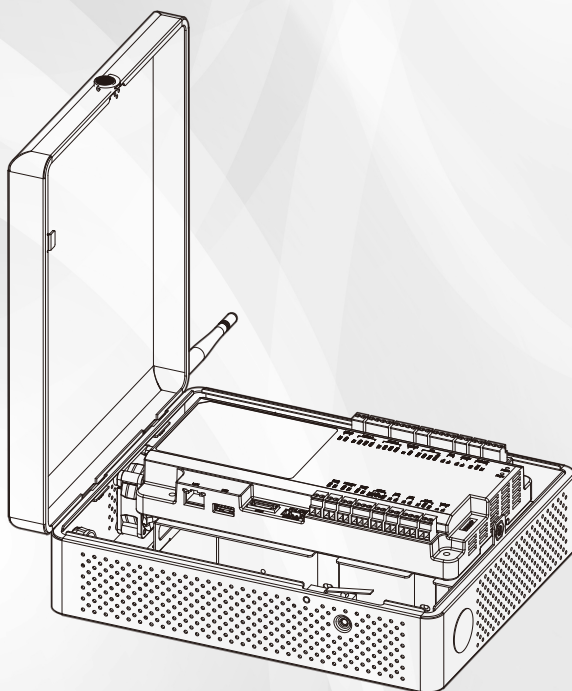


Quick Start Guide

CVEdge160

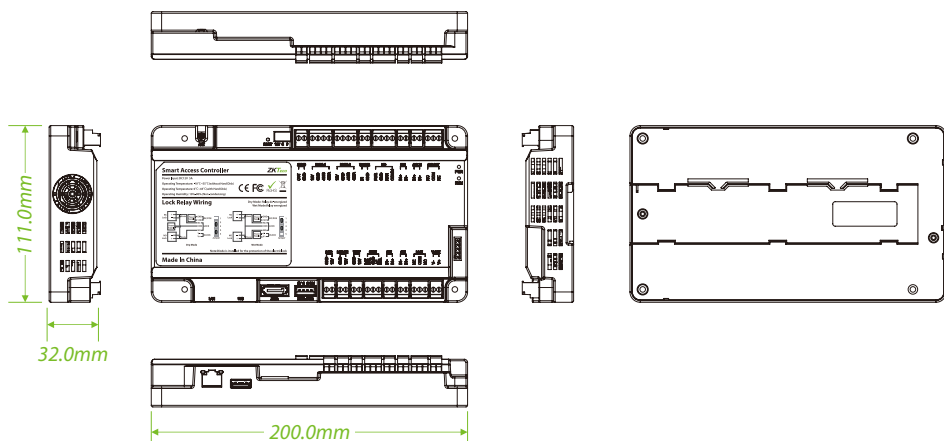
Version: 2.0



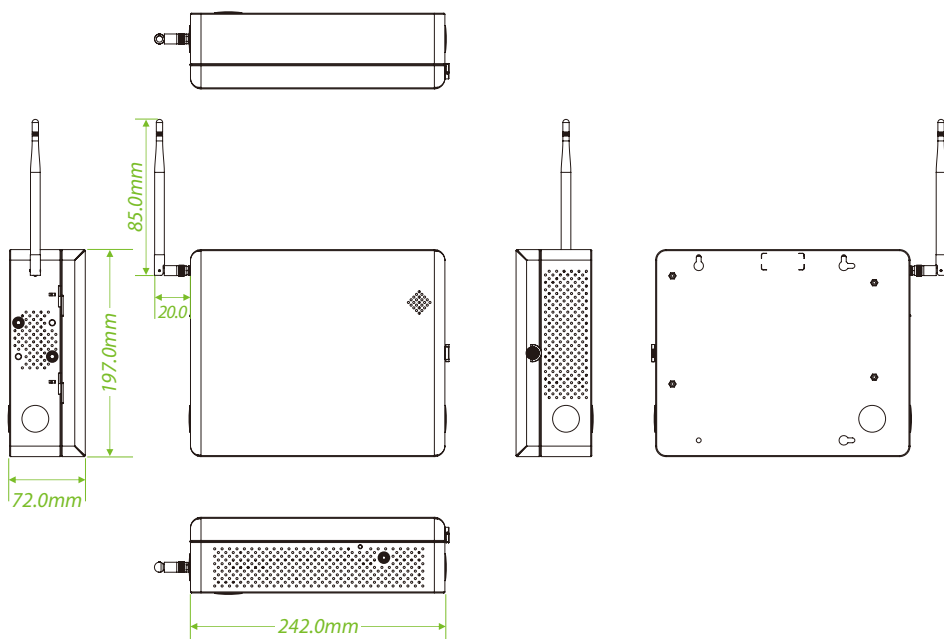
Due to regular upgrades of systems and products, ZKTeco could not guarantee exact consistency between the actual product and the written information in this manual.

1. Overview

CVEdge160



Enclosure

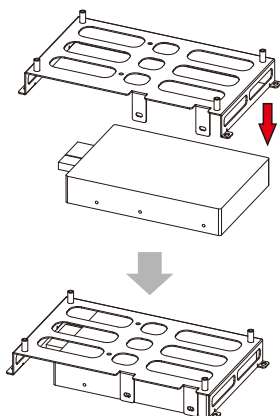


2. Installing the Controller into the Enclosure

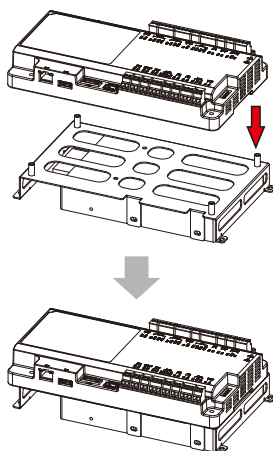
❖ Installing the controller into the enclosure

- ① Secure the hard drive in the bracket.
- ② Then use screws to fix the controller to the bracket.
- ③ Finally, install the bracket into the enclosure and insert the rubber plugs on both sides.

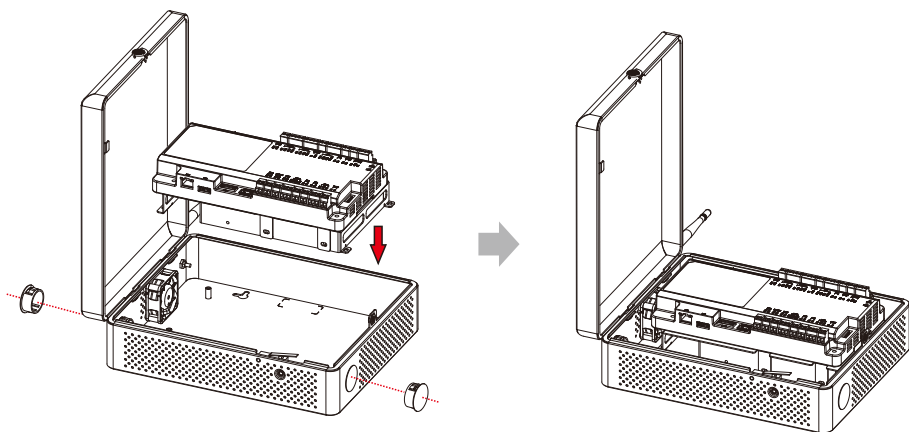
①



②



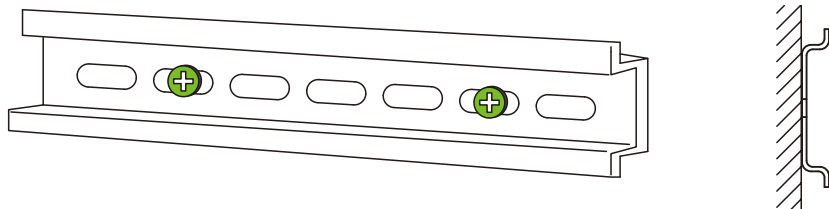
③



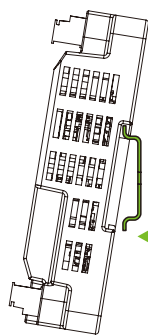
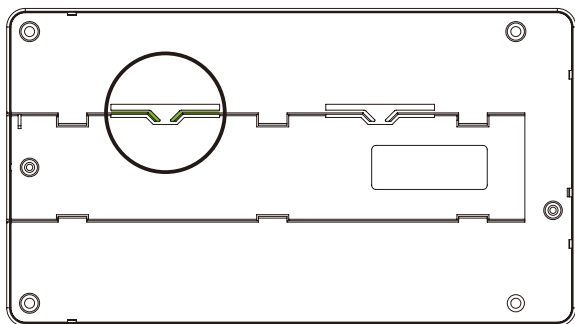
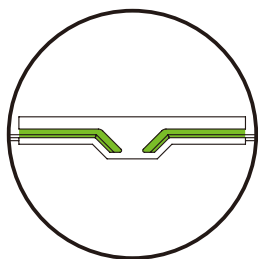
❖ Installation with 35mm rail

- ① Mount the rail directly onto a flat surface, as illustrated in the figure below. Then use screws to fix the controller to the bracket.
- ② Engage the hooks on the top of the controller with the rail and firmly press the controller onto the rail until it locks into place.

①



②



1. Catch the upper hooks onto the rail.

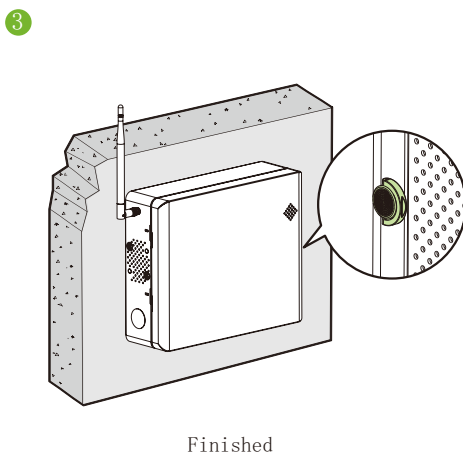
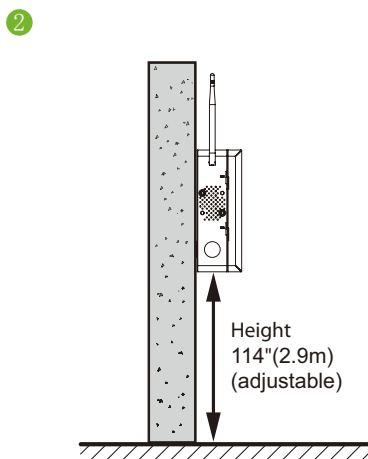
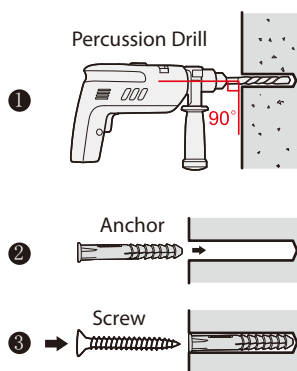
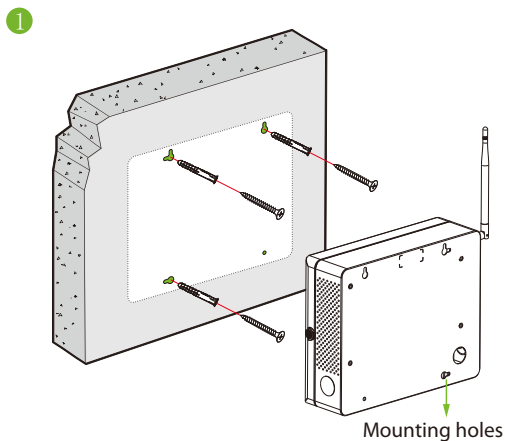
2. Press in on the controller.



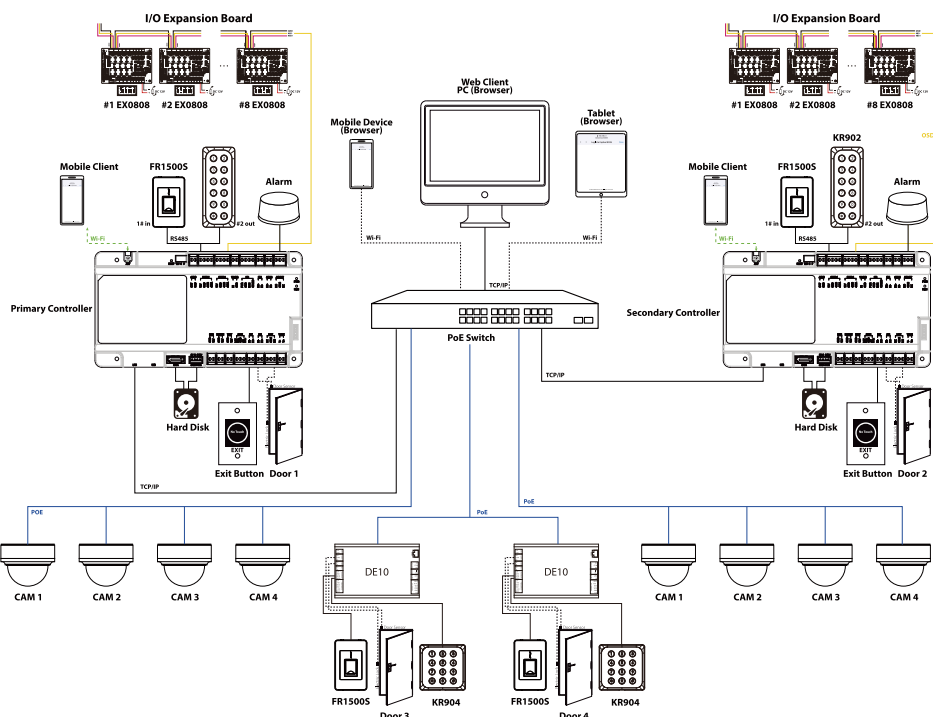
3. Make sure the controller is locked into place.

❖ Installation of the Metal Enclosure on the wall

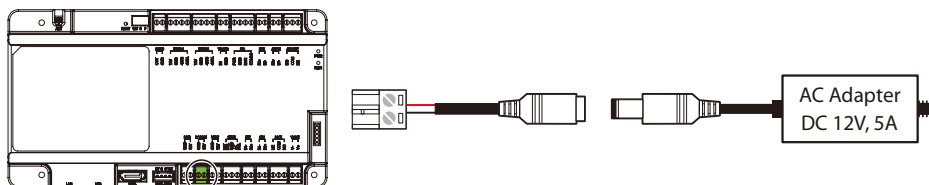
- ① According to the mounting holes position of the metal enclosure. Drill three mounting holes in a suitable spot on the wall and make sure it is about 114 inches (2.9m) above the ground, which can be adjusted according to actual needs. Take care to leave at least 3.937 inches (100 mm) on the left side of the metal enclosure.
- ② Insert anchors into the mounting holes and place self-tapping screws into them.
- ③ Then hook the metal enclosure onto the wall as shown below. Secure the metal enclosure in place.



3. Controller System Installation



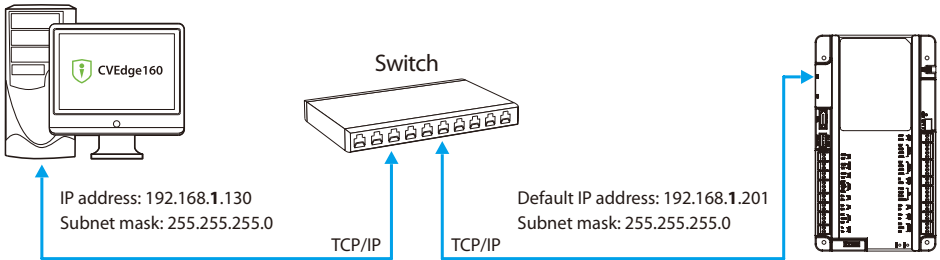
4. Power Connection



- Recommended AC adapter: **12V, 5A**
- To share power with other devices, use an AC adapter with higher current ratings.

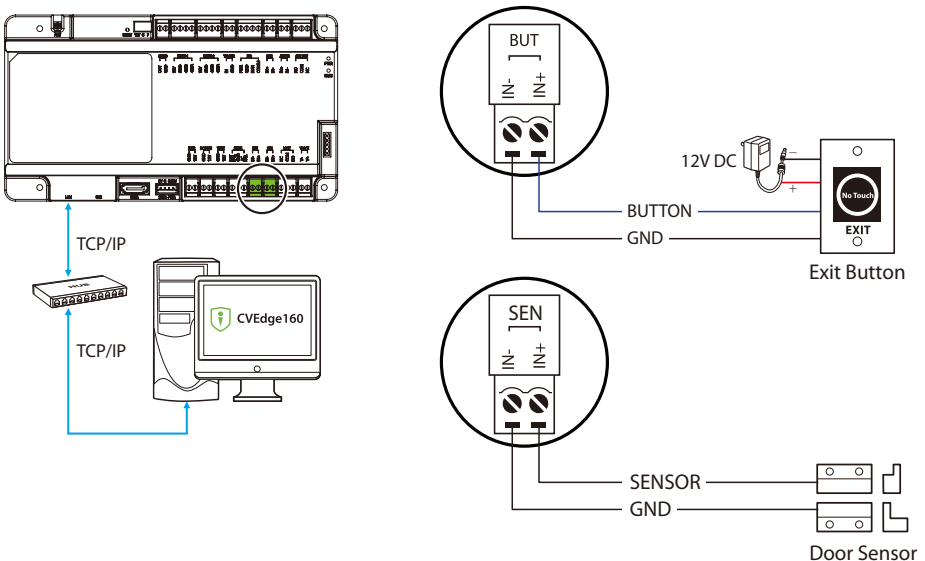
5. Ethernet Connection

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

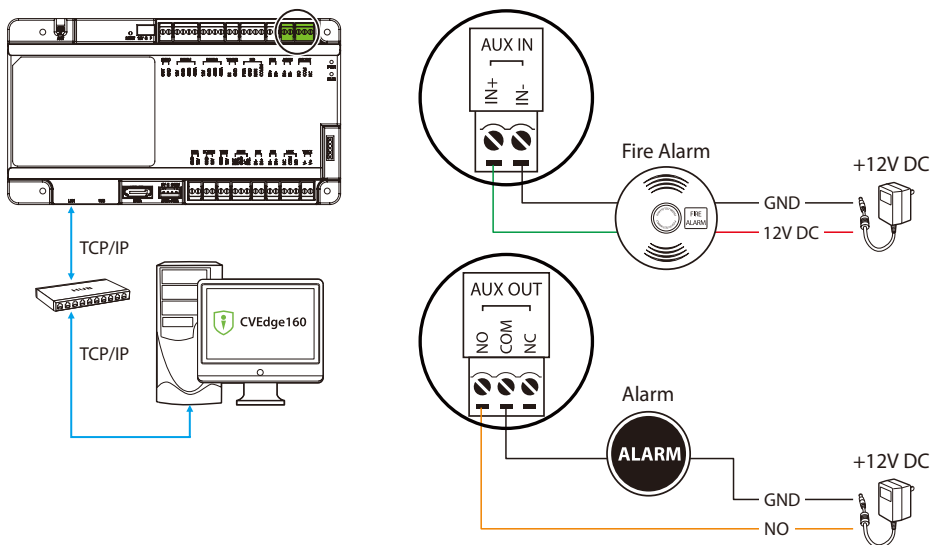


Note: In LAN, IP addresses of the server (PC) and the device must be in the same network segment when connecting to the software.

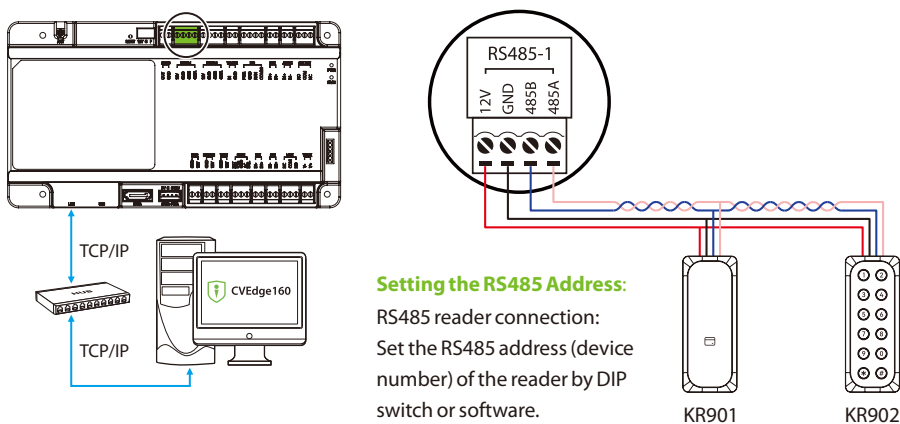
6. Exit Button & Door Sensor Connection



7. Auxiliary Input & Output Connection



8. RS-485 Reader Connection

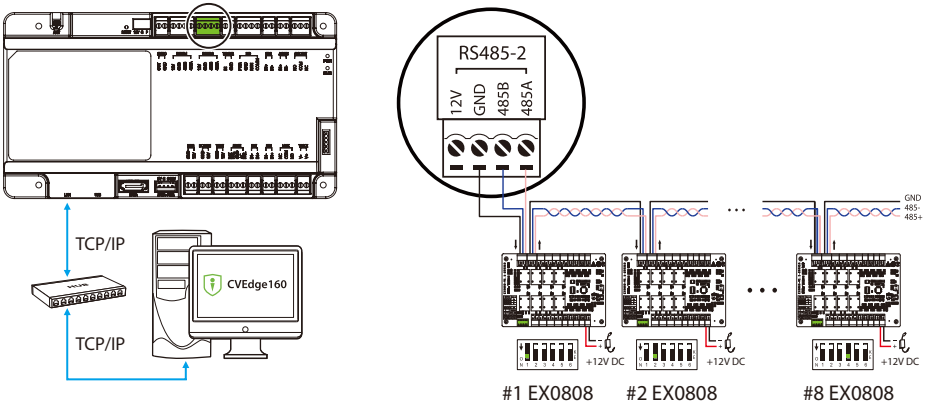


Setting the RS485 Address:

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

Controller	RS485 address	1	2
CVEdge160		#1Door IN	#1Door OUT

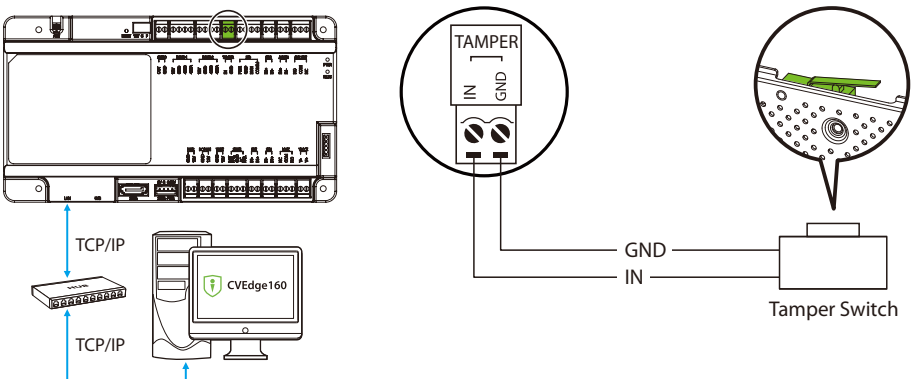
9. EX0808 Connection



Important Notes:

1. Configure the ZK485 protocol through the RS485 port to connect up to eight EX0808 expansion boards to expand a certain number of auxiliary inputs and auxiliary outputs.
Note: Set DIP switch #5 of the expansion board to the OFF position.
2. The RS485 address of each EX0808 is set via the DIP switch before power is applied.
3. Each EX0808 requires a separate power supply. Up to eight auxiliary input devices and eight auxiliary output devices can be connected to one Ex0808.

10. Tamper Switch Connection

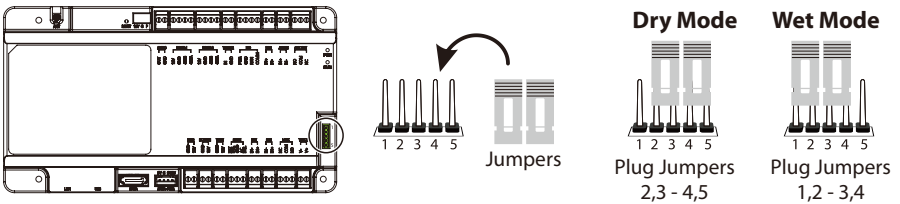


11. Lock Relay Connection

❖ Switching dry and wet modes

Dry Mode supports separate power supply for the lock using an external independent power supply. Wet Mode supports the lock sharing power with the controller. The factory default jumper setting is dry mode. Switch between wet and dry mode by following the steps below.

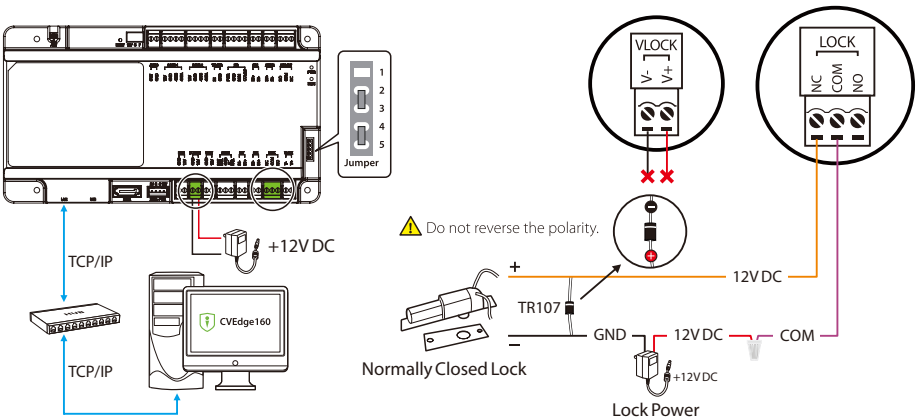
1. Select the appropriate lock relay and locate its jumper on the controller.
2. Remove the jumpers and change the jumper from  to .
3. Once this is done you can follow the wiring of the controller sharing power with the lock.



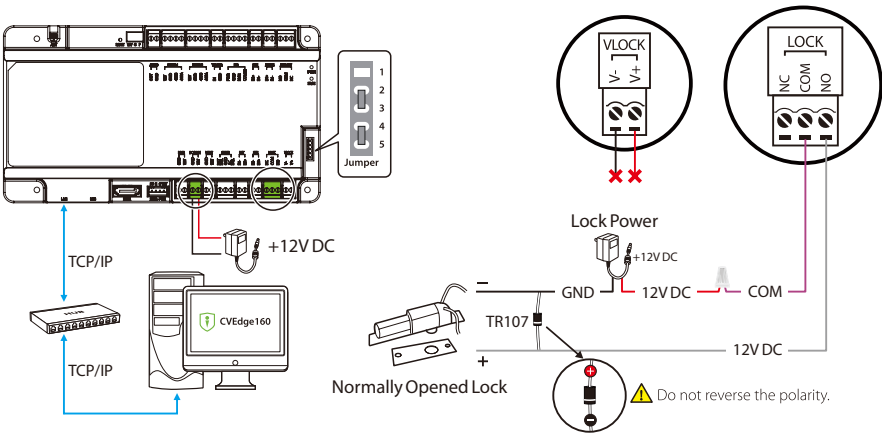
❖ Controller not sharing power with the lock(Dry Connect)

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

Normally closed lock powered from lock terminal

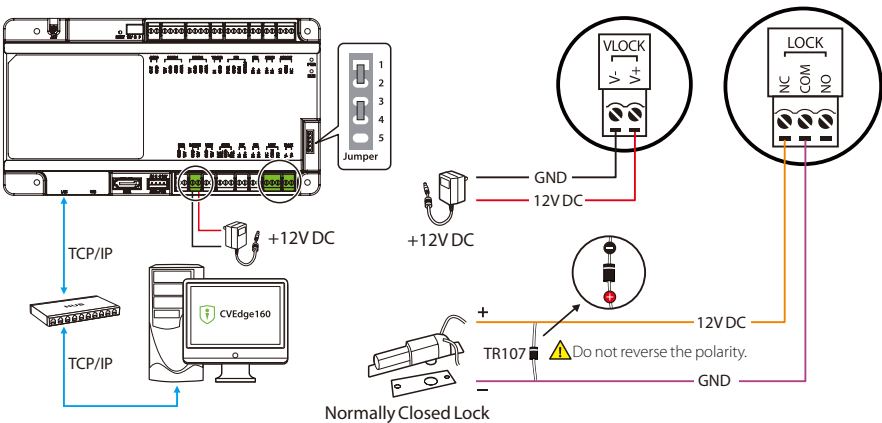


Normally opened lock powered from lock terminal

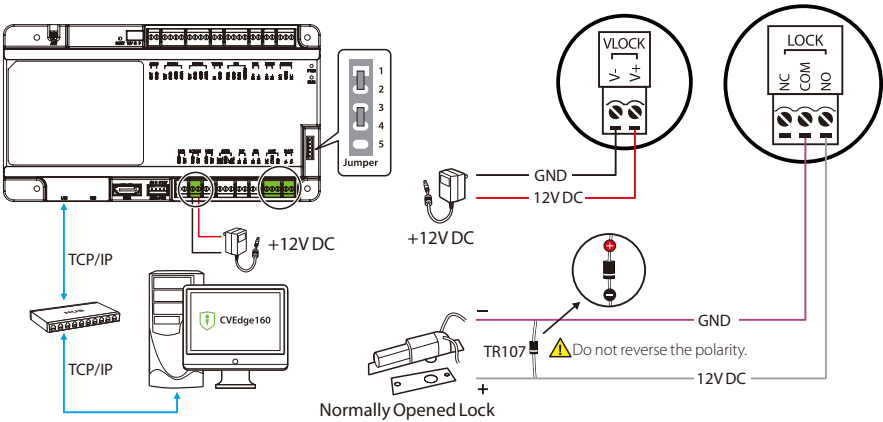


❖ Controller sharing power with the lock (Wet Connect)

Normally closed lock powered from lock terminal

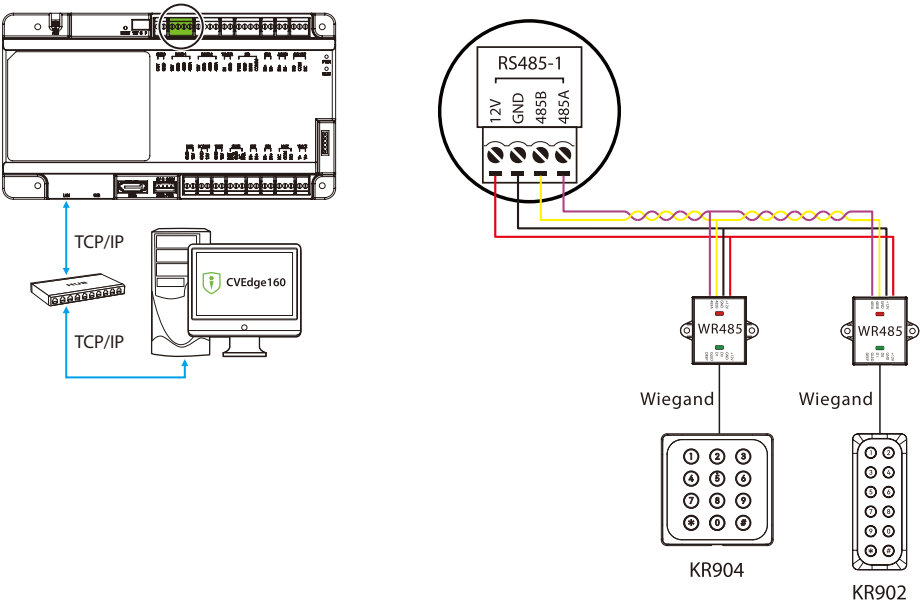


Normally opened lock powered from lock terminal



12. Wiegand Reader Connection

The CVEdge160 supports the WR485 for conversion to the Wiegand interface, allowing connection to up to two Wiegand readers for door access via card and password verification.



Note: For the corresponding controller device, navigate to **Access Setting > RS485 Port Setting**, and the Reader RS485 Port must be configured with ZK485 encryption.

13. Connect to the Web Server

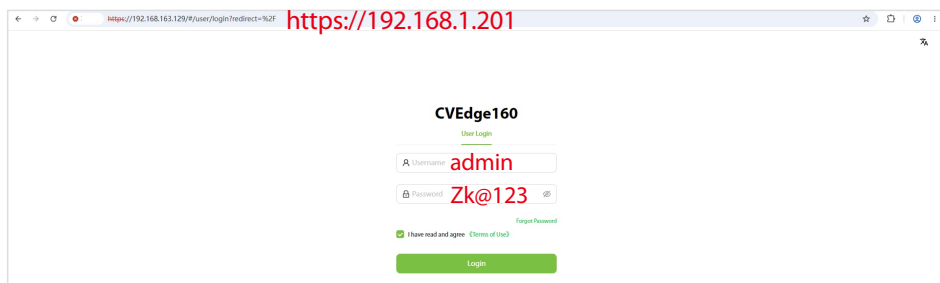
1. Opening the Web Server on the browser

After powering on the controller, connect it using a network cable. Access the webserver by entering the IP address in the address bar of your browser. The IP address is set as: <https://device IP address>. The default IP is 192.168.1.201. (for example: <https://192.168.1.201>).

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

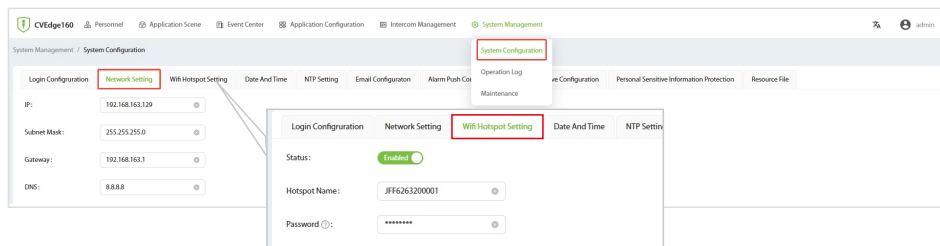
2. Login to the WebServer

After entering the login screen, enter the default administrator account and password (the default account is **admin** and the password is **Zk@123**), and click the [Login] button. When you log in to the web server for the first time, you will be prompted to change the administrator's password.



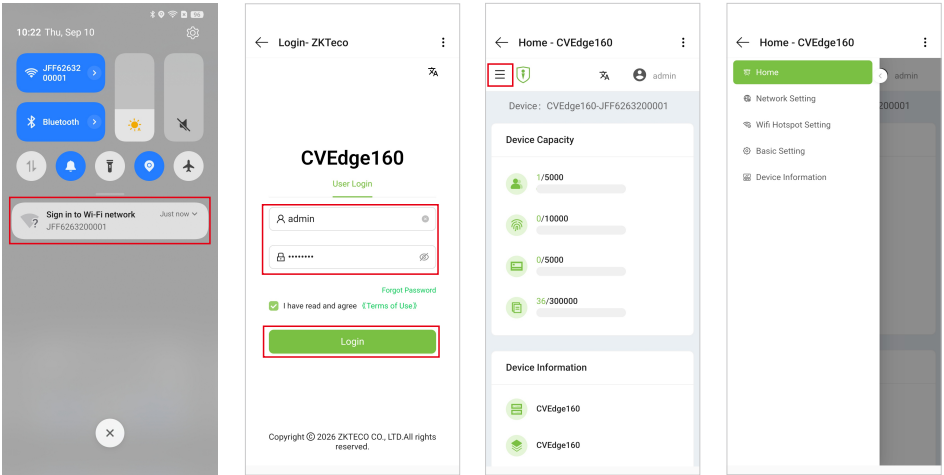
3. Ethernet & Wi-Fi Hotspot Settings

Click **[System Management]** - **[System Configuration]** in the top menu bar to enter the parameter setting interface. Then click **[Network Setting]** to modify the IP address of the controller. Click **[Wi-Fi Hotspot Setting]** to set the hotspot name and password.



Access CVEdge160 server via mobile phone:

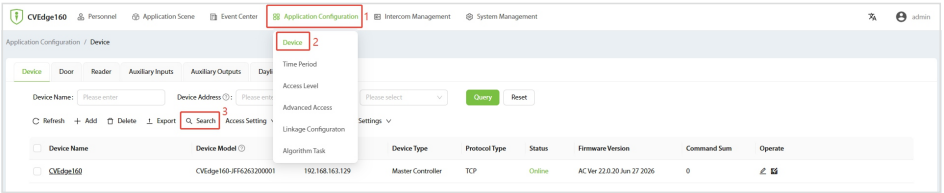
1. After completing the setup, enable the Wi-Fi function on your smartphone and connect to this hotspot. Connect to the hotspot as prompted, then proceed to the CVEdge160 login screen.
2. Enter your username and password. The default username is admin, and the default password is ZK@123.
3. After logging in, you can view or configure certain parameters.

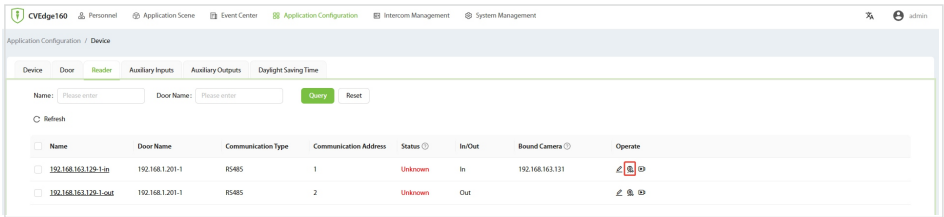
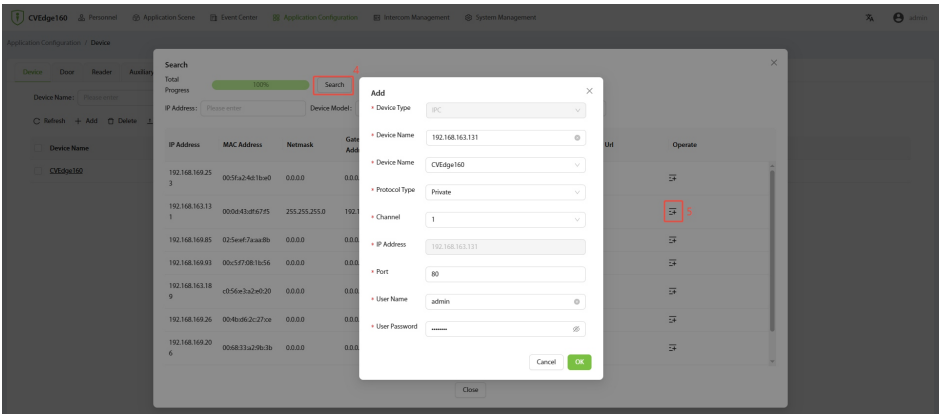


4. Adding device

The types of devices that can be added are secondary controller, door unit exboard, I/O exboard, and IPC. There are two ways to add by searching and adding manually, depending on the device.

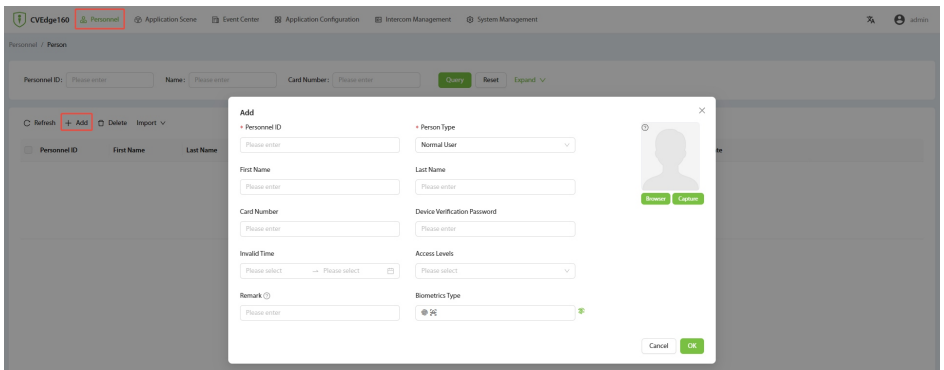
1. Click **[Application Configuration]** > **[Device]** > **[Search]**, to open the Search interface.
2. Click **[Search]**, and it will prompt Searching.....
3. After searching, the list and total number of devices will be displayed.
4. In the list of searched devices, select the device you want to add, click the ➕ Add icon, and then enter the relevant parameters in the pop-up window and click **[OK]**.
5. Click **Reader** to enter the reader settings interface. Click the 📷 icon and select a camera to bind.





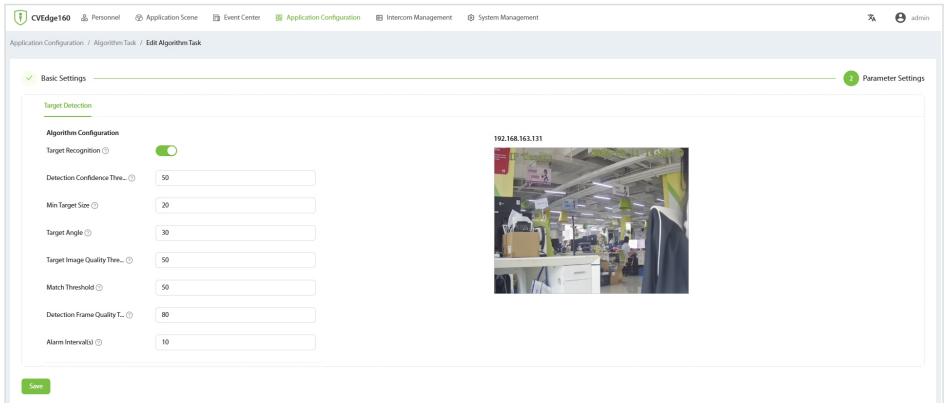
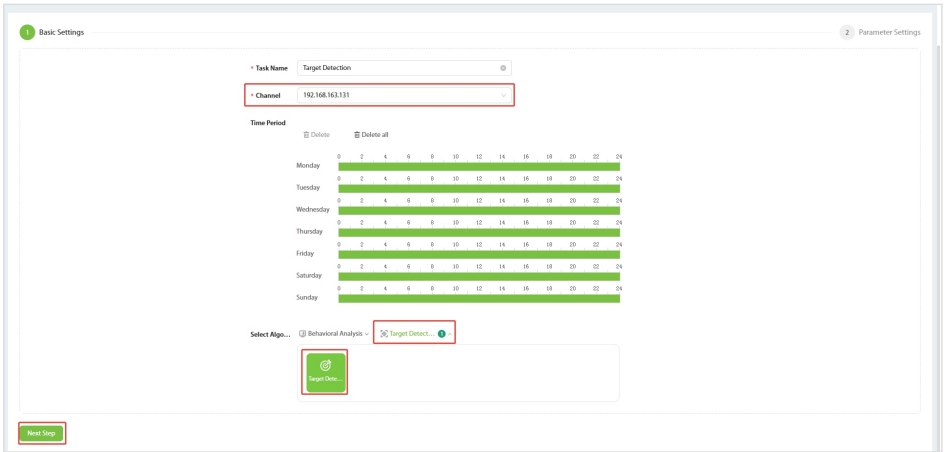
5. Adding personnel

1. Click **[Personnel]** > **[Person]** > **[Add]** to register users.
2. Fill in all the required fields of the user, set the access level, and upload or capture a facial comparison photo of the user.
(**Note:** The access level can be set in **[Application Configuration]** - **[Access Level]** - **[Access Level]**, and **Contactless Access** can be enabled.)
3. Click **[Application Configuration]** > **[Device]** > check the device in the list > **[Access Control]** > **[Synchronize All Data to Devices]**.



6. Configuring algorithm task

1. Click **Application Configuration > Algorithm Task > Add** to create a new algorithm task.
2. Select the configured camera, choose the **Target Detection** algorithm, configure the relevant parameters, and enable **Target Recognition**.



After completing the above settings, NVR target recognition can be performed.

14. SIP Video Intercom

The CVEdge160 has a built-in SIP video intercom server and supports up to 8 SIP devices.

1. Click **Intercom Management > Extension Management > +Add** on the top menu bar to enter the extension addition interface, and create extension numbers.

The screenshot shows the CVEdge160 web interface with the 'Intercom Management' tab selected. The 'Extension Management' sub-tab is active, and the '+Add' button is highlighted. A modal dialog titled 'Add' is open, showing fields for 'Extension Type' (set to 'SIP Terminal'), 'Caller ID Name', 'Extension' (with a dropdown), 'Extension Password', 'Enable this extension' (checked), 'Enable Keep Alive' (unchecked), 'Concurrent Registration Count' (set to 1), 'Ring Timeout (seconds)', and 'Keep Alive Interval (seconds)'.

2. On the access control terminal or indoor station, configure the SIP-related parameters. Enter the server address (controller IP address), port (5060), verify ID (extension number), and password (extension password), and select UDP or TCP as the transport protocol.
3. Click **Intercom Management > ringGroup > +Add** to enter the Add Ring Group interface. Create a ring group extension number, and configure the ring group members and ring strategy.

The screenshot shows the CVEdge160 web interface with the 'Intercom Management' tab selected. The 'ringGroup' sub-tab is active, and the '+Add' button is highlighted. A modal dialog titled 'Add' is open, showing fields for 'Name', 'Extension', 'Members' (with a list of 2 items: 1007 and 1008), 'Ring Group Options' (with 'Strategy' set to 'Ring in Order'), 'Ring Time per Member (seconds)' (set to 30), and 'Skip Busy Proxy' (unchecked).

4. After completing the above settings, you can initiate a call by entering the indoor station's extension number or the ring group extension number on the access control terminal.

For more details, please refer to the User Manual.

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