

ConfigTool

User Manual

V 1.2

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1 Preface

Config Tool is a quick configuration tool provided to users . Please read this document carefully before using the product and preserve it for future reference.

Symbol Description

The following symbols appearing in this document have the following meanings:

Logo	Explanation of meaning
	[Note]: Indicates content that requires attention. If ignored, it may lead to equipment damage, data loss, equipment performance degradation or unpredictable results. Please read the relevant text carefully.
	[Tips]: It means it can help you solve a certain problem or save your operation time.

Revision History

Version	Revision Content	Release Time
V1.2	Added the CGI Protocol section.	December 2024
V1.1	Added the system setting section.	April 2024
V1.0	First release.	March 2024

2 product overview

Config Tool, the quick configuration tool (hereinafter referred to as the tool), is mainly used to configure and maintain front-end and back-end devices, such as IPC, NVR, etc. It provides functions such as initializing the device, modifying the device IP , upgrading the device, and configuring device parameters .



illustrate :

- Do not use this tool with the device search tool, upgrade tool or SVMS simultaneously, otherwise it may

cause an abnormal device search.

3 Installation

3.1 Installation

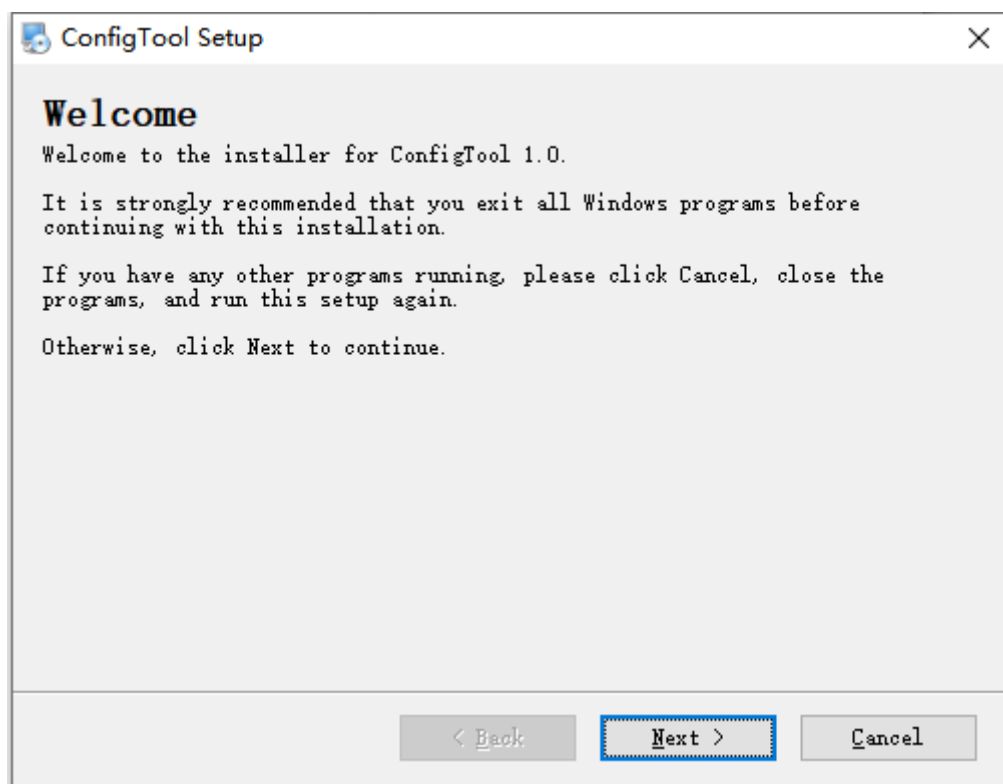
Prerequisites

Please contact technical support to obtain the tool installation package.

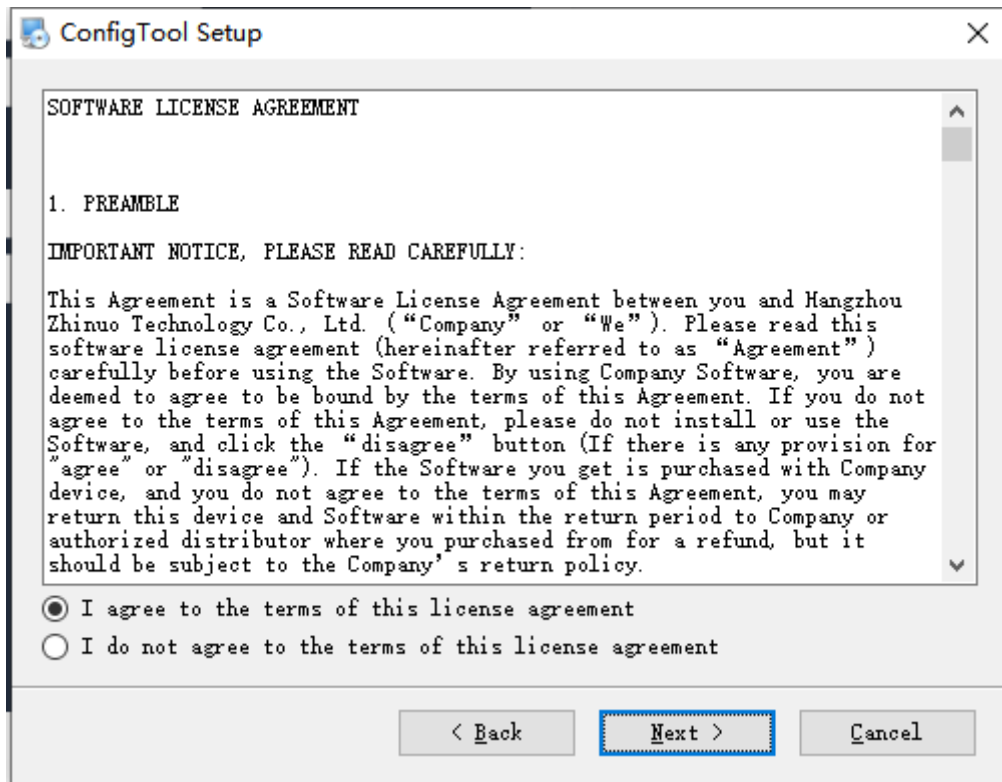
Steps

Step 1 Double-click the tool installation package, and the system the language installation dialog box will pop up.

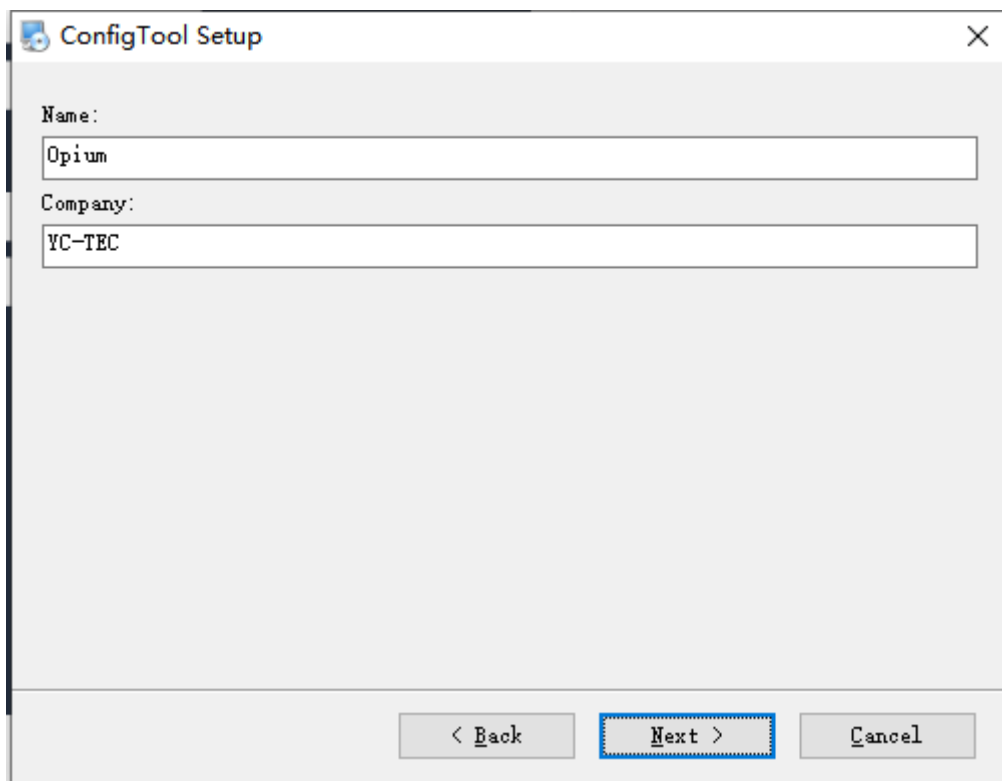
Step 2 Click "Next".



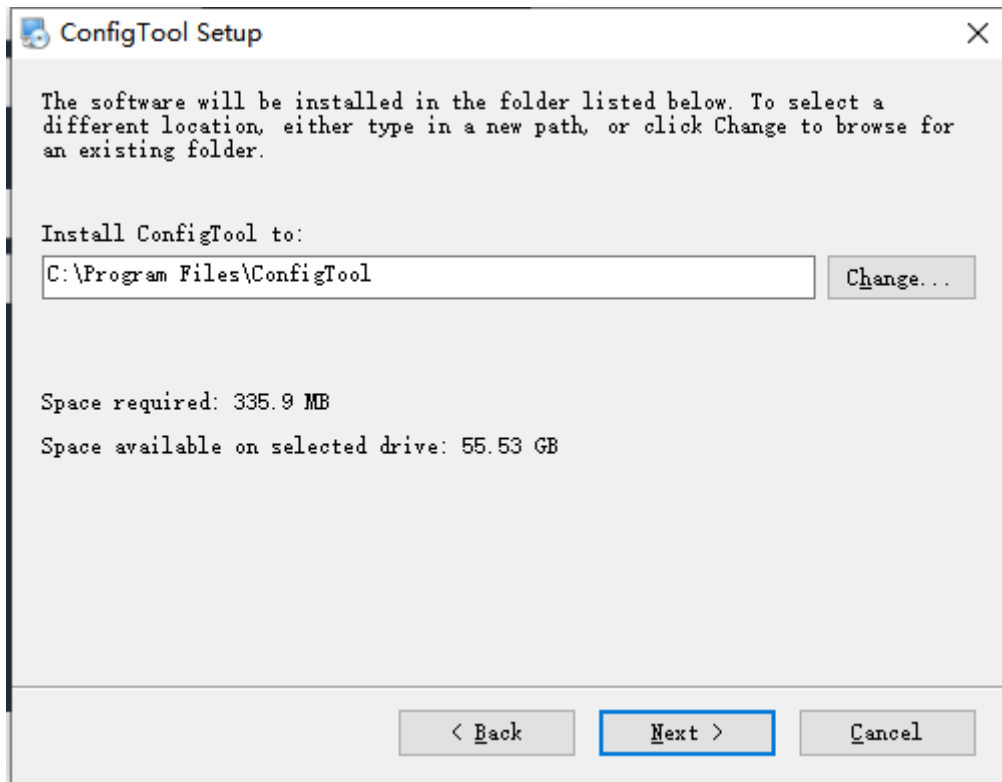
Step 3 Read the software license agreement, select "I agree", and click "Next".



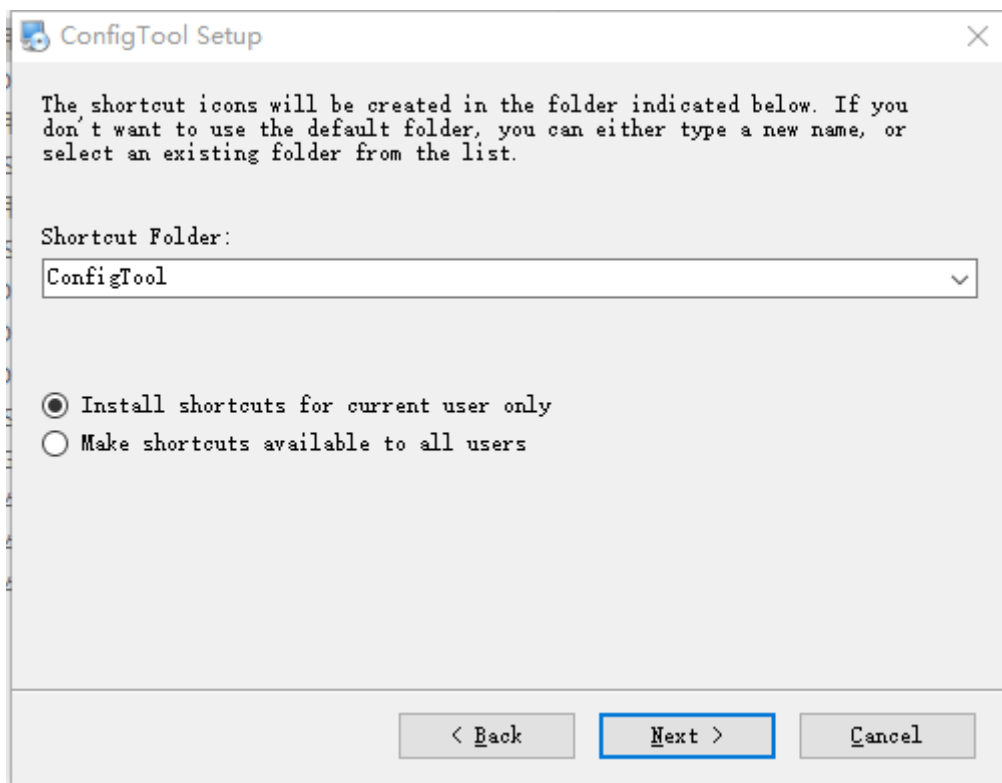
Step 4 Customize "Name" and "Company" and click "Next".



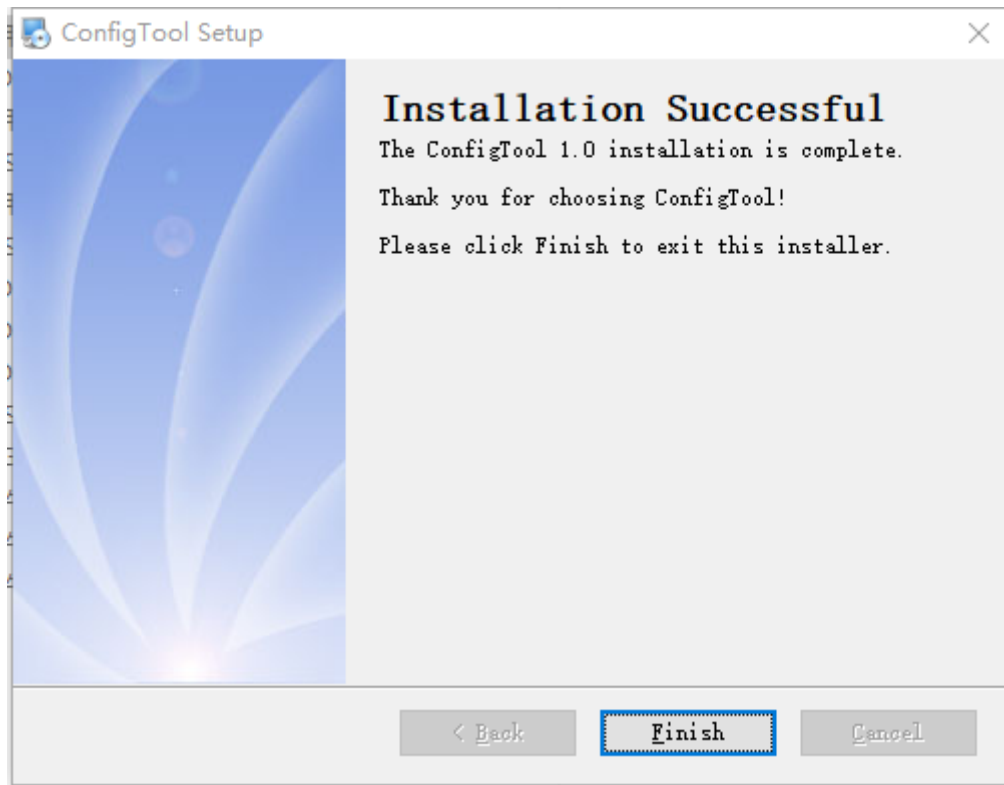
Step 5 Click "Change" and select the installation path. Click "Next".



Step 6 Select whether the shortcut permissions are to be open to the current user or all users. Click "Next".



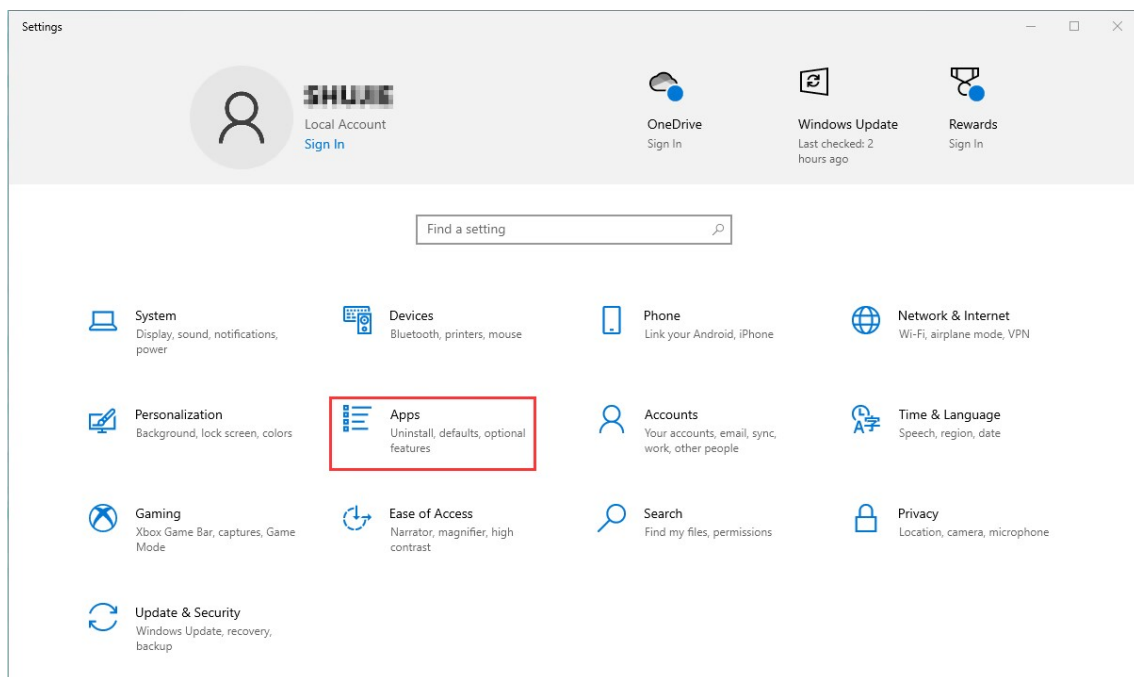
Step 7 Click "Finish". Installed.



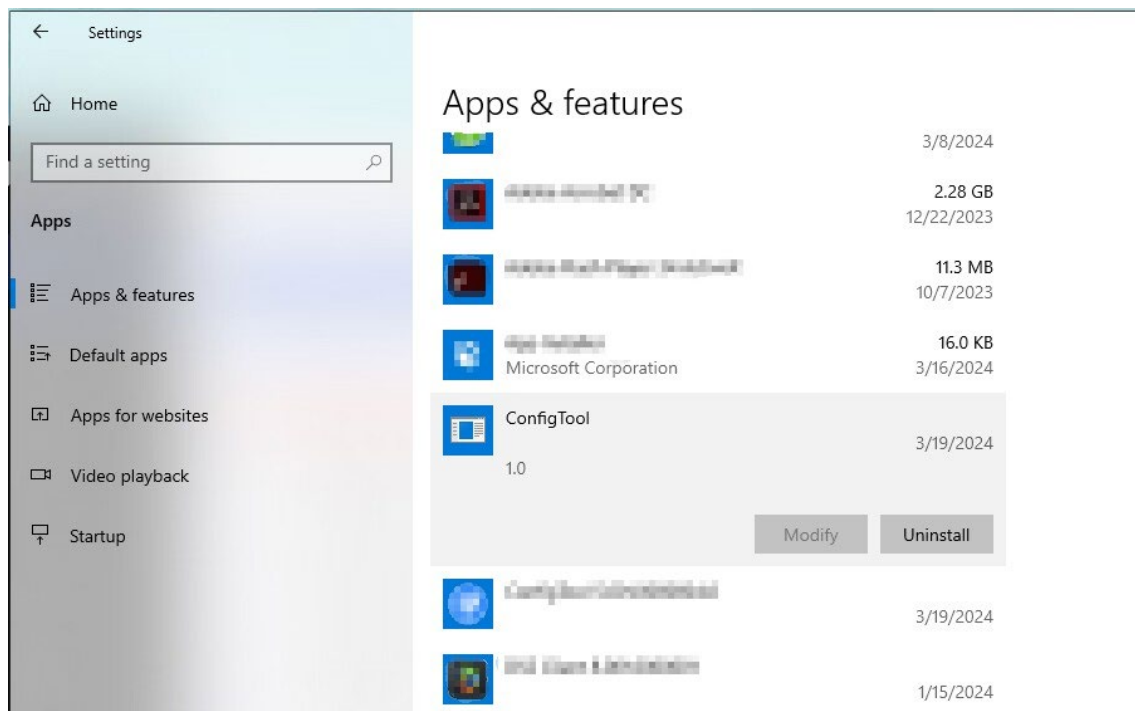
Note: Do not cut off the power supply or interrupt the operation during installation.

3.2 Uninstall

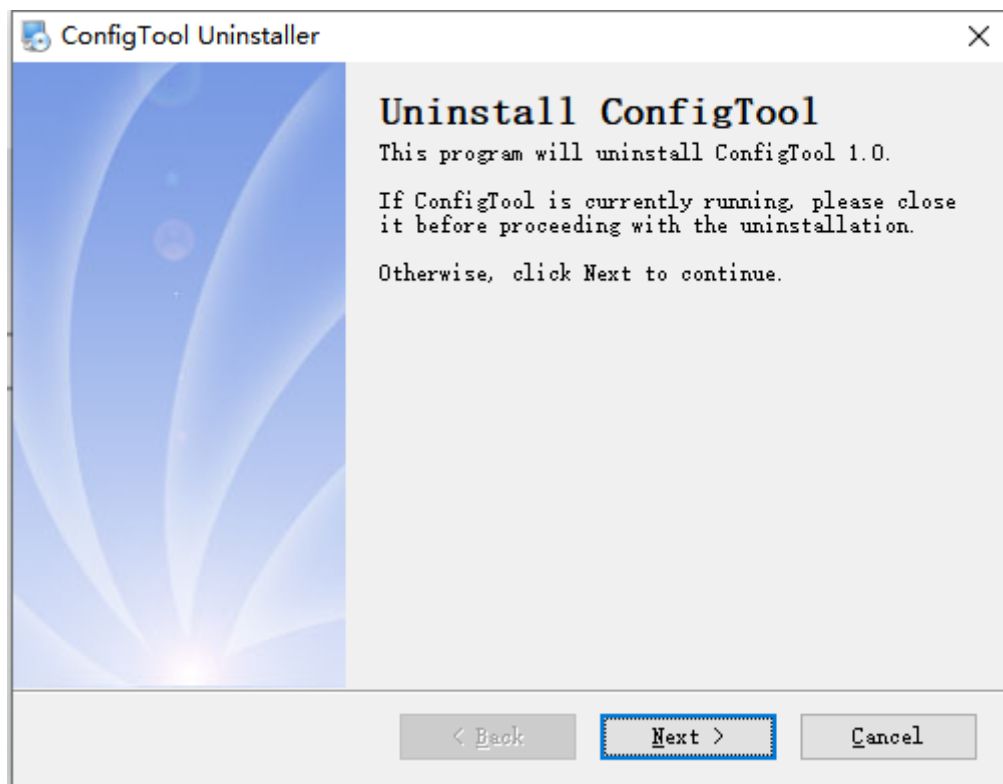
Step 1 Open Windows Settings, click "Apps".

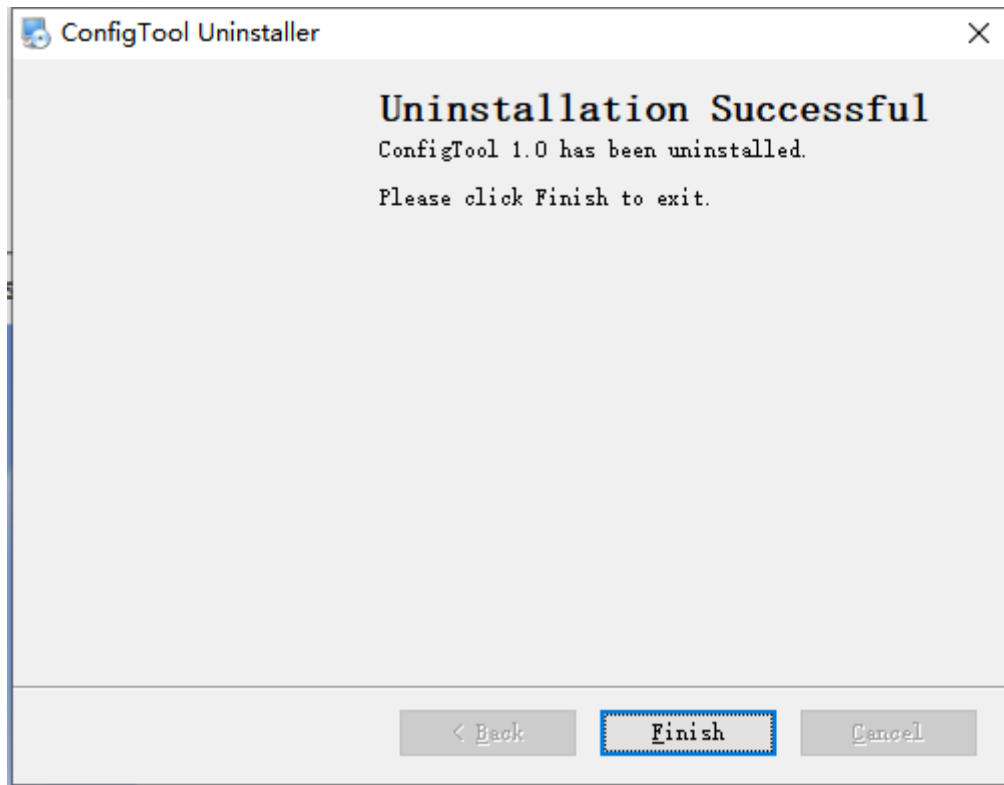


Step 2 Find "ConfigTool", Click to select "Uninstall".



Step 3 Click "Next" to uninstall. Click Finish, Uninstall completed.





4 Interface introduction

The main interface of the tool is shown in Figure 4-1.



illustrate :

- After starting the tool, the tool will automatically search for devices according to the search method set in "Search Settings".
- When you start the tool up for the first time, the tool automatically searches for devices in the same network segment as the PC.

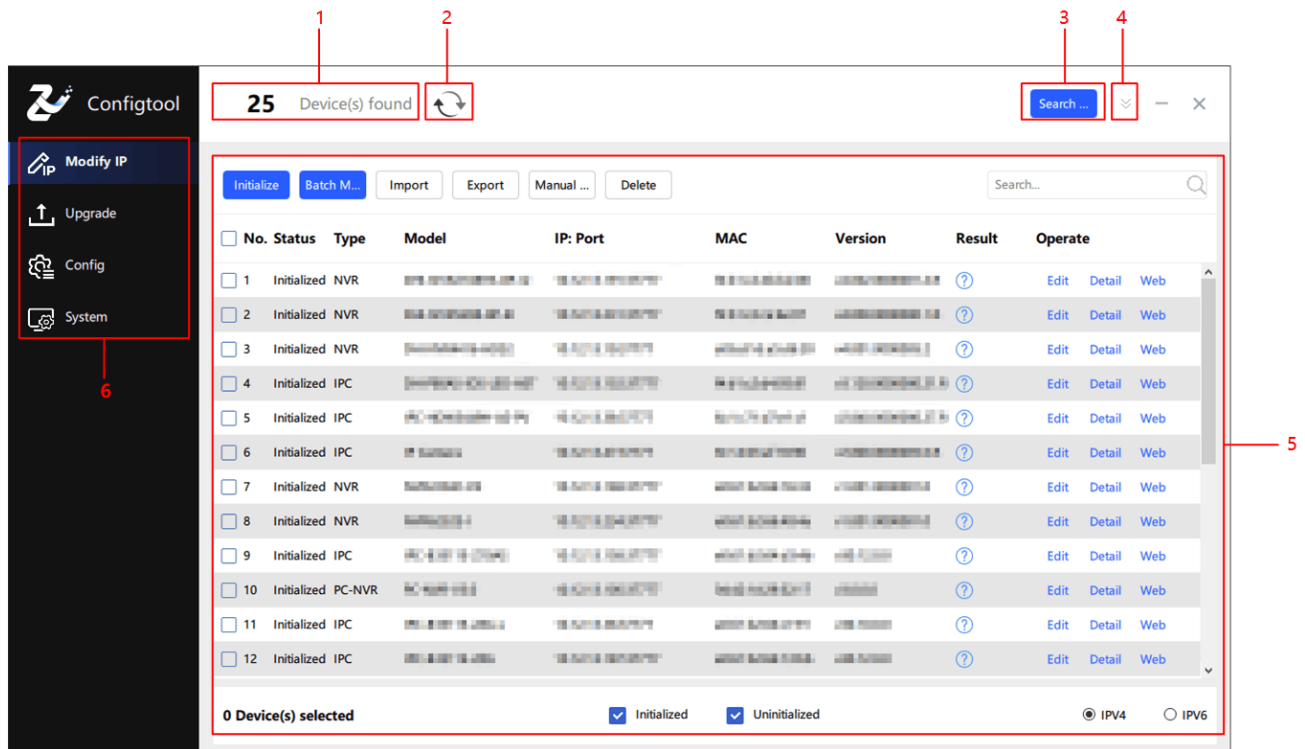


Figure 4-1 Tool main interface

No.	Module	Illustrate
1	-	Displays the number of searched devices.
2	Refresh	Search the device again using the last search settings.  illustrate: After opening the tool, if the account or password has not been modified, a prompt box will pop up every time it is refreshed, prompting you to go to "Search Settings" to modify the account password. Select "Don't prompt again" to stop this prompt box from popping up.
3	Search Settings	Search for devices in the same network segment as the PC where the tool is located or search for devices by setting the search range.
4	About	View the help document, tool version, software license agreement information, as well as configure the tool's login mode and upgrade

		device-related parameters.
5	Main Page	Provides menu functionality.
6	Menu Bar	 Modify IP: Mainly used to add devices to tools, initialize devices and modify device IP addresses, etc.  Upgrade: Used to upgrade equipment.  Config: Configure the encoding parameters, video parameters, and preview mode of the monitoring device.  System: Set device system time, restart device, restore device, modify password, set video standard, etc.

Table 4-1 Main interface introduction

5 Basic operations

5.1 Add device

Single or batch equipment can be added accordingly

5.1.1 Add

5.1.1.1 Add IP address

Steps

Step 1 Click "Modify IP" in the menu bar and select "Manual Add".

Step 2 Fill in the device parameters and click "OK".

The added device will appear on the device list.

The image shows a 'Manual Add' dialog box with a dark header bar containing the title and a close button. Below the header, there are four input fields: 'IP address' with the value '0 . 0 . 0 . 0', 'Username' with the value 'admin', 'Password' which is empty, and 'Port' with the value '37777'. A blue 'OK' button is located at the bottom right of the dialog.

Figure 5-1 Fill in device information

Parameter	Illustrate
IP address	Add the device's IP address.
Username	Username and password to log in to the device.
Password	
Port	The port number of the device.

Table 5-1 Device parameter description

5.1.2 Batch Add

- You can search and add devices in known network segments through "5.1.2.1 Search to add".
- If you already have device information parameters, you can add devices through the template through "5.1.2.2 Add via template".

5.1.2.1 Search to add

Add devices in the same network segment as the PC or other network segments in batches through search.

Steps

Step 1 Standalone "Search Settings"

Step 2 Select the search method according to your needs.

- 1) Search for devices on the same network segment as the PC.
 - a) Select "Current network segment search".
 - b) Fill in the user password to log in to the device (optional).
- 2) Search on a customized network segment
 - a) Select "Other network segment search".
 - b) Set "Start IP" and "End IP".
 - c) Fill in the user password to log in to the device (optional).



illustrate :

- "Current network segment search" and "Other network segment search" can be performed at the same time.
- During the device search stage, devices can be added regardless of whether the account and password are filled in or not. Some configuration operations require the correct account and password.
- Supports simultaneous search of up to 16 network segments.

Step 3 Click "OK" to start the search.

After the device is added, it is displayed in the list.

Search Settings

☒ Current network segment search ☐ Other network segment search

Start IP 192 . 168 . 1 . 1 End IP 192 . 168 . 1 . 255

User admin Pass

OK

Figure 5-2 Setting search conditions



illustrate :

- The search criteria will be saved until the next time the tool is used.

5.1.2.2 Add via template

Fill in the device information that needs to be added to the tool in the device information template, and then add the device to the tool by importing the device information template . A template can add up to 1,000 devices at a time.

Step 1 Export the device information template. Click to enter "Modify IP", select any device on the device list, and click "Export" to export the device information template to the local.

Step 2 Open the device information template and modify the device information that needs to be added.

Step 3 Import the device information template. Also, under "Modify IP", click "Import" to import device information, and successfully imported devices will be displayed on the list.



Note: Please close the template file before importing, otherwise the import will fail.

5.2 Initialize device

Initializing single or multiple devices



illustrate :

- Only devices within the LAN can be initialized.
- No operations can be performed on an uninitialized device, and other interfaces will not be displayed.

Steps

Step 1 Click "Modify IP" on the menu, select the uninitialized device in the device column, and click "Initialize".

Step 2 A dialog box will appear, select the device and click "Initialize".

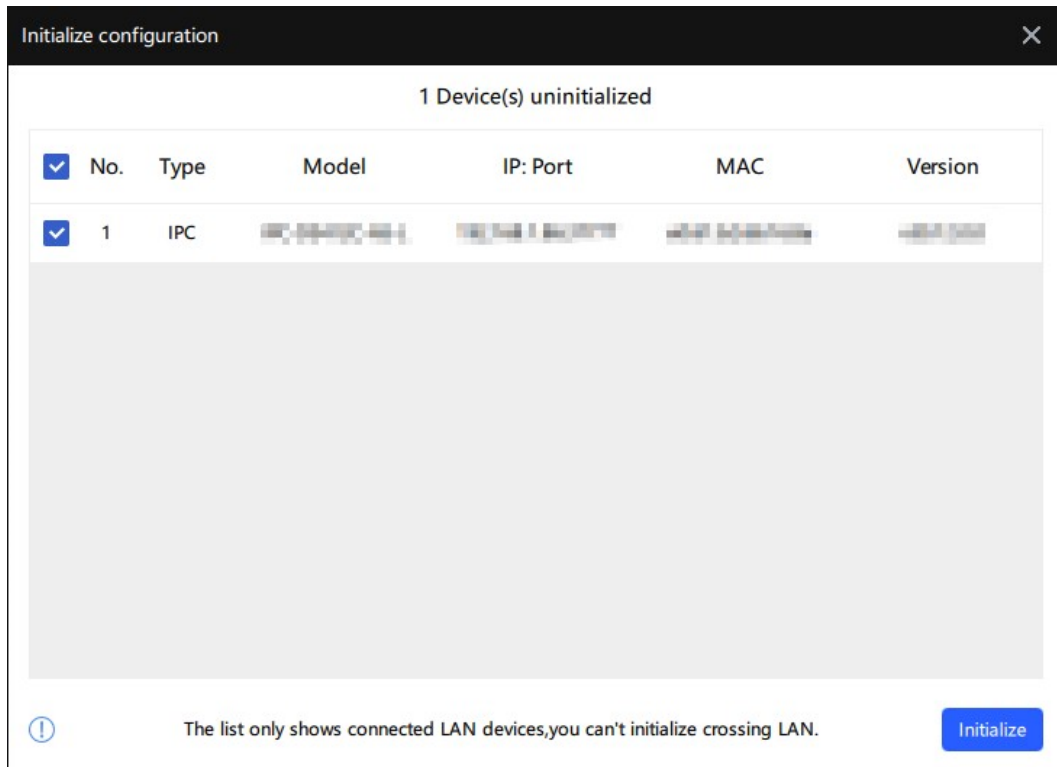


Figure 5-3 Device initialization (1)

Step 3 Set the device initialization parameters and click "OK". After the initialization is successful, the device status in the device column will be displayed as "Initialized".

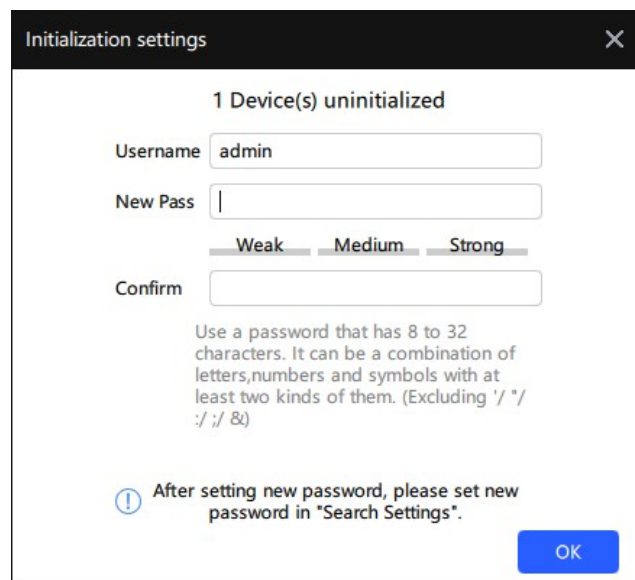


Figure 5-4 Device initialization (2)

Parameter	Illustrate
-----------	------------

Username	The default user name is admin.
New Password	Different devices have different password lengths. Enter the new password for your device. The new password can be set to 6 pure digits, or 8 to 32 digits which must be composed of numbers, letters, and special characters (except "'", '"', ";", ":", and "&") At least two of the components. Please set a high-security password according to the password strength prompts.
Confirm Password	Confirm the new password entered.

Table 5-2 Initialization parameter description

5.3 Modify IP

Modifying device IP individually or in batches.

5.3.1 Modification

Steps

Step 1 Click "Modify IP" in the menu bar.

Step 2 Click the "Edit" button corresponding to the device whose IP needs to be modified.

Step 3 Select the IP modification method according to your needs

- 1) DHCP mode: When there is a DHCP server in the network, set "Mode" to "DHCP", and the device will automatically obtain an IP address from the DHCP server.
- 2) Static mode: The mode is "Static", fill in the "Start IP", "Subnet Mask", and "Gateway". After confirmation, the IP address of the device will be the set parameters.

Figure 5-5 Modify device IP

5.3.2 Batch Edit

When you need to modify the IP address of multiple devices, you can modify them through the batch modification function.

Steps

Step 1 Click "Modify IP" in the menu bar, select the devices whose IP needs to be modified, and click "Batch Modify IP".



Note: When you need to modify the IP addresses of multiple devices with the same password, you need to enter the correct username and password of the device in "Search Settings" in advance.

Step 2 Select the mode for setting the IP address accordingly.

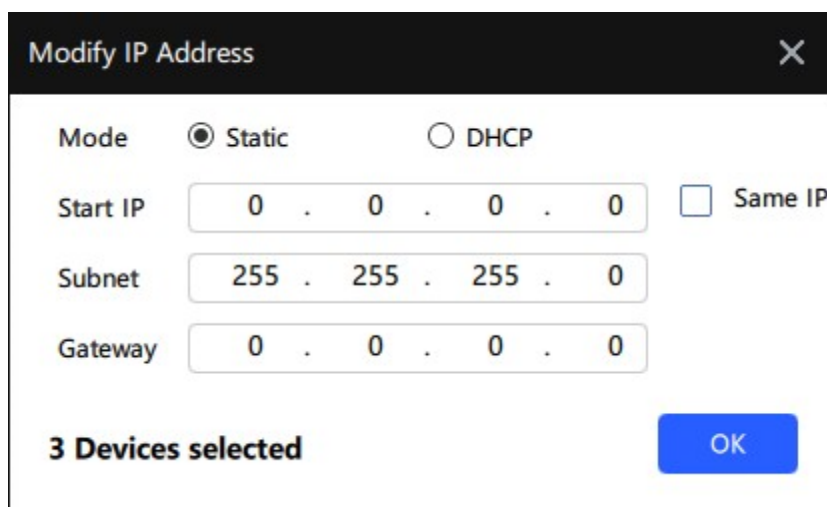
- 1) DHCP mode: When there is a DHCP server in the network, set "Mode" to "DHCP", and the device will automatically obtain an IP address from the DHCP server.
- 2) Static mode: Set "Mode" to "Static" and fill in the "Start IP", "Subnet Mask" and "Gateway" of the device. Then in the device list, the device IP addresses are listed from top to bottom starting from the starting IP. Incremental modification.



Note: Select "Same IP" to set multiple selected devices to the same IP address. It is recommended to set

the factory default IP uniformly when used.

Step 3 Click OK.



Modify IP Address

Mode ☒ Static ☐ DHCP

Start IP 0 . 0 . 0 . 0 ☐ Same IP

Subnet 255 . 255 . 255 . 0

Gateway 0 . 0 . 0 . 0

3 Devices selected

OK

Figure 5-6 Modify device IP in batches

5.4 Equipment upgrade

Supports single or batch upgrade equipment and file upgrade equipment.

5.4.1 Normal Upgrade

5.4.1.1 Single unit upgrade

Single device upgrade

Steps

Step 1 Click "Upgrade" on the left menu bar.

Step 2 Click the upgrade file path of the device that needs to be upgraded, click "Open", and select the corresponding upgrade file.

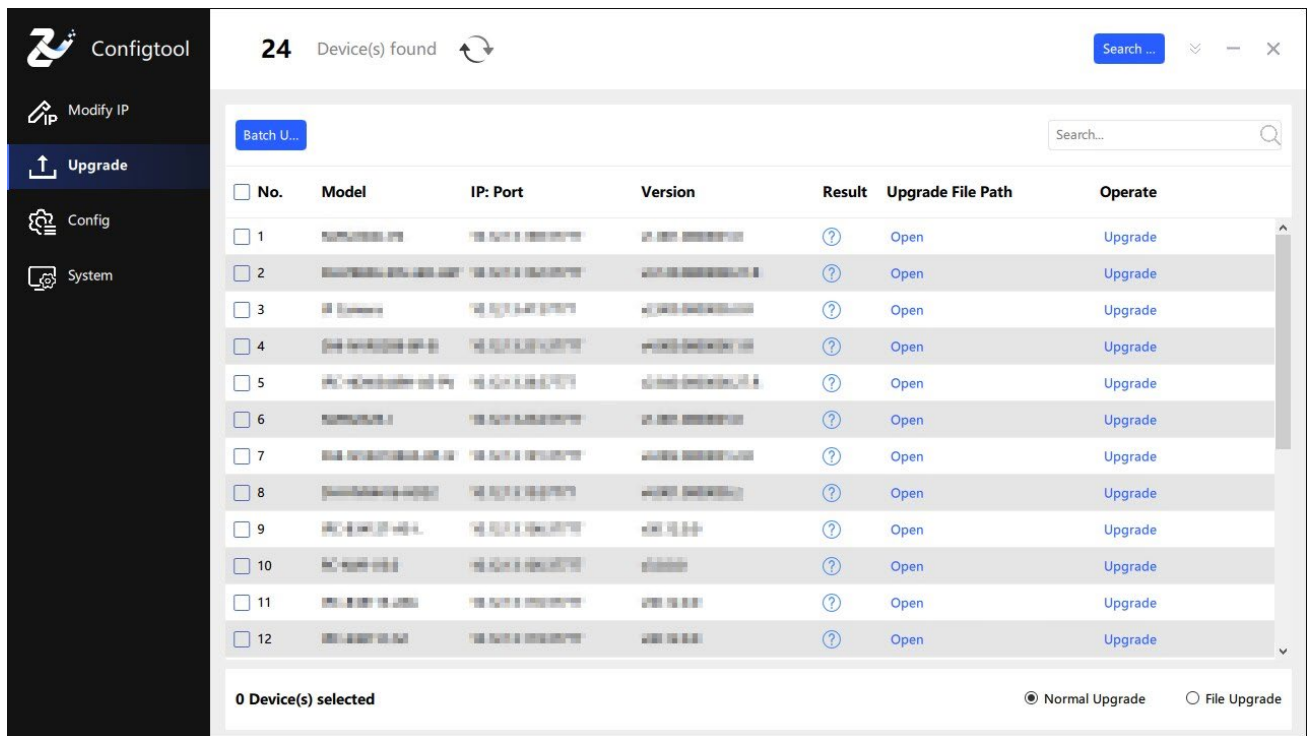


Figure 5-7 Single unit upgrade

Step 3 Click "Upgrade" to start upgrading the device.

After the upgrade is successful, the result prompt will be green and the device will automatically restart.

5.4.1.2 Batch upgrade

If you need to upgrade multiple devices to the same software version in batches, use batch upgrade.

Steps

Step 1 Click "Upgrade" in the menu bar.

Step 2 Select the devices that need to be upgraded in the device list and click "Batch Upgrade".

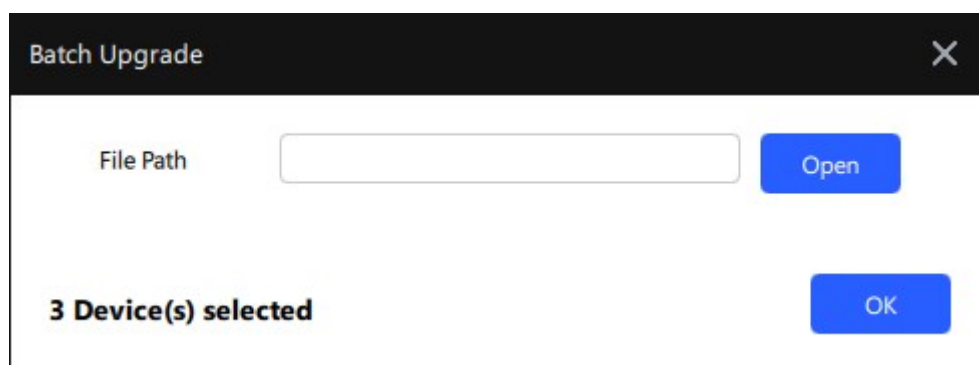


Figure 5-8 Batch upgrade (1)



Note: The selected devices need to be upgraded to the same software version.

Step 3 Click "Open", select the upgrade file path and click OK.

No.	Model	IP: Port	Version	Result	Upgrade File Path	Operate
1	H3C MSR 2626-E	192.168.1.100:22	V200R001C00	?	Open	C:/Users/Administrator/De... Stop
2	H3C S5700	192.168.1.101:22	V200R001C00	?	Open	Upgrade
3	H3C S5700	192.168.1.102:22	V200R001C00	?	Open	C:/Users/Administrator/De... Stop
4	H3C S5700	192.168.1.103:22	V200R001C00	?	Open	Upgrade
5	H3C S5700	192.168.1.104:22	V200R001C00	?	Open	Upgrade
6	H3C S5700	192.168.1.105:22	V200R001C00	?	Open	C:/Users/Administrator/De... Stop
7	H3C S5700	192.168.1.106:22	V200R001C00	?	Open	Upgrade
8	H3C S5700	192.168.1.107:22	V200R001C00	?	Open	Upgrade
9	H3C S5700	192.168.1.108:22	V200R001C00	?	Open	Upgrade
10	H3C S5700	192.168.1.109:22	V200R001C00	?	Open	Upgrade
11	H3C S5700	192.168.1.110:22	V200R001C00	?	Open	Upgrade
12	H3C S5700	192.168.1.111:22	V200R001C00	?	Open	Upgrade

3 Device(s) selected

☒ Normal Upgrade ☐ File Upgrade

Figure 5-9 Batch upgrade (2)

5.4.2 File upgrade(Template Upgrade)

Steps

Step 1 Click "Upgrade" in the menu bar.

Step 2 Click "File Upgrade" in the lower right corner of the page to switch to file upgrade mode.

Step 3 Click "Open Template" and enter the device IP address, port number, username, password and upgrade file path.

Step 4 Click "Import" to import the filled in template.

Step 5 Upgrade the device. The device upgrade method in file mode is the same as that in normal mode. For details, please refer to "5.4.1 Normal Upgrade".

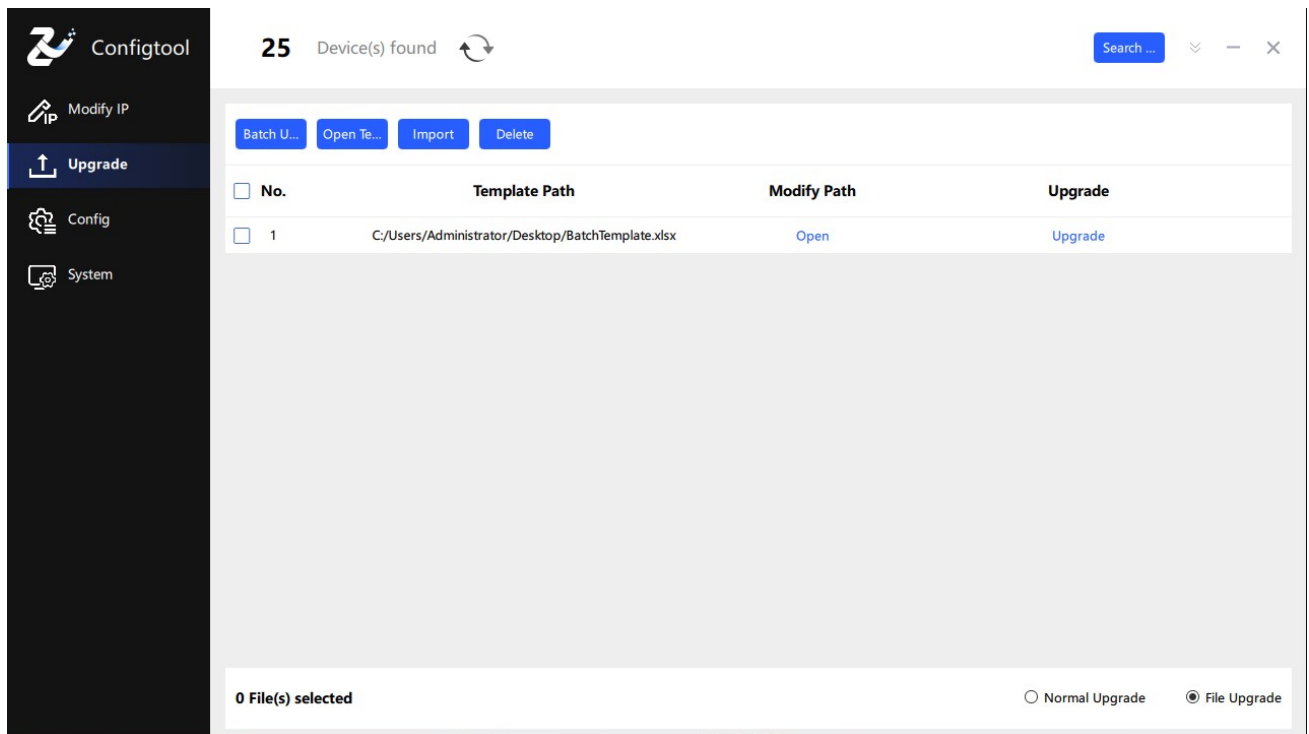


Figure 5-10 File upgrade

5.5 Device Configuration

Configure the encoding parameters and video parameters of the monitoring device, and configure the preview mode of the device.

5.5.1 Configure encoding parameters

Configure the camera's stream type, encoding mode, resolution and other parameters.

Steps

Step 1 Click "Config" in the menu bar.

Step 2 Double-click the monitoring device to be configured in the device list.

Step 3 (Optional) If prompted to log in to the device, fill in the user name and password to log in to the device in the "Login" dialog box, and click "OK".

Step 4 Under the "Encode" tab, configure the encoding parameters of the main stream and auxiliary stream.

Channel

1

Main Stream

Stream Type

Normal

Encode Mode

H.264 H

Bit Rate Type

☒ CBR
☐ VBR

Audio

☒

Frame Rate

25

Audio Encode

AAC

Resolution

1080P

Sampling Rate

8000

Quality

4

Bit Rate(kb/S)

4096

Sub Stream

Stream Type

Normal

Encode Mode

H.264 H

Bit Rate Type

☒ CBR
☐ VBR

Audio/Video

☒
☒

Frame Rate

25

Audio Encode

G726

Apply to...

Figure 5-11 Encode

Parameter	Illustrate
Channel	Select the device channel to be configured.
Stream Type	The main code stream includes three types: normal, motion detection, and alarm. The auxiliary code stream only supports normal.
Encode Mode	The encoding mode of the video. Different devices support different video encoding modes. The meanings of some video encoding modes are as follows. For details, please refer to the device instruction manual. • H.264: Main Profile encoding method. • H.264B: Baseline Profile encoding method. • H.264H: High Profile encoding method.

	● H.265: Main Profile encoding method. ● MJPG: In this encoding mode, the video image requires a higher bit rate value to ensure the clarity of the image. In order to achieve the best effect on the video image, it is recommended to use the maximum bit rate value among the corresponding reference bit rate values .
Bit Rate Type	Video stream control method, including the following options. ● Constant Bit Rate(CBR): The code stream changes little, and the code stream keeps changing around the set code stream value. ● Variable Bit Rate(VBR): The code stream will change according to the preview scene, etc.  <i>Note: When the "Encoding Mode" is set to "MJPG", the code stream control method can only be fixed code stream.</i>
Frame Rate	The number of frames per second the video contains. The higher the frame rate, the more realistic and smooth the image.
Resolution	The resolution of the video. The maximum resolution of different devices may be different, please refer to the actual interface display.
Quality	When " Bit Rate Type" is set to " VBR", this parameter is supported. The larger the value, the better the video quality.
Bit Rate(kb/S)	Choose the appropriate code stream accordingly .
Audio/Video	Only after you select video enablement, you can use the auxiliary code stream to view/download the video. At the same time, after turning on audio enablement, you can use the auxiliary code stream to view/download the video with sound.
Audio Encode	Audio encoding mode.

	The set audio encoding mode will take effect for both audio and voice intercom.
Sampling Rate	The audio sampling frequency.

Table 5-3 Encoding parameter description

Step 5 Click OK.



Note: The encoding parameters of different devices may be different, please refer to the actual interface display.

Step 6 (Optional) Apply the configuration to other devices.

- 1) Click "Apply to...", select the device to which the configuration needs to be applied in the device navigation tree, and click "Config" to apply the configuration to the device.

If the application is successful,  will be displayed on the right side of the device ; if it fails,  will be displayed. Click  or  to view details.

- 2) Click "Return" to return to the configuration interface.

5.5.2 Configure video parameters

Configure video parameters for normal, day and night modes. The configured video parameter's effects can be viewed in real time through the preview screen.

Steps

step 1 Click "Config" in the menu bar.

Step 2 Double-click the monitoring device to be configured in the device list.

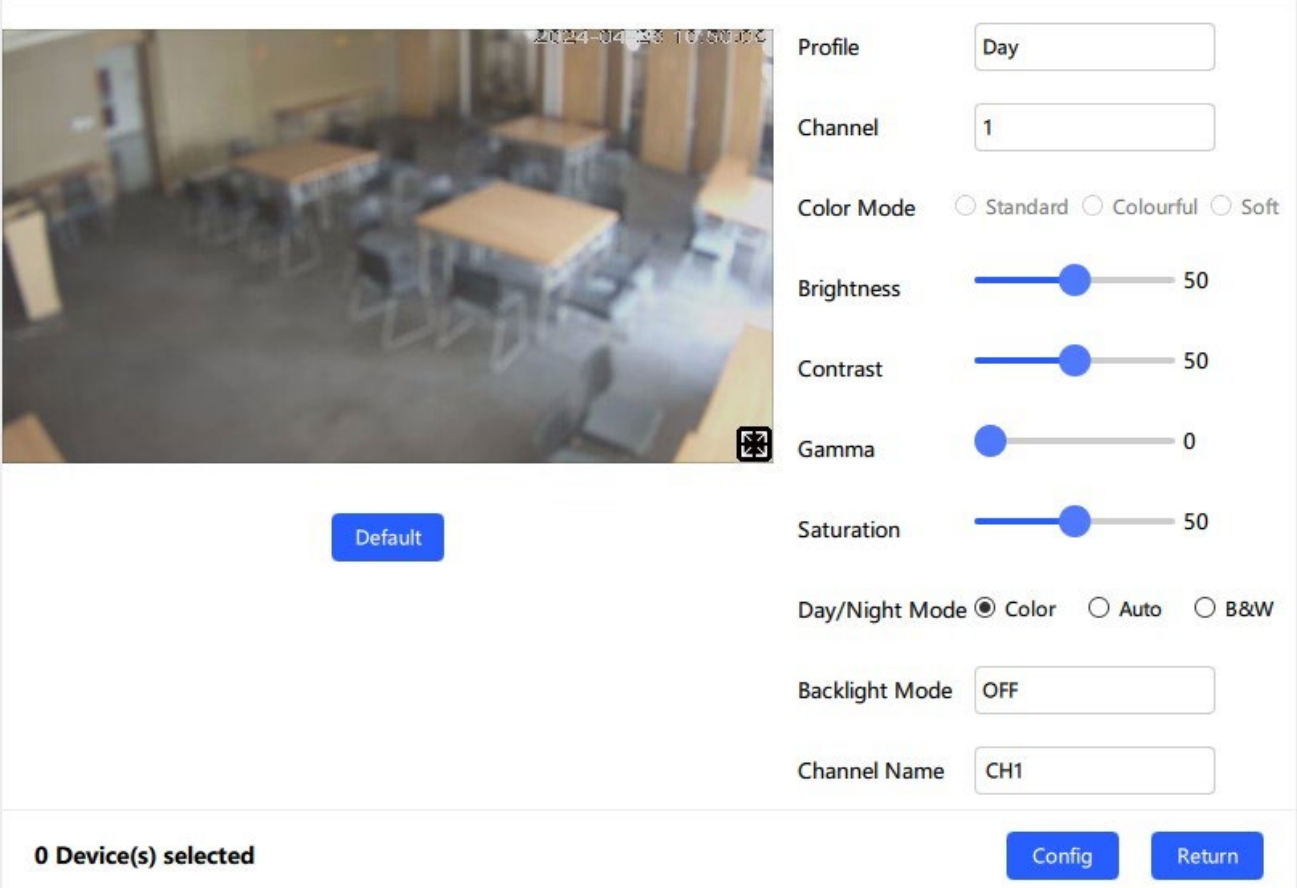
Step 3 (Optional) If prompted to log in to the device, fill in the user name and password to log in to the device in the "Login" dialog box, and click "OK".

Step 4 Set the video parameters on the "Image" tab .



Notice:

- Click "Default" to restore the device's default parameters.
- Click in the video window  to display the video window in full screen; when the video window is displayed in full screen, click  or the [Esc] button to return to the default size.



2024-04-23 10:50:50

Profile

Channel

Color Mode ☐ Standard ☐ Colourful ☐ Soft

Brightness

Contrast

Gamma

Saturation

Day/Night Mode ☒ Color ☐ Auto ☐ B&W

Backlight Mode

Channel Name

0 Device(s) selected

Figure 5-12 Video configuration

parameter	illustrate
Profile	Choose a profile for your device i.e., Day, Night, and Normal.
Channel	Select the channel corresponding to the device.
Color Mode	The color mode of image consists of three modes: Standard, Colourful and Soft.
Brightness	Adjust the overall brightness of the image through linear adjustment. The larger the value, the brighter the image, and vice versa.

Contrast	Adjust the contrast of the image. The larger the value, the greater the brightness and contrast of the image, and vice versa .
Gamma	Adjust the brightness of the image in a non-linear manner to improve the dynamic display range of the image. The larger the gamma value , the brighter the image. Please adjust the gamma value of the image accordingly.
Saturation	Adjust color shades. The larger the value, the darker the color will be, and vice versa. This value does not affect the overall brightness of the image.
Day/Night Mode	Set the camera image display to color or black and white mode. Includes the following options: ● Color: the camera image is displayed as a color image. ● Auto: the camera automatically selects this to display a color image or a black and white image according to the ambient brightness. ● Black and White(B&W): the camera image is displayed in black and white.
Backlight Mode	● OFF: Turn off backlight compensation mode. ● Backlight: It effectively compensates for the dark defects of the main body of the picture when the camera shoots in the backlight environment ● WDR: In an environment with high-contrast lighting conditions, turning on wide dynamic range suppresses overly bright areas and compensate for overly dark areas, improving the clarity of the image. ● HLC: HLC can partially weaken the strong light to achieve light balance.
Channel Name	Set the channel name of the camera, which cannot be empty characters.

Table 5-4 Video parameter description

5.6 System Setting

5.6.1 Calibrate device time

Steps

Step 1 Click "System " in the menu bar and click the "Timing" tab.

Step 2 Select the single or multiple devices that need calibration in the device navigation tree.

Step 3 Select the device time synchronization method according to the actual situation.

- 1) Click "Manual Sync " in the "Sync Time " area to synchronize the device time to the set time.
- 2) Click " Sync PC " in the " Sync Time " area to adjust the device time based on PC time.
- 3) In the "NTP " area, select the time zone to synchronize the device time zone to the set time zone; select " NTP Settings" to set the NTP server parameters. For parameter description, see Table 5-5 .

Step 4 Click "Save".

If the setting is successful, it will be displayed on the right side of the device ; if it fails, it will be displayed . Click the  or  icon to view details.

Sync Time

PC Time **2024-04-26 10:20:36**

Sync PC

Manual ...

Figure 5-13 Sync Time

NTP

NTP

UTC

UTC+00:00

☐ NTP Settings

NTP Server

cn.ntp.org.cn

NTP Port

123

(0~65535)

Update Period

10

Minutes (0~65535)

Save

Figure 5-14 NTP Settings

Parameter	Illustrate
NTP Server	All NTP default servers use cn.ntp.org.cn.
NTP Port	Set as the port to connect to the NTP server.
Update Period	The interval at which the device synchronizes time with the NTP server.

Table 5-5 NTP Server parameter description

5.6.2 Reboot the device

Automatically reboot or manually reboot the device.



illustrate :

Rebooting will cause business interruption. Please try to choose a time when the business volume is small to reboot the device.

Steps

Step 1 Click "System " in the menu.

Step 2 Select the single or multiple devices that need to be rebooted in the device navigation tree.

Step 3 Select the device reboot method according to the actual situation.

- 1) If you want the device to automatically reboot at a specified time, select "Auto Reboot", set the reboot week and time, click "Save", and the device will automatically reboot at the corresponding time.
- 2) If you want to manual reboot the device, click "Reboot" in the "Manual Reboot" area, and the device will reboot immediately.

If the device reboots, it will be displayed on the right side of the device ; if it fails, it will be displayed

 . Click the  or  icon to view details.

Auto Reboot

☐ Auto Reboot

Sunday ▼

09:56 ▲▼

Save

Manual Reboot

Reboot

Figure 5-15 Reboot the device

5.6.3 Restore

Through "Restore", all parameters of the device (including network parameters such as device IP address) will be restored to the default settings.

Steps

Step 1 Click "System" in the menu .

Step 2 Select the single or multiple devices that need to be factory restored in the device navigation tree.

Step 3 Click the "Restore" tab.

Step 4 Click " Factory Default " and click "OK" according to the prompts to start restoring the device's factory settings.

If the factory reset is successful, it will be displayed on the right side of the device  ; if it fails, it will be displayed  . Click the  or  icon to view details.

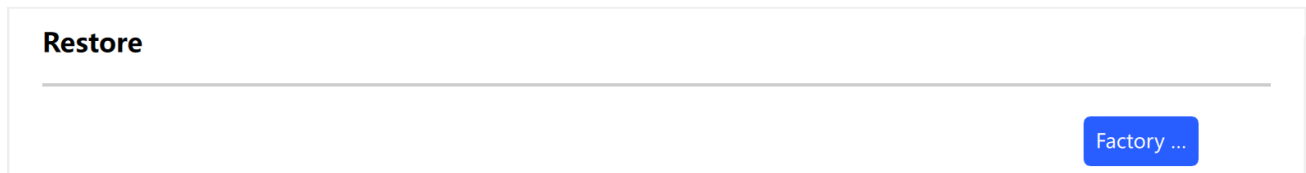


Figure 5-16 Restore factory settings

5.6.4 Change Password

Steps

Step 1 Click "System" in the menu bar .

Step 2 Select single or multiple devices in the device navigation tree.



illustrate :

The login passwords for the multiple devices selected must be the same.

Step 3 Click the "Password" tab.

Step 4 Fill in the old password of the device and click "Check". If the old password of the device is filled in correctly, you can set a new password. Otherwise, you cannot set a new password. Please make sure that the old password is filled in correctly.

Step 5 Set a new password. Please set a high-security password according to the password strength prompts.

Step 6 Click "OK".

Modify Password

Old Password

New Password

Weak Medium Strong

Confirm Password

Check

Figure 5-17 Modify device password (1)

Modify Password

Old Password

New Password

Weak Medium Strong

Confirm Password

OK

Please complete the password change within one minute. After setting a new password , set it again in "Search Settings".

Figure 5-18 Modify device password (2)



The new password must contain at least two types of numbers, letters and common characters, and no illegal characters. And please complete the password change within one minute. Once you've set a new password, set it in Search Settings.

5.6.5 Video Standard

Used to set the video format of the video on the device.

Steps

Step 1 Click "System" in the menu bar and click the "Video Standard " tab.

Step 2 Select the device for which you want to set the video format in the device navigation tree , and select the video format from the "Video Standard " drop-down list.

Step 3 Click "Save".

If the video format setting is successful, it will be displayed on the right side of the device ; if it fails, it will be displayed . Click  or  to view details.

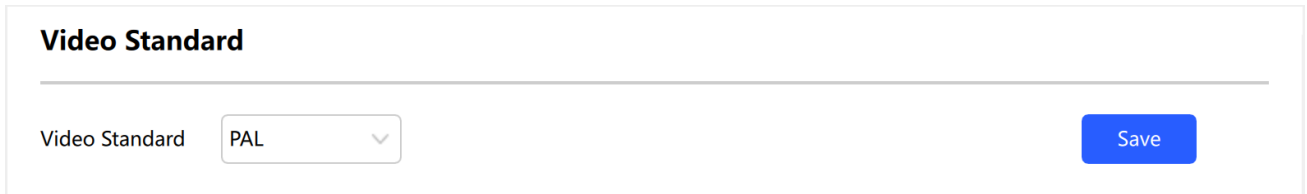


Figure 5-19 Video standard setting

5.7 CGI Protocol

You can modify device password or other parameters through CGI commands and table.



illustrate :

Make sure that you have the corresponding commands from technical support in advance.

5.7.1 CGI Command Configuration

Steps

Step 1 Click "CGI Protocol " in the menu bar.

Step 2 (Optional) If the device to be modified is added via template or search, please check the "Search Settings" dialog box to ensure that the correct device username and password are entered in this dialog box.

Step 3 Enter the URL path, and after confirming that the URL path is correct, click "Config."

If the URL path setting is successful, it will be displayed on the left side of the URL ; if it fails, it will be displayed . Click  or  to view details. Click the right mouse button to copy the result.

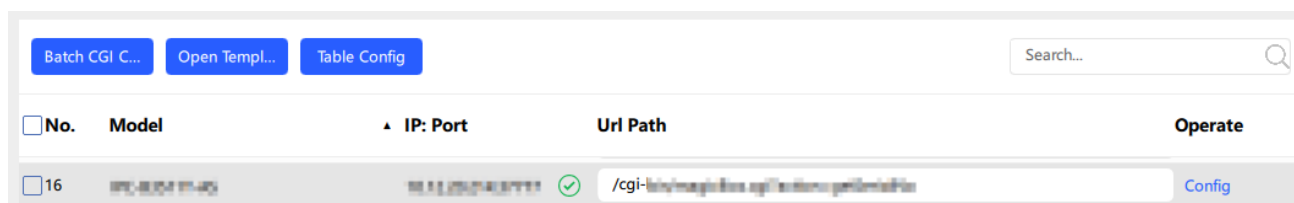


Figure 5-20 CGI Command Configuration

5.7.2 Changing CGI Commands in batches

Steps

Step 1 Click "CGI Protocol " in the menu bar.

Step 2 (Optional) If the device to be modified is added via template or search, please check the "Search Settings" dialog box to ensure that the correct device username and password are entered in this dialog box.

Step3 Select the device that you want to configure in batches, click Batch CGI Commands, and then enter the Url path.

Step4 Click "OK".

If the URL path setting is successful, it will be displayed on the left side of the URL ; if it fails, it will be displayed . Click or to view details. Click the right mouse button to copy the result.

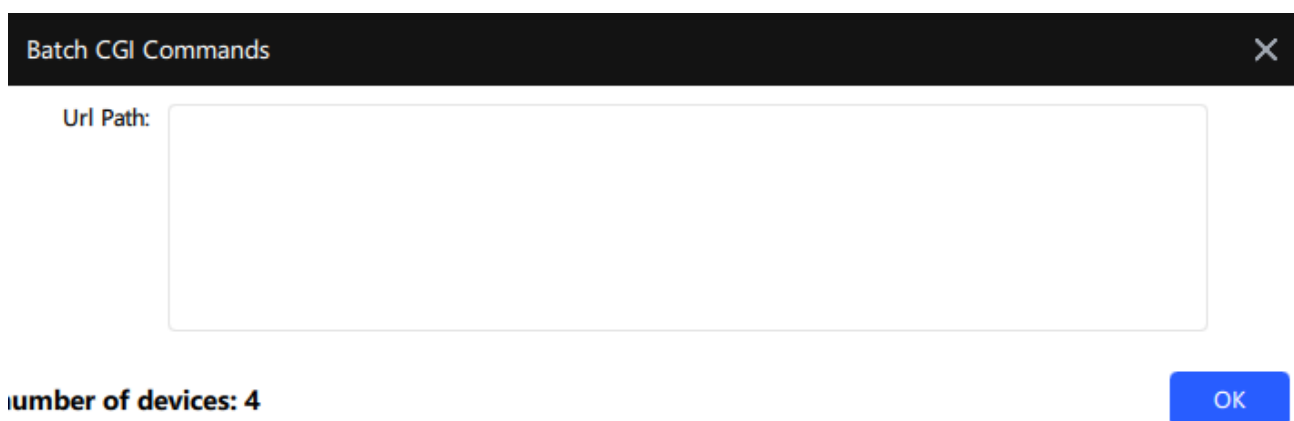


Figure 5-21 Changing CGI Commands in batches

5.7.3 Table Configuration

Steps

Step 1 Click "CGI Protocol " in the menu bar.

Step 2 (Optional) If the device to be modified is added via template or search, please check the "Search Settings" dialog box to ensure that the correct device username and password are entered in this dialog box.

Step3 Click "Open Template ", and then enter IP address, port No., username, password, and CGI commands content. Save the template, and then close it.

IP address	port	username	password	CGI configuration command	Protocol type (0-http, 1-https)	Set result
192.168.1.104	87777	admin	admin	/cgi-bin/configManager.cgi?action=editConfig	0	
192.168.1.104	87777	admin	admin	/cgi-bin/configManager.cgi?action=editConfig	0	
192.168.1.104	87777	admin	admin	/cgi-bin/configManager.cgi?action=editPassword	1	

Figure 5-22 Parameter description of the template

Parameter	Description
IP Address	Enter the device IP.
Port	Enter the device port.
Username	Enter the device username.
Password	Enter the device password.
CGI Commands Content	The command path of the device CGI configuration. Sending configuration through non-default port is available.
Protocol (0 - http, 1 - https)	Http and https are available.
Set Result	The result of the CGI command execution.

Table 5-6 Parameter description of the template

Step4 Return to CGI protocol page.

Step5 Click "Table Config", Select the completed template, and then click "Open" to import the template. The

devices in the template will be configured as the template.

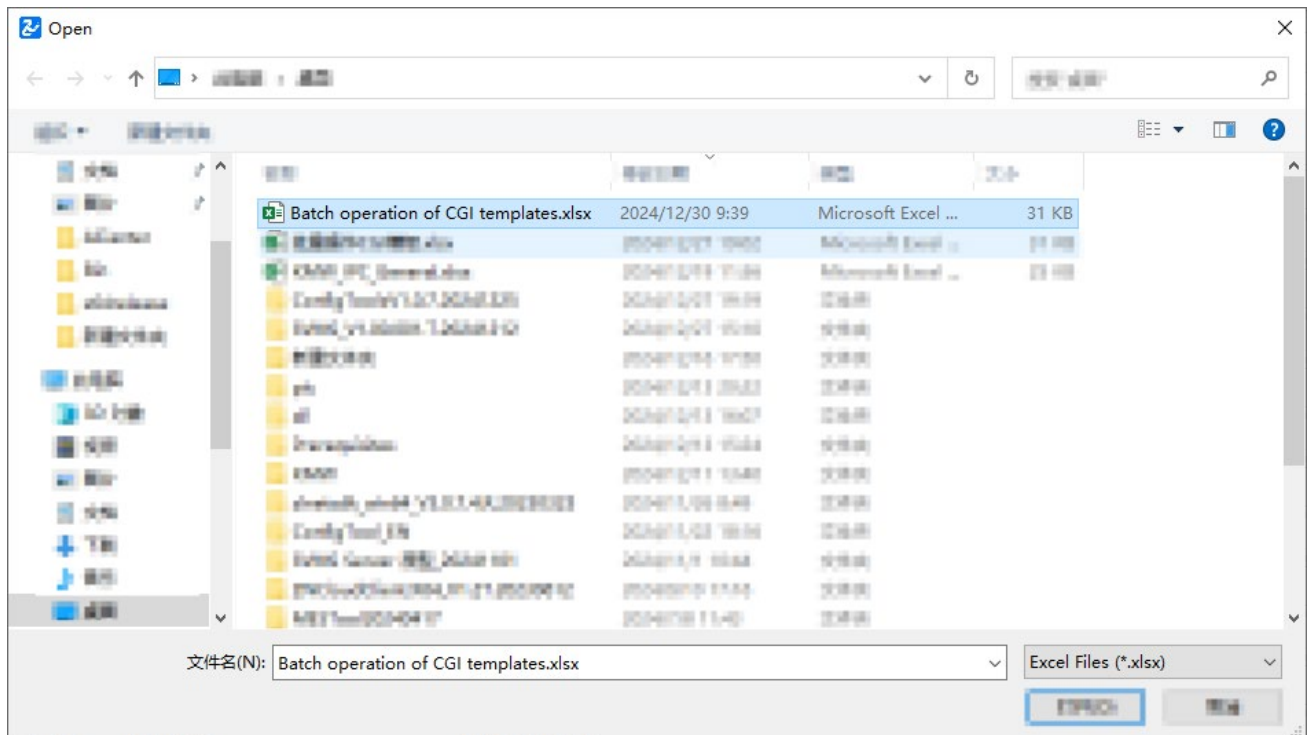


Figure 5-23 Table Configuration

6 Statement

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Security advice

1) Use complex passwords

When setting a password, please refer to the following suggestions:

- a) Password length must be at least 8 characters.
 - b) The password must contain at least two character types, including uppercase and lowercase letters, numbers, and special symbols.
 - c) Do not set regular passwords, such as account names, account names in reverse order, consecutive characters (123, abc , etc.), overlapping characters (111, aaa , etc.).
- #### 2) Recommendations for strengthening network/data security
- a) change your login password regularly to reduce the risk of cracking.
 - b) It is recommended that you enable the account binding IP/MAC address mechanism. This feature is only provided by some products.
 - c) It is recommended that you enable the account lock function. When the number of incorrect password entries exceeds the limit, the account will be locked. This feature is only provided by some products.

- d) It is recommended that you set reasonable permission sets, set corresponding role permissions according to the principle of "minimum permission set", and assign reasonable role permissions to users.
- e) It is recommended that you regularly detect security vulnerabilities in the operating system and third-party components and apply official patches in a timely manner.
- f) It is recommended that you limit the ports mapped externally by the platform through firewalls or routers, follow the minimum necessary principle, and only map necessary ports.
- g) It is recommended that you partition and isolate the network accordingly. If there are no communication requirements between the two subnets, it is recommended to use VLAN, gatekeeper, etc. to align and isolate the network.