

User Manual

C2-260/inBio2-260 Access Control Panel

Date: June 2020

Doc Version: 1.0

English

Thank you for choosing our product. Please read the instructions carefully before operation. Follow these instructions to ensure that the product is functioning properly. The images shown in this manual are for illustrative purposes only.



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

ZKTeco Headquarters

Address ZKTeco Industrial Park, No. 26, 188 Industrial Road,
Tangxia Town, Dongguan, China.

Phone +86 769 - 82109991

Fax +86 755 - 89602394

For business-related queries, please write to us at sales@zkteco.com.

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

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 C2-260/inBio2-260 Access Control Panel.

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

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>
[]	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/Create/Folder].

Symbols






Convention	Description
	This implies about the notice or pays attention to, in the manual
	The general information which helps in performing the operations faster
	The information which is significant
	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.



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.
7. It is advised to install control panels at places where maintenance is easy, like **a weak electric well**.
8. 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. If RS485 reader is connected externally and shared the power supply with the device (The control panel does not support fingerprint verification of RS485 reader), it is recommended that the connection between the RS485 reader port and the reader be no longer than 100m. Otherwise, it is recommended that the reader use a separate power supply.
12. The connection between a PC and a control panel should be less than 1200m for RS485 communications. A length **within 800m** is recommended to make communications more stable.
13. 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.
14. It is recommended that an electronic lock and a control panel should use separate power supplies.
15. It is recommended to use the power supply delivered with the system as the control panel power supply.
16. In a place with substantial magnetic interference, galvanized steel pipes or shielded cables are recommended, and proper grounding is required.

2 System Introduction

The Access Control management system is a new modernized security management system, which is an effective measure of security and protection management. It is mainly used to manage the entrances and exits of highly secured places, such as banks, hotels, equipment rooms, offices, smart communities, and factories.

2.1 System Functional Parameters

- High-speed 32-bit 1.0GHz CPU and 64M RAM.
- Embedded LINUX operating system.
- Two-door one-way/two-way.
- User capacity: 30,000.
- A maximum of 30,000 cardholders.
- Fingerprint capacity: 2,000 (inBio2-260).
- 200,000 offline event records.
- Ethernet and RS485 communication technologies for reliable communications.
- Control Panel with a watchdog (hardware) built in to prevent a crash.
- Over-current, over-voltage, and inverse-voltage protection for the input of the power supply to the control panel.
- Over-current protection for the power supply to card readers.
- Instant over-voltage protection for all input/output ports.
- Instant over-voltage protection for communication ports.

2.2 Product Technical Parameters

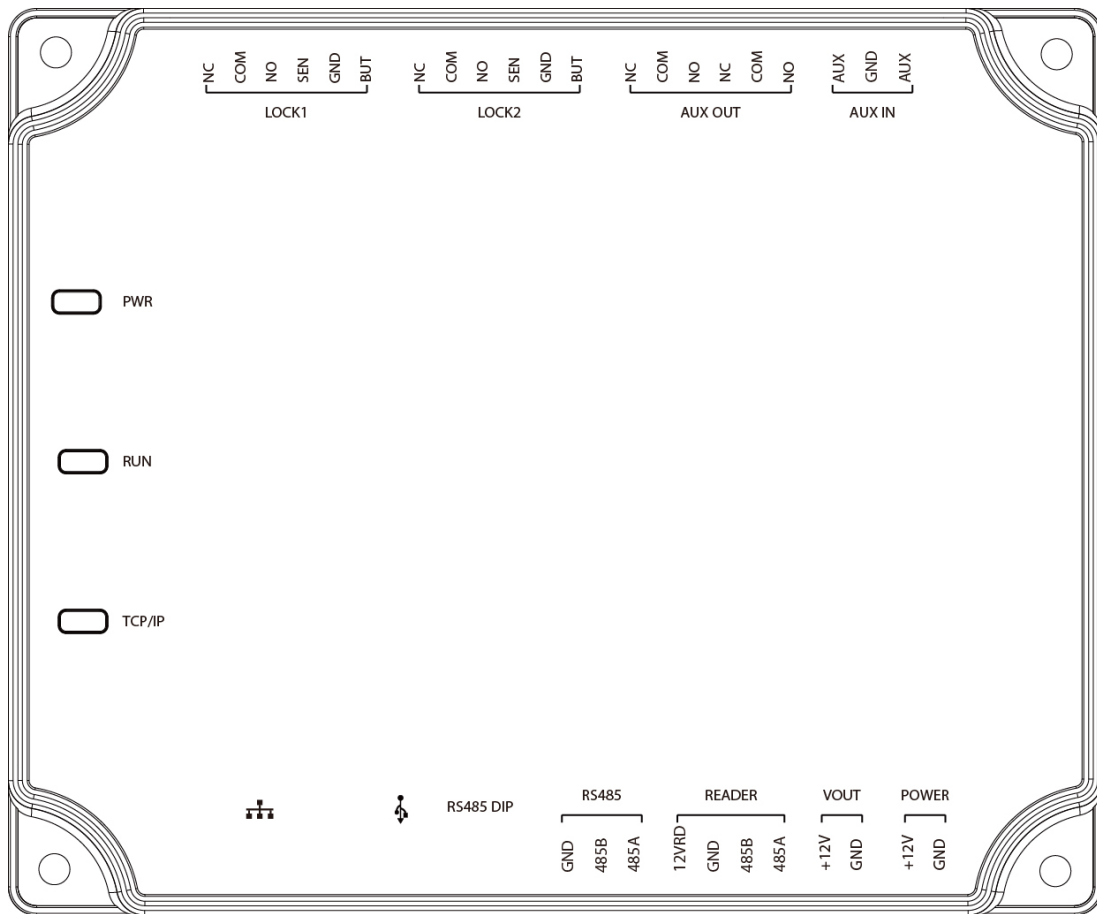
- Working Power supply: Rated voltage 12V ($\pm 20\%$) DC, rated current is $\geq 3A$
- Working environment: Temperature $-10^{\circ}C$ to $50^{\circ}C$; Humidity 20% to 80%.
- Electronic lock relay output: The maximum switching voltage is 36V(DC); The maximum switching current is 5A.
- Auxiliary relay output: The maximum switching voltage is 36V(DC); The maximum switching current is 2A.
- The detachable connection terminals are made of alloy-steel non-magnetic flange materials.
- Control panel dimensions: 116.5mm*96.5mm*31.3mm

2.3 Control Panel Indicators

When the C2-260/inBio2-260 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.

COMM indicator (yellow): It flashes when the system is communicating with other devices (e.g., PC). When the indicator is flashing continuously, it indicates data transmission. When the indicator is flashing slowly, it indicates real-time monitoring status.

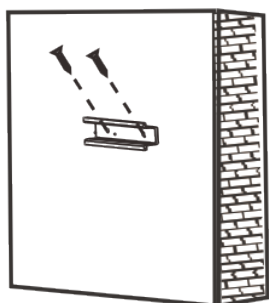
Indicator Diagram:



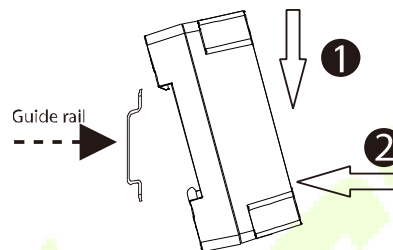
3 Installation and Connection

3.1 Installation Procedure

- The following describes the rail installation process.

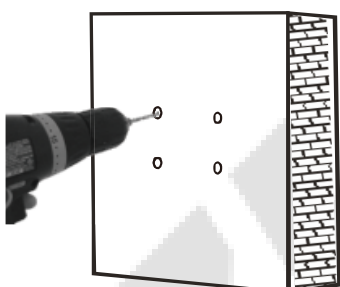


1) Fix the guide rail on the wall

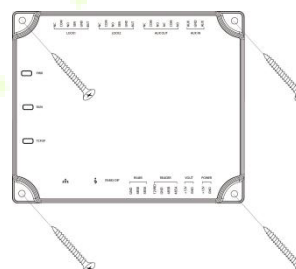


2) Fix the device to the guide rail.

- The following describes the wall installation process.

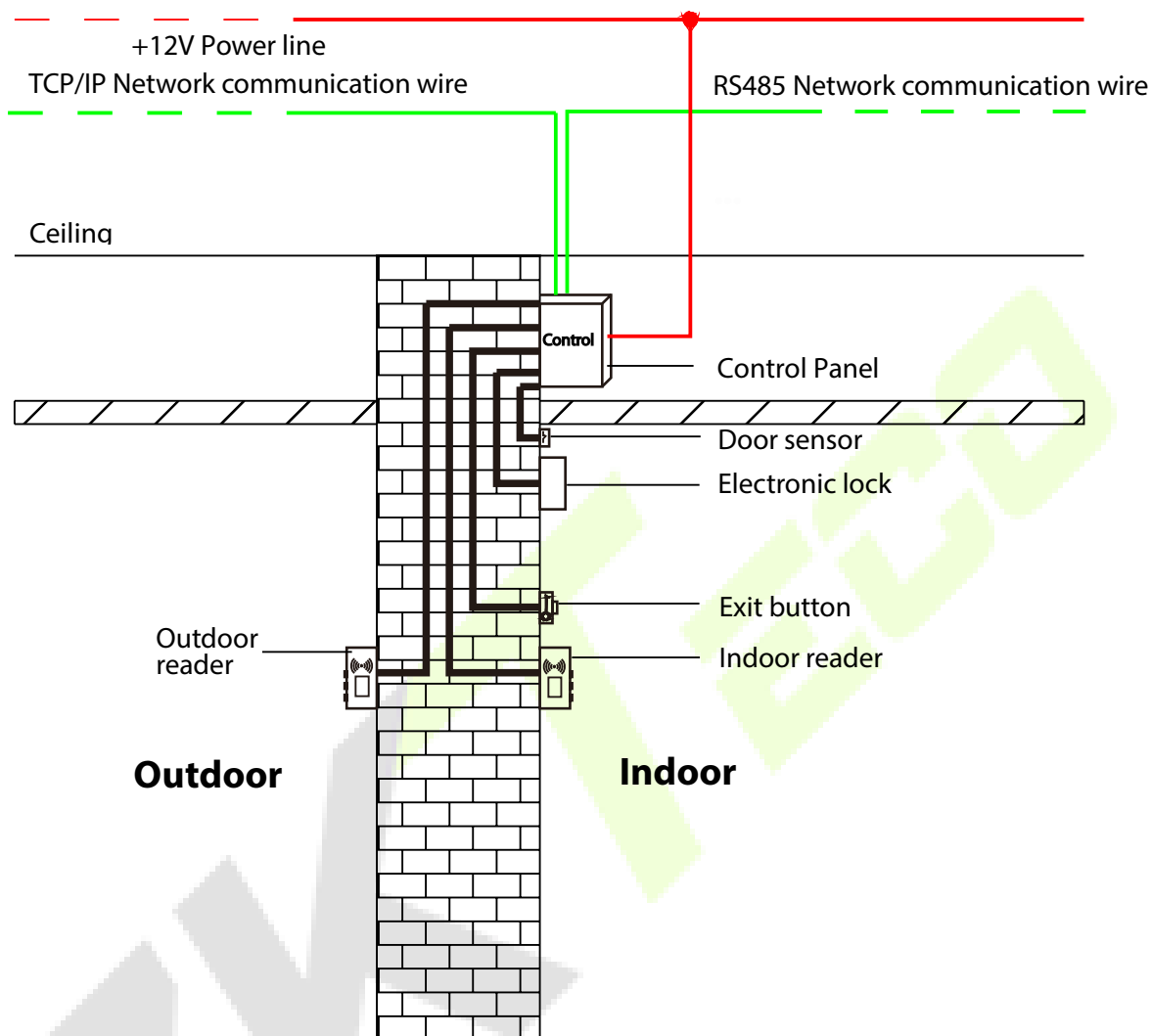


1) Drill holes on the wall



2) Fix the device with four screws

3.2 Installation of Access Control Panel Wires

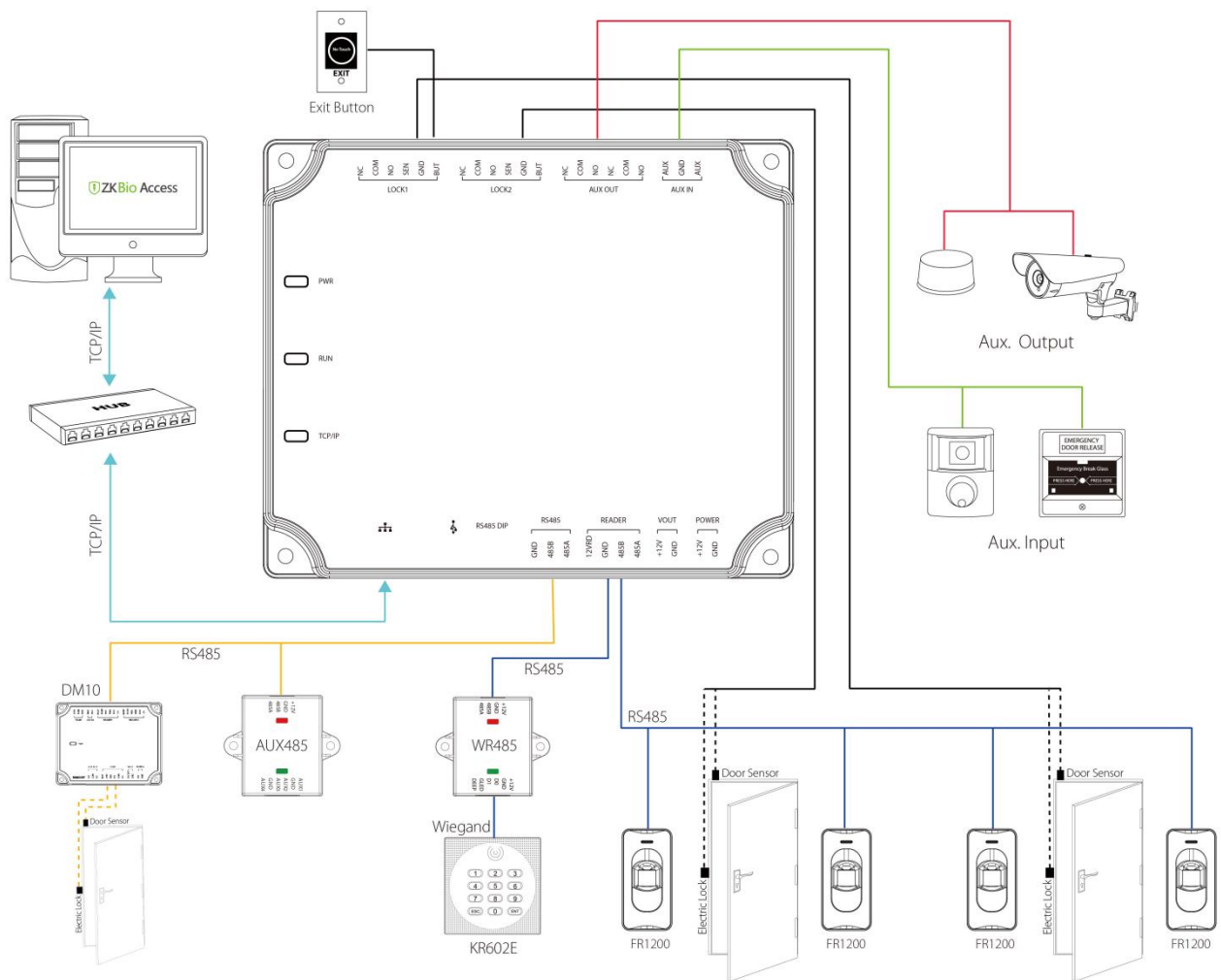


Access Control Panel Wire Installation Diagram

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 Control Panel System Installation



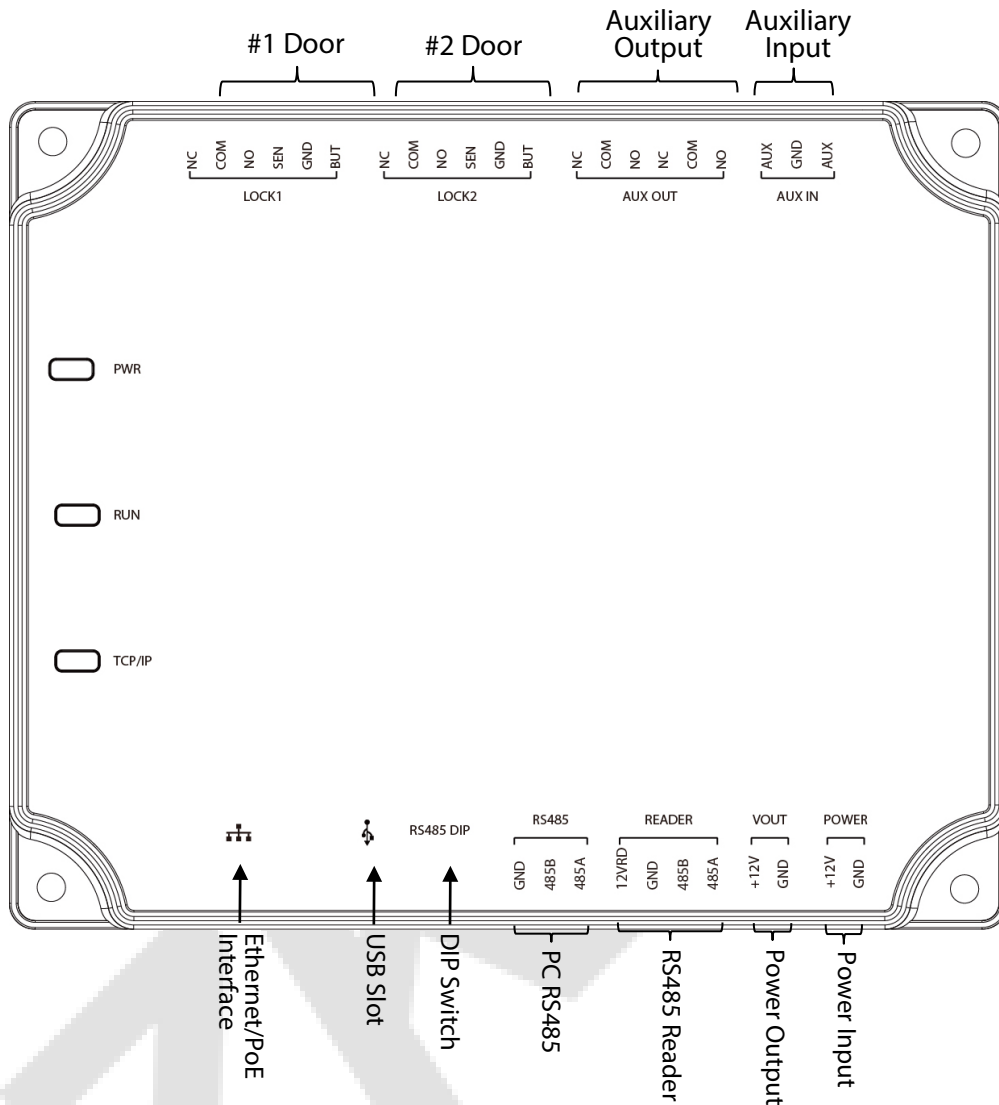
Schematic Diagram of System Installation

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 and RS485 network. 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 Control Panel Connection Terminals

C2-260/inBio2-260 Terminal connection diagram



- **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. PC RS485 indicates the RS485 cable is connected to the PC through this port. The RS485 Reader port can be connected externally to RS485 reader. **Note:** Only inBio2-260 supports to connect the FR1200 readers.
4. Restore factory setting: Put number 4 of DIP switch to ON position three times in 5 seconds, the device will reboot, and the IP address will restore to the default (192.168.1.201).
5. The terminals above are set through the relevant access control software. Please see the respective software manual for further details.

Ports of C2-260/inBio2-260 Control Panel:

No.	Functional Port	C2-260 (Two-Door Two-Way)	inBio2-260 (Two-Door Two-Way)
1	Exit button	2	2
2	Control lock relay	2	2
3	Door Sensor	2	2
4	Auxiliary Input	2	2
5	Auxiliary Output	2	2
6	RS485 Reader	4	4
7	FR1200 Reader	0	4
8	RS485 Extension Communication	✓	✓
9	TCP/IP	✓	✓

3.5 Connection with Door Sensors, Exit Switches, Auxiliary Input Devices, and RS485 Extension Communication

1. Door sensor

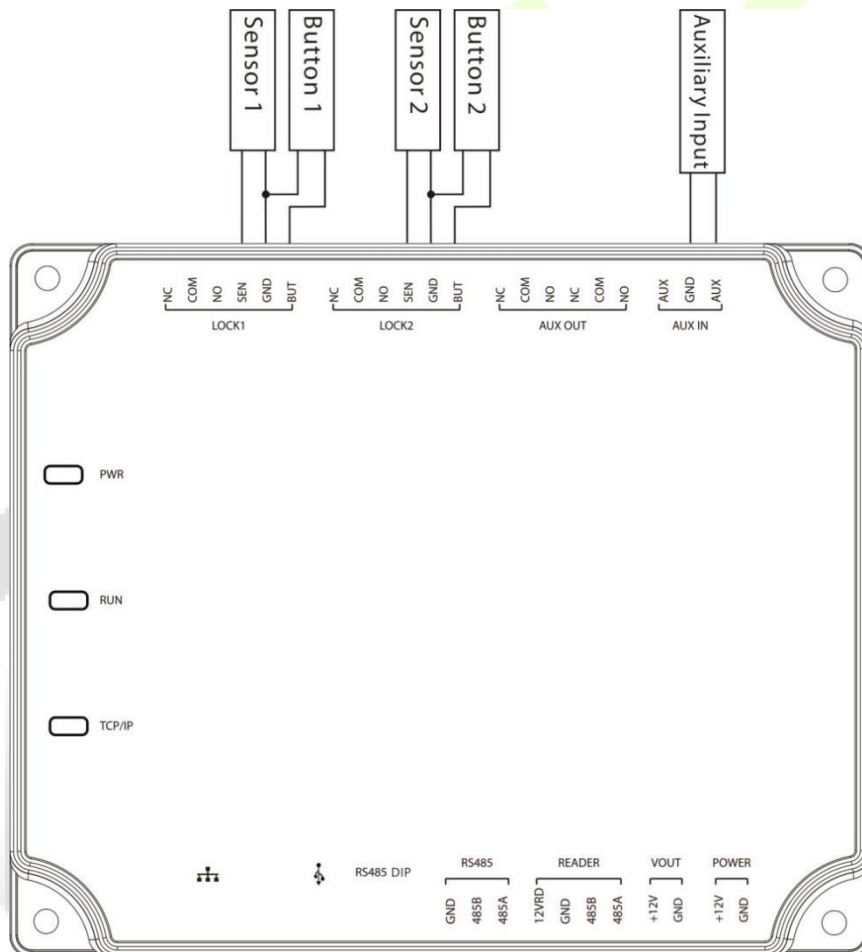
A Door Sensor is used to sense the open/close status of a door. With a door sensor switch, an access control panel can detect the unauthorized opening of a door and will trigger the output of alarm. Moreover, if a door is not closed within a specified period after it is opened, the door control panel 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.

2. Exit switch

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.

3. Auxiliary input

The control panel provides one auxiliary input interface 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 see the respective software manual for further details.



Connections between Control Panel and Door Sensors, Exit Switches and Auxiliary Input Devices

4. RS485 extension communication

The Control panel supports extensive modules which like **DM10** and **AUX485**, through RS485. A C2-260/inBio2-260 can connect eight DM10 at most or can connect two AUX485 at most.

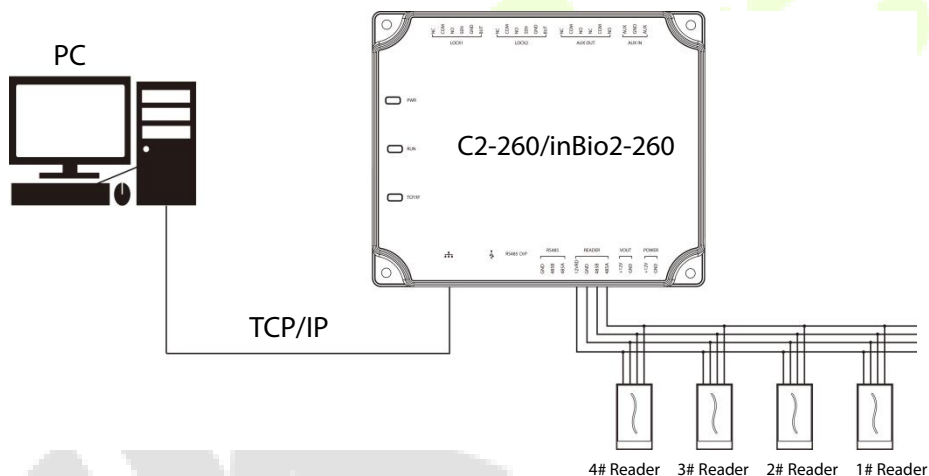
3.6 Connection with RS485 Readers

The Control panel supports RS485 reader (**Note:** C2-260 supports RS485 Card Reader only, inBio2-260 supports both RS485 card and Fingerprint reader).

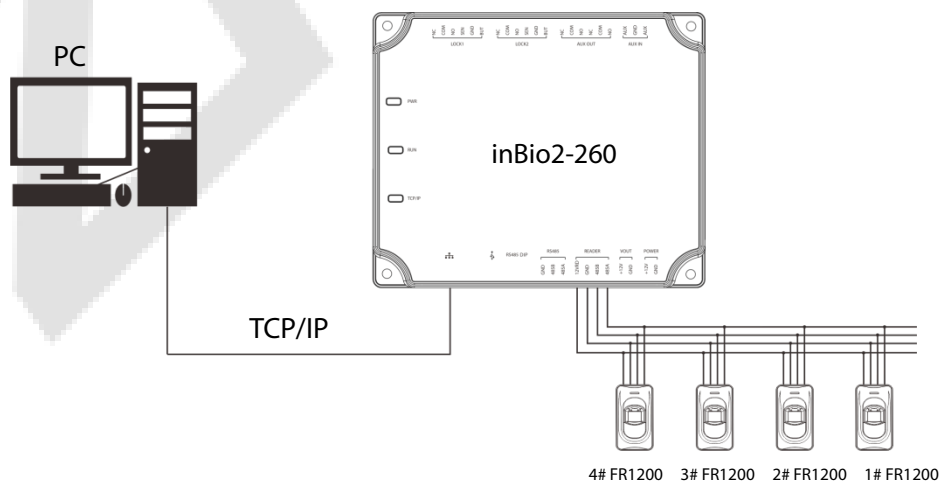
The Control panel supports four readers, which can be connected in the two-door two-way mode.

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

RS485 address	1	2	3	4
Control Panel				
C2-260/inBio2-260	1Door IN	1Door OUT	2Door IN	2Door OUT



The connection between the Control Panel and RS485 Card Readers



The connection between the Control Panel and Fingerprint Readers

A single RS485 reader interface can supply a maximum of 750 mA (12V) current. So, the entire current consumption should be less than this maximum value when the readers share power with the panel. For calculation, please use the maximum current of the reader, and starting current is usually more than twice the standard work current.

Using the KR502M-RS card reader as an example, the standby current is less than 80mA; the maximum current is less than 90mA. When starting the device, the instantaneous current can reach 180 mA. For an RS485 reader, considered that the starting current is large, only four readers can connect to the power supply through the RS485 reader interface. So, the power of the control panel can only connect up to 2 readers.

If RS485 reader is connected externally and shares the power supply with the device, it is recommended that the connection between the RS485 reader port and the reader be no longer than 100m. Otherwise, it is recommended to use a separate power supply for the reader.

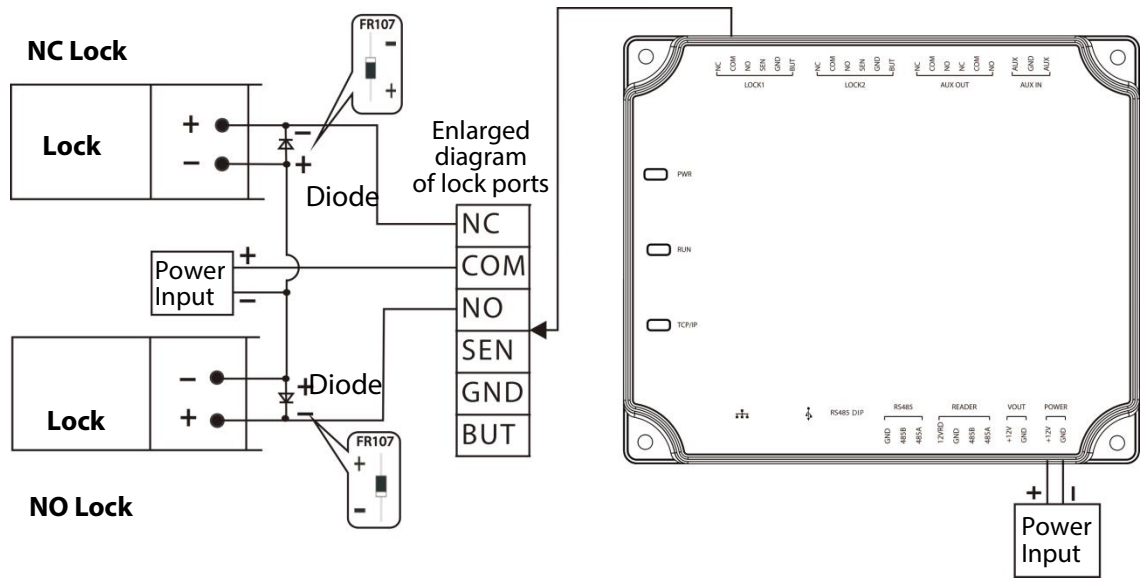
For the devices which consume more power, we suggest using different power supplies to ensure steady operation.

3.7 Relay Output Connection

C2-260/inBio2-260 has three relays (two used as control locks by default, and the other one 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.

1. The default connection mode of the door lock is "dry mode." In general, the electronic lock uses an external power supply separately. The wiring mode of the door lock relay cannot be changed, except that the auxiliary output relay. The diagram below uses the example of a door lock connection to demonstrate the output relay connection.
2. 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.
3. Our access control panel is powered by standard PoE or access control power. You can choose either one of the power supplies as needed. Both two power supplies provide 12V/3A power for only the power consumption of the control panel, Wiegand readers, and output power consumption of RS485 reader.
4. 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.



Wiring diagram of lock connection

4 Equipment Communication

The background PC software can communicate with the system according to two protocols (TCP/IP and RS485) for data exchange and remote management.

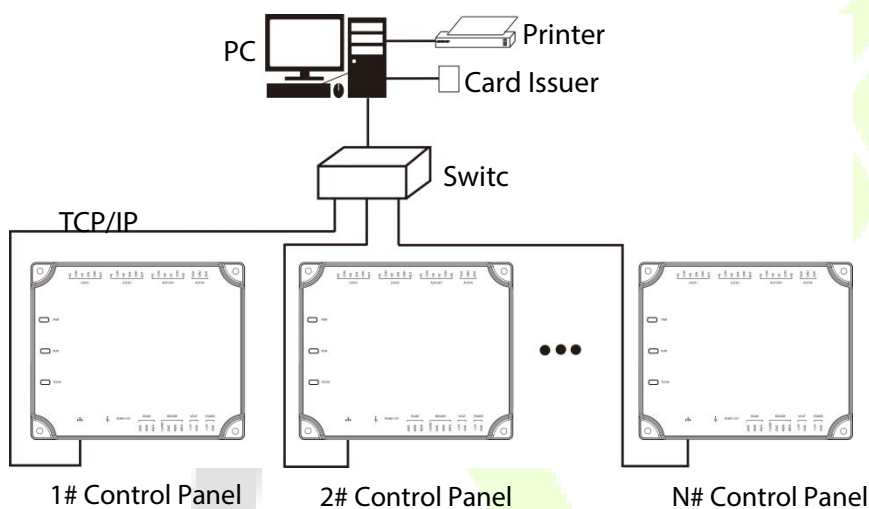
4.1 Access Control Networking Wires and Wiring

1. The power supply is 12V DC converted from 220V or PoE.
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 $4 \times 0.75\text{mm}^2$, two for a power supply, and two for a door sensor) are recommended.
3. "RS485" interface uses 4-core communication shielded wires (RVVSP $4 \times 0.5\text{mm}^2$).
4. Other control cables (like exit switches) are all made of 2-core wires (RVVSP $2 \times 0.5\text{mm}^2$).
5. 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).

4.2 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.



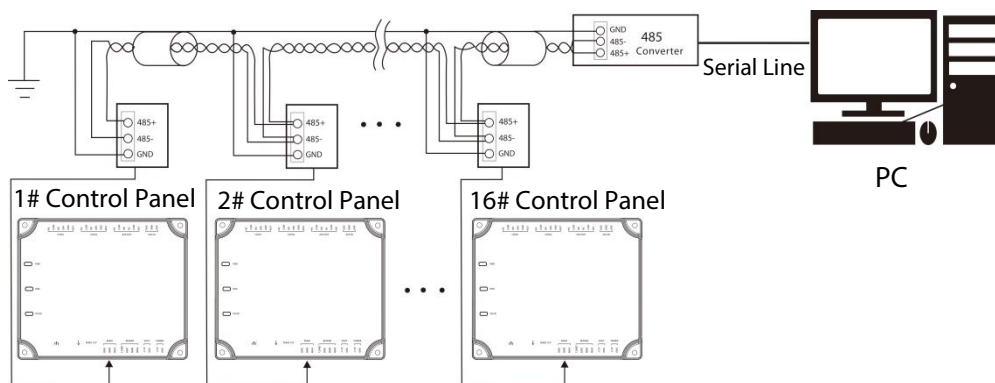
TCP/IP Communication System Networking

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

4.3 RS485 Communication

1. Internationally accepted RVVSP (shielded twisted pair) wires should be used for communication to avoid interference effectively.
2. RS485 communication wires should be connected using a bus cascade connection instead of in a star form, to achieve a better shielding effect by reducing the signal reflection during communications.
3. Considering the stability of communication, it is recommended that the length of the RS485 bus must be less than 600m.
4. Up to 16 device numbers can be set because the rotary DIP switch on the control panel has 16 bits. Therefore, a single RS485 bus can be connected to 16 access control panels at most.
5. To enhance the stability of communication when the bus is longer than 300m, connect the provided 120-ohm terminal resistor between the 485A and 485B wires of the first and last control

panels, respectively.



RS485 Communication System Networking

4.4 DIP Switch Settings

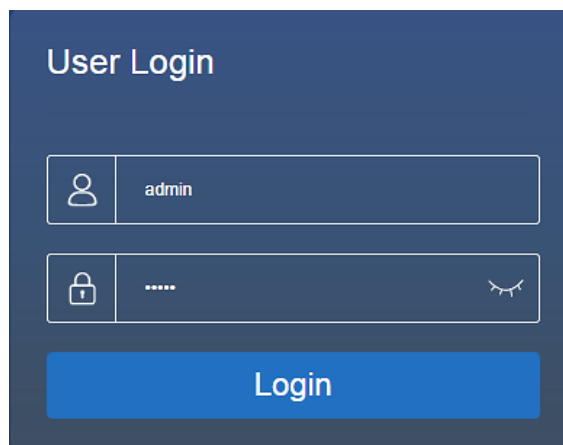
The Control panel adopts a rotary DIP switch. The numbers 1-4 of the DIP switch are set as the device number for RS485 communication. The code is binary, and the numbering starts from left to right. When the switch is set to ON position, it indicates 1 (ON); when the switch is set downwards, it means 0 (OFF). For example, to set a device number as 15=1+2+4+8, which corresponds to the binary code 1111, move the numbers 1, 2, 3, and 4 to ON position.


485 address	switch setting	485 address	switch setting
0		8	
1		9	
2		10	
3		11	
4		12	
5		13	
6		14	
7		15	

5 ZKBioAccess

The following sections explain the functions of ZKBioAccess software after the Access Controllers are installed.

5.1 Login



After installing the software, double-click the ZKBio Access icon  to open the software. You may also open the recommended browser and enter the IP address and server port in the address bar. The IP address is <http://127.0.0.1:8098> by default.

If the software is not installed in your server, you may enter the IP address and server port in the address bar.

Note: The username of the superuser is **admin**, and the password is **admin**, then click **Login**. After logging in for the first time, you need to reset your password.

5.2 Activate the System

Please refer to the corresponding license activation document.

5.3 Modify Password

You can modify the login password in the **Personal Information** section.



Personal Information

Username*
Username should be composed between 1-30 characters and in letters, numbers, or symbols (@./-+!_).

Reset Password

Password*
Password is a combination of 4 to 18 characters, default is 111111.

Confirm Password*

Superuser State

Role

Auth Department
If you select no department, you will possess all department rights by default.

Authorize Area
If you select no area, you will possess all area rights by default.

Email

First Name

OK Cancel

Select the **Reset Password** checkbox to modify the password.

Note: Both the Superuser and the new user are created by the Superuser (the default password for the new users is 111111). The username is not case-insensitive, but the password is case-sensitive.

5.4 Device

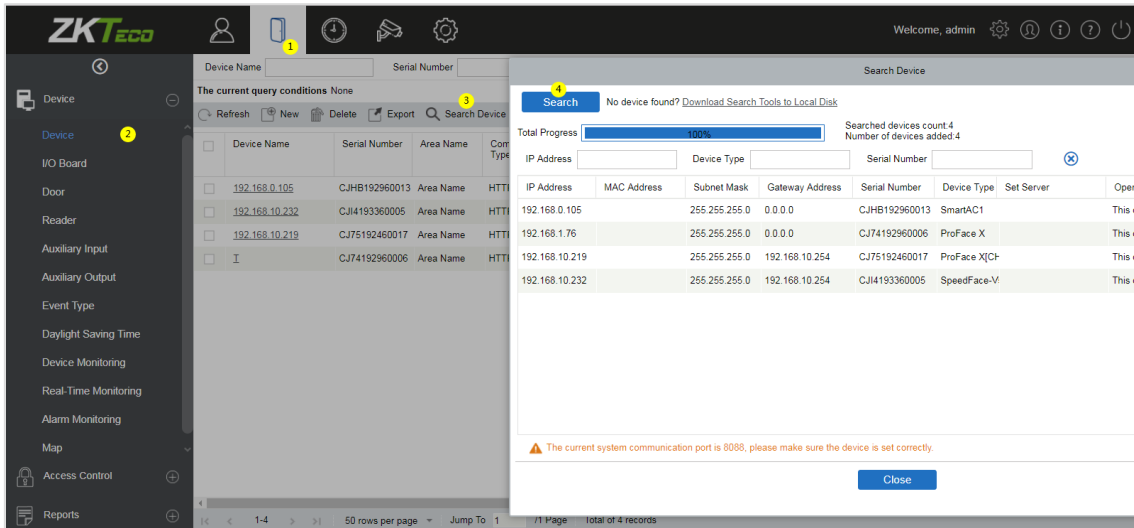
The Device Settings adds an access device and then sets the communication parameters of the connected devices, including system settings and device settings. When the communication is successful, you can view here the information of the connected devices, and perform remote monitoring, uploading and downloading, etc.

5.4.1 Adding a Device

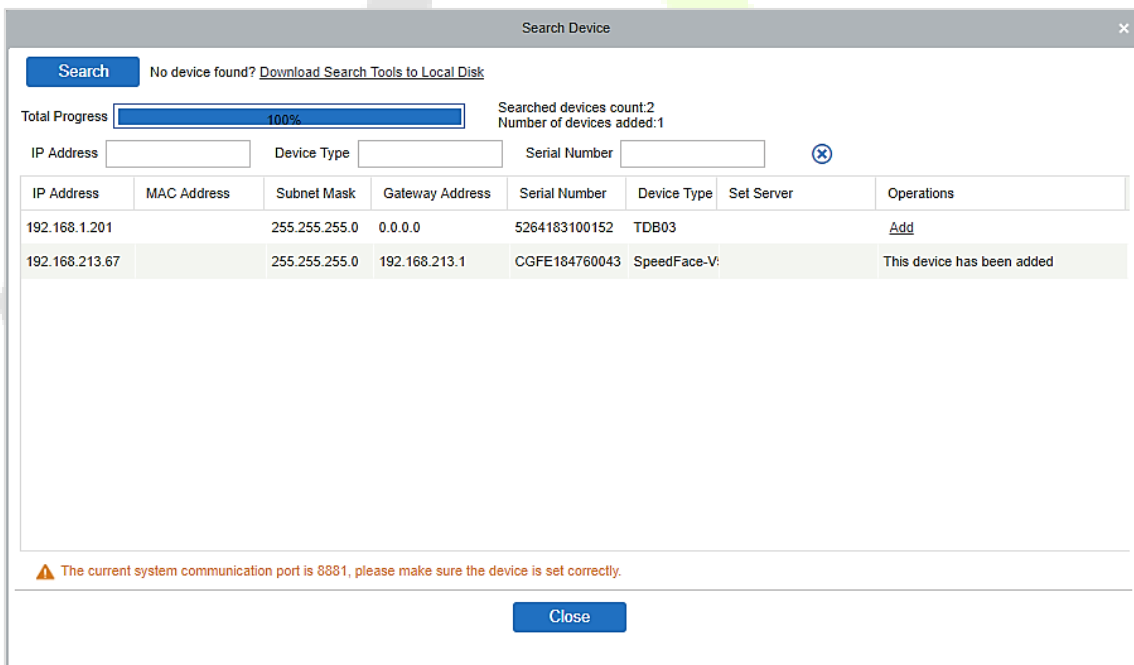
There are two ways to add Access Devices.

Add Device by Searching Access Controllers.

Search the Access Controllers in the Ethernet.



1. Click **Access > Device > Search Device** to open the Search interface.
2. Click **Search**, and it will prompt **Searching.....**
3. After the search is complete, the list and the total number of access controllers will be displayed.



Note: UDP broadcast mode will be used to search the access devices. This mode cannot perform a cross-router function. The IP address can provide a cross-net segment, but it must be in the same subnet, and the Gateway and IP Address must be configured in the same network segment.

4. Click **Add** in the search list.

If the device is a pull device, you may enter a device name and click **OK** to complete adding the device.

Clear Data in the device when Adding: If this option is selected, after adding a device, the system will clear all data in the device (except the event logs).

If the device is a push firmware device, the following windows will pop-up after clicking **Add**. If the IP Address in **New Server Address** is selected, then configure the IP address and port number. If Domain Address in **New Server Address** option is selected, then set the Domain address, port number, and DNS. The device will be added to the software automatically.

The screenshot shows a 'New' dialog box with the following fields and options:

- Device Name*: [Empty text box]
- Communication Type*: TCP/IP
- IP Address*: [Empty text box]
- Communication port*: 4370
- Communication Password: [Empty text box]
- Icon Type*: Door
- Control Panel Type: One-Door Access Cont
- Area*: Area Name
- Add to Level: [Empty dropdown menu]
- Clear Data in the Device when Adding:

Warning message: **[Clear Data in the Device when Adding] will delete data in the device (except event record), please use with caution!**

Buttons: Save and New, OK, Cancel

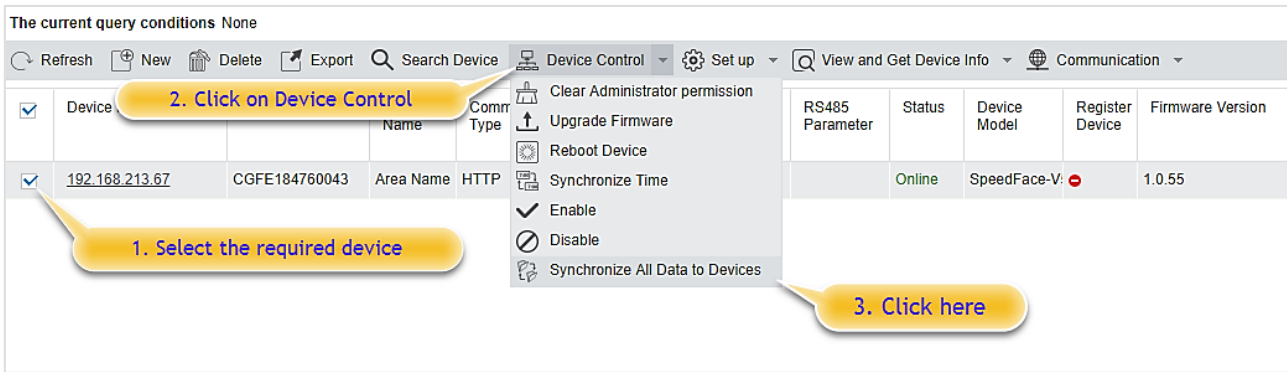
New Server Address: To add a device by IP Address or Domain Address, devices can be added to the software by entering the domain address.

New Server Port: Set the access point of the system.

DNS: Set a DNS address of the server.

Clear Data in the Device when Adding: If this option is selected, then after adding a device, the system will clear all data in the device (except the event logs). If you add the device merely for demonstration or testing, there is no need to select it.

Note: When using either of the above three device adding methods, if there exists a residual data in the original device, please sync the original data to it after adding a new device to the software by clicking **Device > Synchronize All Data to Devices**, otherwise, these original data may conflict with normal usage.

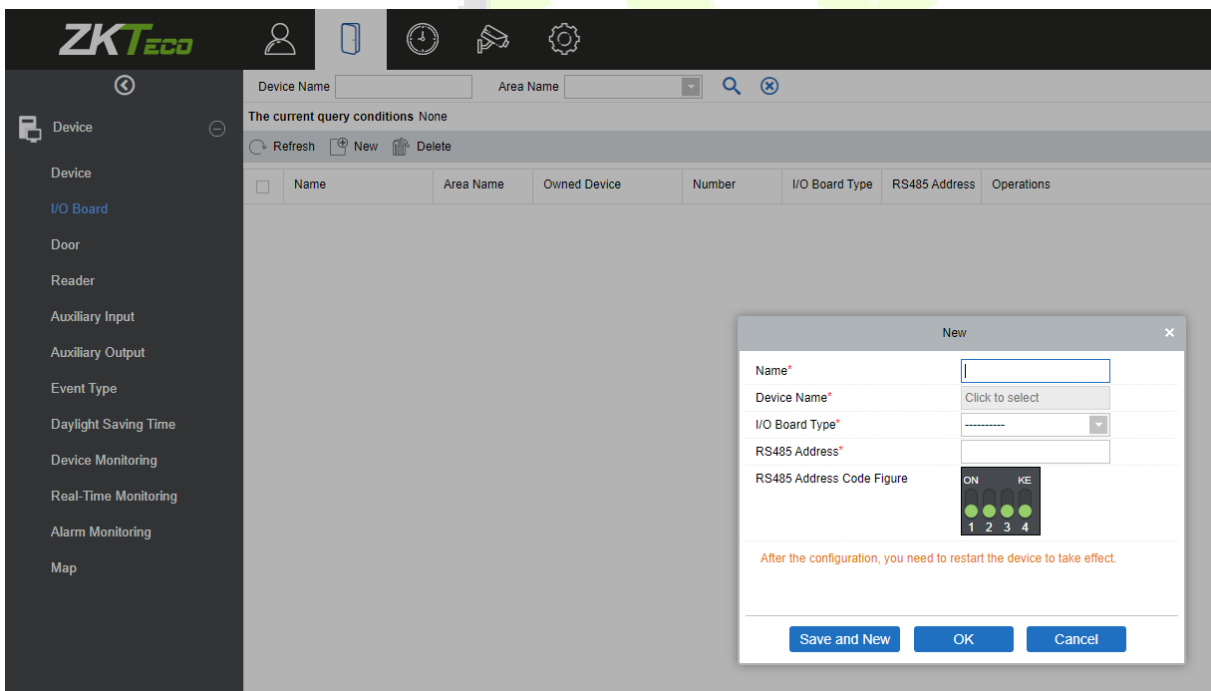


- The default IP address of the access device may conflict with the IP of a device on the local network. You can modify its IP address: click **Modify IP Address**, and a dialog box will pop up in the interface. Enter the new IP address and other parameters (Note: Configure the gateway and IP address in the same network segment).

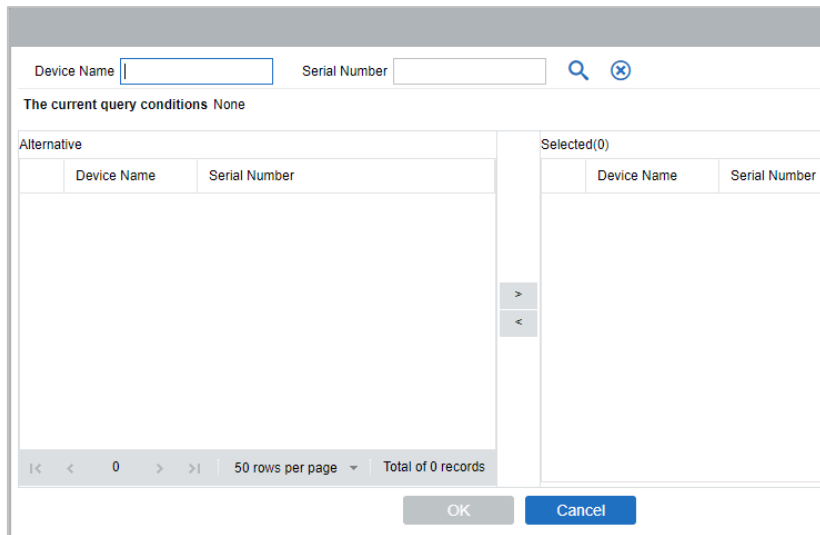
Note: Some PUSH devices support SSL. To use this function, select the HTTPS port during software installation and ensure that the device firmware supports SSL.

5.4.2 I/O Board

On the device module, click **Device > I/O Board > New** to add the I/O Board device to the software.



Enter the name of the I/O Board. Select the Device by clicking the Device Name field. The device list appears, as shown below:

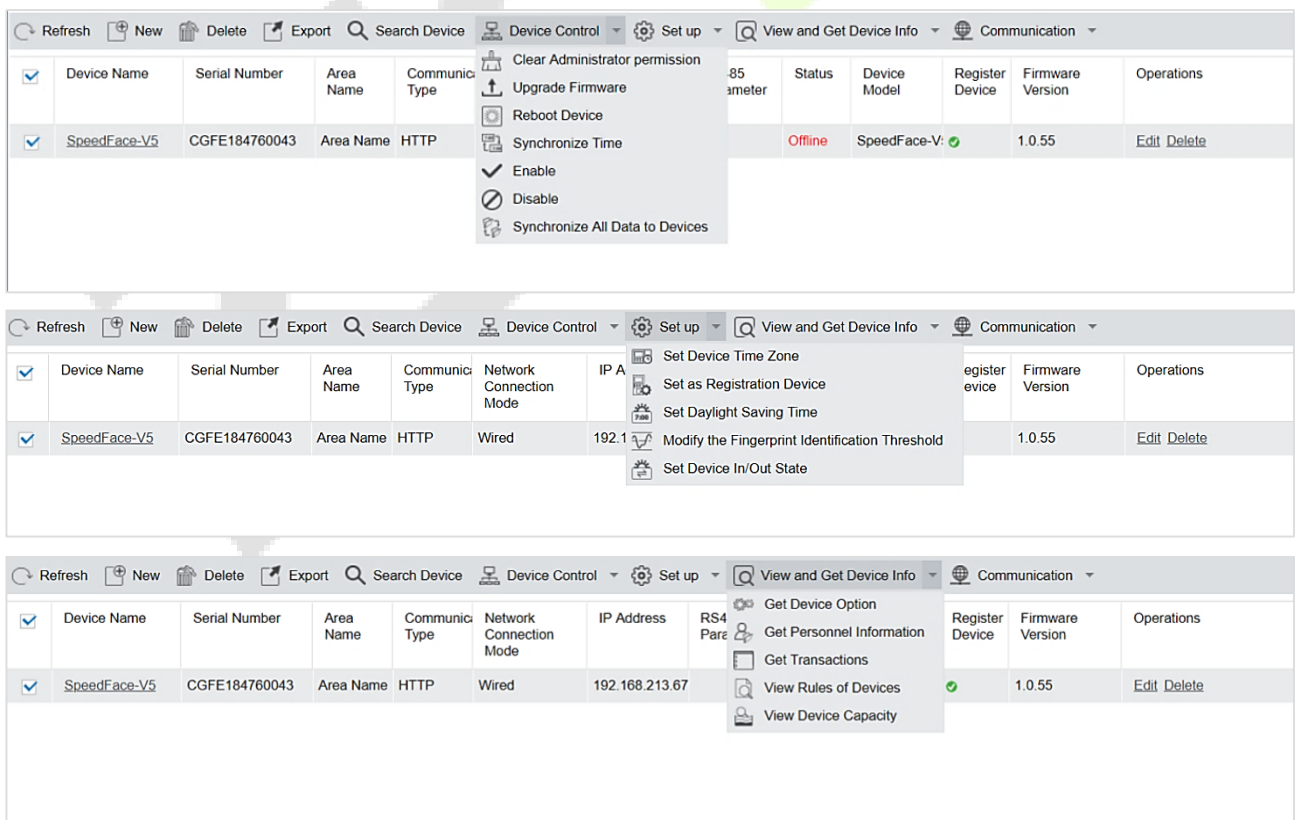


Select the device and click **OK**. Select the I/O Board Type. Set the RS485 Code Address by changing the corresponding button. Click **OK** to save the details. You can view all the auxiliary inputs in the **Auxiliary Input** interface.

Note: Please select this method when adding **DM10** and **AUX485**.

5.4.3 Device Operation

For the communication between the system and device, data uploading, configuration downloading, device, and system parameters shall be set. Users can edit the access controllers within the appropriate levels in the current system; users can only add or delete devices in Device Management if needed.



Device Name	Serial Number	Area Name	Communication Type	Network Connection Mode	IP Address	RS485 Parameter	Status	Device Model	Register Device	Firmware Version
SpeedFace-V5	CGFE184760043	Area Name	HTTP	Wired	192.168.213.67		Offline	SpeedFace-V5	Yes	1.0.55

● **Edit or Delete a Device**

Edit: Click the Device Name or click **Edit** to access the edit interface.

Delete: Select the device, click **Delete**, and click **OK** to delete the device.

Edit

Device Name*

Communication Type* TCP/IP HTTP

Serial Number*

IP Address*

Communication port*

Icon Type*

Control Panel Type

Area*

Set Wiegand Reader

⚠ [Clear Data in the Device when Adding] will delete data in the device (except event record), please use with caution!

For further details and settings of the above parameters, see [Device](#). Some details cannot be edited. The device Name should be unique and must not be identical to another device.

Control Panel Type cannot be modified. If the type is wrong, users need to delete the device and add it again manually.

● **Export**

Device information can be exported in EXCEL, PDF, and CSV file formats.

Export

The File Type

Export Mode

All data (export up to 30000 pieces of data)

Select data volume export (export up to 30000 pieces of data)

From the article Strip, is derived Data

Device										
Device Name	Serial Number	Area Name	Communication Type	Network Connection Mode	IP Address	RS485 Parameter	Status	Device Model	Register Device	Firmware Version
SpeedFace-V5	CGFE184760043	Area Name	HTTP	Wired	192.168.213.67		Offline	SpeedFace-V5	Yes	1.0.55

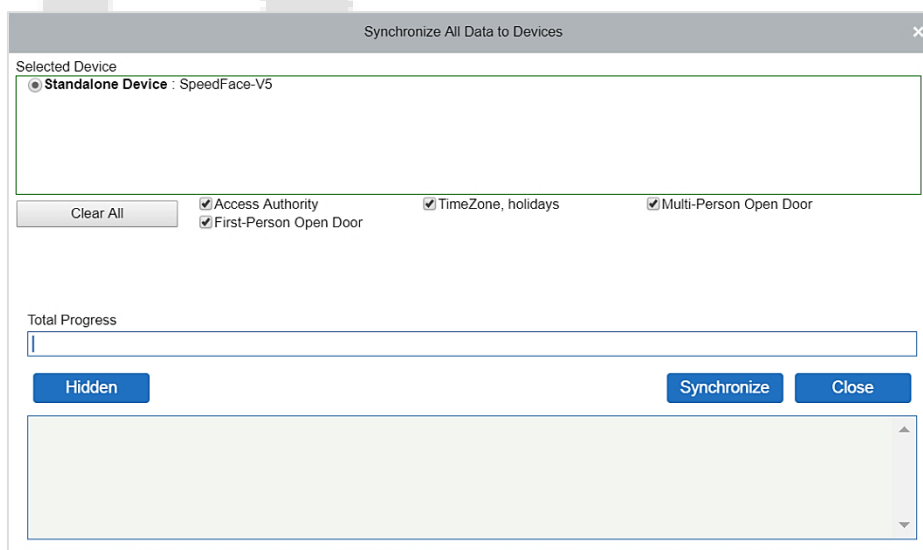
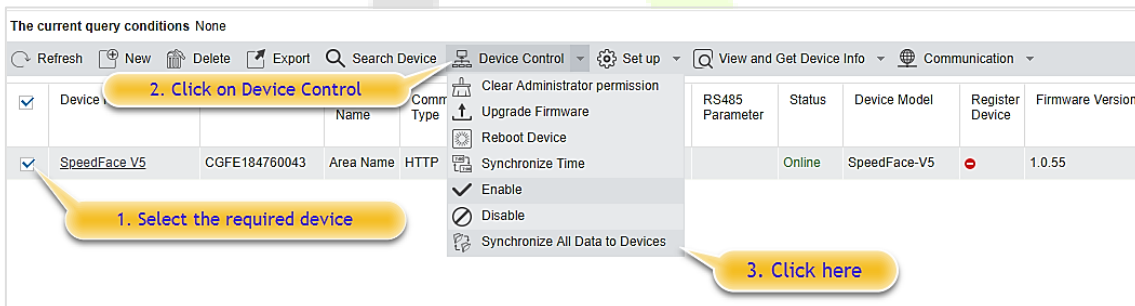
- **Disable/Enable**

Select a device, click **Disable/ Enable** to stop/ start using the device. When the communication between the device and the system is interrupted, or the device fails, the device may automatically appear in disabled status. After adjusting the local network or device, click **Enable** to reconnect the device and restore device communication.



- **Synchronize All Data to Devices**

To synchronize data of the system to the device, select the device and click **Synchronize All Data to Devices** and click **OK** to complete synchronization.



Note: **Synchronize All Data to Devices** will delete all the data in the device first (except transactions), and thus download all settings again. Please keep the internet connection stable and avoid power down situations. If the device is working normally, please use this function with caution. Execute it in rare user situations to prevent impact on the regular use of the device.

- **Upgrade Firmware**

Select the required device that needs to be upgraded, click **Upgrade firmware** to enter the edit interface, then click **Choose File** to select the firmware upgrade file (named emfw.cfg) provided by the Access software, and click **OK** to start upgrading.



Note: The user shall not upgrade firmware without authorization. Contact the distributor before upgrading the firmware or upgrade it by following the instructions of the distributor. The unauthorized upgrade may affect normal operations.

- **Reboot Device**

It will reboot the selected device.

- **Synchronize Time**

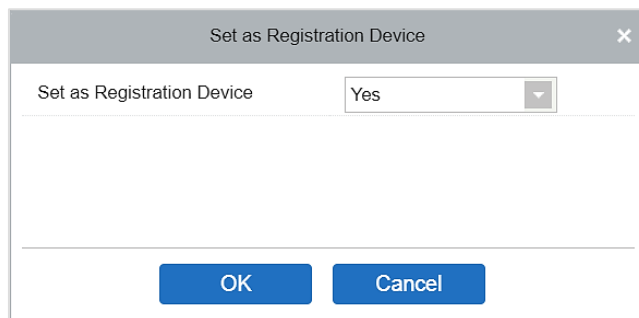
It will synchronize the device time with the server's current time.

- **Set Device Time Zone**

If the device supports the time zone settings and is not in the same time zone with the server, you need to set the time zone of the device. After setting the time zone, the device will automatically synchronize the time according to the time zone and server time.

- **Set as Registration device**

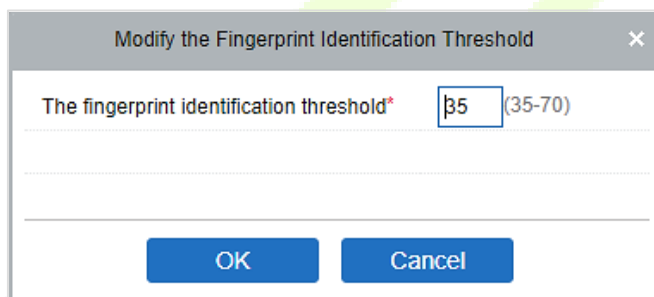
Set the registration device only when the standalone device's data such as personnel can automatically upload.



- **Set Daylight Saving Time**

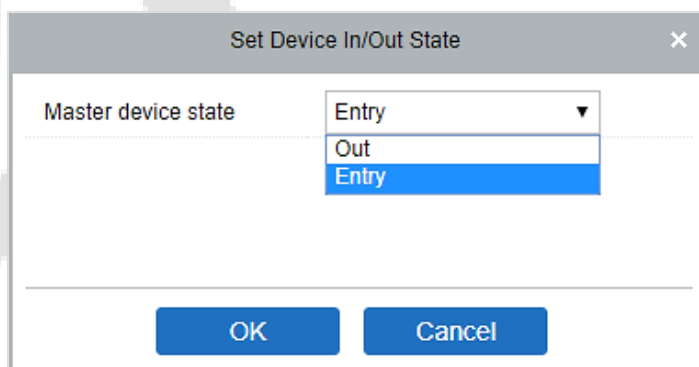
According to the requirements of different regions, set the Daylight-Saving Time rules.

- **Modify the fingerprint identification threshold (Ensure that the access controller supports fingerprint function)**



- **Set Device In/Out State**

It will define the condition of the master device as Entry or Exit.

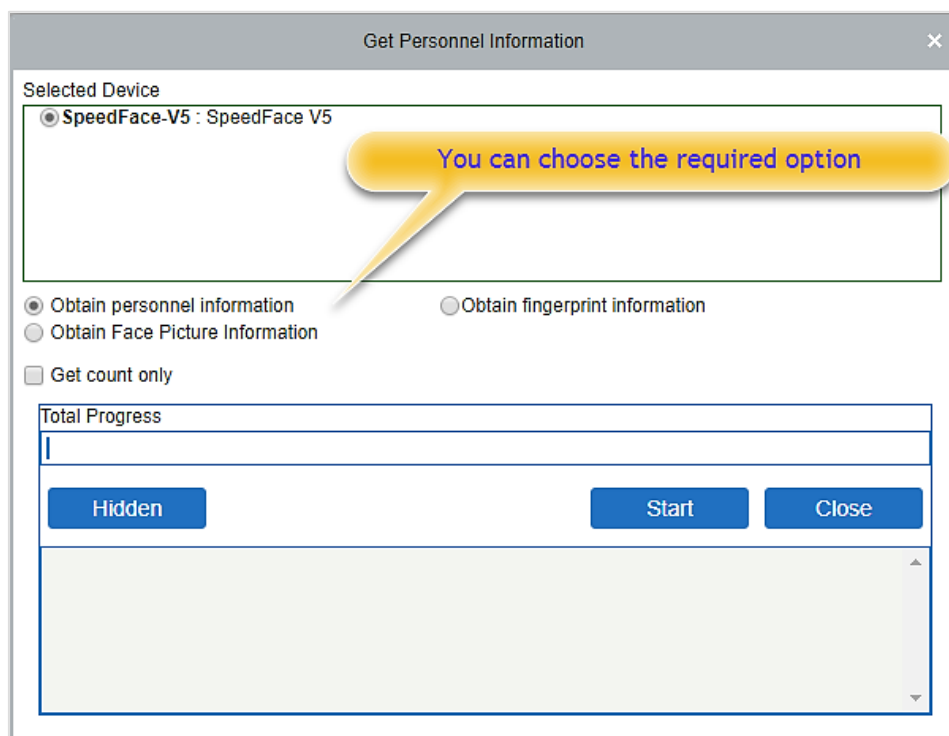


- **Get Device Option**

It gets the common parameters of the device. For example, it gets the firmware version after the device is updated.

- **Get Personnel Information**

It displays the current number of personnel, fingerprints, finger vein, and face templates in the device. The final value will be displayed in the device list.



- **Get Transactions**

It fetches the transactions from the device into the system. Two options are provided for this operation: Get New Transactions and Get All Transactions.

Get New Transactions: The system only gets new transactions since the last collected and recorded transaction. Repeated transactions will not be rewritten.

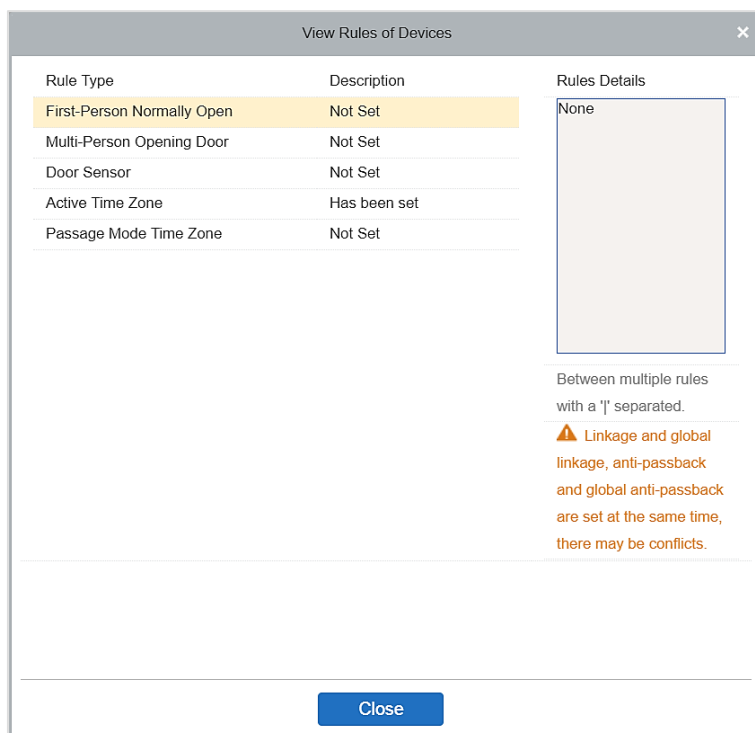
Get All Transactions: The system will get transactions again. Repeated entries will not be shown twice.

When the network status is healthy, and the communication between the system and device is normal, the system will acquire the transactions of the device in real-time and save them into the system database. However, when the network is interrupted, or communication is interrupted for any reason, and the transactions of the device have not been uploaded into the system in real-time, **Get Transactions** can be used to acquire transactions of the device manually. Besides, the system, by default, will automatically acquire transactions of the device at 00:00 on each day.

Note: An Access controller can store up to 100 thousand transactions. When transactions exceed this number, the device will automatically delete the oldest stored transactions (deletes 10 thousand transactions by default).

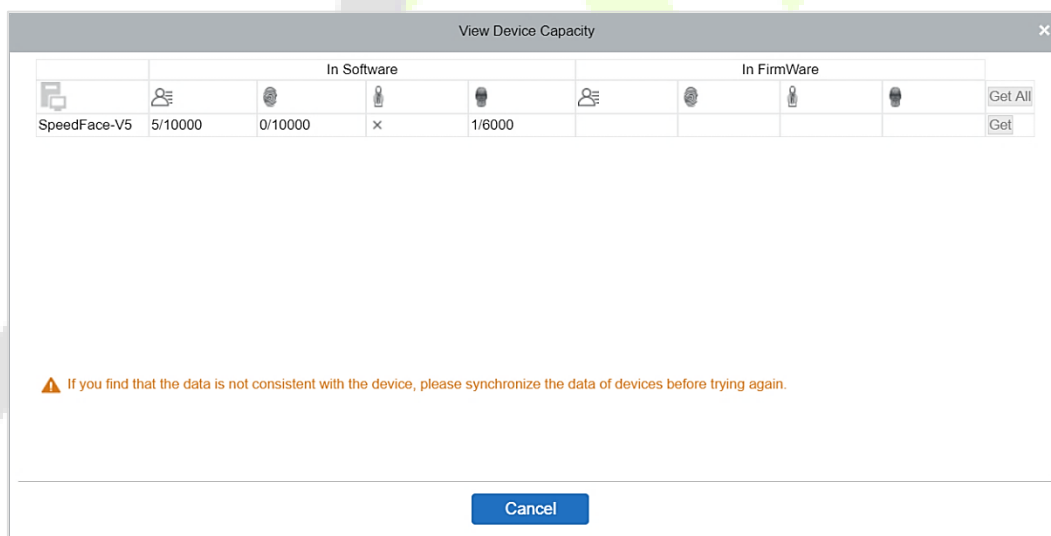
- **View Rules of Devices**

Shows the Access rules in the device.



- **View Device Capacity**

It displays the capacity of personnel's biometric details in the device.



- **Modify IP Address**

Select a device and click [**Modify IP address**] to open the modification interface. It will obtain a real-time network gateway and subnet mask from the device. (Failed to do so, you cannot modify the IP address). Then enter a new IP address, gateway, and subnet mask. Click **OK** to save and quit. This function is similar to [Modify IP Address Function] in [Device](#).

- **Modify Communication Password**

The system will ask for the old communication password before modifying it. After verification, enter the new password twice and click **OK** to alter the communication password.

Note: A Password should be a combination of numbers and letters of 6 digits.

Users can modify the fingerprint identification thresholds in the devices; it ranges from 35 to 70, and it is 55 by default. The system will read the thresholds from the device. Users can view the threshold devices list. More than one device can be changed by using the Batch operation function.

5.5 Add a user and a card

1. Click **Personnel Management > Personnel > New**.

Fields are as follows:

Personnel ID: An ID may consist of up to 9 characters, within the range of 1 to 79999999. It can be configured based on your requirements. The Personnel ID contains only numbers by default but may also include letters.

Notes:

1. When configuring a personnel number, check whether the current device supports the maximum length and whether letters can be used in Personnel ID.
2. To edit the settings of the maximum number of characters of each personnel number and whether letters can also be used, click **Personnel > Parameters**.

Department: Select from the drop-down menu and click **OK**. If the department was not set previously, only one department named **Company Name** would appear.

First Name/Last Name: The maximum number of characters is 50.

Gender: Set the gender of personnel.

Mobile Phone: Enter the phone number of the user.

Certificate Type: There are four types of certificates: ID, Passport, Driver's License, and others.

Certificate Number: Enter the Certificate number.

Birthday: Enter the employee's Date of Birth.

Email: Enter the employee's Email ID. The max length is 30 characters.

Device Verification Password: Set the password for verifying with the device using personnel accounts. It can only contain up to 6-digits. It cannot be the same with other user's password and the duress password.

Card number: The max length is 10, and it should not be repeated.

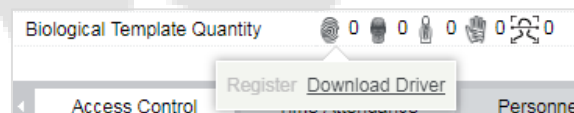
Personal Photo: The picture preview function is provided, supporting common picture formats, such as **JPG, JPEG, BMP, PNG, GIF**, etc. The best size is 120×140 pixels.

Browse: Click **Browse** to select a photo on your local drive to upload.

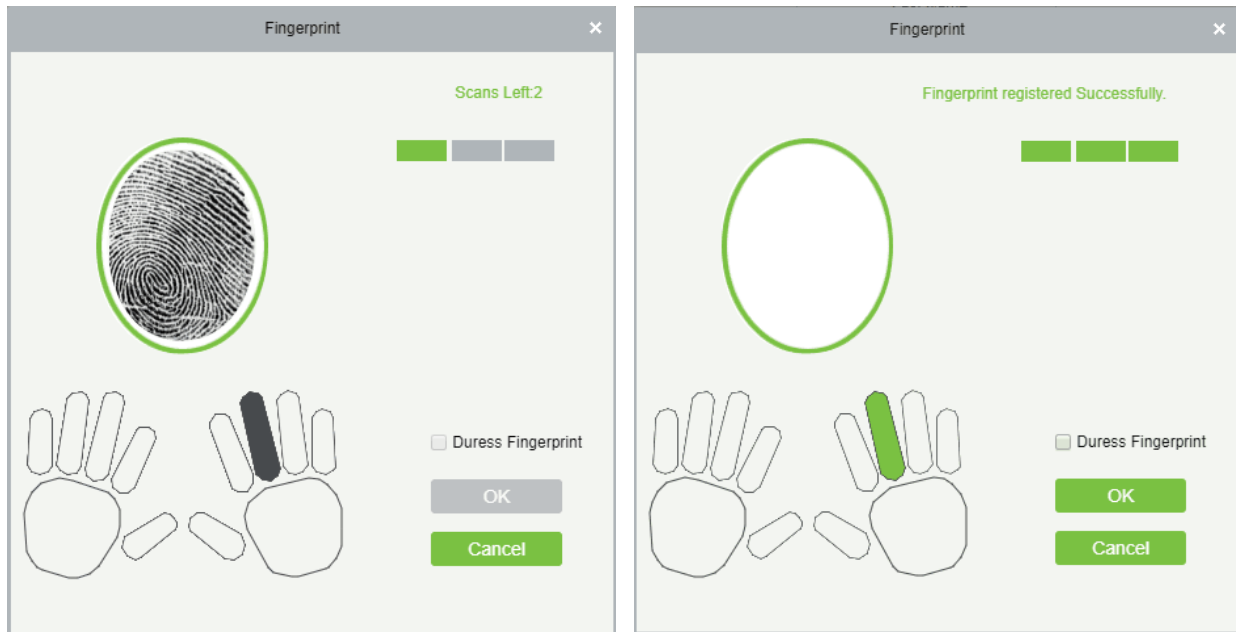
Capture: Taking a photo by a camera is allowed when the server is connected with a camera.

Register Fingerprint / Finger Vein: Enroll the Personnel Fingerprint, Finger Vein, Palm, or Face. To trigger the alarm and send the signal to the system, scan the Duress Fingerprint.

How to register fingerprint:



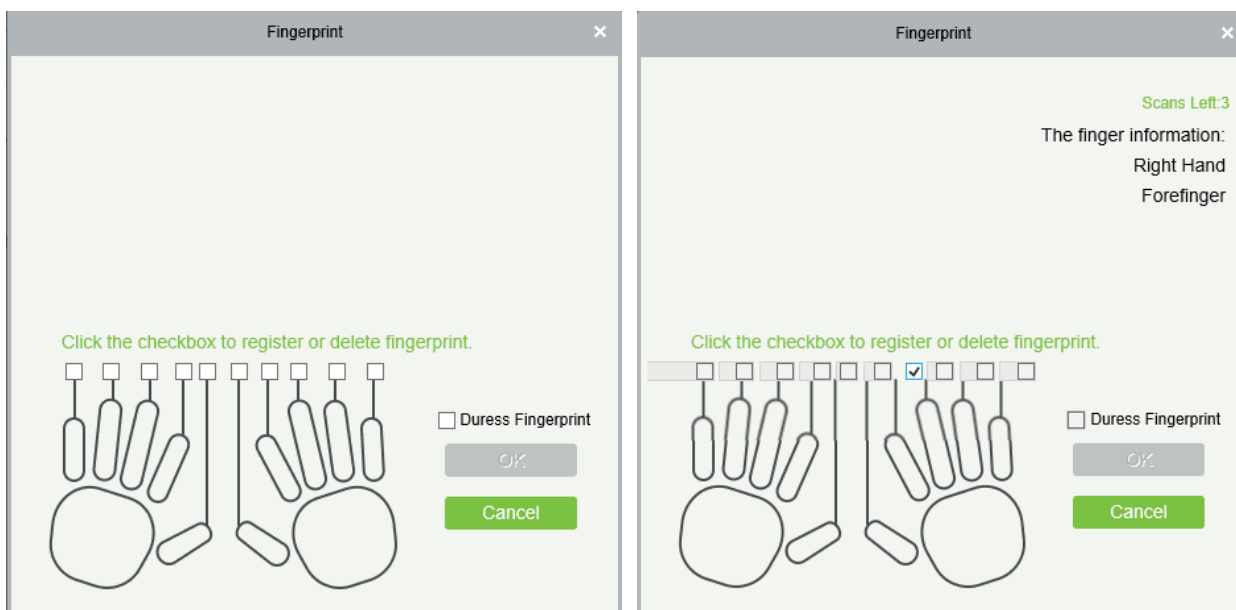
1. Move the cursor to the fingerprint icon position, a registration pop-up or driver download dialog box will appear, click **Register**.
2. Select a fingerprint, press the finger on the sensor continuously until the message "**Fingerprint registered Successfully**" is prompted.
3. Click **OK** to complete the registration.



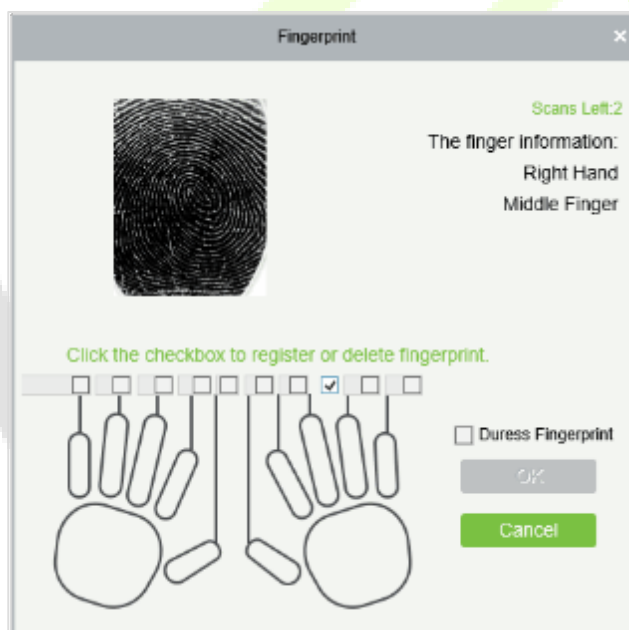
Click a fingerprint to delete. If you need to register a duress fingerprint, select the Duress Fingerprint checkbox.

Notes:

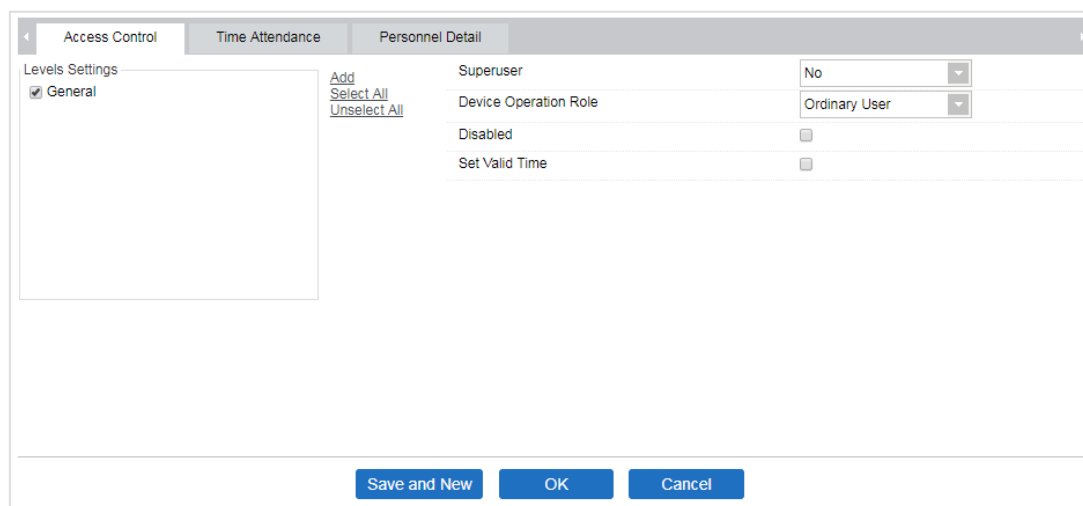
1. If fingerprints are duplicated, "Don't repeat the fingerprint entry" will be prompted.
2. If the fingerprint sensor driver is not installed, click "Install driver" and the system will prompt to download and install the driver.
3. After installing the fingerprint sensor driver, if the fingerprint register button is grey in IE browser while it is normal in other browsers (such as Firefox, Google), you can change the settings of IE browser, as per the following:
 - a. In Internet Explorer, click **Tools > Internet Options > Security > Credible Sites**, add <http://localhost> to the credible sites, then restart the Internet Explorer.
 - b. In Internet Explorer, click **Tools > Internet Options > Advanced > Reset** to pop up a dialog of Reset Internet Explorer Settings, click **Reset** to confirm, then restart the Internet Explorer (you may try when Point 1 does not help).
 - c. If all the above settings do not work, please execute the following operations (take IE11 browser as an example): click **Tools > Internet Options > Advanced > Security**, check the option [Allow the software to run or install even if the signature is ...], and remove the selection of [Check for server certificate revocation], then restart IE.
 - d. If the browser version is below IE8, the fingerprint registration page will be different:



- e. The system supports access from the Live20R fingerprint device and the fake fingerprint prevention function.

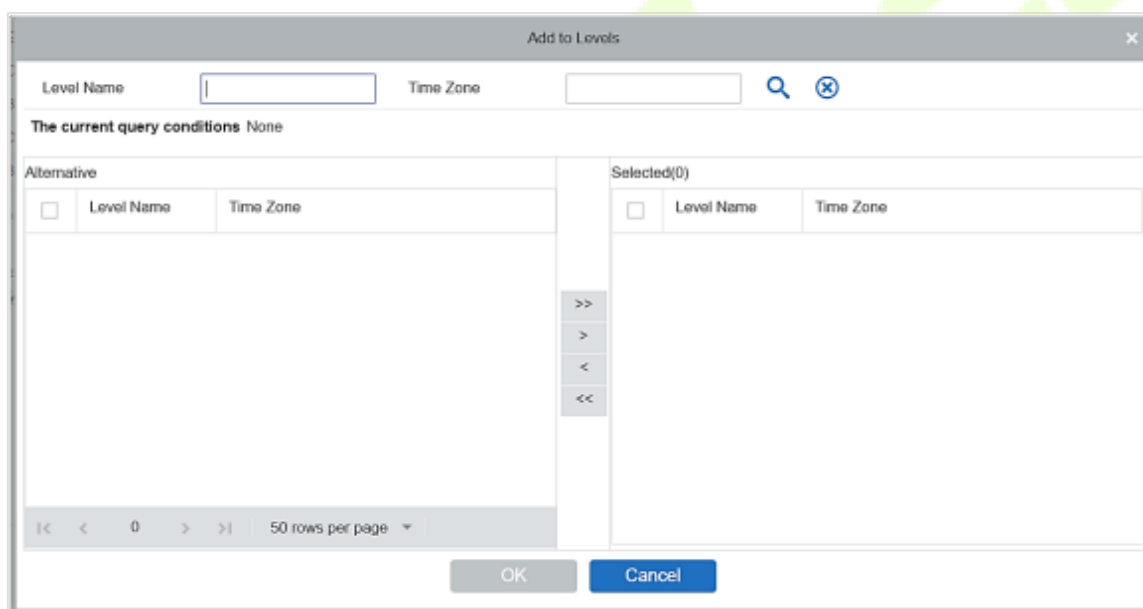


- 2. To set the Access Control parameters for the personnel, click **Access Control**.



Fields are as follows:

Level Settings: Click **Add**, then set the passage rules of particular positions in different time zone.



Superuser: In the access controller operation, a superuser is not restricted by the regulations on time zones and has extremely high door-opening priority.

Device Operation Role: It will define the authority level in the device of the user.

Disabled: Temporarily disables the personnel’s access level.

Set Valid Time: Doors can be set to open only within specific periods. If the checkbox is not selected, the door is always open.

Note: The system will automatically search for the relevant numbers in the departure library during verification.

The Personnel Information List, by default, is displayed as a table. If Graphic Display is selected, photos and numbers will be shown. Place the cursor on a photo to view the details about the personnel.

Notes:

1. Not all devices support the "Disabled" function. When a user adds a device, the system will notify the user whether the current device supports this function or not. Please upgrade the device to use this function.
2. Not all the devices support the "Set Valid Time" function. Some devices only allow the users to set the year, month, and day of the local time. When a user adds a device, the system will notify the user whether the current device supports this function or not. Please upgrade the device to use this function.
3. Click **Personnel Detail** to access the details and editing interface and enter the information.

Access Control	Time Attendance	Personnel Detail
Employee Type	----	Hire Type
Job Title		Street
Birthplace		Country
Home Phone		Home Address
Office Phone		Office Address

4. After entering the information, click **OK** to save and exit, the personal details will be displayed in the added list.

5.6 Access Control Settings

The Access Control system can set the access levels of the registered users, namely, allowing some personnel to open some doors by verification during a period. Access Control System Management primarily includes Access Control Time Zones, Access Control Holiday, Door Settings, Access Levels, Personnel Access Levels, Real-Time Monitoring, and Reports, etc.

Access control system parameters

- 255 time zones.
- Unlimited access levels.
- Three-holiday types and 96 holidays in total.
- Anti-passback function.
- Multi-Card Opening function.
- Real-time monitoring.
- Interlock function.
- Linkage function.
- First-Card Normal Open function.
- Reader Settings.
- Auxiliary I/O Settings.

For more details, please refer to "ZKBioAccess User Manual."

5.7 Real-time monitoring

Click **Access Device > Real-Time Monitoring**.

It monitors the status and real-time events of doors configured to the access control panels in the system

in real-time, including normal events and abnormal events (including alarm events).

The Real-Time Monitoring interface is shown as follows:

Icons	Status	Icons	Status
	Device blocked		Door Offline
	Door sensor not set; relay closed		Door sensor not set; relay opened
	Door sensor not set, and the current firmware does not support the current action on the device		
	Online status Door closed; Relay closed		Online status Door closed; Relay opened
	Online status Door closed, and the current firmware does not support the current action on the device		
	Online status Door opened; Relay closed		Online status Door opened; Relay opened
	Online status Door opened, and the current firmware does not support the current action on the device		
	Door opened alarm; Relay closed		Door opened alarm; Relay opened
	Door opening timeout, Relay closed		Door opening timeout, Relay opened
	Door opening timeout and the current firmware does not support the current action on the device		
	Door opening timeout, Relay closed/Door Sensor Closed		Door opening timeout, Relay opened/Door Sensor Closed
	Door closed alarm; Relay closed		Door closed alarm; Relay opened
	Door closed alarm, indicates that the current firmware does not support the current action on the device		
	Door sensor not set, Door alarm, Relay closed		Door sensor unset, Door alarm, Relay opened
	Door opening timeout, without relay status/Door Sensor Closed		Door lock

Without relay status, it indicates that the current firmware does not support the action on the device.

The screenshot displays the Access Control Panel interface. At the top, there are search filters for Area, Status, Device Name, and Serial Number. Below these are tabs for Door, Auxiliary Input, and Auxiliary Output. A toolbar contains buttons for All Doors, Remote Opening, Remote Closing, Cancel Alarm, and Remote Normally Open. Three door icons are shown with labels: SpeedFace-V5-1, 192.168.213.99-1, and 192.168.213.99-2. A status bar indicates 'Current Total:3' with indicators for Online (3), Disable (0), Offline (0), and Unknown (0). Below this is a 'Real-Time Events' table with columns for Time, Area, Device, Event Point, Event Description, Card Number, Personnel, Reader Name, and Verification Mode. The table lists several events, including 'Device Started' and 'Normal Verify Open'. At the bottom, there is a summary bar showing 'Total Received: 6' and 'Normal:6', 'Exception:0', 'Alarm:0', along with buttons for 'Clear Data Rows', 'Event Description', and 'Show Photos'.

Time	Area	Device	Event Point	Event Description	Card Number	Personnel	Reader Name	Verification Mode
2018-12-27 17:48:46	Area Name	192.168.213.99(3633160800001)		Device Started			Other	Other
2018-12-27 17:45:16	Area Name	192.168.213.99(3633160800001)		Device Started			Other	Other
2018-12-27 17:43:24	Area Name	192.168.213.99(3633160800001)		Connected to the server			Other	Other
2018-12-27 17:43:06	Area Name	192.168.213.99(3633160800001)		Device Started			Other	Other
2018-12-27 17:43:01	Area Name	SpeedFace-V5(CGFE184760043)	SpeedFace-V5-1	Normal Verify Open		575(Jeff)	SpeedFace-V5-1-Out	Face
2018-12-27 17:42:53	Area Name	SpeedFace-V5(CGFE184760043)	SpeedFace-V5-1	Normal Verify Open		575(Jeff)	SpeedFace-V5-1-Out	Face

Different icons represent the status as follows:

1. Door

Remote Opening/Closing: It can control one door or all the doors.

To control a single door, right-click on it, and click **Remote Opening/ Closing** in the pop-up window. To manage all entries, directly click **Remote Opening/ Closing** in Current All option.

In the remote opening, the user can define the door opening duration (The default is 15s). You can select **[Enable Intraday Passage Mode Time Zone]** to enable the intraday door passage mode time zones or set the door to Normal Open, and then the door will not be limited to any time zones (can be opened at any time).

To close a door, select **[Disable Intraday Passage Mode Time Zone]** first, to avoid enabling other normal open time zones to open the door, and then select **[Remote Closing]**.

Note: If **[Remote Opening /Closing]** fails, check whether the devices are disconnected or not. If disconnected, check the network connectivity.

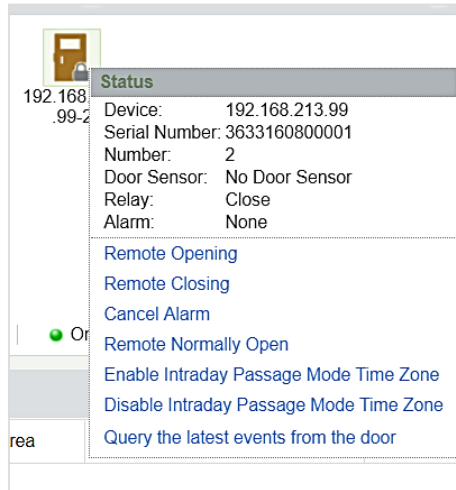
Cancel the alarm: Once an alarming door pops-up over the interface, the alarm sound will be played. Alarm cancellation can be made for a single door and all the entries. To control a single door, move the cursor over the door icon, a menu will pop-up, then click **Remote Opening/ Closing** on the menu. To manage all the doors, directly click **Remote Opening/ Closing** in Current All option.

Note: If **Cancel the alarm** fails, check if any devices are disconnected. If found disconnected, check the network.

Remote Normally Open: It will set the device as normal open by remote.

● **Quick Management of Doors**

If you move the cursor over a door’s icon, you can quickly perform the above-explained operations. Besides, you can query the latest events from the door.

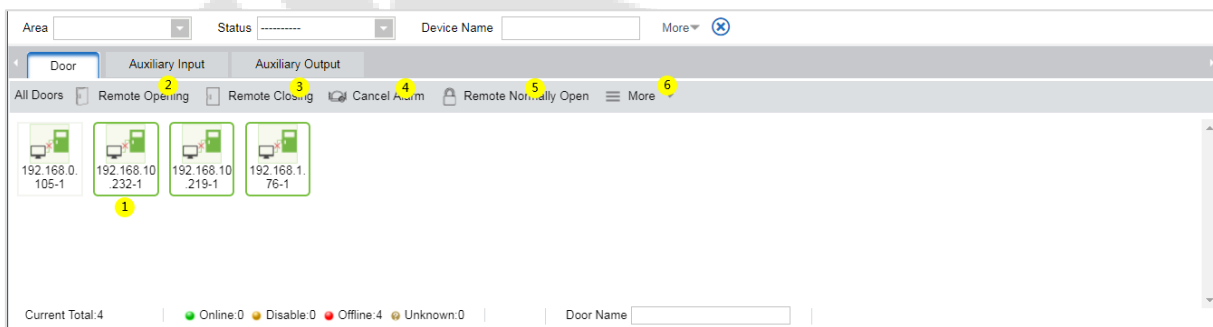


Query the latest events from the door: Click to view the current events on the door quickly.

Issue card to a person: If you swap an unregistered card, a record with a card number will pop-up in a real-time monitoring interface. Right-click that card number, and a menu will pop-out. Click “Issue card to person,” to assign that card to one person.

● **Multiple selections**

You can select several doors at the same time to perform operations such as remote opening, remote closing, canceling alarm, etc. Double-click the door icon to edit the door properties.

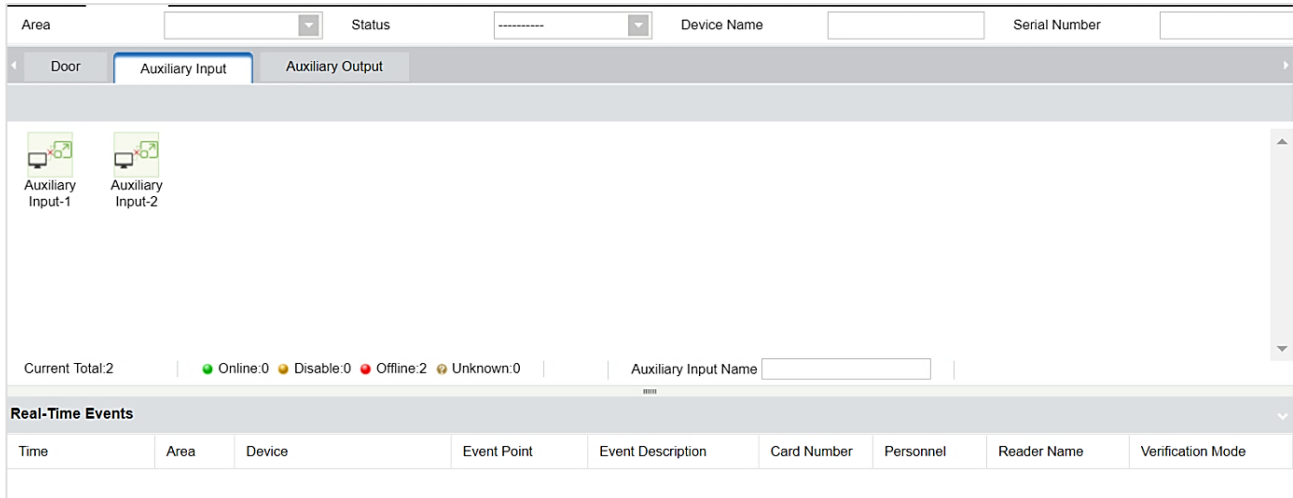


● **Event monitoring**

The system will automatically acquire the records of devices being monitored (by default, it displays 200 records), including normal and abnormal access control events (including alarm events). Normal events will appear in green; alarm events will appear in red; other abnormal events will appear in orange.

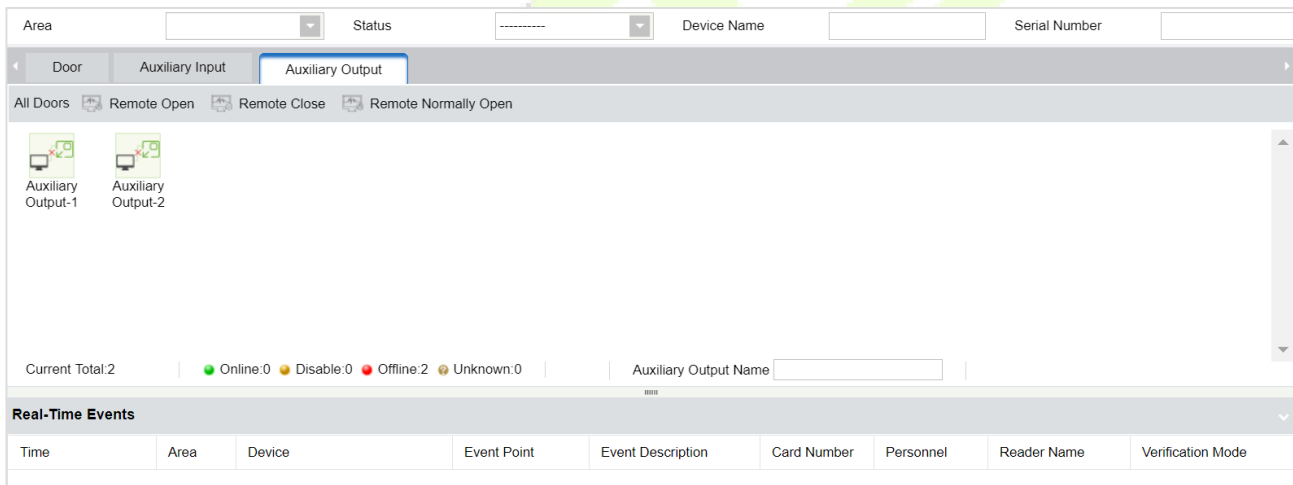
2. Auxiliary Input

It monitors the current auxiliary input events in real-time.



3. Auxiliary Output

Here you can perform Remote open, Remote Close, Remote Normally Open functions.



5.8 Reports

Since the data quantity of access control event control is large, you can view the specific access control events through query conditions. By default, the system displays the last three months' transactions. Click **Reports > All Transactions** to view all the transactions.

The time from 2018-09-27 00:00:00 To 2018-12-27 23:59:59 Personnel ID Device Name More

The current query conditions The time from:(2018-09-27 00:00:00) To:(2018-12-27 23:59:59)

Refresh Clear All Data Export

Event ID	Time	Device Name	Event Point	Event Description	Media File	Personnel ID	First Name	Last Name	Card Number	Department Number	Department Name	Reader Name	Verification Mode	Area Name	Remark
-1	2018-12-27 19:15:48	SpeedFace-V5		Disconnected								Other	Other	Area Name	
-1	2018-12-27 17:57:30	192.168.213.99		Disconnected								Other	Other	Area Name	
64376	2018-12-27 17:56:04	192.168.213.99		Device Started								Other	Other	Area Name	
64375	2018-12-27 17:48:46	192.168.213.99		Device Started								Other	Other	Area Name	
64374	2018-12-27 17:45:16	192.168.213.99		Device Started								Other	Other	Area Name	
64373	2018-12-27 17:43:24	192.168.213.99		Connected to the servr								Other	Other	Area Name	
64372	2018-12-27 17:43:06	192.168.213.99		Device Started								Other	Other	Area Name	
1255	2018-12-27 17:43:01	SpeedFace-V5	SpeedFace-V5-1	Normal Verify Open		575	Jeff			1	ZKTeco	SpeedFace-V5-1-Out	Face	Area Name	
1254	2018-12-27 17:42:53	SpeedFace-V5	SpeedFace-V5-1	Normal Verify Open		575	Jeff			1	ZKTeco	SpeedFace-V5-1-Out	Face	Area Name	
-1	2018-12-27 17:25:29	192.168.213.99		Disconnected								Other	Other	Area Name	
64371	2018-12-27 13:56:46	192.168.213.99		Connected to the servr								Other	Other	Area Name	
64370	2018-12-27 13:56:01	192.168.213.99		Device Started								Other	Other	Area Name	
1253	2018-12-27 11:46:48	SpeedFace-V5	SpeedFace-V5-1	Normal Verify Open		575	Jeff			1	ZKTeco	SpeedFace-V5-1-Out	Face	Area Name	

Media File: You can view or download the photos and videos.

Clear All Data: This function is used to clear all the transactions. Click **Clear All Data**. In the appearing pop-up, click OK to remove all the transactions.

Export: You can export all the transactions in Excel, PDF, and CSV format.

All Transactions

Event ID	Time	Device Name	Event Point	Event Description	Personnel ID	First Name	Last Name	Card Number	Department Number	Department Name	Reader Name	Verification Mode	Area Name	Remark
-1	2018-12-27 19:15:48	SpeedFace-V5		Disconnected							Other	Other	Area Name	
-1	2018-12-27 17:57:30	192.168.213.99		Disconnected							Other	Other	Area Name	
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64375	2018-12-27 17:48:46	192.168.213.99		Device Started							Other	Other	Area Name	
64374	2018-12-27 17:45:16	192.168.213.99		Device Started							Other	Other	Area Name	
64373	2018-12-27 17:43:24	192.168.213.99		Connected to the server							Other	Other	Area Name	
64372	2018-12-27 17:43:06	192.168.213.99		Device Started							Other	Other	Area Name	
1255	2018-12-27 17:43:01	SpeedFace-V5	SpeedFace-V5-1	Normal Verify Open	575	Jeff			1	ZKTeco	SpeedFace-V5-1-Out	Face	Area Name	
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1253	2018-12-27 11:46:48	SpeedFace-V5	SpeedFace-V5-1	Normal Verify Open	575	Jeff			1	ZKTeco	SpeedFace-V5-1-Out	Face	Area Name	

6 Statement on the Right to Privacy

Dear Customers,

Thank you for choosing this hybrid biometric recognition product, which was designed and manufactured by ZKTeco. As a world-renowned provider of core biometric recognition technologies, we are constantly developing and researching new products, and strive to follow the privacy laws of each country in which our products are sold.

We Declare That

1. All our civilian fingerprint recognition devices capture only characteristics, not fingerprint images, and do not involve privacy protection.
2. None of the fingerprint characteristics that we capture can be used to reconstruct an image of the original fingerprint and do not involve privacy protection.
3. As the provider of this device, we will assume no direct or indirect responsibility for any consequences that may result from your use of this device.
4. If you would like to dispute human rights or privacy issues concerning your use of our product, please directly contact your dealer.

Our other law-enforcement fingerprint devices or development tools can capture the original images of citizen's fingerprints. As to whether or not this constitutes an infringement of your rights, please contact your Government or the final supplier of the device. As the manufacturer of the device, we will assume no legal liability.

Note:

The Chinese law includes the following provisions on the personal freedom of its citizens:

1. There shall be no illegal arrest, detention, search, or infringement of persons.
2. Personal dignity is related to personal freedom and shall not be infringed upon.
3. A citizen's house may not be infringed upon.
4. A citizen's right to communication and the confidentiality of that communication is protected by the law.

As a final point, we would like to further emphasize that biometric recognition is an advanced technology that will be certainly used in E-commerce, banking, insurance, judicial, and other sectors in the future. Every year the world is subjected to major losses due to the insecure nature of passwords. The Biometric products serve to protect your identity in high-security environments.

7 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 or Toxic substances and their quantities

Component Name	Hazardous/Toxic Substance/Element					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr6+)	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
Chip Resistor	×	○	○	○	○	○
Chip Capacitor	×	○	○	○	○	○
Chip Inductor	×	○	○	○	○	○
Diode	×	○	○	○	○	○
ESD component	×	○	○	○	○	○
Buzzer	×	○	○	○	○	○
Adapter	×	○	○	○	○	○
Screws	○	○	○	×	○	○

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

×

× 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. 26, 188 Industrial Road,
Tangxia Town, Dongguan, China.
Phone : +86 769 - 82109991
Fax : +86 755 - 89602394
www.zkteco.com

