2024-06-19 17:07 APP Client-Sta
	2024-06-18 2024-06-18 16:19 APP Client-St:

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



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

- **6.** Tap **Mobile Credential** on the App, and a QR code will appear, which includes employee ID and card number (static QR code only includes card number) information.
- 7. The QR code can replace a physical card on a specific device to achieve contactless authentication to open the door.



8. 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:



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



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

8 Connect to ZKBio CVAccess Software

8.1 Set the Communication Address

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

ZKBio CVAccess	::: ¥
🞕 System Management >	System / Communication management / Communication Monitor
Authority Management >	Adms Service Settings
© Communication mana	Adms Service Port
Device Commands	8881
Communication Device	The current port is for device communication service, if there is a network mapping for the service port, please refer to the actual mapped port.
Communication Monitor	Project control file version
	None
	Turn on encrypted transmission
	No Yes
	*
	Server Side Network Condition
	Whether the Internet connection is normal
	Yes

8.2 Add Device on the Software

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

- 1. Click Access > Access Device > 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.
- 4. Click **Add** in operation column, a new window will pop-up. Select Icon type, Area, and Add to Level from each dropdown and click **Confirm**, then the added devices are displayed automatically.

JZKBio CVAccess		admin 🗸						
📕 Access Device 🗸 🗸	Access / Access Device / Device							
Device	Device Name Serial Number							
I/O Board	C Refresh ∓ New @ Delete ↑ Export Q Search @ Control * @ Set up * ⓑ View / Get * € Communication *							
Door		ations						
Reader	Search	^						
Auxiliary Input	Search No device found? Download Search Tools to Local Disk	 <u></u>						
Auxiliary Output	Totel Progress 100% Searched devices count 2 Number of devices added 2	前 !						
Event Type	IP Address Device Type Serial Number 🛞							
Daylight Saving Time	IP Address MAC Address Subnet Mask Gateway Add Serial Number Device Type Set Server Operations							
Real-Time Monitoring	15.0.16.100 OD 17.01.10.39.00 216.256.256.0 10.0.16.1 AJ13224040001 INBI0200.PKG MQALVELT2.0.218.0 THe bence had been added							
Alarm Monitoring								
Мар								
	▲ The current system communication port is 8881, please make sure the device is set correctly.							
		-						
		_						

8.3 Add Personnel on the Software

4. Click **Personnel** > **Person** > **New** to register a new user.

ZKBio CVAccess	##					Ø 😝 admin 🗸
📥 Personnel 🗸 🗸	Personnel / Personnel / Person					
Person	Department Name	Personnel ID	Name	•	More *	Q @
Department	x ⁷ 2 ⁴	C Refresh T New	La Personnel Adjustr	ments 🐐 前 Delet	te * 1 Export	- ⊻ Import More -
Position			New			
Dismissed Personnel						
Pending Review	Personnel ID*		Department*	Sanutre	•	
Custom Attributes	First Name		Last Name			
	Gender	<u>7</u>	Mobile Phone Certificate Number			
Parameters	Certificate Type		Email		_	
	Hire Date		Position Name			
	Device Verification Password		Card Number		ය	Browse Capture
	Biometrics Type	\$ 0				
	•					
	Access Control Time Atte	ndance Personnel Detail				•
	Levels Settings		O Supe	ruser	No	¥ ,
	General		Devic	e Operation Role	Ordinary User	•
	C3 or InbioX60 Pro Plus		() Exter	nd Passage		
	2					
	🗹 admin		Set V	/alid Time		
	 TEST 123 F09 					
	Z Demo					
	Add Select A	Unselect All				
		Save and New	ОК	Cancel		
						T
		< د د ۲-50 ک	>I 50 rows per pag	e - Jump To 1	/1929 Pa	pe Total of 96435 records
Card Management >	and a second					

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

I/O Board					More - Q		
Door	Refresh I New	ı́nā Delete ⊥ Export Q Search		≅ View / Get	 Communit 	cation ~	
Reader	Device Name	Serial Number Area Name IF	Clear Administrator Permission	e Model	Register Device	Firmware Version	Cor
	10.8.16.169	ACYS254060001 Area Name 1	Clear Command	Pro	•	AC Ver 19.0.4 Mar 5 2	353
Auxiliary Input		CONTRACTOR CONTRACTOR	Upgrade Firmware	JOPro Plus	•		
Auxiliary Output	<u>192.168.1.0</u>	A/05041200001 0404 1	Reboot device	JUPPO PIUS	•	AC Ver 19.0.4 Mar 13	418
Event Type			Ge Synchronize Time				
Daylight Saving Time			✓ Enable				
Real-Time Monitoring			◎ Disable				
Alarm Monitoring			() Synchronize All Data to Devices	1			
Мар		,					

8.4 Mobile Credential★

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

 In ZKBio CVAccess > 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.



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

J ZKBio CVAccess		¥				
🎕 System Management >	System	/ Authority Management / C	lient Register			
🏮 Authority Management 🗸	Regis	tration Code	Client Type	▼ Act	ivation	•
User	OR	efresh 👍 New 🖸 Res	et 🛍 Delete			
Role		Registratio Client nar	ne Registration Key Activ	Activated D	Creation Date	Client Type
Client Register			New	×	2024-06-21 02:40	APP Client
Security Parameters		Client Type*	¥	4-06-06	2024-06-06 14:55	APP Client
		Registration Code*	AEB21E		2024-06-06 02:57	APP Client
				4-05-18	2024-05-18 01:53	APP Client
					2024-04-30 09:30	APP Client
	« D			4-04-17	2024-04-17 19:34	APP Client
		ОК	Cancel		2024-04-14 22:36	APP Client
		6034C2			2024-04-02 22:57	APP Client

 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.

Note: Smartphone and the Server must be in the same network segment.

- 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's name and tap **Connection Test**.
- 5. After the network is connected successfully, tap **Save**.

	Please enter server domain name	or IP
	Please enter the port number	
p.u d.t	Registration Code	8
8	Client Name	
	Testing Connection	



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



8. 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:



9. The QR code refreshes automatically for every 30s and supports manual refresh.



Note: For other specific operations, please refer to ZKBio CVAccess User Manual.

9 Privacy Policy

Notice:

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

Before using our products and services, please read carefully and understand all the rules and provisions of this Privacy Policy. <u>If you do not agree to the relevant agreement or any of its</u> <u>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. How we handle personal information of minors

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

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

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

IV. Others

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

10 Eco-friendly Operation

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

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

	Hazardous/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	0	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

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

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

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

ZKTeco Industrial Park, No. 32, Industrial Road,

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