

# **User Manual**

# **InBioPC** 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 InBioPC400/InBioPC800.

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. <b>OK</b> , <b>Confirm</b> , <b>Cancel</b> .	
>	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, m <mark>enu items, data</mark> table, and field names are inside square brackets. For example, pop up the [New User] window.	
1	Multi-level menus are separat <mark>ed by</mark> forwarding slashes. For example, [File/Create/Folder].	

#### Symbols

Convention	Description
	This represents a note that needs to pay more attention to.
÷	The general information which helps in performing the operations faster.
*	The information which is significant.
<b>e</b>	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 Notes

- 1. Before operating the device, please read and strictly follow all security and operation instructions. Please keep the instructions in good condition for future reference.
- 2. Please use the accessories recommended by the manufacturer or delivered together with the product. Any other related product is not recommended to be used as the alarm or monitoring system (cameras, infrared detectors, smoke detectors, etc.). The alarm or monitoring system should comply with the local applicable fire-prevention and security standards.
- 3. Do not place this device on any unstable table, tripod mount, supterminal or base to prevent the device from falling and damages, and more undesirably causing severe personal injuries. Therefore, it is important to install the device as instructed by the manufacturer.
- 4. All peripheral devices must be grounded.
- 5. No external connection wires can be exposed. All connections and idle wire ends must be wrapped with insulating tapes to prevent accidental contact with exposed wires from damaging the device.
- 6. Do not attempt to carry out unauthorized repair of the device. Disassembly or detachment is likely to cause electric shock or other physical problems. All repair should be done by qualified repair personnel.
- 7. In any of the following cases, disconnect the power supply from the device first and notify qualified repair personnel for repair:
  - The power cord or connector is damaged;
  - Liquid leaks into or any objects fall into the device;
  - The device has got wet or exposed to bad weather (rain, snow, etc.);
  - If the device cannot work normally even though it is operated as instructed;
  - The device falls down or its performance changes obviously.
- 8. If it is necessary to replace a component, the repair personnel must use only the substitutes specified by the manufacturer.
- 9. After the device is repaired, the repair personnel needs to conduct security inspection to ensure the device works normally.
- 10. Operate the device with only the type of power supply indicated on the label. Contact the operator for any uncertainty about the type of power supply.

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Violation of any of the following cautions may result in personal injury or device malfunctions. We assume no responsibility for any damage caused by mishandling that is beyond normal usage defined in this product manual.

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

### **1.2** Installation Cautions

- Network cable selection must be Super Category 5 network cable oxygen-free copper material above specifications, core nominal diameter 0.5mm. 100 meters of single wire resistance is less than 10 ohms. Try to choose a higher specification network cable (such as Category 6 oxygen-free copper material), reserve enough margin to meet the maximum load requirements.
- 2. All wiring must be sleeved, optional PVC pipe and galvanized pipe, to avoid mice bite off the line caused by failure. Although the controller has a good anti-static, lightning, leakage-proof design, please make sure that the controller chassis and AC ground connection is perfect, and the AC ground is truly grounded.
- 3. It is recommended not to plug and unplug connection terminals frequently when the system is energized. Be sure to unplug the connection terminals before starting any relevant welding job.
- 4. Do not detach or replace any control panel chip without permission because unprofessional operation may cause damage to the control panel.
- 5. It is recommended not to connect any other auxiliary devices without permission. All non-routine operations must be confirmed with our engineers in advance.
- 6. A control panel should not share one power socket with any other large-current devices.
- 7. It is preferable to install card readers and buttons at a height of 55 inches to 59 inches (1.4m to 1.5m) above the ground, subject to proper adjustment according to customers' usual practice.
- 8. The device is recommended to be installed in an easy-to-maintain location such as a server room or weak well.
- 9. The exposed part of any connection terminal is strongly recommended not be longer than 0.16 inches (4mm). Professional clamping tools may be used to avoid short-circuit or communication failure resulting from accidental contact with excessive exposed wires.
- 10. If you need to keep a record of access control events, periodically export the data from the controller.
- 11. Prepared countermeasures against unexpected power failure, like selecting power supply with UPS.

- 12. In order to prevent the self-induced electromotive force generated by the electric lock at the moment of switching on and off from affecting the access control system, it is necessary to connect a diode in parallel with the electric lock (please use the FR107 diode supplied with the system) to release the self-induced electromotive force generated at the moment of switching on and off of the electric lock during the wiring of the access control system on-site application.
- 13. It is recommended to use the power supply delivered with the system as the control panel power supply.
- 14. In a place with strong magnetic interference, galvanized steel pipes or shielded cables are recommended, and proper grounding is required.

## 2 Overview

The InBioPC Main Controller is the pinnacle of access control technology, offering seamless integration with DE-10 Door Units and supporting up to 4/8 access points. Engineered for high-speed TCP/IP communication, it ensures efficient and reliable data transfer. The onboard webserver, accessible via Wi-Fi, simplifies system configuration, providing unparalleled ease of use. Compliant with power over Ethernet (PoE IEEE802.3 and PSE@30W) standards, the InBioPC can power up to 4/8 DE-10 Door Units, delivering both performance and convenience.

This advanced controller boasts a suite of sophisticated access control functions and supports dynamic QR code generation through the ZKBio CVSecurity Mobile Applications, enhancing security and user experience. With support for InBioPC offers versatile authentication methods to meet diverse security needs. Its compatibility with the ZKTeco A&C push protocol ensures seamless communication with ZKBio CVSecurity software.

Operating within a wide voltage input range of AC 100V~240V, the InBioPC is designed for global deployment. It incorporates high-security data encryption methods, including HTTP / HTTPS, SSH, AES256, and TLS 2.0, safeguarding sensitive information. Supporting both Wiegand readers (formats: W26 / W34 / W66) and RS485 card readers (protocol: ZKTeco RS-485), it provides flexible connectivity options.

Furthermore, the InBioPC is designed in a standard 1U server rack size, ensuring compatibility with standard server rack installations. This makes it an ideal choice for organizations looking to deploy a robust, scalable, and secure access control solution.





### 2.1 Features

- Seamlessly integrates with DE-10 Door Units, supporting up to 4/8 access points.
- Supports high-speed TCP/IP communication for efficient data transfer.
- An embedded onboard webserver is available for system configuration and is accessible via Wi-Fi.
- Complies with IEEE 802.3 at PoE and PSE@30W standards to power up to 4/8 DE-10 Door Units.
- Equipped with advanced access control functions for enhanced security.
- Supports dynamic QR code generation with ZKBio CVSecurity Mobile Applications.
- Supports multiple credential options, including biometrics, RFID, and password.
- Compatible with the A&C push protocol.
- Operates with a wide voltage input range of AC 100V~240V.
- Supports high-security data encryption methods such as HTTP / HTTPS, SSH, AES256, and TLS 2.0.
- Supports Wiegand readers (formats: W26 / W34 / W66) and RS485 card readers (protocol: ZKTeco RS-485)
- Designed in standard 1U server rack size to be compatible with standard server rack installation.

## 2.2 Technical Specifications

Menu	Description
Input Voltage	AC110V/240V, 50/60Hz
Number of Doors	InBioPC-400: 4-door InBioPC-800: 8-door
Communication	TCP/IP, Wi-Fi
Ports	Fire Input Interface *1 Alarm Output Interface *1 Auxiliary Input Interface *1 Auxiliary Output Interface *1 Reset Button *1 USB *1 Ethernet Interface * 5 (LAN * 1, 4 POE) – InBioPC-400 Ethernet Interface * 9 (LAN * 1, 8 POE) – InBioPC-800
Storage Capacity	User Capacity: 40,000 Fingerprint Capacity: 4,000 Card Capacity: 40,000 Record Capacity: 200,000
Software	ZKBio CVSecurity 6.3.0_R or above
LED	Support
Operating Temperature	0°C to 45°C
Storage Temperatures	-40°C to 70°C
Operating Humidity	20% to 80%
Noise	< 60dB

**Dimension (mm) (L\*W\*H)** 484mm \* 180mm \* 44mm

## 3 Controller Terminal Description

## **3.1** Description of the LEDs on the Controller Panel

When the InBioPC series controller is powered on, under normal conditions, the POWER indicator (red) is always on, the RUN indicator (green) flashes (indicating a normal system), and none of the other lights are on. However, in the following cases:



Menu	Color	Description
POWER	Red	Red light always on (power supply normal power supply) Red light off (abnormal power supply)
		Green light flashes slowly (system normal)
RUN	Green	Green light flashes fast (firmware upgrade in progress)
		Green light off (dead)
		Green light always on (no data interaction)
LAN	Green	Green light flashing (with data interaction)
		Green light off (abnormal network connection)

FIRE	Red light flashing (with access to fire protection and receiving a short circuit signal) Red light off (have access to fire protection but not receiving short circuit signal)	
AUX IN	Red	Red light blinking (there is access to the auxiliary input and receive a signal) Red light off (auxiliary input accessed but no signal received)
AUX OUT	Red	Red light blinking (there is access to the auxiliary output and output signal) Red light is off (auxiliary output is connected, but no signal is received)

#### The indicators for the access control terminals are as follows:



Menu	Color	Description
DOOR	Green	Green light always on (online status door sensor off/no door sensor) Green light flashing (online status door sensor open) Green light off (offline status)

## **3.2** Appearance and System Components



#### Access Control Terminal:

No.	Description
AUX OUT 9 8 7 11 11 2	Auxiliary output, can be connected to alarm or doorbell, etc. Maximum switching voltage of the contact is 24VDC, maximum switching current is 1A.
AUX IN ⊈ ≟ IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Auxiliary input, can be connected to infrared human body sensing detector, fire alarm or smoke detector, etc. Maximum input voltage 12VDC.

ALARM	Alarm output for alarm connection Maximum switching voltage of the contact is 24VDC, maximum switching current is 1A.
FIRE ± ± ••••	Fire input, external fire button, trigger the fire button, all doors forced normally open Maximum input voltage 12VDC.

#### **Reset:**

No.	Description	
RESET O	<ul> <li>Use a pickup pin to poke the device long:</li> <li>0 &lt; Firmware Upgrade ≤ 5s (Insert the USB flash drive with firmware before poking the device with the pickup pin for a long time)</li> <li>5s &lt; Reboot ≤ 10s</li> <li>10s &lt; Restore Factory Settings</li> </ul>	

#### USB:

No.	Description
	Support plugging in a USB flash drive to upgrade the firmware.

#### **Ethernet Interface:**

No.	Description
	Connect a switch for network communication.

## 3.3 Wire Selection Instructions

Name	Specifications	Maximum Distance
Network Cable	Network cable selection must be Super Category 5 network cable oxygen-free copper material above specifications, single wire 100 meters resistance is less than 10 ohms. Try to choose a higher specification of network cable (such as Category 6 oxygen-free copper material), reserve enough margin to meet the maximum load requirements.	100m

## 4 <u>DE10</u>



Term	inal	Description
BO	POE	Interfaces with the InBioPC series intelligent identification access controller. Compliant with IEEE 802.3at standard, DE10 recommended total output current less than 1.5A to external loads, including VOUT output, 485 reader power output, Wiegand reader power output, electric lock output, auxiliary output and so on.
TO COM NO NO	Auxiliary Output	Connect to alarm or doorbell, etc. Maximum switching voltage of the contact is 24VDC, maximum switching current is 1A.
NI IN- IN- IN-	Auxiliary Input	Connect infrared human body sensor detector or smoke detector, etc. Maximum input voltage 12VDC
GND IN	Tamper Switch	Timely notification to stop illegal dismantling of device. Maximum input voltage 12VDC.
BEEP J GLED WD1 WD0 WD0 WD0 WD0 UD1 WD0 UD1 WD0 HD1 HD1 HD1 HD1 HD1 HD1 HD1 HD1 HD1 HD1	Wiegand Reader (Reader Out)	Maximum output voltage 12VDC, maximum output current 0.5A, maximum input voltage 12VDC

12V GND RE WD0 ADER WD1 ER GLED IN BEEP	Wiegand Reader (Reader In)	Maximum output voltage 12VDC, maximum output current 0.5A, maximum input voltage 12VDC
12V GND EA 485B DER 485A	RS485 Reader	Maximum output voltage 12VDC, maximum output current 0.5A, maximum input voltage 6VDC
IN+ BU IN- T	Exit Button	Connection of door exit button Maximum input voltage 12VDC
IN+ SE IN- Z	Sensor	Connecting door sensor Maximum input voltage 12VDC
NO LOCK NC	Lock	Connecting door lock Maximum switching voltage of contacts 30VDC, maximum switching current 5A
12V O CND T	Power Output	12V power output from DE10 (connected to InBioPC series directly via POE) Maximum output voltage 12VDC, maximum output current 1A

## 4.1 Wire Selection Instructions

Name	Specifications	Maximum Distance
Wiegand	Adopt 6-core communication shielded cable (RVVP 6*0.5mm <sup>2</sup> ) (usually 6-core, 8-core, 10-core, users can choose according to the need of the port), to reduce the interference during transmission	20m
Electric lock	4-core cable (RVV 4* 0.75mm <sup>2</sup> , 2-core power, 2-core door magnet) is used to minimize the impact on other components during the operation of the electric lock	20m
Exit Button	Use of 2- or 4-core cable (RVV 2 * 0.5mm <sup>2</sup> )	20m
RS485 Reader	4-core communication cable (RVVSP 2 * 2 * 0.5mm <sup>2</sup> ) is used	20m with controller power supply
Network Cable	Network cable selection must be Super Category 5 network cable oxygen-free copper material above specifications, core nominal diameter 0.5mm. 100 meters of single wire resistance is less than 10 ohms. Try to choose a higher specification network cable (such as Category 6 oxygen-free copper material), reserve enough margin to meet the maximum load requirements	100m

## 5 Installation

#### Installation in Cabinet

- 1. Attach the Back Plate to the device as shown in the figure below.
- 2. Place the device in the cabinet and secure it with screws.



#### Wall Mount

- 1. Attach the Back Plate to the appliance as shown in the figure below.
- 2. Secure the device to the wall with screws.



## 6 Access Controller Wiring

### 6.1 Connecting the Power Supply

Please use the power supply configured for the InBioPC series controller to supply power from the supplied power supply 100-240V, AC50/60Hz.



*Note:* Before connecting the power supply, please make sure that the controller is well connected to the chassis ground and the AC ground is truly grounded.

### 6.2 Connect a Computer

Connect the InBioPC series controller to the PC software via an Ethernet cable. The wiring is shown below:



*Note:* The default IP address of the primary NIC is 192.168.1.201.

### 6.3 Connecting DE10

InBioPC series and DE10 on the corresponding door only realize data transmission through a network cable with POE power supply, and then connect with the corresponding reader, exit button, lock and other devices through DE10, which perfectly solves the problems of complicated wiring, easy to connect the wrong one, high installation cost, inconvenient maintenance and troublesome wiring.



### 6.4 Connecting Auxiliary Outputs

The InBioPC series provides 1 auxiliary output connector for connecting an audible and visual alarm. Upon receiving signals such as fire alarms or unauthorized intrusions, the alarm will emit audible alerts and visual signals.



### 6.5 Connecting Auxiliary Inputs

The InBioPC series provides 1 auxiliary input port for connecting infrared body sensing detectors, fire alarms or smoke detectors etc.



## 6.6 Connecting the Alarm

The alarm sounds when signals such as fire alarms or break-ins are received.



### 6.7 Connecting the Fire

When the fire protection input interface is short-circuited, all doors of the unit automatically enter the normally open state, the alarm, and the global linkage function (need to be turned on). When the equipment restarts, it does not affect the normal function of the fire fighting interface.



## 7 DE10 Wiring

### 7.1 Connecting the Reader

#### 7.1.1 Connecting the Wiegand Reader

Taking the ProID103 reader as an example, after the InBioPC series is successfully connected to the DE10, connect the Wiegand interface between the DE10 and the ProID103.



#### Note:

- 1. One DE10 has two Wiegand reader interfaces, up to 2 Wiegand readers can be connected, and single door bidirectional can be set up.
- 2. The reader should be installed about 1.4m from the ground and 30 ~ 50mm from the door edge.

#### 7.1.2 Connecting the RS485 Reader

- 1. Shielded twisted-pair cables, which are internationally recognized, must be used. The recommended type of shielded twisted-pair cable is RVVSP4\*0.5. The use of shielded twisted-pair cable helps to reduce and eliminate the distributed capacitance between the two 485 communication lines as well as the common-mode interference generated around the communication lines.
- 2. 485A and 485B data lines must be twisted, DE10 GND, 485A, 485B were connected to the RS485 reader GND, 485A, 485B. wiring must be cloth multi-stranded shielded twisted-pair cable, multi-stranded for backup, shielding is for debugging when a special situation arises, twisted because of the 485 communication using the principle of differential mode communication, twisted anti-jamming of the best.



#### Note:

- 1. A DE10 has one RS485 reader interface and up to 2 RS485 readers can be connected, the RS485 address codes must be 1 and 2.
- 2. The reader should be installed about 1.4m from the ground and 30 ~ 50mm from the door edge frame.
- 3. When DE10 is not connected to the controller's POE port which is set as Master-slave mode or DE10 is in factory default state without prior controller connection, validating any card, password, fingerprint, or QR code on externally connected readers will successfully unlock the door lock for 5 seconds, no access records will be saved. (The controller 's POE port mode can be set on the Webserver)

### 7.2 Connecting the Sensor

Door sensor is used to sense the switching state of the door, the access controller can detect the door being opened illegally through the door sensor switch, and then the alarm will be output. In addition, after opening the door in more than a specified period of time did not close the door, the access controller will also prompt the alarm. It is recommended to choose two-core wire, wire diameter of 0.22 square millimeters or more. If there is no need to know the switching status of the door online and no need for the door to be left open for a long time alarm, break-in alarm and interlock and other functions, the door sensor may not be connected.



### 7.3 Connecting the Exit Button

The exit button is a switching device for opening the door installed inside the room, and the door can be opened when the exit button is closed. The exit button is fixed at about 1.4 meters from the ground, and it should be ensured that the position of the exit button is correct, without distortion, and the wiring is accurate and firm (pinch off the exposed end of the unused wires and wrap them with insulating tape). Be careful to prevent electro sensor interference (such as: lighting switches, computers, etc.). It is recommended to use two-core wires with a cross-section area of 0.3 mm2 or more for the wires connecting the exit button to the controller.



## 7.4 Connecting the Auxiliary Input

The DE10 provides 1 auxiliary input port for connecting infrared body sensing detectors or smoke detectors etc.

#### Infrared Human Body Sensor Detector



## 7.5 Connecting the Auxiliary Output

The DE10 provides 1 auxiliary output connector for connecting an audible and visual alarm.





### 7.6 Connecting the Tamper Switch

The tamper signal of the DE10 is connected to the tamper switch of the cabinet.



### 7.7 Connecting the Lock

- 1. One DE10 supports the control of a number of door locks.
- 2. The system supports both Normally Opened Lock and Normally Closed Lock. The NO Lock (normally opened when powered) is connected with 'NO1' and 'COM' terminals, and the NC Lock (normally closed when powered) is connected with 'NC1' and 'COM' terminals.
- 3. In order to prevent the electric lock from generating self-induced electromotive force on the access control system at the moment of switching, it is necessary to connect a diode in parallel with the electric lock (please use the FR107 supplied with the system) to release the self-induced electromotive force during the wiring of the field application of the access control system.
- 4. The VOUT terminal of the DE10 can supply power to the electric lock, but the lock's current draw must be less than 800mA.



## 8 Access Control System

Please use the power supply configured for the InBioPC series controller to supply power from the supplied power supply 100-240V, AC50/60Hz.



## 9 Login WebServer

The device has a built-in WebServer, which supports setting device parameters and checking device status, etc. on PC and cell phone.

### 9.1 PC

 After the device is connected to power and connected to the network, open a browser and log in to the WebServer by entering the address, which is the <u>https:// IP address</u>. For example: <u>https://192.168.1.201</u>.



Administrator Login
A Username
A Password 6
Login
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2. Enter the WebServer account and password, the default account is: **admin** and the password is: **admin**.

	Administrator Login	
RA	R Admin	
B A	a Admin	ø
	Login	
©	© 2024 ZKTECO CO., LTD. All rights reserved	ved.

InBioPC800										😺 admin
Home     O Device Info	Home									
<ul> <li>Network Configuration</li> <li>Ø System Management</li> </ul>	DEVICE CONT	FIRE ALARM		UNSTRUST INTE	RFACE		AUX IN		AUX OUT	
	DOOR1 DOOR DOOR3	READER IN	READER OUT	Password Modifica * Old password Please enter * New password ③ Please enter	ation	ø	READER IN	READER OUT	aux in	O TUO XUA
	DOOR DOORS	READER IN	READER OUT	* Confirm Psssword Please enter	Car	ø ncel OK	READER IN	READER OUT	AUX IN	AUX OUT
	DOOR7	READER IN	READER OUT	AUX IN	AUX OUT	DOOR	READER IN	READER OUT	AUX IN	AUX OUT
l					<b>6</b>					

*Note:* The system is the initial password, the user logs in or visits the home page, the system reminds to modify the password, modify the success of the need to re-login.

#### **Status Information**

In the opened WebServer page, click **[Home]** to view the status information of all peripheral devices connected to the device such as reader, auxiliary input, auxiliary output, network and door.

InBioPC800										💀 adm
3 Home	Home									
<ol> <li>Device Info</li> </ol>	DEVICE CONT	IROL								
Network Configuration		100 A					÷		*	
System Management		FIRE ALARM		UNSTRUST IN	TERFACE		AUX IN		AUX OUT	
	DOOR1					DOOR2				
		(in)	(0+0) T	٩	۵		()	(···)	٩	٥
	DOOR	READER IN	READER OUT	AUX IN	AUX OUT	DOOR	READER IN	READER OUT	AUX IN	AUX OUT
	DOOR3					DOOR4				
		, the second sec	(00) T	٩	٩	II.	()	(m) +	٢	٩
	DOOR	READER IN	READER OUT	AUX IN	AUX OUT	DOOR	READER IN	READER OUT	AUX IN	AUX OUT
	DOOR5					DOOR6				
	DOOK	READER IN	READER OUT	AUX IN	A0X 001	DOOK	READER IN	READER OUT	AUX IN	ADX ODT
	DOOR7					DOOR8				
	DOOR					DOOR				
	DOOK	NEADEN IN	READER OUT	893.01	A0A 001	DOOK	NEADEN IN	NEADER OUT	A0A IN	A0A 001
					@ 2024 ZKTECO	CO., LTD. All rights rese	rved.			
					0					

#### **Device Information**

Click [Device Info] to browse the basic information and time information of the device.

InBioPC800				🙀 admin
Home     O     Device Info	Device Info			
Network Configuration	Basic Info			
System Management	Device Name : InBioPC800 Firmware Version : AC Ver 20.0.10 Jul 23 2024	Serial Number: QAQ4242200004	MAC Address: 00:17/61:13:24:43	
	Time Info			
	NTP State: Close Device Time: 2024-07-25 15:07:41	NTP Server Address: Device Timeing: Start Sync	Time Zone: UTC+0000	
		© 2024 ZKTECO CO., LTD. All rights reserved.		

#### **Network Configuration**

Click [Network Configuration] > [TCP/IP Setting] to change the IP address of the device, and you need to log in again after changing the IP address.

InBioPC800				👽 admin
Home     O     Device Info	Network Configuration			
Network Configuration	TCP/IP Setting Service Setting			
🕸 System Management	IP Address:	192.168.1.201		
	Subnet Mask :	255.255.255.0		
	Gateway Address :	192.168.1.1 ©		
	DNS:	8.8.8.8		
		Save		
			© 2024 ZKTECO CO., LTD. All rights reserved.	
•				

Click [Network Configuration] > [Service Setting] to support devices to connect to the server, such as ZKBioCVSecurity.

InBioPC800				😯 admin
Home     Device Info	Network Configuration			
Network Configuration	TCP/IP Setting Service Setting			
System Management	Server Mode :	IP Mode V		
	Connection Method:	HTTPS V		
	IP Address :	192.168.1.50		
	Port:	8088		
		Save		
			(2024 ZKTECO CO., LTD. All rights reserved.	
1				

#### System Management

Click **[System Management]** to support setting device POE port mode, setting Wi-Fi hotspot and reboot/restore factory settings/device upgrade.

🕴 InBioPC800		👽 admin
Home	System Management	
<ol> <li>Device Info</li> <li>Network Configuration</li> </ol>	Port Setting Hotspot Setting System Maintenance POE Status Network Detection-PING	
System Management	POE-1: Master-slave mode V	
	POE-2: Master-slave mode Switch mode	
	POE-3: Master-slave mode	
	POE-4: Master-slave mode	
	POE-5: Master-slave mode	
	POE-6: Master-slave mode	
	POE-7: Master-slave mode	
	POE-8: Master-slave mode	
	The switch of network port mode requires a restart of the changed network port to take effect, which will cause the POE power supply and network to be disconnected for a few seconds before automatically recovering!	

**Note:** The POE port can be set as Master-slave mode or Switch mode. The switch of network port mode requires a restart of the changed network port to take effect which will cause the POE power supply and network to be disconnected for a few seconds before automatically recovering!

#### 9.2 Phone

There is no need to enter the IP address of the device on the cell phone. After the device is connected to the power supply and the network, the cell phone should be close to the device, find the hotspot of the device (by default, it is the serial number of the device), and then click on it and enter the WebServer account and password in the pop-up login interface.



## **10** Connecting to ZKBio CVSecurity

The device connects to ZKBio CVSecurity by setting up ZKBio CVSecurity-related information in [Web Configuration] > [Server Settings] of the WebServer (no need to set up if the device and the server are in the same network segment). The device can add devices, set up access control rules, set up global anti-passback, linkage, interlocking, and other access control operations on ZKBio CVSecurity.

### **10.1** Add the Device

1. Open ZKBio CVSecurity and log in to ZKBio CVSecurity by entering your account number and password.

		A English 🗸
Creating Creating	k	0
Login Other login mode		-

- 2. In the Access Control module, select [Device] > [Access Control Device].
- 3. On the device interface, click the **[Search]** button to pop up a search box.
- 4. Click **[Start Search]** in the search box to display the **access control devices** that can be added, as shown in the figure below.

	Search	×
Search         No device found? Download           Total Progress         100%	Search Tools to Local Disk Searched devices count:1 Number of devices added:1	
IP Address Device Ty	pe Serial Number	
IP Address MAC Address	Subnet Mask   Gateway Add  Serial Number   Device Type   Set Server	Operations
192.168.134.168	255.255.255.0 192.168.134.254 CN3M212460001 TDB08M-TI/M	This device has bee
The current system communication port is 80	188, please make sure the device is set correctly.	

- 5. Optional: Modify the IP address of the **Access Control** device, click [**Modify IP Address**], the device will be restarted after modifying the IP address, and the IP address modification will be completed after the restart.
- 6. For the searched access control devices, click the **[Add]** button in the operation bar to add the device.

Device Name*	
PAddress	· · ·
Communication port*	4370
Communication Password	
Icon Type*	Door 👻
Control Panel Type	One-Door Access C 🔻
Area*	Area Name 🔹
Add to Level	<b>-</b>
Clear Data in the Device when	
Adding	
(except event record), plea	ase use with caution!

### 10.2 Door

- 1. In the Access Control module, select [Devices] > [Door].
- 2. In the management interface of the door, click the **[Edit]** button in the door operation bar to pop up the door parameter setting box.
- 3. In the door parameter setting interface, fill in the corresponding parameters according to the addition requirements, as shown in figure below.

		Edit			×
Device Name*	ZKT_Korea		Door Number*	1	
Door Name*	ZKT_Korea-1	Ĵ	Active Time Zone*	24-Hour Accessible 🗸	Ĵ
Verification Mode*	Automatic Identification 🔻		Lock Open Duration*	5	second(1-
		_		254)	
Operate Interval*	0	second(0-254)	Door Sensor Type*	None -	]
Anti-Passback Duration of	0	minute(0-120)	Door Sensor Delay		second(1-
Entrance		_		254)	_
Duress Password		(Maximum 6 Bit	Passage Mode Time Zone		J
	Integer)				_
Emergency Password		(8 Bit Integer)	Multi-Person Operation	10	second(5-60)
			Interval*		
Disable Alarm Sounds					
	The above settings a	re copied to		•	
		ОК	Cancel		

### 10.3 Reader

- 1. In the Access Control module, choose [Device] > [Reader].
- 2. In the Operation column of the corresponding Reader, click <sup>(Q)</sup>. The bind/unbind camera page is displayed.
- 3. On the Select Reader screen, set the Reader as required, as shown in figure below.

Binding/unbi	inding the camera
Channel Name	Q &
Alternative	Selected(0)
Channel Name   Owned Device   Serial Number	Channel Name   Owned Device   Serial Number
☐ 192.168.134.59 AS1700 21024127099SL8	>> < << No data
ОК	Cancel

## **10.4** Auxiliary Input

- 1. Click [Access Device] > [Auxiliary Input] on the Action Menu, to access below shown interface.
- 2. Click on **[Name]** or **[Edit]** to modify the parameters as shown below:

<b>ZKBio</b> CVSecurity	::: ¥					
🖪 Access Device 🗸 🗸	Access / Access	Device / Auxiliary Input				
Device	Name	Device	Name	Printed Name	Q @	
Door	⊖ Refresh	Device News	Number Dia		Outline Double Double	a construction of the second se
Reader	Name Auxiliary Inp	ut-1 ZKT_Korea	1 IN1	ed Name   Bound camera	Owning Board Remarks	®
Auxiliary Output			Edit	×		
Event Type		Device Name*	ZKT_Korea			
Daylight Saving Time		Number* Name*	1 Auxiliary Input-1			
Device Monitoring		Printed Name*	IN1			
Real-Time Monitoring	]	Active Time Zone	24-Hour Accessible -			
Alarm Monitoring	*	Kenlaka				
Мар						
		ок	Cancel			

3. Click [OK] to save the name and remark and exit.

## **10.5** Auxiliary Output

1. Click [Access Device] > [ Auxiliary Output] on the Action Menu to access the following interface:

<b>TKBio</b> CVSecurity	··· ¥
📕 Access Device 🗸 🗸	Access / Access Device / Auxiliary Output
Device	Name Device Name Printed Name Q
I/O Board	이 Refresh @ Remote Open @ Remote Close @ Remote Normally Open
Door	Name Device Name Number Printed Name Passage Mode Time Zone Owning Board Remarks Operations
Reader Auxiliary Input	
Auxiliary Output	
Event Type	
Daylight Saving Time	
Device Monitoring	
Real-Time Monitoring	
Alarm Monitoring	¢
Мар	

2. Click [Edit] to modify the parameters.

Device Name*	192.168.12.155	
Number*	1	
Name*	Auxiliary Output-1	
Printed Name*	OUT1	
Passage Mode Time Zone		•
Remark		

3. Click [OK] to save the name and remark and exit.

## 10.6 Event Type

1. Click [Access Device] > [Event] to access the following page:

<b>TKBio</b> CVSecurity	::: ¥	
📕 Access Device 🗸 🗸	Access / Access Device / Event Type	
Device	Event Name Event Number Event Level	▼ More▼ Q &
I/O Board	O Befrach - Mil Set Audia	
Door		
Reader	Event Name Event Number Event Level Device Name	Serial Number Operations
Auxiliary Input	<u>Normal Verify Open</u> 0 Normal ZKT_Korea (C)	CL63202960014 🖉
Auxiliary Output	Verify During Passage Mode T 1 Normal ZKT_Korea 0	CL63202960014 🖉
Event Type	Eirst-Personnel Open 2 Normal ZKT_Korea 0	CL63202960014 🖉
Daylight Saving Time	Multi-Personnel Open 3 Normal ZKT_Korea 0	CL63202960014 🖉
Device Monitoring	Emergency Password Open 4 Normal ZKT_Korea (	CL63202960014 🖉
Real-Time Monitoring	Open during Passage Mode Ti 5 Normal ZKT_Korea 0	CL63202960014 🖉
Alarm Monitoring	Linkage Event Triggered 6 Normal ZKT_Korea 0	CL63202960014 🖉
Мар	Cancel Alarm 7 Normal ZKT_Korea 0	CL63202960014 🖉

2. Click **[Edit]** or click the event type name to edit.

	Edit	
Device Name*	192.168.12.145	•
Event Number*	1	
Event Level*	Normal	v
Event Name*	Verify During Passage	Moc
Event Sound	Already Exists Oupl	oad
		Play
Copy the above settings to all devices		
O	K Cancel	

## **10.7** Real-Time Monitoring

- 1. In the Access Control module, choose [Access Control Device] > [Real-time Monitoring].
- 2. Check whether the icon status of the added device is online.

٦	ZKBio CVSecurity III #	😝 admin ~						
	Access / Access Device / Real-Time Monitoring							
Ū	Area         •         Status         •         Device Name         More *         Ø							
Ð	Door Auxiliary Input Auxiliary Output							
	B Remote Opening B Remote Closing & Cancel Alarm & Activate Lockdown & Deactivate Lockdown ··· More ·· ProfaceX-1 1	1						
	Security Verification × User Password* 2							
	Current lotai:1 Online:1 Obiatole:0 Offinie:0 Offinie:0 OK Cancel							
	Real-Time Events							
	Time Area Device Event Point Event Description Card Number Person Reader Name Verification Mode							
	Sounds Reminder	Show Photos						
	Total Received: 0 OKARANIO Clear Data Rows Event Description	Show Photoso						

### **10.8 Alarm Monitoring**

It will monitor the status and real-time events of doors unde<mark>r the</mark> access control panels in the system in real-time, including normal events and abnormal events.

TKBio CVSecurity	ж		😫 admin ~
🖪 Access Device 🗸	Access / Access Device / Alarm Monitoring		
Device	Data Analysis	🖆 Acknowledge 🛛 🕸 Alarm Processing History	
Device	danger (0)	Event ID   Time   Device   Event   Event De   Person   Belon   Priority   S	Status
I/O Board	In total Strong (0)		
Door	12	12 2023-07-13 16:54:1 192.168.134.1 Disconnecter Area Nam Weak	Jnconfirmed
Reader	Weak (12)		lane firmed
Auxiliary Input	Today's Record	11 2023-00-30 13.21.3 142.106.0.206 Disconnecter Area Nam Weak	Jincomminied
Auxiliary Output	1 0 0	10 2023-02-23 10:27:3 192.168.43.13 Disconnecter Area Nam Weak U	Unconfirmed
Event Type	Event Type Unconfirmed Processing Confirmed		
Daylight Saving Time	Top 5 alarm events	9 2023-02-23 08:09:0 192.168.43.13 Disconnecter Area Nam Weak U	Unconfirmed
Real-Time Monitoring			
Alarm Monitoring	Disconnected 12	8 2023-02-23 02:55:0 192.168.43.13 Disconnecter Area Nam Weak U	Jnconfirmed
Мар			
		7 2023-02-22 01:01:1 192.168.43.13 Disconnecter Area Nam Weak	Jnconfirmed
		6 2023-02-21 11:17:2 192 168 43 13 Disconnecter Area Nam Weak	Unconfirmed
			*
	Mute 🕥 Suspend	5 2023-02-21 09:55:2 192.168.43.13 Disconnecter Area Nam Weak U	Unconfirmed
Access Rule >			
Advanced Functions		4 2023-02-10 07:26:5 192.168.43.13 Disconnecter Area Nam Weak U	Jnconfirmed
2			
II. Access Control Reports >			49

#### **10.9** Interlock

Set interlock control between two or more doors on the access controller device: To verify the opening of a door, ensure that all other doors interlocked with the door are closed; otherwise, the door cannot be opened. In the **Access Control** module, choose **[Access Control]** > **[Interlock]** and click **[New]**.

	×	
Device Name*	Click to select	
Interlock Rule*	<b></b>	
Save	and New OK Cancel	
Save		

#### 10.10 Linkage

The use method and scenario of linkage are flexible. After a specific event is triggered by an input point in the **Access Control** system, a linkage action will be generated at the specified output point to control events such as verification opening, alarm and abnormality in the system. Add Settings for binding cameras to access control devices, input points, output points, and reader.

Outgoing Mail Server Se	ttings	
Email Sending Server*		(smtp.xxx.xxx)
Port*	25	SSL TLS
Email Account*		(xxx@xxx.xxx)
Password*		
Sender Name		

### **10.11 Anti-Passback**

Some occasions require the personnel that brush card to verify, brush card to come in from a door must brush card to go out from another door, brush card record must enter a strict correspondence. This function can be used when users enable it in the settings. It is generally used in special units, scientific research, bank vaults and other occasions. In the **Access Control** module, choose **[Access Control]** > **[Anti-Passback]** and click **[New]**.

		New		×
Device Name <sup>*</sup>	Click to se	elect		
nti-Passback Rule*			•	•
Save and	d New	OK	Cancel	

For more detailed information on the use of the ZKBio CVSecurity, please refer to the *ZKBio CVSecurity User* Manual.

## <u>Appendix 1</u>

### **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. 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/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.

nazardous of 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	Ο	
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

This table is prepared in accordance with the provisions of SJ/T 11364.

○ indicates that the total amount of toxic content in all the homogeneous materials is below the limit as specified in GB/T 26572.

imes indicates that the total amount of toxic content in all the homogeneous materials exceeds the limit as specified in GB/T 26572.

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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