

IP Finder

User Manual

Cybersecurity Recommendations

Mandatory actions to be taken towards cybersecurity

1. Change Passwords and Use Strong Passwords:

The number one reason systems get "hacked" is due to having weak or default passwords. It is recommended to change default passwords immediately and choose a strong password whenever possible. A strong password should be made up of at least 8 characters and a combination of special characters, numbers, and upper and lower case letters.

2. Update Firmware

As is standard procedure in the tech-industry, we recommend keeping NVR, DVR, and IP camera firmware up-to-date to ensure the system is current with the latest security patches and fixes.

"Nice to have" recommendations to improve your network security

1. Change Passwords Regularly

Regularly change the credentials to your devices to help ensure that only authorized users are able to access the system.

2. Change Default HTTP and TCP Ports:

- Change default HTTP and TCP ports for systems. These are the two ports used to communicate and to view video feeds remotely.
- These ports can be changed to any set of numbers between 1025-65535. Avoiding the default ports reduces the risk of outsiders being able to guess which ports you are using.

3. Enable HTTPS/SSL:

Set up an SSL Certificate to enable HTTPS. This will encrypt all communication between your devices and recorder.

4. Enable IP Filter:

Enabling your IP filter will prevent everyone, except those with specified IP addresses, from accessing the system.

5. Change ONVIF Password:

On older IP Camera firmware, the ONVIF password does not change when you change the system's credentials. You will need to either update the camera's firmware to the latest revision or manually change the ONVIF password.

6. Forward Only Ports You Need:

- Only forward the HTTP and TCP ports that you need to use. Do not forward a huge range of numbers to the device. Do not DMZ the device's IP address.
- You do not need to forward any ports for individual cameras if they are all connected to a recorder on site; just the NVR is needed.

9. Limit Features of Guest Accounts:

If your system is set up for multiple users, ensure that each user only has rights to features and functions they need to use to perform their job.

10. UPnP:

- UPnP will automatically try to forward ports in your router or modem. Normally this would be a good thing. However, if your system automatically forwards the ports and you leave the credentials defaulted, you may end up with unwanted visitors.
- If you manually forwarded the HTTP and TCP ports in your router/modem, this feature should be turned off regardless. Disabling UPnP is recommended when the function is not used in real applications.

11. SNMP:

Disable SNMP if you are not using it. If you are using SNMP, you should do so only temporarily, for tracing and testing purposes only.

12. Multicast:

Multicast is used to share video streams between two recorders. Currently there are no known issues involving Multicast, but if you are not using this feature, deactivation can enhance your network security.

13. Check the Log:

If you suspect that someone has gained unauthorized access to your system, you can check the system log. The system log will show you which IP addresses were used to login to your system and what was accessed.

14. Physically Lock Down the Device:

Ideally, you want to prevent any unauthorized physical access to your system. The best way to achieve this is to install the recorder in a lockbox, locking server rack, or in a room that is behind a lock and key.

15. Connect IP Cameras to the PoE Ports on the Back of an NVR:

Cameras connected to the PoE ports on the back of an NVR are isolated from the outside world and cannot be accessed directly.

16. Isolate NVR and IP Camera Network

The network your NVR and IP camera resides on should not be the same network as your public computer network. This will prevent any visitors or unwanted guests from getting access to the same network the security system needs in order to function properly.

Foreword

General

This user's manual (here in after referred to be "the Manual") introduces the functions and operations of the IP Finder (here in after referred to be "the Tool").

Safety Instructions

The following categorized signal words with defined meaning might appear in the Manual.

| Signal Words | Meaning |
|--|--|
|  DANGER | Indicates a high potential hazard which, if not avoided, will result in death or serious injury. |
|  WARNING | Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury. |
|  CAUTION | Indicates a potentially hazardous situation which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result. |
|  TIPS | Provides methods to help you solve a problem or save you time. |
|  NOTE | Provides additional information as the emphasis and supplement to the text. |

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others' such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area, providing data subject with proper access to their personal data and providing related contact.

About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall govern.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation between the actual value of some data and the value provided, if there is any doubt or dispute, please refer to our final explanation.
- Please contact the supplier or customer service if there is any problem occurred when using the device.
- We are not liable for any loss caused by the operations that do not comply with the Manual.

- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website or contact your local service engineer for more information.
- If there is any uncertainty or controversy, please refer to our final explanation.

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CAUTION

Do not use the IP Finder Tool, KVMS Pro at the same time; otherwise it might cause device search abnormalities.

The Tool provides the following functions to configure and maintain the devices such as IPC and NVR:

- Initialize the device.
- Modify device IP.
- Set the code parameters or video parameters for the device.
- Sync device time, reboot device, restore system default, modify device password and reset password.
- Upgrade device, including local upgrade.

Installation and Uninstallation

This chapter provides instructions to install and uninstall the Tool.

1.1 Installation

Make sure you have the Tool installation package, if not, contact the customer service. To install the Tool, do the following:

Step 1 Double-click the installation package.

The **Welcome** screen is displayed. See Figure 1-1.



Figure 1-1

Step 2 Click **Next**.

The **Option** screen is displayed. See Figure 1-2.

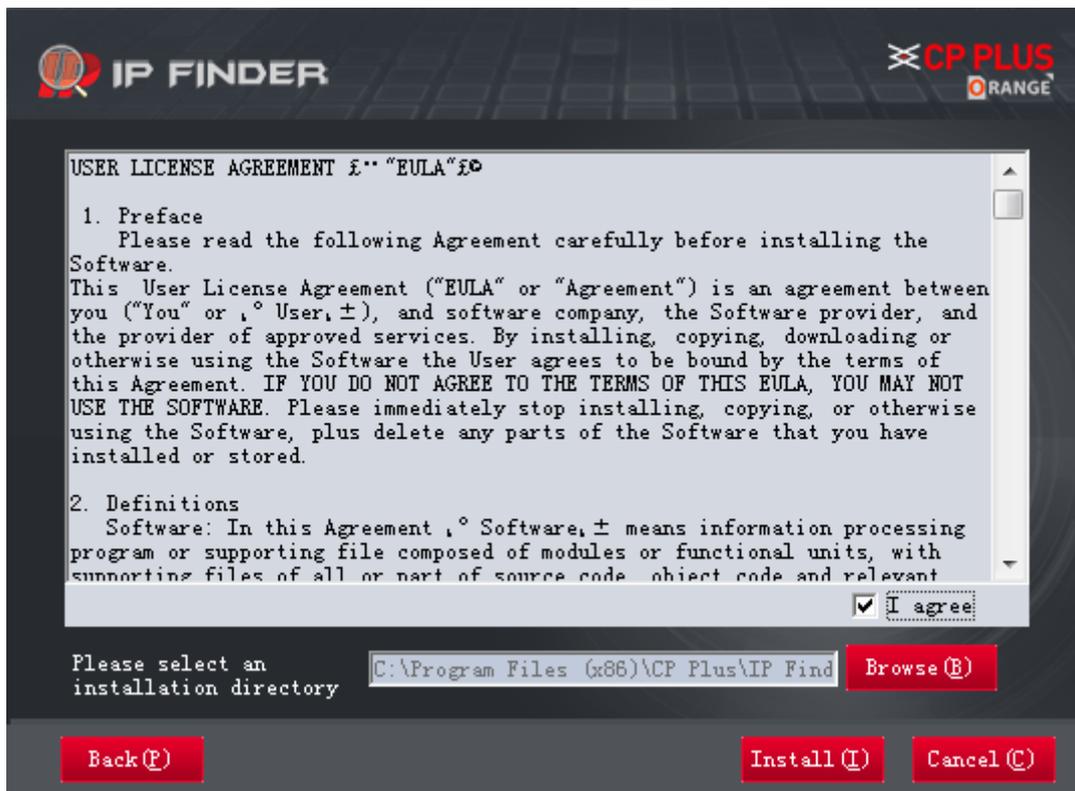


Figure 1-2

Step 3 Read the *User License Agreement*, click **I agree**, and then click **Browse** to choose the save path.

Step 4 Click **Install** to start installing the Tool.

After the installation is completed, the **Install** screen is displayed. See Figure 1-3.



Figure 1-3

Step 5 Click **Close** to complete the installation.

1.2 Uninstallation

Step 1 On your computer (take Windows 7 as an example), click **Start > All Programs > IP Finder > Uninstall IP Finder**.

The **Uninstall** screen is displayed. See Figure 1-4.



Figure 1-4

Step 2 Click **Uninstall** to start uninstalling the Tool.

After the uninstallation is completed, the **Prompt** is displayed.

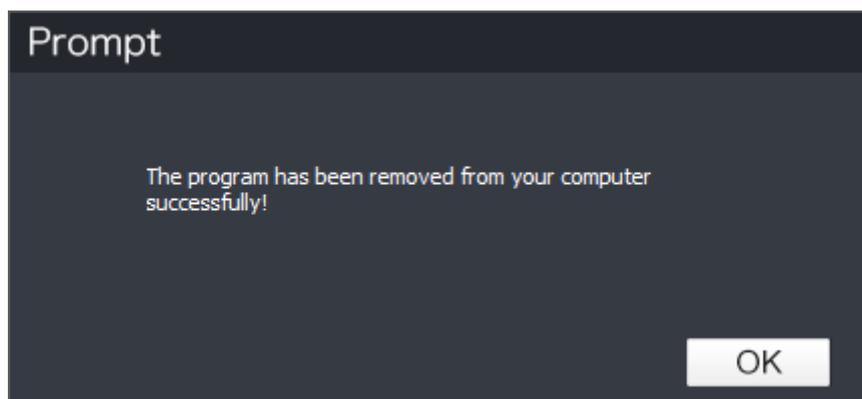


Figure 1-5

Step 3 Click **OK** to complete the uninstallation.

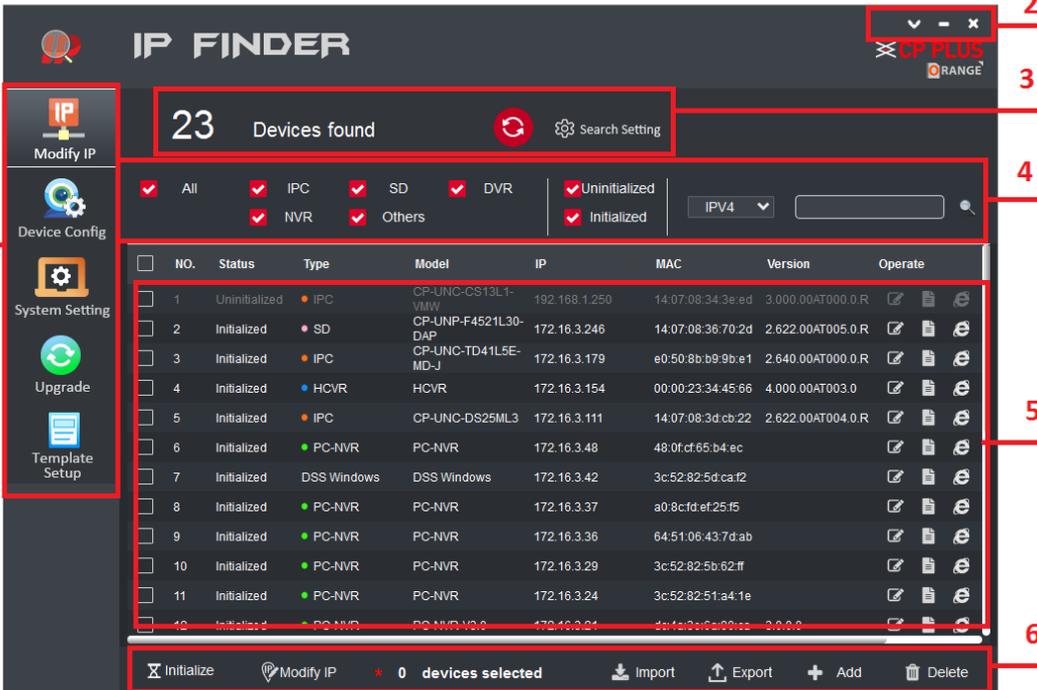
2 Basic Operations

1.3 Launching the IP Finder

On the desktop, double-click , the Tool main user interface is displayed. See Figure 1-6 and Table 1-1.

NOTE

- After the Tool is launched, it will search the devices according to the network segments set in **Search setting**.
- The default is both **Current Segment Search** check box and **Other Segment Search** check box are selected in the first launch of the Tool.



The screenshot shows the IP FINDER application interface. The interface includes a sidebar on the left with navigation options: Modify IP, Device Config, System Setting, Upgrade, and Template Setup. The main area displays a search results table with columns for NO., Status, Type, Model, IP, MAC, Version, and Operate. The table shows 12 devices found, with various statuses and types. The interface also includes a search bar, filters for device types and initialization status, and a bottom toolbar with actions like Initialize, Modify IP, Import, Export, Add, and Delete. Red callouts 1 through 6 point to specific UI elements: 1 points to the sidebar, 2 to the window title bar, 3 to the search bar, 4 to the filter buttons, 5 to the table, and 6 to the bottom toolbar.

| NO. | Status | Type | Model | IP | MAC | Version | Operate |
|-----|---------------|-------------|---------------------|---------------|-------------------|-------------------|------------------------|
| 1 | Uninitialized | IPC | CP-UNC-CS13L1-VWV | 192.168.1.250 | 14-07-08:34:3e:ed | 3.000.00AT000.0.R | [Edit] [Copy] [Delete] |
| 2 | Initialized | SD | CP-UNP-F4521L30-DAP | 172.16.3.246 | 14-07-08:36:70:2d | 2.622.00AT005.0.R | [Edit] [Copy] [Delete] |
| 3 | Initialized | IPC | CP-UNC-TD41L5E-MD-J | 172.16.3.179 | e0:50:8b:b9:9b:e1 | 2.640.00AT000.0.R | [Edit] [Copy] [Delete] |
| 4 | Initialized | HCVR | HCVR | 172.16.3.154 | 00:00:23:34:45:66 | 4.000.00AT003.0 | [Edit] [Copy] [Delete] |
| 5 | Initialized | IPC | CP-UNC-DS25ML3 | 172.16.3.111 | 14-07-08:3d:cb:22 | 2.622.00AT004.0.R | [Edit] [Copy] [Delete] |
| 6 | Initialized | PC-NVR | PC-NVR | 172.16.3.48 | 48:0f:cf:65:b4:ec | | [Edit] [Copy] [Delete] |
| 7 | Initialized | DSS Windows | DSS Windows | 172.16.3.42 | 3c:52:82:5d:ca:f2 | | [Edit] [Copy] [Delete] |
| 8 | Initialized | PC-NVR | PC-NVR | 172.16.3.37 | a0:8c:fd:ef:25:f5 | | [Edit] [Copy] [Delete] |
| 9 | Initialized | PC-NVR | PC-NVR | 172.16.3.36 | 64:51:06:43:7d:ab | | [Edit] [Copy] [Delete] |
| 10 | Initialized | PC-NVR | PC-NVR | 172.16.3.29 | 3c:52:82:5b:62:ff | | [Edit] [Copy] [Delete] |
| 11 | Initialized | PC-NVR | PC-NVR | 172.16.3.24 | 3c:52:82:51:a4:1e | | [Edit] [Copy] [Delete] |
| 12 | Initialized | PC-NVR | PC-NVR | 172.16.3.24 | 3c:52:82:51:a4:1e | | [Edit] [Copy] [Delete] |

Figure 1-6

| No. | Function | Description |
|-----|-----------|--|
| 1 | Menu | <p>This function includes five tabs: Modify IP, Device Config, System Settings, Upgrade, and Template Setup.</p> <ul style="list-style-type: none"> ● Modify IP ( to refresh the device list that is displayed in the main screen. |
| 3 | Help | <p>This function provides access to check the Help file, QA file and software version, set network parameters and upgrade parameters, minimize or exit the software.</p> <ul style="list-style-type: none"> ● Click  to check the Help file, QA file and software version. <p>Select Setting to set network timeout and online upgrade, including enable online upgrade, for detail, see "Error! Reference source not found. Error! Reference source not found.."</p> <ul style="list-style-type: none"> ● Click  to minimize the software. ● Click  to exit the software. |
| 4 | Filtering | <p>This function provides filtering by selecting device type and IP version (IPV4 or IPV6) to find the devices quickly.</p> <p>You can also manually enter the conditions such as type, IP address, model, MAC address and version number to search the devices.</p> |

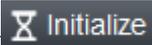
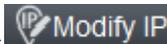
| No. | Function | Description |
|-----|------------------|--|
| 5 | Device list | <p>This function shows the searched devices and their information such as type, mode, IP, MAC and version.</p> <p>The Operate column provides the following functions:</p> <ul style="list-style-type: none"> Click  to modify device IP. Click  to view device details. Click  to open device WEB configuration interface. <p> NOTE It is not supported to modify IP or view device details under IPV6.</p> |
| 6 | Function buttons | <p>This function provides the following buttons:</p> <ul style="list-style-type: none"> Select one or multiple devices and click  to start initializing. Select one or multiple devices and click  to modify the IP addresses. Click  to import one or multiple devices through template. Select one or multiple devices and click  to export the device details. Select one or multiple devices and click  to remove from the list. |

Table 1-1

1.4 Adding Devices

You can add one or multiple devices depending on your actual situation.



Make sure the network is interworking between the device and the PC installed with the Tool; otherwise the Tool cannot find the device.

1.4.1 Adding One Device

You can choose this procedure for adding one device.



You can set the filtering conditions to search the wanted device quickly.

Step 1 Click .

The **Modify IP** screen is displayed. See Figure 1-7.

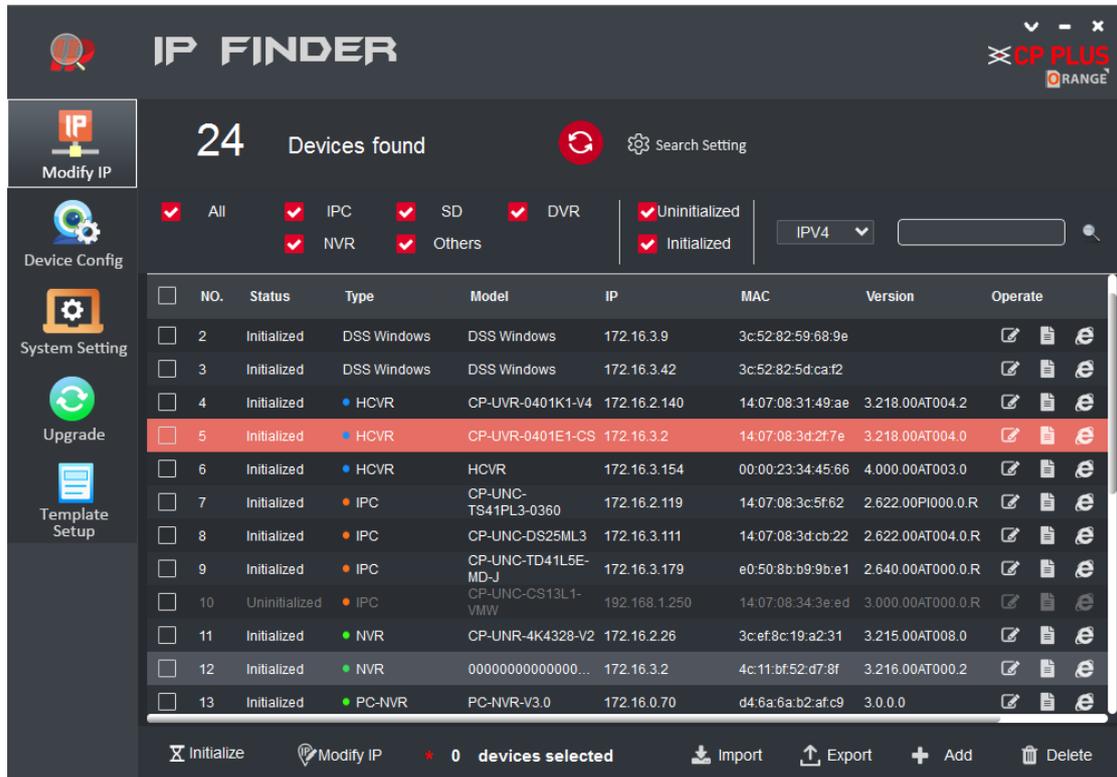


Figure 1-7

Step 2 Click  **Add**.

The **Manual Add** dialog box is displayed. In **Add Type** list, you can select **IP Address** or **Device SN**. See Figure 1-8 and Figure 1-9.

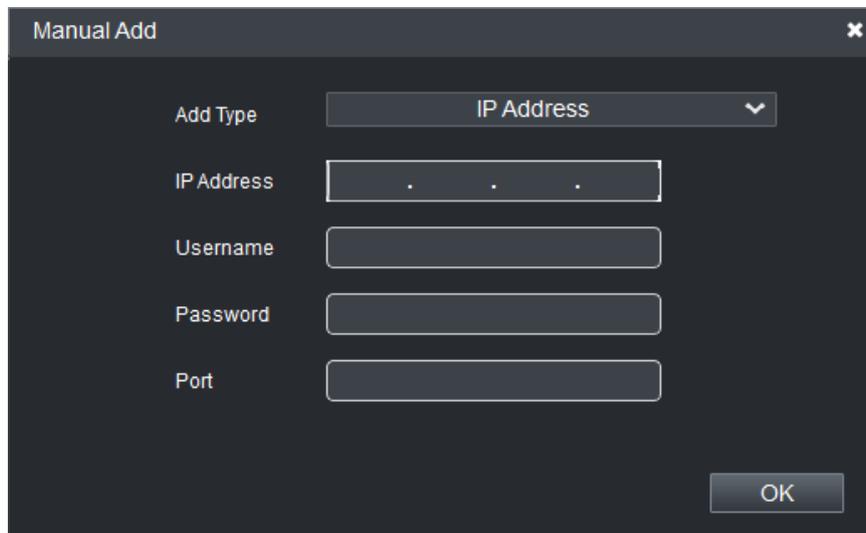


Figure 1-8

The image shows a 'Manual Add' dialog box with a dark background. At the top left is the title 'Manual Add' and a close button 'x'. Below the title, there is a dropdown menu for 'Add Type' with the selected option 'Device SN(Device support P2P only)'. Underneath are three text input fields labeled 'SN.', 'Username', and 'Password'. At the bottom right is an 'OK' button.

Figure 1-9

Step 3 Set the device parameters. See Table 1-2.

| Add Method | Parameter | Description |
|-------------------------------------|------------|--|
| IP Address | IP Address | The IP address of the device. |
| | Username | The user name and password for device login. |
| | Password | |
| | Port | The device port number. |
| Device SN (Device support P2P only) | SN | The serial number of the device. |
| | Username | The user name and password for device login. |
| | Password | |

Table 1-2

Step 4 Click **OK**.

The newly added device appears in the device list.

1.4.2 Adding Multiple Devices

You can add multiple devices through searching devices or importing the template.

- If you know the network segment where the device is located, add the devices through searching. For details about how to add by searching, see "1.4.2.1 Adding by Searching."
- If you have the template data of the device, add the devices through importing the template. For details about how to add by template, see "1.4.2.2 Adding by Template."

1.4.2.1 Adding by Searching

You can add multiple devices through searching the current segment or other segment.



You can set the filtering conditions to search the wanted device quickly.

Step 1 Click  Search Setting.

The **Setting** dialog box is displayed. See Figure 1-10.

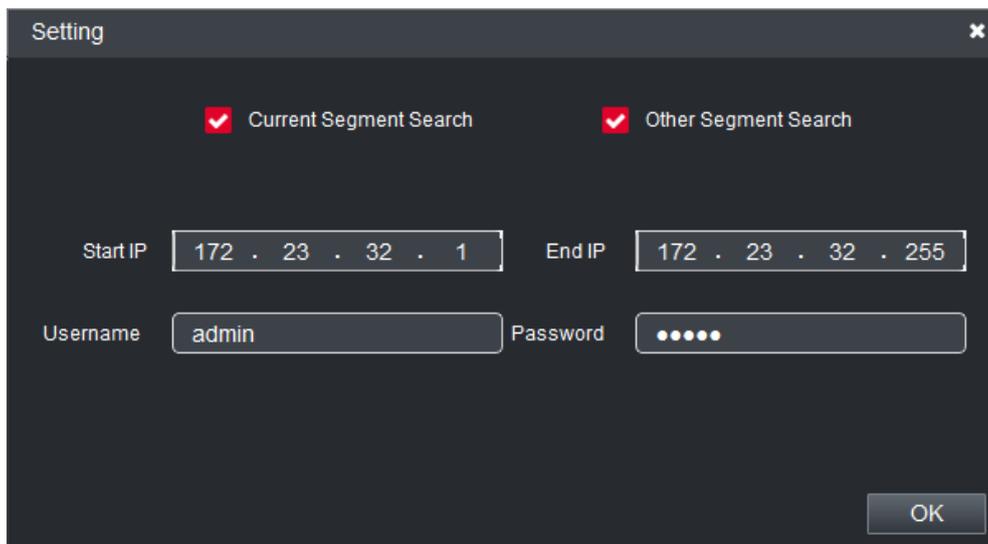


Figure 1-10

Step 2 Select the searching way. Both of the following two ways are selected by default.

- **Current Segment Search**
Select the **Current Segment Search** check box. Enter the user name in the **Username** box and the password in the **Password** box. The system will search the devices accordingly.
- **Other Segment Search**
Select the **Other Segment Search** check box. Enter the IP address in the **Start IP** box and **End IP** box respectively. Enter the user name in the **Username** box and the password in the **Password** box. The system will search the devices accordingly.

 NOTE

- If you select both the **Current Segment Search** check box and the **Other Segment Search** box, the system searches devices under the both conditions.
- The user name and the password are the ones used to login when you want to modify IP, configure the system and update the device.

Step 3 Click **OK** to start searching devices.

The searched devices will appear in the device list on the main user interface.

 NOTE

- Click  to refresh the device list.
- The system saves the searching conditions when exiting the software and reuses the same conditions when the software is launched next time.

1.4.2.2 Adding by Template

You can quickly add devices by using the template.

 NOTE

Make sure your PC is installed with Microsoft Excel.

1.4.2.2.1 Accessing to the Template

You can either manually fill in the template or export the device details file from the system.

- For the details about how to fill in the template, see "Filling in the template."
- For the details about how to export the device details, see "Exporting the device details file."



- The template (DeviceTemplate.xls) must be opened and edited by Excel.
- To delete the record in the template, right-click the line with the record, and then select **Delete**.

Filling in the Template

Step 1 Find the device template in the Tool save path and open it. See Figure 1-11.

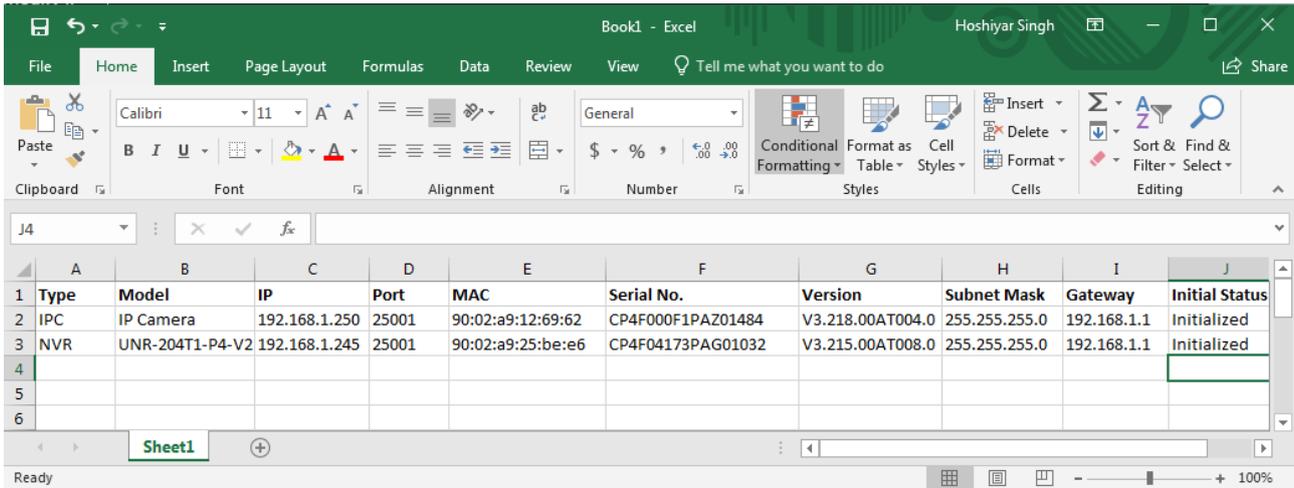


Figure 1-11

Step 2 Enter the device parameters. See Table 1-3.

| Parameter | Description |
|----------------|---|
| Type | Optional. Device type, such as IPC, NVR. |
| Model | Optional. Device model. |
| IP | Mandatory. IP address of device. |
| Port | Mandatory. Port number of device. |
| MAC | Mandatory. Device MAC address that can be obtained from the device label. |
| Serial No. | Optional. Device serial number. |
| Version | Optional. Device version number. |
| Subnet Mask | Mandatory. Device subnet mask. |
| Gateway | Mandatory. Device gateway. |
| Initial Status | Mandatory. Device initialization status: Initialized or uninitialized. |

Table 1-3

Step 3 Save and close the template.

Exporting the Device Details File

You can export the device details file and use it as a template to add or back up the device details.

Step 1 Click .

The **Modify IP** screen is displayed.

Step 2 Select the devices you want to export, and then click .

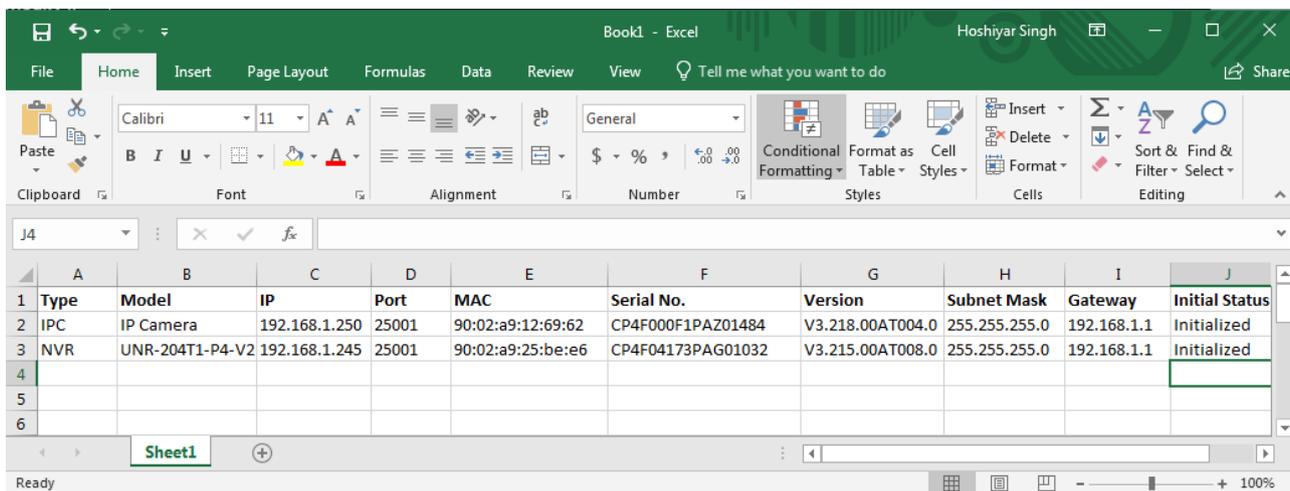
The **Save As** dialog box is displayed.

Step 3 Choose the save path, enter the file name in the **File name** box, and then click **Save**.

The system starts exporting the device details. After the exporting is completed, a **Notice** dialog box is displayed.

Step 4 Click **OK** to complete exporting.

You can check the exported device details in the save path. See Figure 1-12.



The screenshot shows an Excel spreadsheet with the following data:

| | A | B | C | D | E | F | G | H | I | J |
|---|------|-----------------|---------------|-------|-------------------|-------------------|------------------|---------------|-------------|----------------|
| 1 | Type | Model | IP | Port | MAC | Serial No. | Version | Subnet Mask | Gateway | Initial Status |
| 2 | IPC | IP Camera | 192.168.1.250 | 25001 | 90:02:a9:12:69:62 | CP4F000F1PAZ01484 | V3.218.00AT004.0 | 255.255.255.0 | 192.168.1.1 | Initialized |
| 3 | NVR | UNR-204T1-P4-V2 | 192.168.1.245 | 25001 | 90:02:a9:25:be:e6 | CP4F04173PAG01032 | V3.215.00AT008.0 | 255.255.255.0 | 192.168.1.1 | Initialized |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |

Figure 1-12

1.4.2.2.2 Importing Devices

After getting the template, you can add the devices details into the template, and then import the template to the Tool. The devices in the template will display on the device list.



Close the template file before importing the devices; otherwise the import will fail.

Step 1 Click .

The **Modify IP** screen is displayed.

Step 2 Click .

The **Open** dialog box is displayed.

Step 3 Select the template and click **Open**.

The system starts importing the devices details. After the importing is completed, a **Notice** dialog box is displayed.

Step 4 Click **OK**.

The newly imported devices appear in the device list. See Figure 1-13.

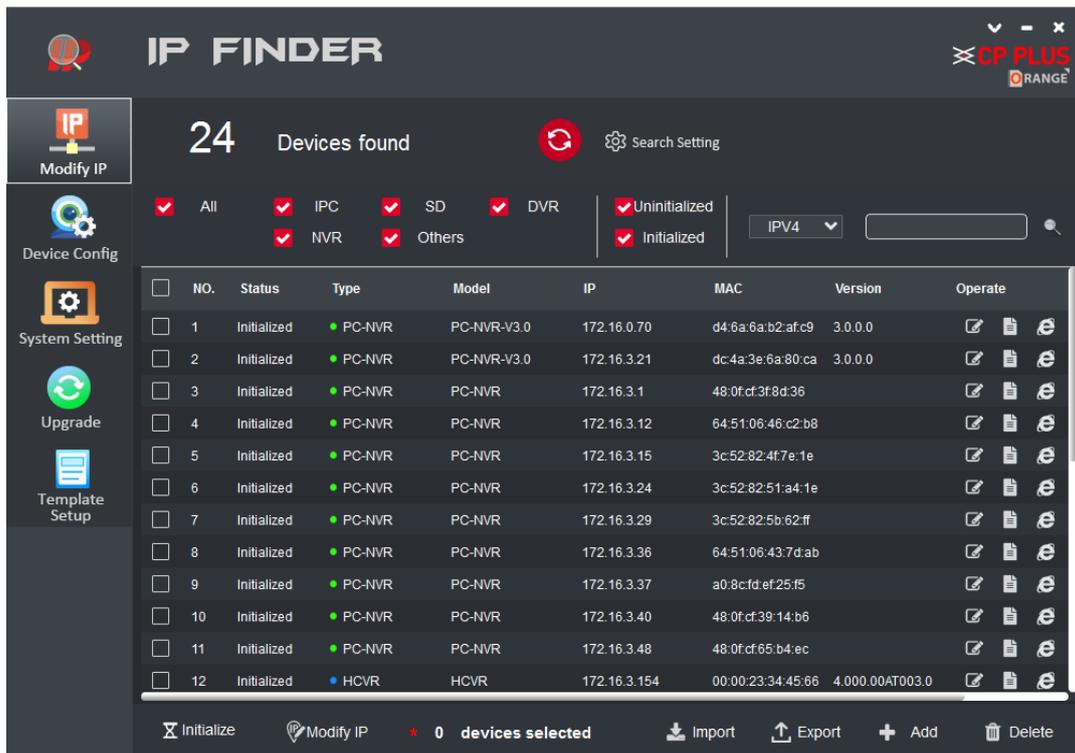


Figure 1-13

1.5 Initializing Devices

You can initialize one or multiple devices depending on your actual situation.

NOTE

- Not all models support this function.
- The initializing operation can only be performed to the devices within the local area network.
- The operations cannot be performed to the uninitialized devices that are shown in gray background. And the uninitialized devices do not appear in other interfaces of the Tool.

Step 1 Click .

The **Modify IP** screen is displayed. See Figure 1-14.

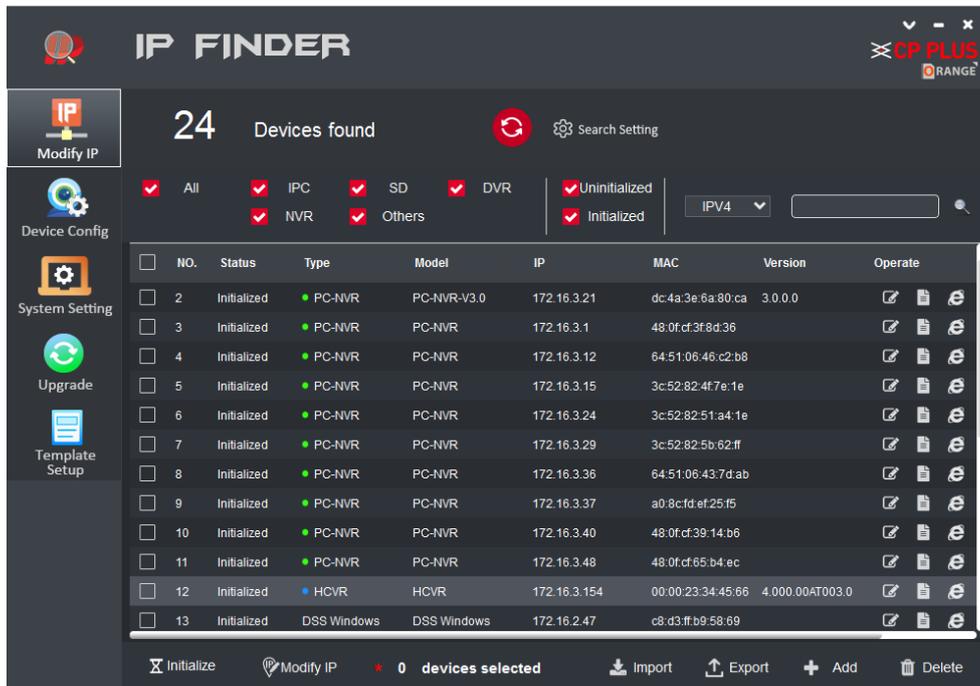


Figure 1-14

Step 2 Select one or several uninitialized devices.

Step 3 Click **Initialize**.

The **Device initialization** screen is displayed. See Figure 1-15.

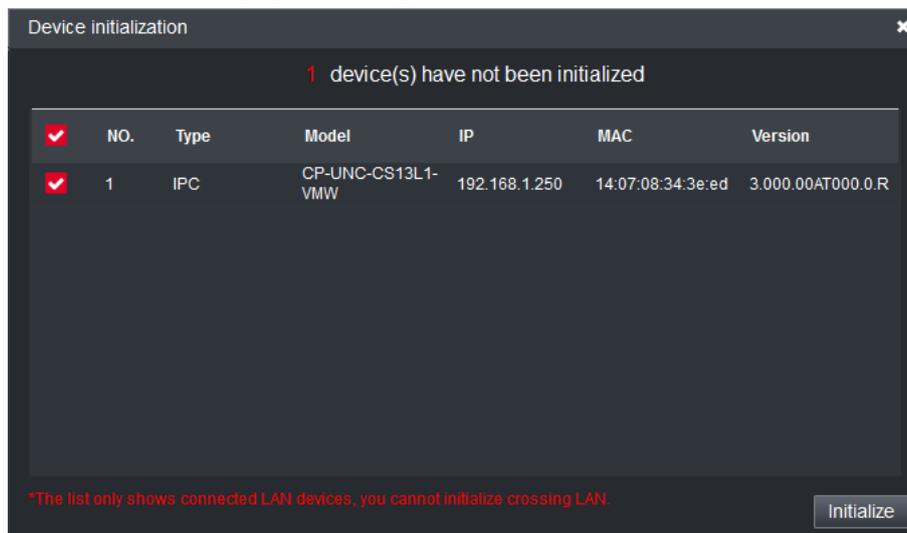


Figure 1-15

Step 4 Select the devices that need to be initialized, and then click **Initialize**.

The **Device initialization** screen is displayed. See Figure 1-16.

NOTE

- The user interface might be different dependent on the model you purchased. If there is inconsistency between the Manual and the actual product, the actual product shall govern.
- If you do not provide the reserve information for password reset, you can reset the password only through XML file.
- When initializing multiple devices, the Tool initializes all devices based on the password reset mode of the first selected device.
- After setting the new password is completed, reset the password in **Search setting** interface.

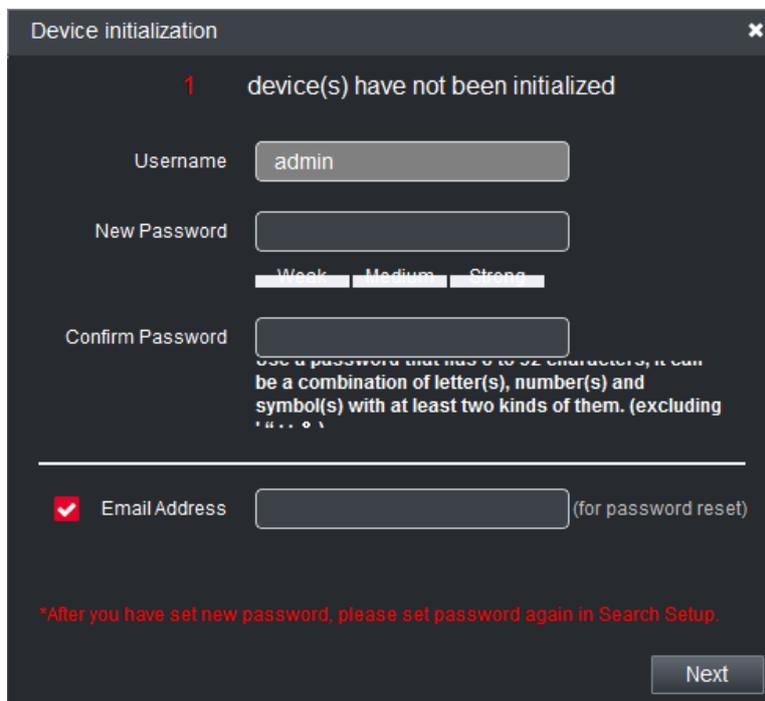


Figure 1-16

Step 5 Set the initialization parameters for the device. See Table 1-4.

| Parameter | Description |
|------------------|--|
| Username | By default, the user name is admin . |
| New Password | Enter the new password for the device. There is an indication for the strength of the new password. The new password must be set between 8 digits and 32 digits and contain at least two types from number, letter and special characters (excluding """, """, ";", ":" and "&"). |
| Confirm Password | Confirm the new password. |
| Email Address | Selected by default. The email address will be used for password reset. |

Table 1-4

Step 6 Click **Next**.

The **Device Initialization** screen is displayed. See Figure 1-17.

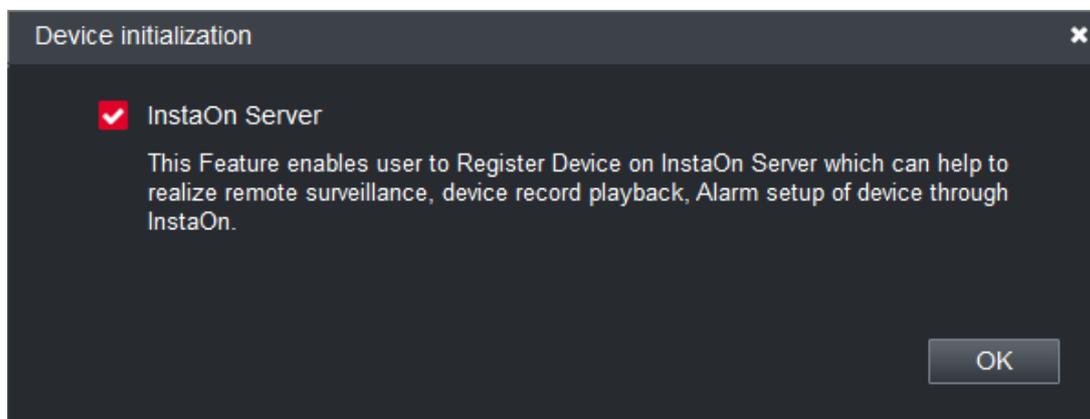


Figure 1-17

Step 7 Select InstaOn Server according to the actual situation.

Step 8 Click **OK** to start initializing the device.

The **Initialization** screen is displayed after initializing is completed. See Figure 1-18.

Click the success icon (✓) or click the failure icon (⚠) for the details.

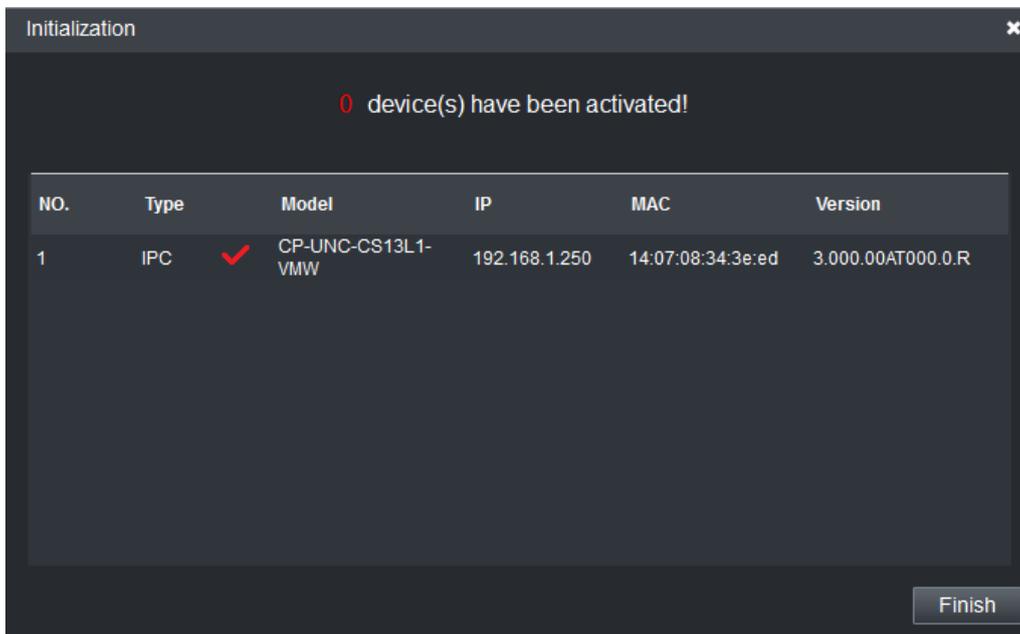


Figure 1-18

Step 9 Click **Finish** to finish initialization.

After the initialization is completed, the status of the devices shows as **Initialized** on the main user interface of the Tool. Meanwhile, the devices appear in other interfaces of the Tool.

1.6 Modifying IP

You can modify IP for one or multiple devices in one time.

You can modify IP in batches only if the devices' login passwords are the same; otherwise you can modify one IP at a time.

1.6.1 Modifying One IP

Step 1 Click .

The **Modify IP** screen is displayed. See Figure 1-19.

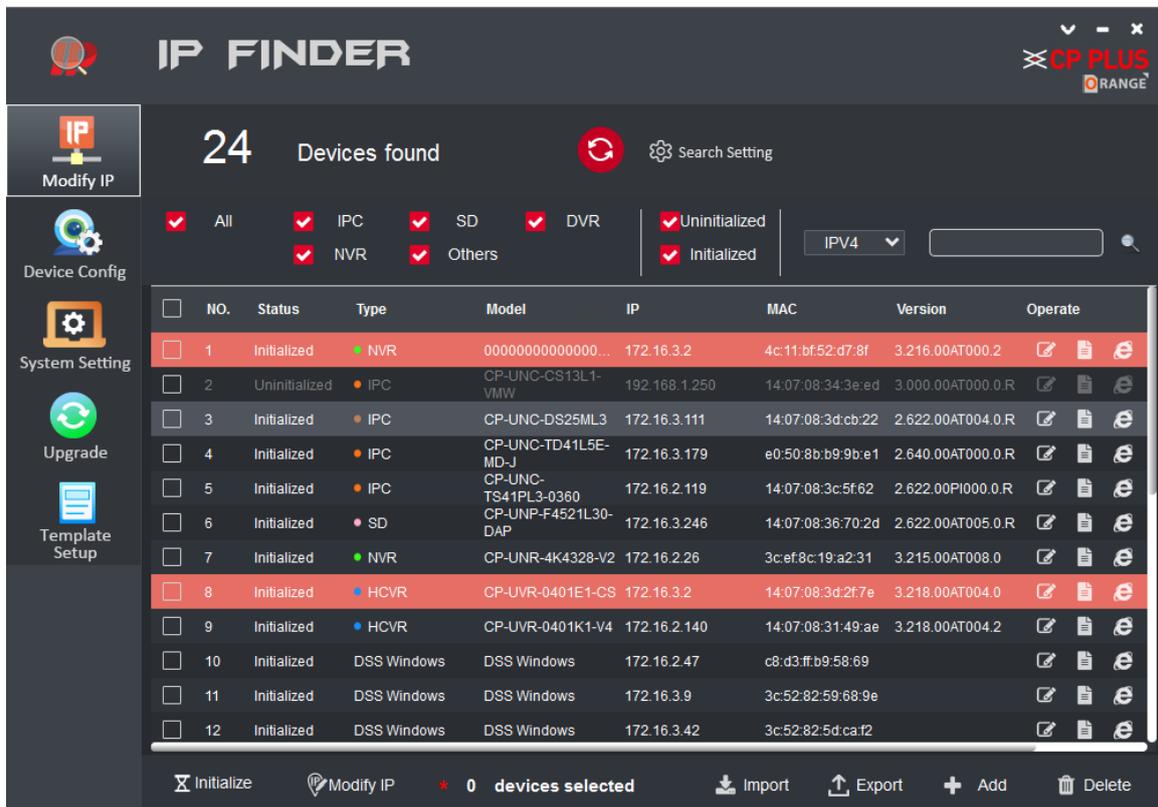


Figure 1-19

Step 2 Find the device you want to modify IP, and then click the **IP Modification** button . The **Modify IP Address** dialog box is displayed. See Figure 1-20.

NOTE

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

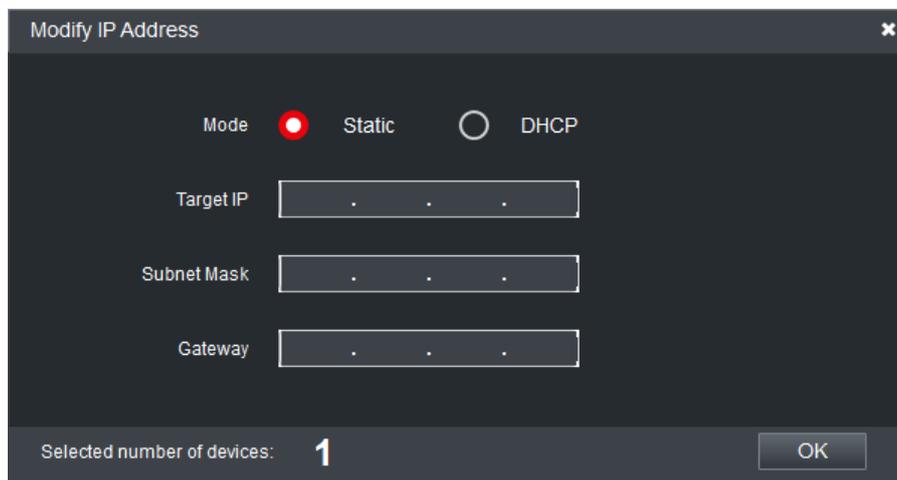


Figure 1-20

Step 3 Select the mode for setting the IP address according to the actual situation.

- DHCP mode: If the DHCP server is available in the network, when you select **DHCP**, the device will automatically obtain the IP address from the DHCP server.
- Static mode: When you select **Static**, you need to enter **Target IP**, **Subnet Mask**, and **Gateway**. The IP address of the device will be modified to be the one you set.

Step 4 Click **OK** to complete modification.

1.6.2 Modifying IP in Batches

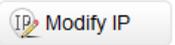
Step 1 Click .

The **Modify IP** screen is displayed.

Step 2 Select the devices you want to modify IP.

 **NOTE**

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 3 Click .

The **Modify IP Address** dialog box is displayed. See Figure 1-21.

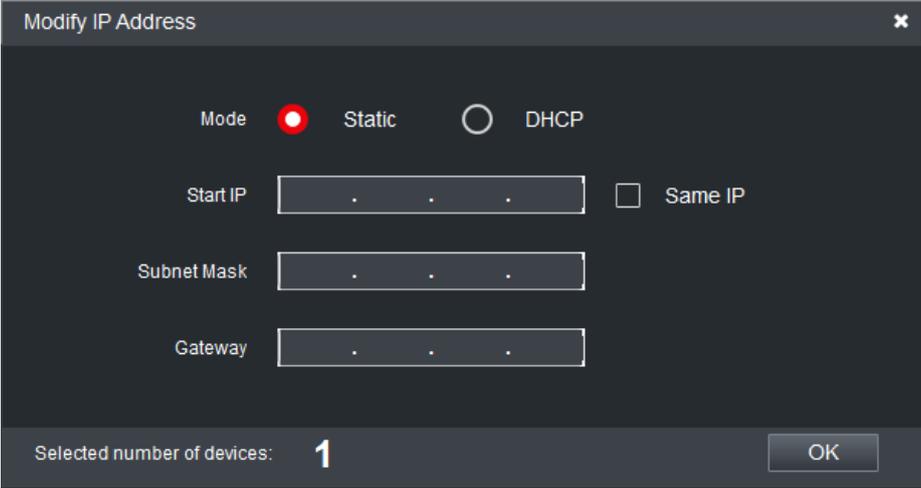


Figure 1-21

Step 4 Select the mode for setting the IP address according to the actual situation.

- DHCP mode: If the DHCP server is available in the network, when you select **DHCP**, the device will automatically obtain the IP address from the DHCP server.
- Static mode: When you select **Static**, you need to enter **Start IP**, **Subnet Mask**, and **Gateway**. The IP address of the devices will be modified successively starting from the entered start IP.

 **NOTE**

If you select the **Same IP** check box, the IP address of the devices will be set to be the same one.

Step 5 Click **OK** to complete modification.

1.7 Configuring the Device Parameters

You can configure the encoding parameters, video parameters, and profile management.

1.7.1 Accessing the Configuration Interface

Step 1 Click .

The **Device Config** screen is displayed. See Figure 1-22.

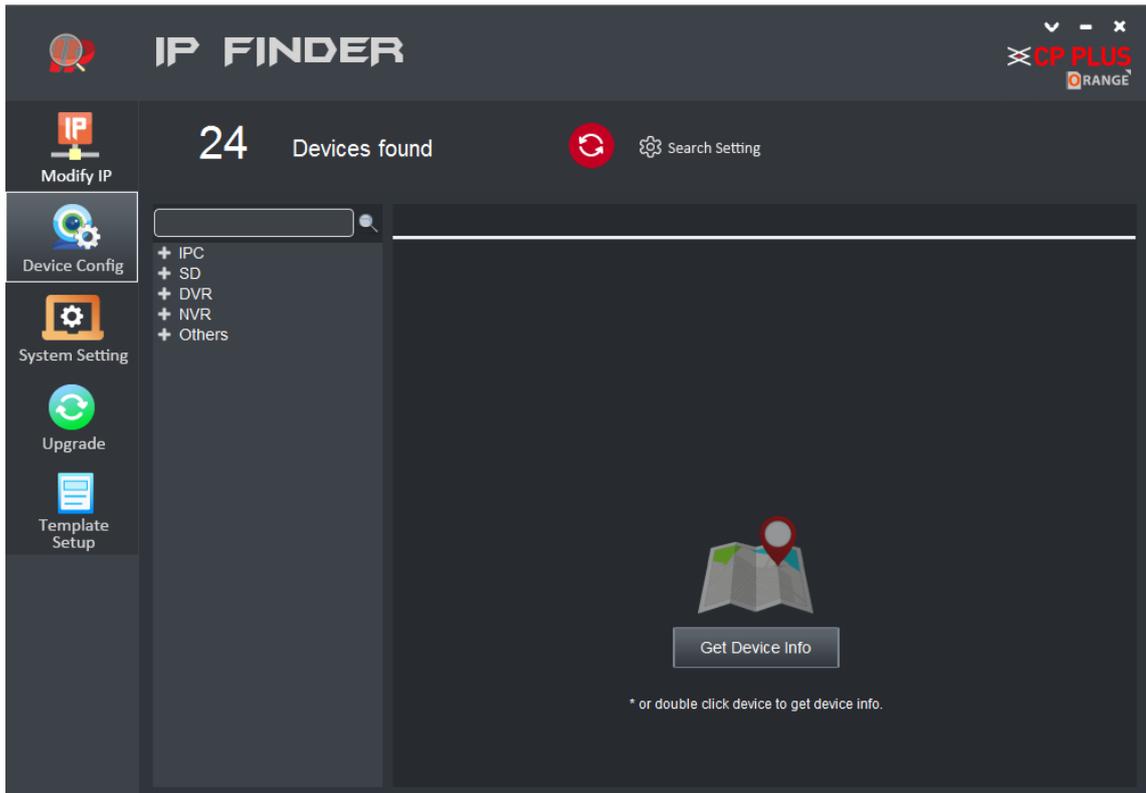


Figure 1-22

Step 2 Select the device under the device type such as IPC, and then click **Get Device Info** or double-click the device.

A **Notice** dialog box is displayed.

NOTE

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 3 Click **OK** or click **Cancel**.

- Click **OK** to enter the **Modify Password** interface on which you can change the initial password of the device. See Figure 1-23.

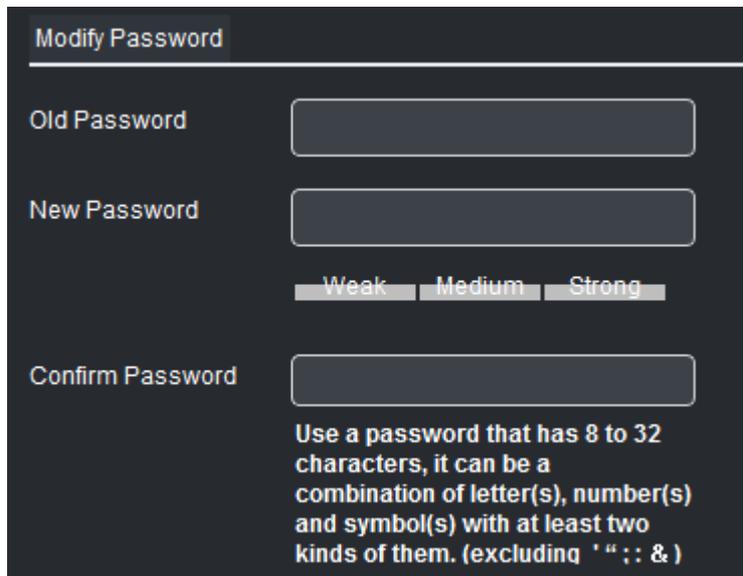


Figure 1-23

Enter the old password, new password, and confirm password, and then Click **OK**.

The **Encode** screen is displayed. See Figure 1-24.

 **NOTE**

- The new password must be set between 8 digits and 32 digits and contain at least two types from number, letter and special characters (excluding "", "", ", ", ":" and "&").
- If the new password is the same with the old password, a **Notice** dialog box is displayed after clicking **OK**. Then you need to click **OK** to go back and reset the new password. Click **Cancel**.

The **Encode** screen is displayed. See Figure 1-24.

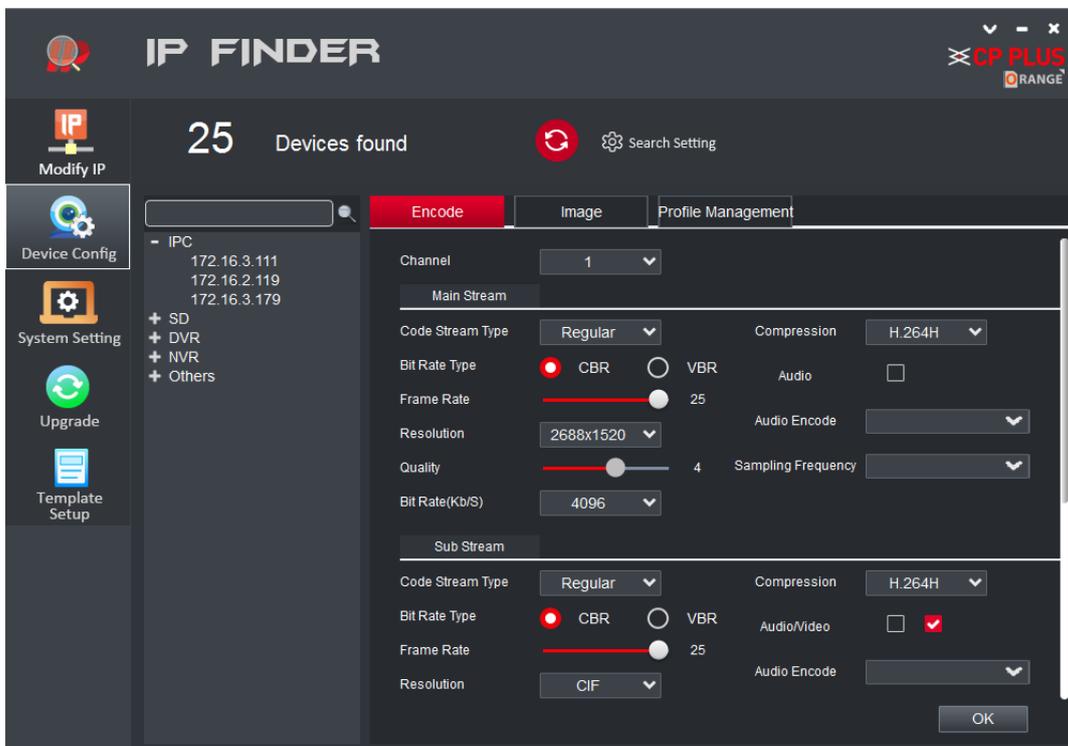


Figure 1-24

1.7.2 Configuring the Parameters

After accessing the Device Config interface, you can configure the encoding parameters, video parameters, and profile management.

1.7.2.1 Configuring Encoding Parameters

You can configure the parameters such as code stream type, compression and resolution for the device.

Step 1 On the **Encode** tab, set the parameters for main stream and sub stream. See Table 1-5.

NOTE

The encoding parameters might be different dependent on the model you purchased. If there is inconsistency between the Manual and the actual product, the actual product shall govern.

| Parameter | Description |
|------------------|--|
| Channel | Select the channel number. |
| Code Stream type | Includes Regular , Motion , and Alarm . The sub stream only supports Regular type. |
| Compression | Includes the following video encoding modes: <ul style="list-style-type: none">● H.264: Main profile encoding.● H.264B: Baseline profile encoding.● H.264H: High profile encoding.● H.265: Main profile encoding.● MJPG: Under this mode, the video image requires higher bit rate to ensure video quality. It is recommended to use the maximum bit rate value to get the best results. |
| Bit Rate Type | Includes the following two types of bit rate: <ul style="list-style-type: none">● Constant Bit Rate (CBR): The bit rate is fluctuating around the set value without big changes.● Variable Bit Rate (VBR): The bit rate is changing along with the monitoring environment.  NOTE When the compression is set as MJPG , the bit rate can only be CBR . |
| Frame Rate | Indicates the total frames per second. The higher the frame rate, the more clear and smooth the image will become. |
| Resolution | Indicates the video resolution. The maximum video resolution might be different dependent on your device model. |
| Quality | Indicates the video image quality level. You can configure this parameter when the bit rate type is set as VBR . |
| Bit Rate (Kb/S) | Select the suitable value according to the actual situation. You can configure this parameter when the bit rate type is set as CBR. |

| Parameter | Description |
|--------------------|--|
| Audio/Video | <ul style="list-style-type: none"> To enable the audio function, select the Audio check box. To monitor with the sub stream, select the Video check box. For the sub stream, you can enable the audio function only after the video function is already enabled. |
| Audio Encode | Indicates audio encoding mode that includes G.711A, G.711Mu, G.726, and AAC. The setting of audio encoding mode will simultaneously apply to both audio and voice intercom. |
| Sampling Frequency | Indicates the sampling frequency of the audio. |

Table 1-5

Step 2 Click **OK** to complete settings.

1.7.2.2 Configuring Video Parameters

You can check the live monitoring picture and set the video effects.

Step 1 Click the **Image** tab.

The **Image** screen is displayed. See Figure 1-25.

NOTE

- Click **Default** to restore the default parameters settings.
- Rotate the wheel button on the image to zoom in or zoom out. Right-click on the image to return to the default size.
- On the image, click  to display in full screen on which click  to restore the default.

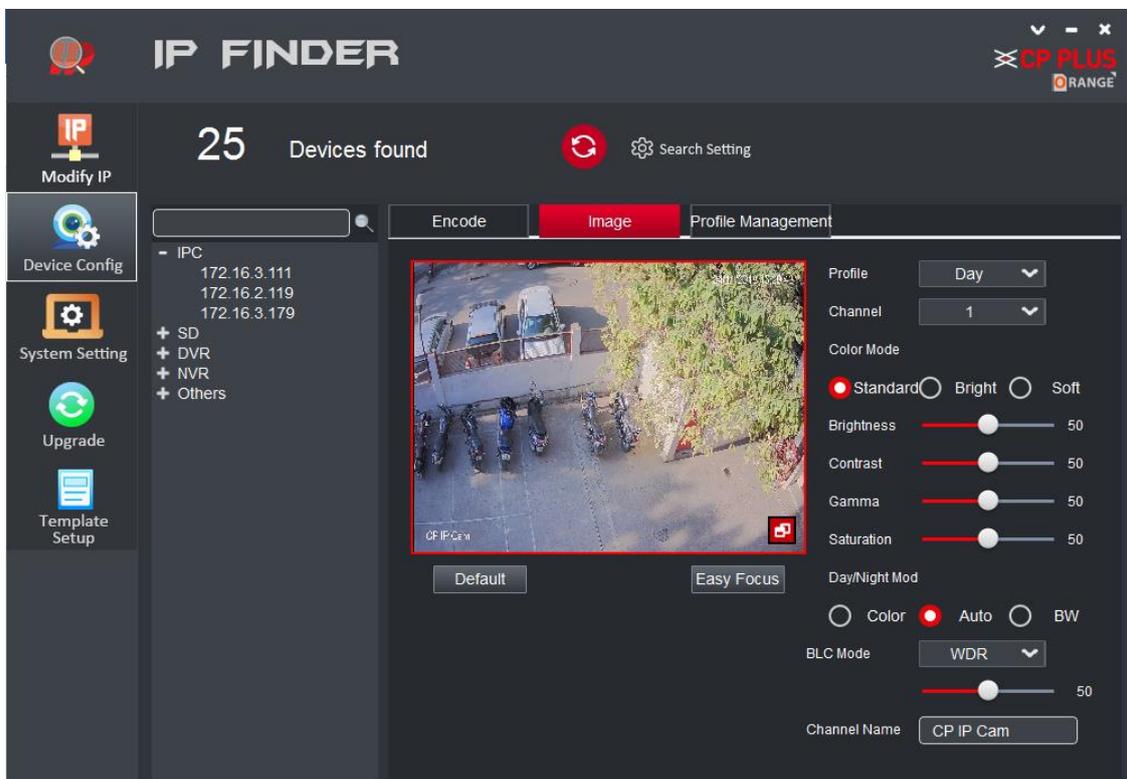


Figure 1-25

Step 2 Set the video parameters. See Table 1-6.

| Parameter | Description |
|----------------|--|
| Profile | Select the device profile from Day, Night, and Normal for the device. |
| Channel | Select the channel number for the device. |
| Color Mode | Select the image color mode from Standard, Bright, and Soft for the device. |
| Brightness | Adjust the image brightness. The bigger the value, the brighter the image will become. |
| Contrast | Adjust the image contrast. The bigger the value is, the more obvious the contrast between the light area and dark area will become. |
| Gamma | Adjust the image brightness in a non-linear way to improve the dynamic display range. The bigger the value, the brighter the image will become. |
| Saturation | Adjust the color shades. The bigger the value, the lighter the color will become. This value does not influence the general image lightness. |
| Day/Night Mode | Includes the following three options: <ul style="list-style-type: none"> ● Color: Select this option to set the color image. ● Auto: Select this option to automatically set the image to be one of the other two options according to the environment. ● BW: Black and white. Select this option to set image to be black and white. |
| BLC Mode | <ul style="list-style-type: none"> ● OFF: Turn off the backlight compensation mode. ● BLC: Backlight compensation. In the backlighting environment, the compensation function can avoid silhouette of the dark part when taking a picture. ● WDR: Wide Dynamic Range. In the strong illumination contrast, this function can suppress the area with excessive brightness and compensate the area with excessive darkness so as to make the image clearer in general. ● HLC: Highlight Compensation. This function can weaken the strong light to reach the brightness balance. |
| Channel Name | Set the device channel name. The input cannot be null character. |

Table 1-6

Step 3 (Optional) Set the **Easy Focus** function.

 **NOTE**

Implement this step when you need to perform fine adjustment to the focal distance.

1. Click **Easy Focus**.
The **Easy Focus** screen is displayed. See Figure 1-26.

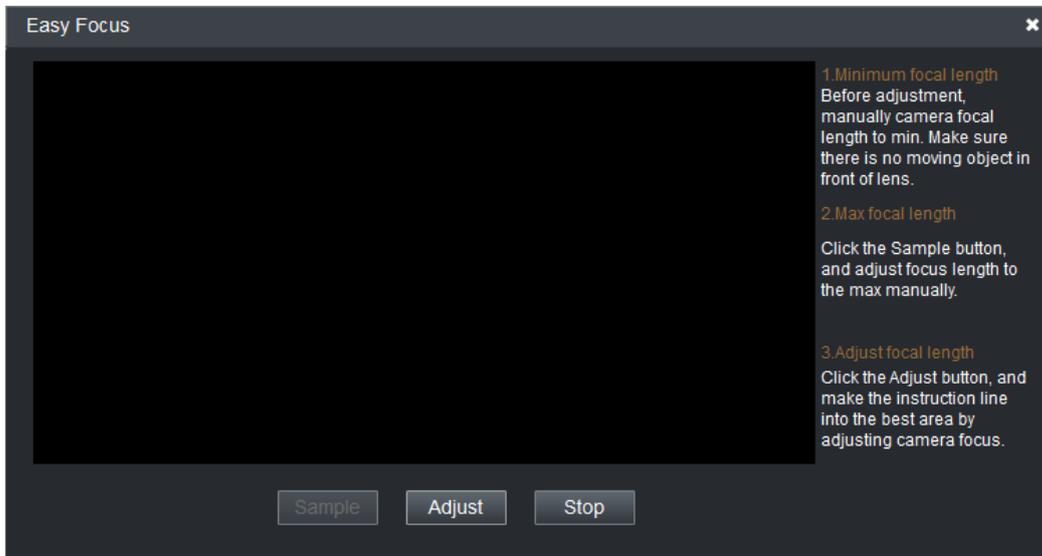


Figure 1-26

2. Manually adjust the device focal length to the minimum value, and then click **Sampling**. Meanwhile, manually adjust the device focal length to the maximum value.

The sampling started. See Figure 1-27.

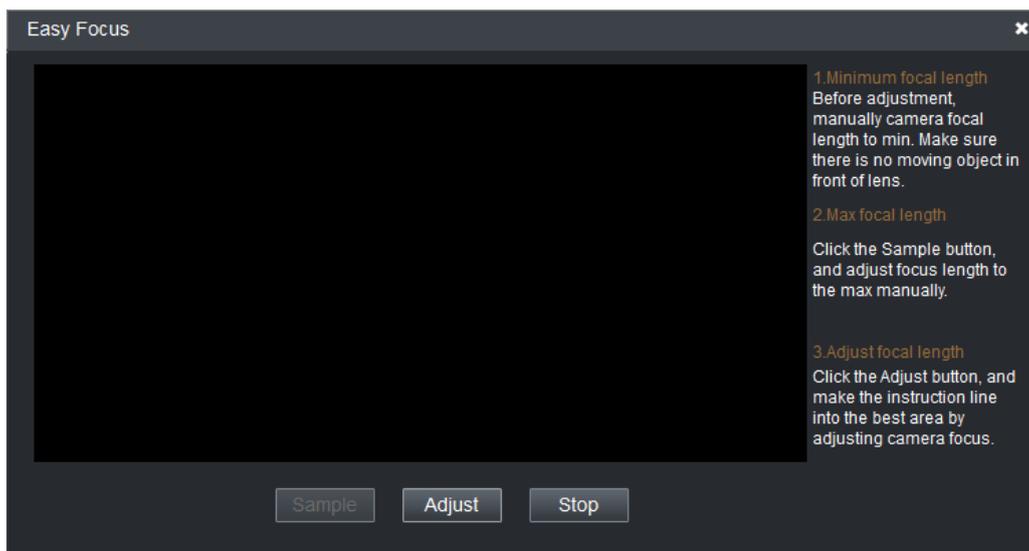


Figure 1-27

3. Click **Adjust**.

The **The Best Area** screen is displayed. Manually adjust the focus till the focal length indicating line has entered the best area. See Figure 1-28.

 NOTE

- The red line indicates the image definition value, and the green line indicates the definition value when the focal length changes from the minimum to the maximum.
- Click **Stop** to end the fine adjustment to the focal distance.

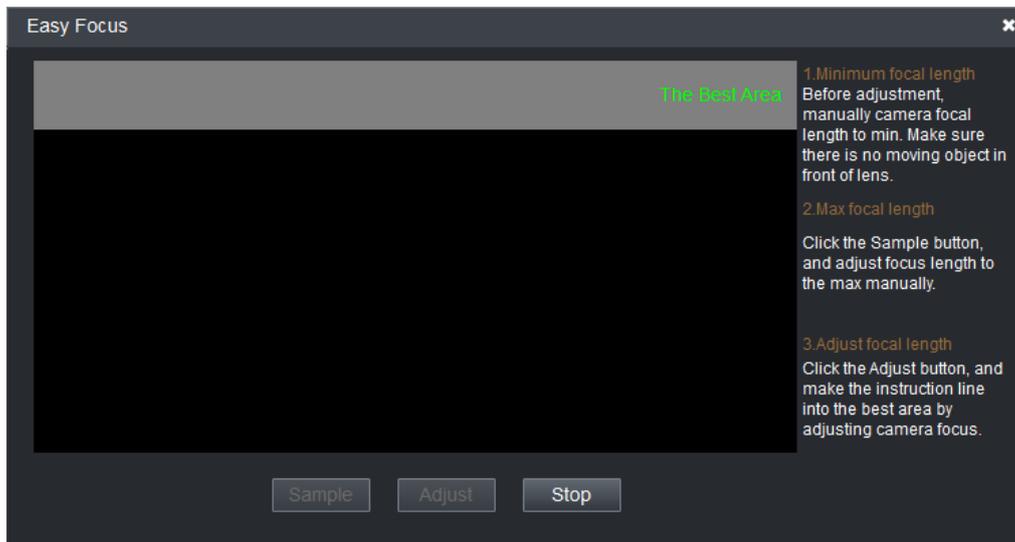


Figure 1-28

1.7.2.3 Configuring the Profile Management

You can manage the profiles through **Normal**, **Full Time**, and **Schedule**.

Step 1 Click the **Profile Management** tab.
The **Profile Management** screen is displayed.

Step 2 Set the management profile.

- Select **Normal**.

The system monitors according to the normal configuration. See Figure 1-29.

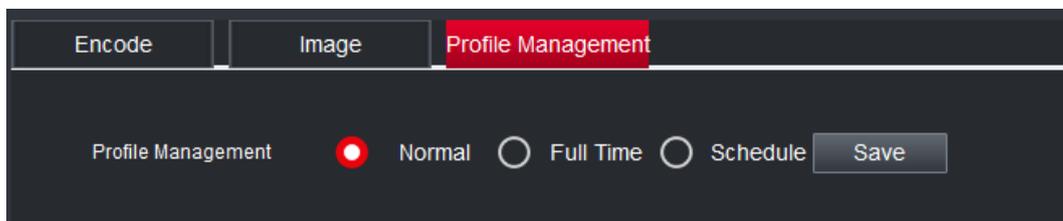


Figure 1-29

- Select **Full Time**, and then select **Day** or **Night**.

The system monitors according to the corresponding settings. See Figure 1-30.

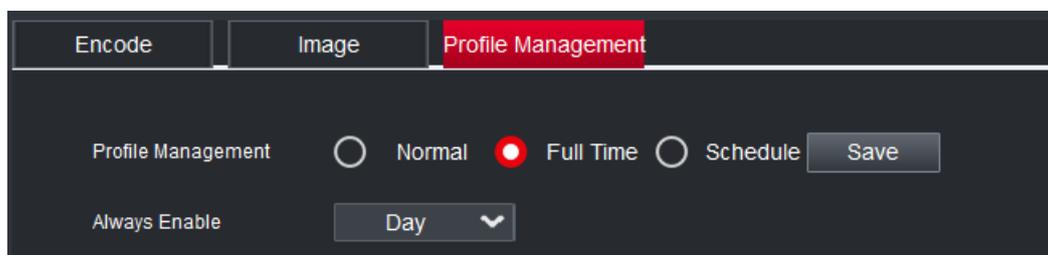


Figure 1-30

- Select **Schedule**, and then type **Day Start Time** and **Day End time**. The rest time is night. For example, if you set 8:00~17:00 as day, so 0:00~8:00 and 18:00~24:00 are night.

The system monitors according to the corresponding settings. See Figure 1-31.

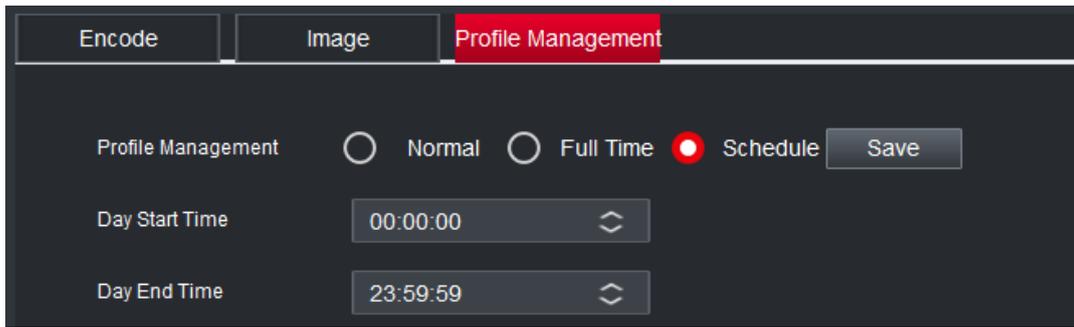


Figure 1-31

Step 3 Click **Save** to complete settings.

1.8 Configuring System Settings

You can configure the settings for system time, reboot, restore, password modification and password resetting.

1.8.1 Timing

You can calibrate the device time through configuration.

Step 1 Click .

The **Timing** screen is displayed. See Figure 1-32.

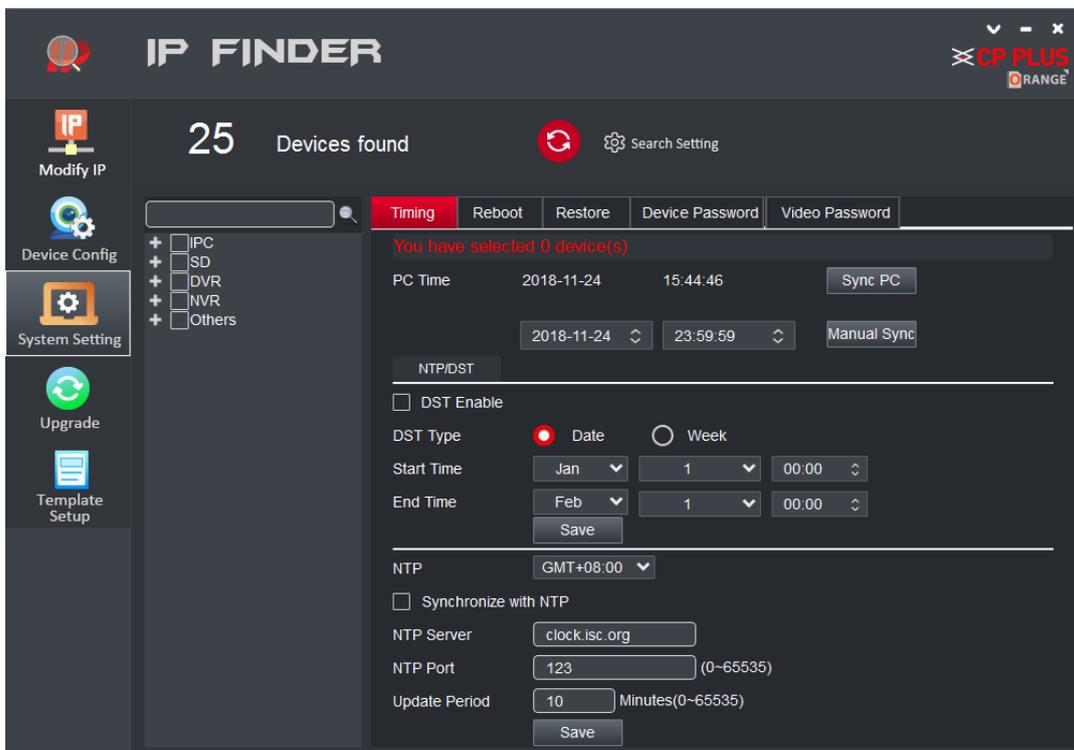


Figure 1-32

Step 2 Click  next to the device type.

The device list is displayed.

Step 3 Select one or multiple devices.



If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 4 Select the time sync way for the device.

- Manual sync: Type the time and select the time zone, and then click **Manual Sync**. The device time will sync with the setting.
- PC sync: Click **Sync PC**. The device time will sync with the PC time.
- NTP sync: Select **Synchronize with NTP** check box and set the parameters. See Table 1-7.

| Parameter | Description |
|---------------|---|
| NTP Server | Type the IP address or domain name of the corresponding NTP server. |
| NTP Port | Type the port number of corresponding NTP server. |
| Update Period | Type the time interval that device sync with the NTP. |

Table 1-7

Step 5 (Optional) Select **DST Enable** (Daylight Saving Time) check box and set the parameters. See Table 1-8.



Implement this step when you use the device in the countries or regions where the DST is carried out.

| Parameter | Description |
|------------|--|
| DST Type | Select Date or Week according to the actual situation. |
| Start Time | Set the DST start time and end time. |
| End Time | |

Table 1-8

Step 6 Click **Save** to complete settings.

1.8.2 Rebooting

You can manually or automatically reboot the device.



CAUTION

Rebooting will interrupt operations, so please reboot the device when the operation is not so frequent.

Step 1 Click .

The **Timing** screen is displayed.

Step 2 Click the **Reboot** tab.

The **Reboot** screen is displayed. See Figure 1-33.

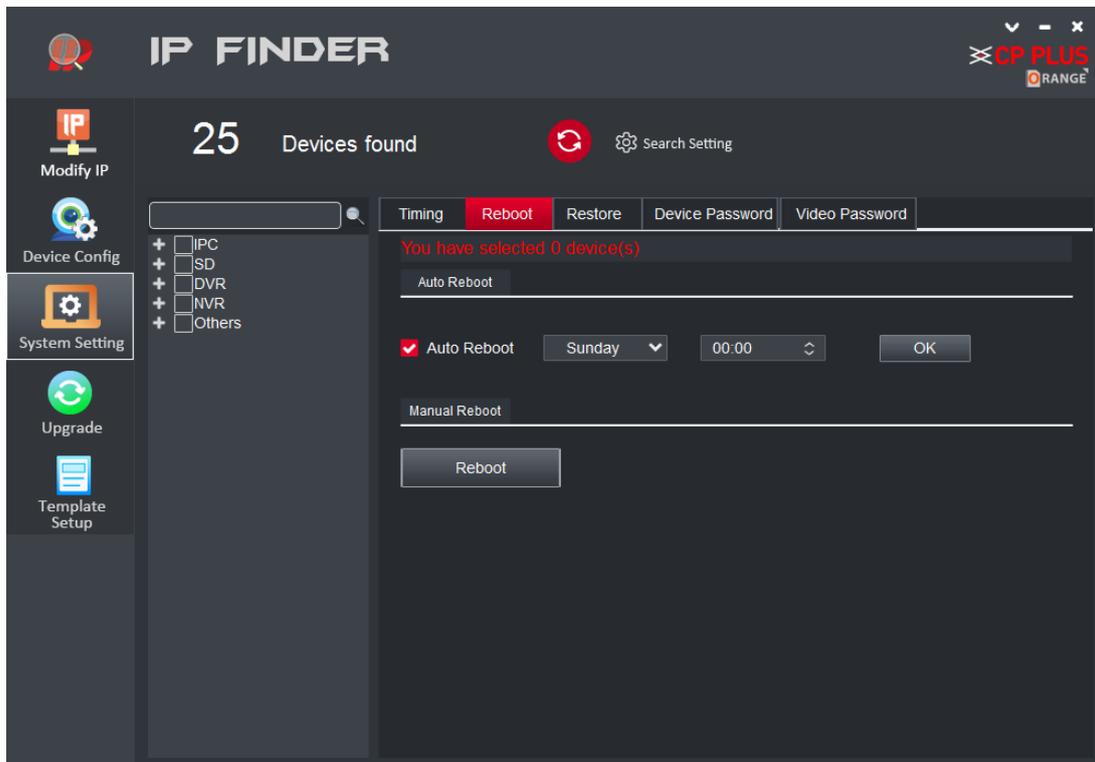


Figure 1-33

Step 3 Click  next to the device type.

The device list is displayed.

Step 4 Select one or multiple devices.

NOTE

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 5 Select the reboot type for the device according your actual situation.

- Auto reboot: Under **Auto Reboot**, select **Auto Reboot** check box and set a day of a week and the specific time, and then click **OK**.
The device will reboot at the set time.
- Manual reboot: Under **Manual Reboot**, click **Reboot**.
The device reboots immediately.

1.8.3 Restoring

You can restore the default parameters value, including normal configuration, encoding configuration, video configuration, serial port configuration, alarm setup, video detection, and Pan Tilt Zoom (PTZ) control.

Step 1 Click .

The **Timing** screen is displayed.

Step 2 Click the **Restore** tab.

The **Restore** screen is displayed. See Figure 1-34.

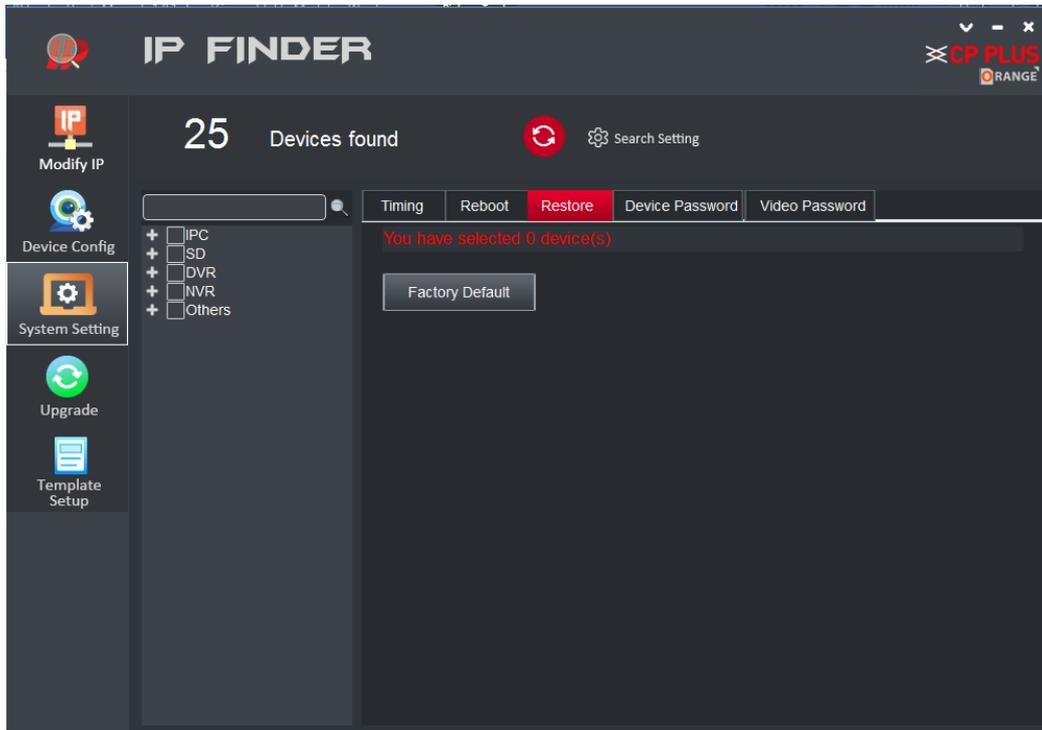


Figure 1-34

Step 3 Click  next to the device type.

The device list is displayed.

Step 4 Select one or multiple devices.

 NOTE

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 5 Click **Factory Default** to start restoring the selected devices.

The result is displayed next to the device after restoring is completed. See Figure 1-35.

Click the success icon () or click the failure icon () for the details.

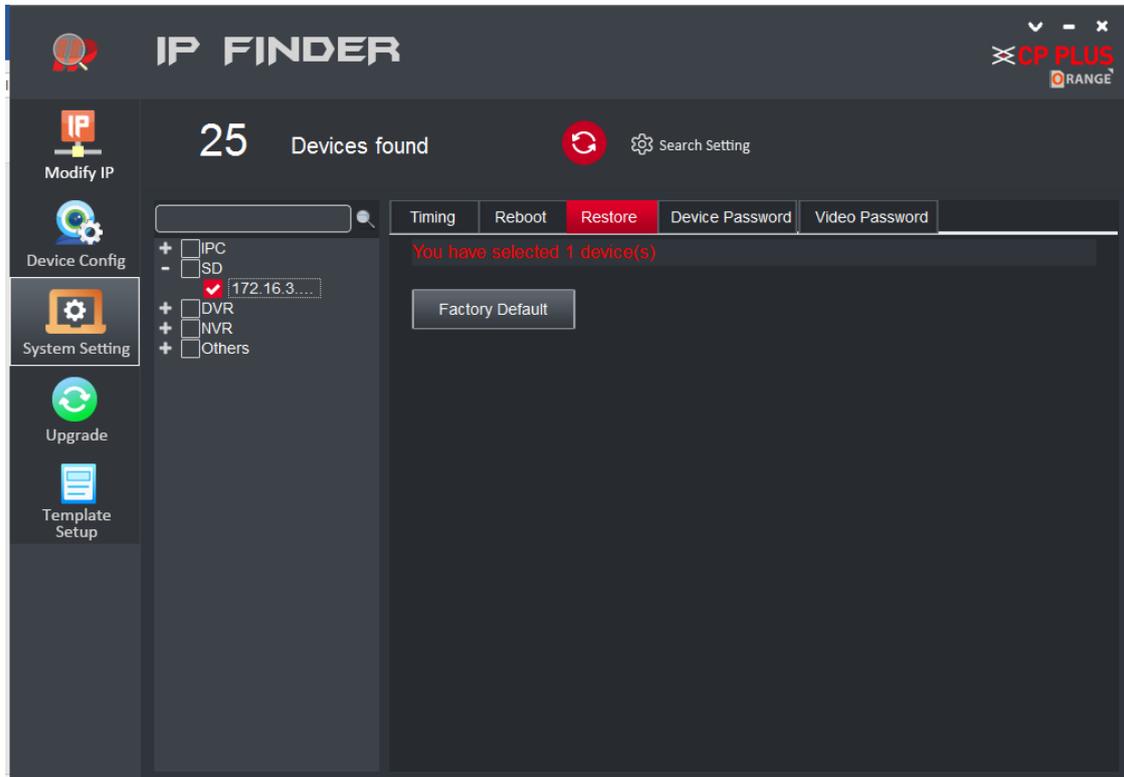


Figure 1-35

1.8.4 Modifying Password

You can modify the device login password.

Step 1 Click .

The **Timing** screen is displayed.

Step 2 Click the **Modify Password** tab.

The **Modify Password** screen is displayed. See Figure 1-36.

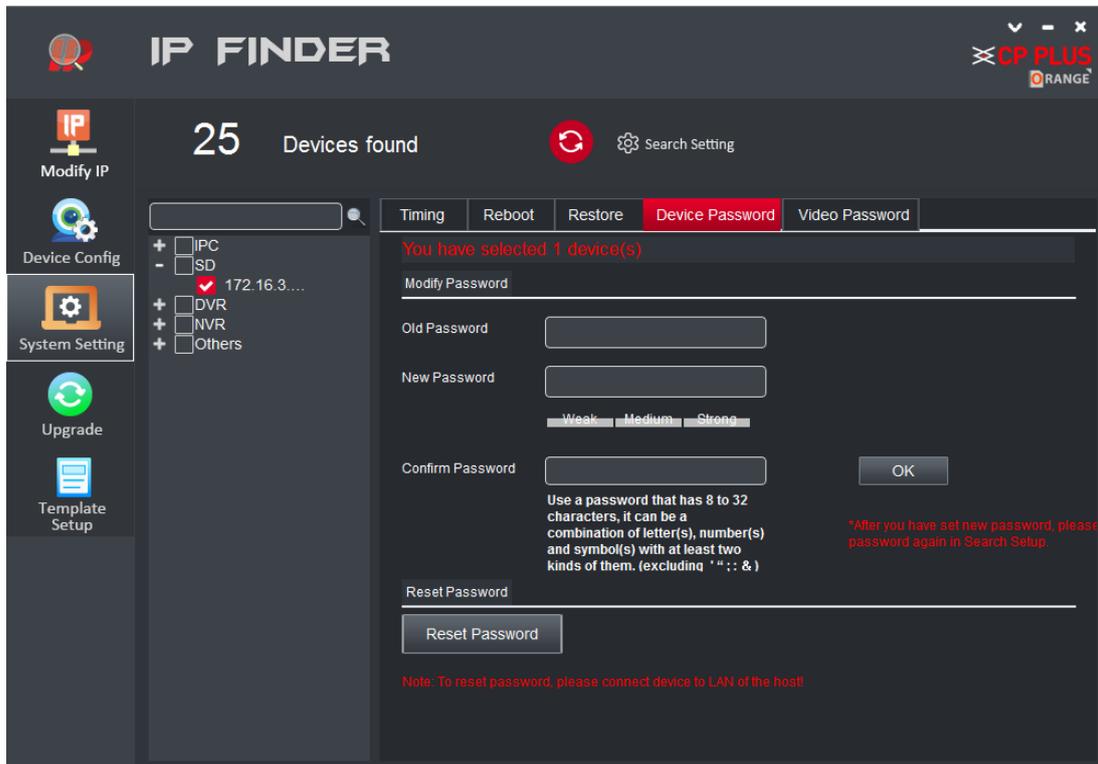


Figure 1-36

Step 3 Click  next to the device type.

The device list is displayed.

Step 4 Select one or multiple devices.

 **NOTE**

- If you select multiple devices, their login passwords must be the same.
- If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 5 Set the password parameters. See Table 1-9.

| Parameter | Description |
|------------------|--|
| Old Password | Enter the device old password. |
| New Password | Enter the new password for the device. There is an indication for the strength of the password. The new password must be set between 8 digits and 32 digits and contain at least two types from number, letter and special characters (excluding "", "", ";", ":" and "&"). |
| Confirm Password | Confirm the new password. |

Table 1-9

 **NOTE**

- After setting the new password is completed, reset the password in **Search setting** interface.
- If the new password is the same with the old password, a **Notice** dialog box is displayed after clicking **OK**. Then you need to click **OK** to go back and reset the new password.

Step 6 Click **OK** to complete modification.

1.8.5 Resetting Password

You can reset the password through the quick response code (QR code) or XML file.

NOTE

- NVR and DVR devices do not support this function.
- The password resetting operation can only be performed to the devices within the local area network.
- If you did not type the reserve information for password reset during device initializing, you can reset the password only through XML file.

1.8.5.1 Using the QR Code

You can reset the password by scanning the QR code. This procedure is only applicable to a single device situation.

Step 1 Click .

The **Timing** screen is displayed.

Step 2 Click the **Reset Password** tab.

The **Reset Password** screen is displayed. See Figure 1-37.

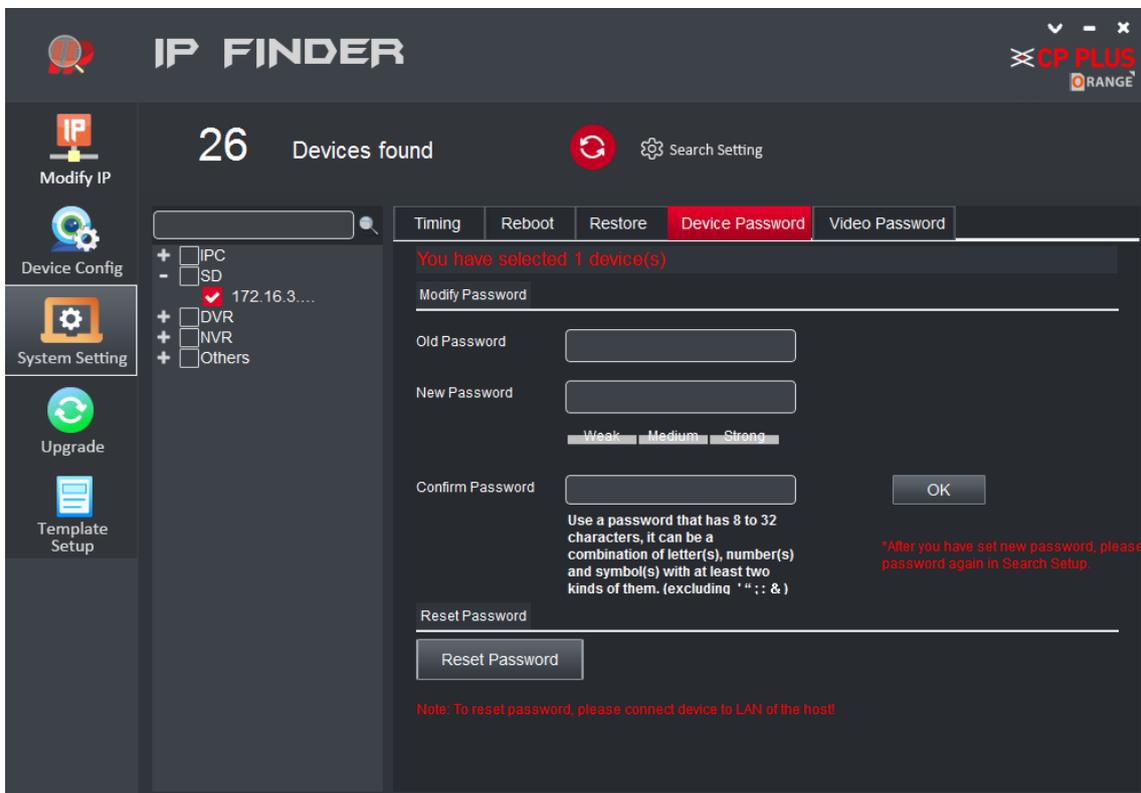


Figure 1-37

Step 3 Click  next to the device type.

The device list is displayed.

Step 4 Select the device that needs to reset the password.

 **NOTE**

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 5 Click **Reset Password**.

If the device does not support this function, a message is displayed to provide such indication. If the device supports this function, a **Notice** box will be displayed. See Figure 1-39. Click **Agree**, the **Reset Password** screen is displayed. See Figure 1-39.

 **NOTE**

The user interface might be different dependent on the model you purchased. If there is inconsistency between the Manual and the actual product, the actual product shall govern.

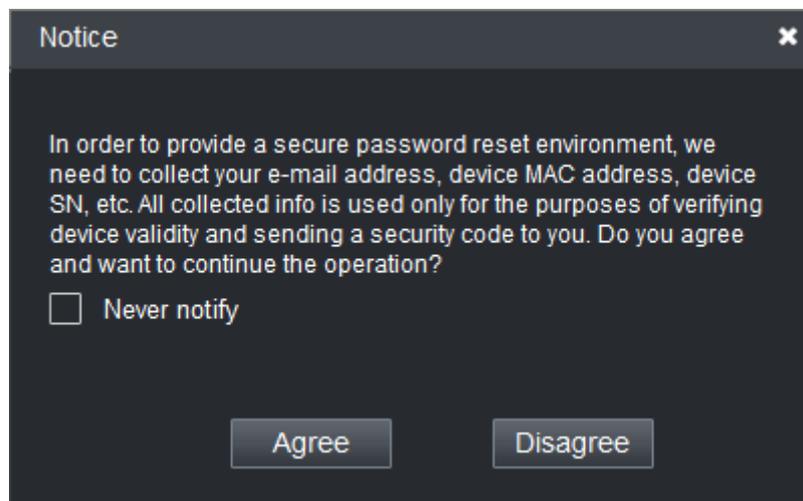


Figure 1-38

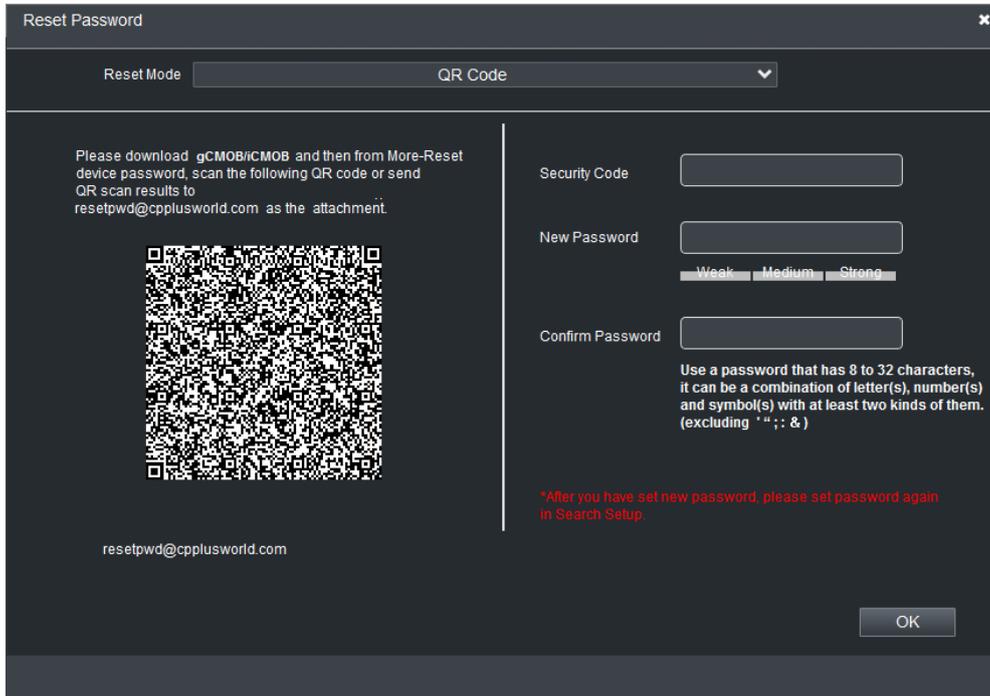


Figure 1-39

Step 6 Under **Reset Mode**, select **QR code**.

Step 7 Perform operations according to the instructions on the interface to obtain the security code.

Step 8 Enter old password, new password, and confirm password.

 **NOTE**

The new password must be set between 8 digits and 32 digits and contain at least two types from number, letter and special characters (excluding " ", " ", ";", ":" and "&").

Step 9 Click **OK** to start resetting the password.

The result is displayed next to the device after restoring is completed. See Figure 1-40 or Figure 1-41. Click the success icon (✅) or click the failure icon (⚠️) for the details.

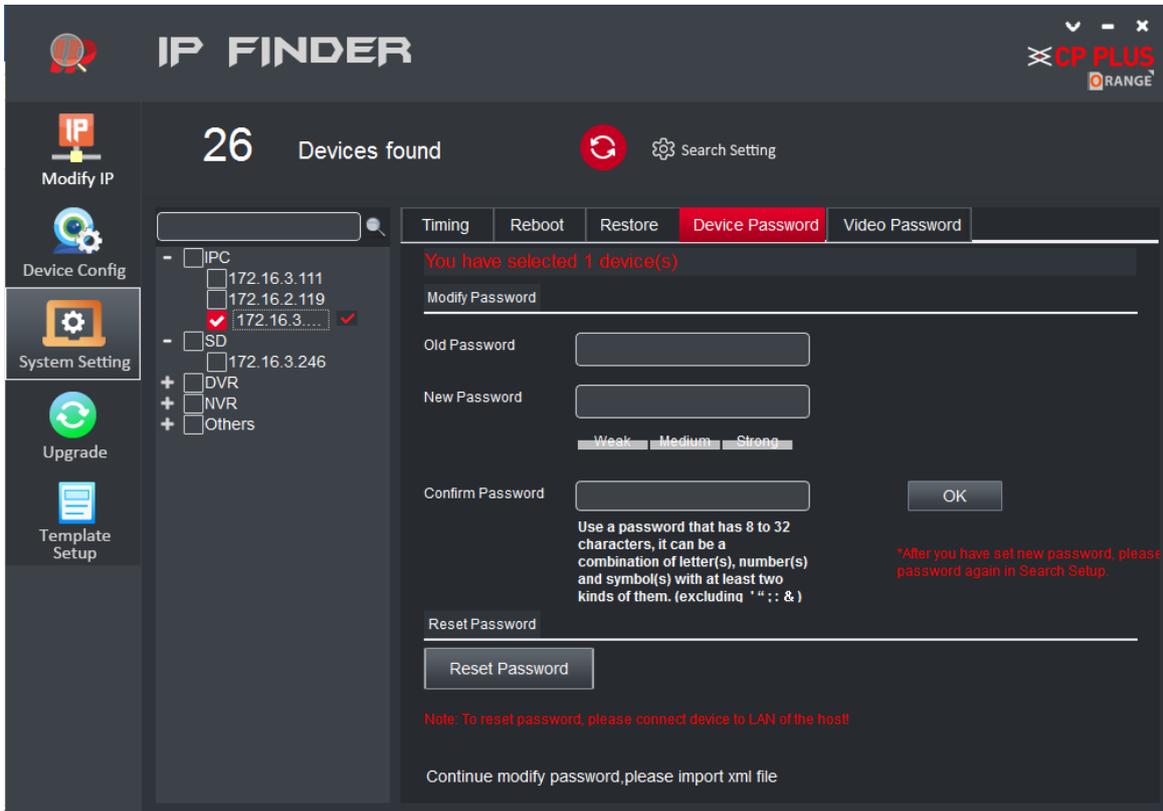


Figure 1-40

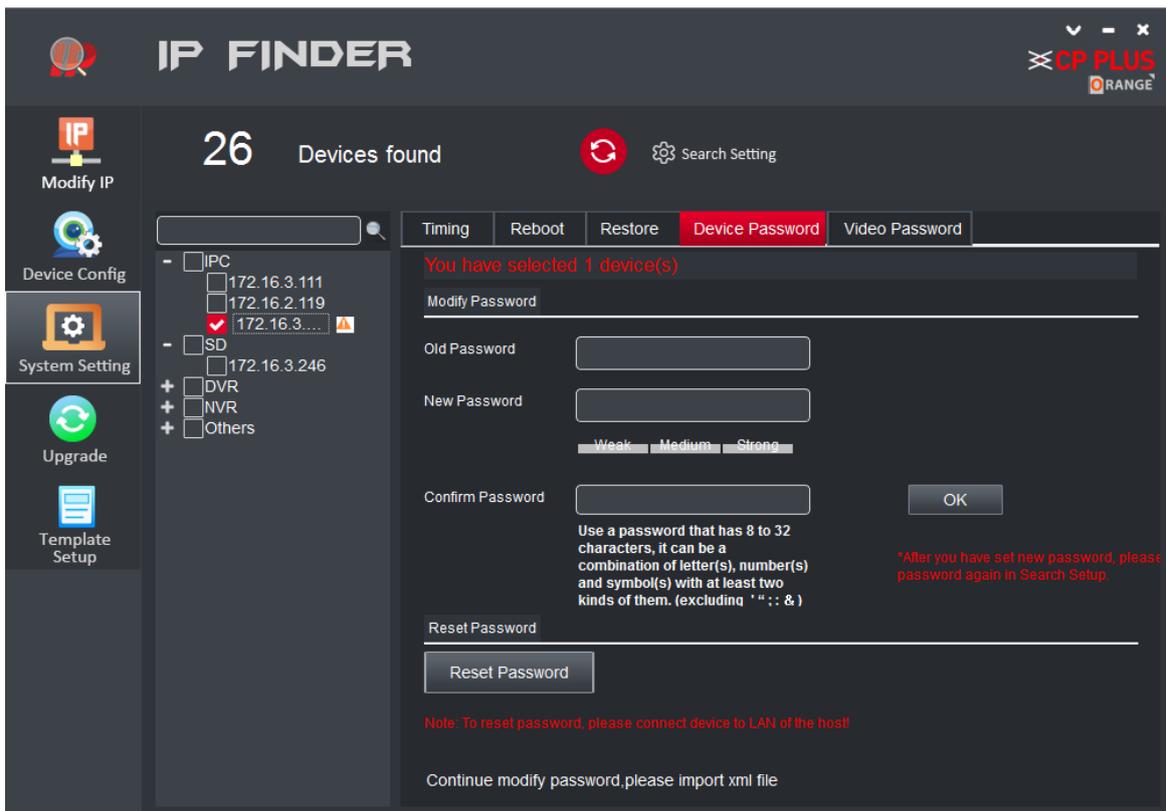


Figure 1-41

1.8.5.2 Using the XML File

You can reset the password by XML file for one device or multiple devices.

Step 1 Click .

The **Timing** screen is displayed.

Step 2 Click the **Reset Password** tab.

The **Reset Password** screen is displayed. See Figure 1-42.

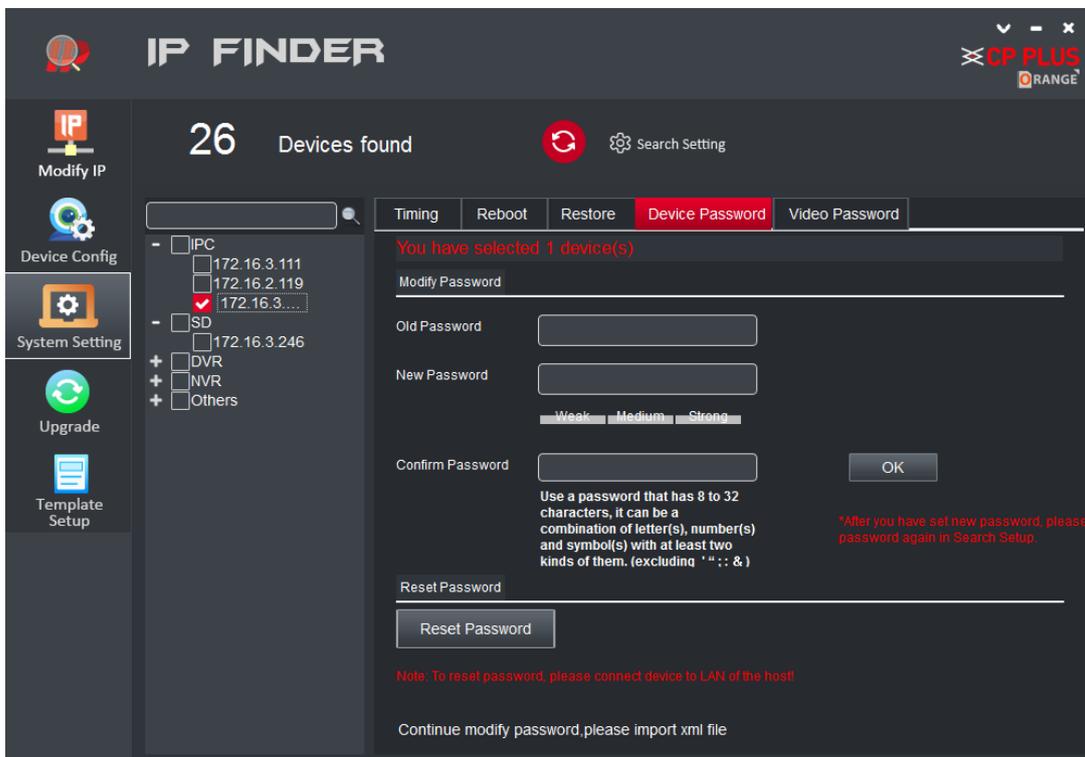


Figure 1-42

Step 3 Click  next to the device type.

The device list is displayed.

Step 4 Select one device or multiple devices.

 **NOTE**

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 5 Click **Reset Password**.

If the device does not support this function, a message is displayed to provide such indication. If the device supports this function, a **Notice** box will be displayed. See Figure 1-43. Click **Agree**, the **Reset Password** screen is displayed. See Figure 1-44.

 **NOTE**

The user interface might be different dependent on the model you purchased. If there is inconsistency between the Manual and the actual product, the actual product shall govern.

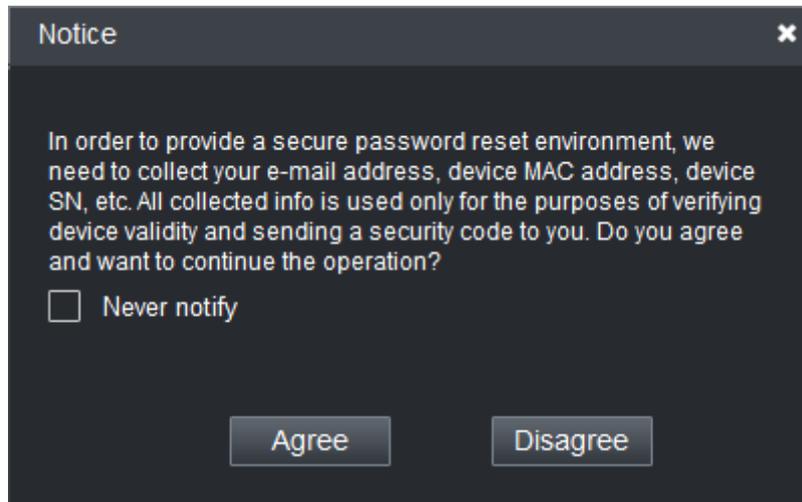


Figure 1-43

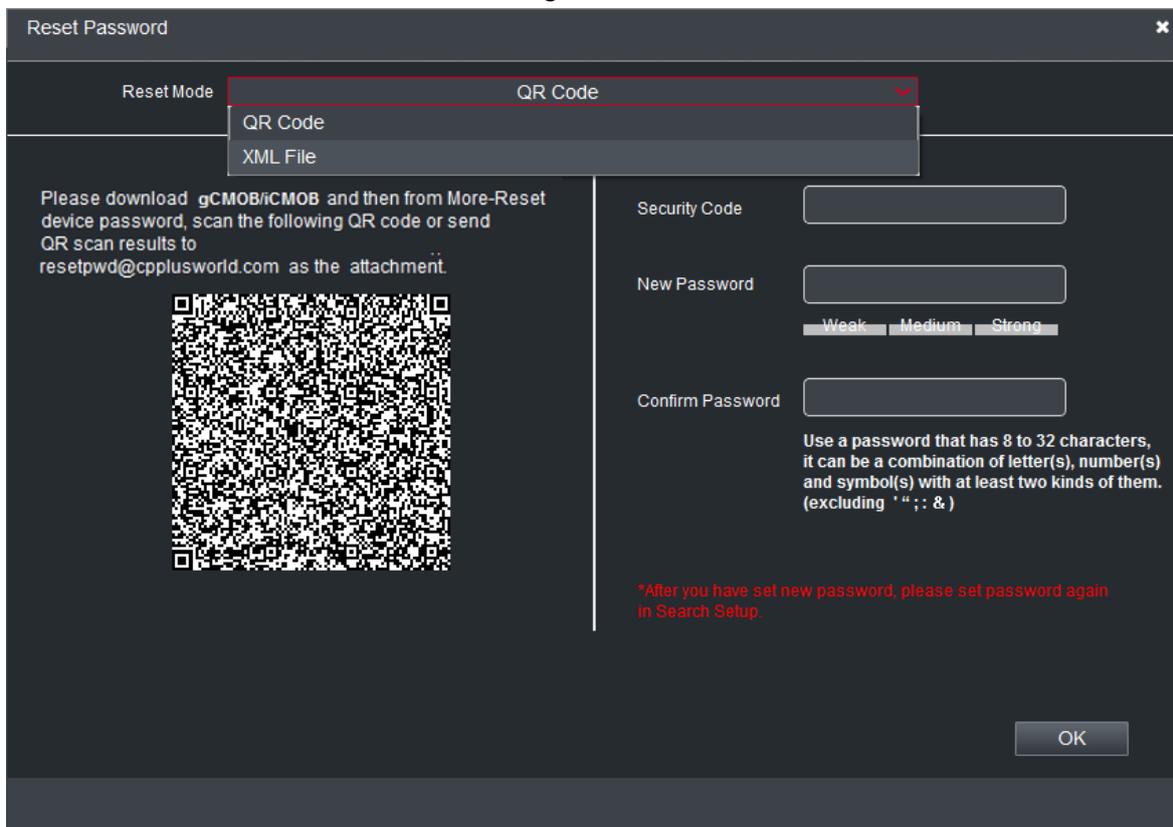


Figure 1-44

Step 6 Under **Reset Mode**, select **XML File**.

The **Reset Password-Export XML** screen is displayed. See Figure 1-45.

 **NOTE**

- The user interface might be different dependent on the model you purchased. If there is inconsistency between the Manual and the actual product, the actual product shall govern.
- If you reset the passwords for multiple devices, the operation will be performed through the XML file interface supported by the first device in the list.

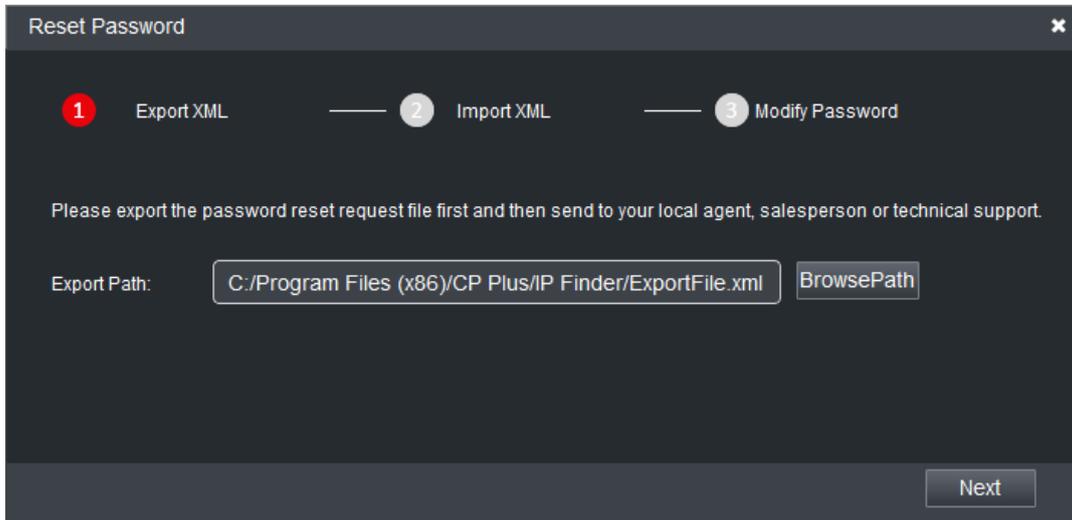


Figure 1-45

Step 7 Export XML.

1. Click **Browse** to select the save path for the exported XML file.
2. Click **Next** to start exporting.
After the exporting is completed, a **Notice** dialog box will be displayed.
3. Click **OK** to complete exporting.
After completing exporting the XML, the import XML screen is displayed.
Find the **ExportFile.xml** under the save path and send it as an attachment to the local technical support team. Then you will receive a **result.xml** file from the team.

Step 8 Import XML.



NOTE

If the **Reset Password-Import XML** screen is closed, click **System Settings > Reset Password**. On the **Reset Password** tab, click **Note: To reset password, please connect device to LAN of the host!** to continue the operation.

1. Click **Open** to import the **result.xml** file from the save path. See Figure 1-46.

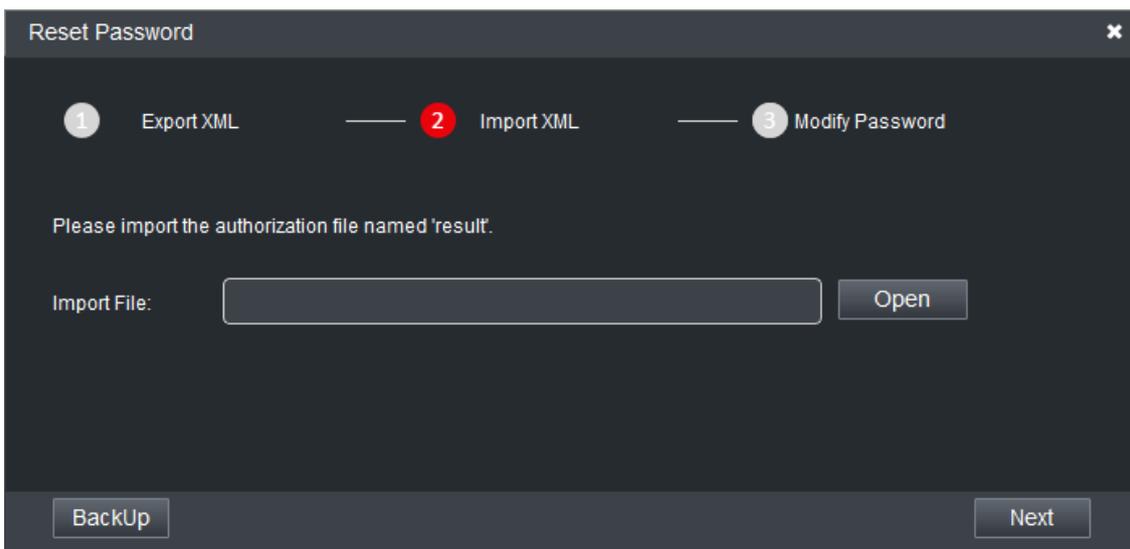


Figure 1-46

2. Click **Next** to start importing.

After completing exporting the XML, the **Reset Password-Modify Password** screen is displayed. See Figure 1-47.

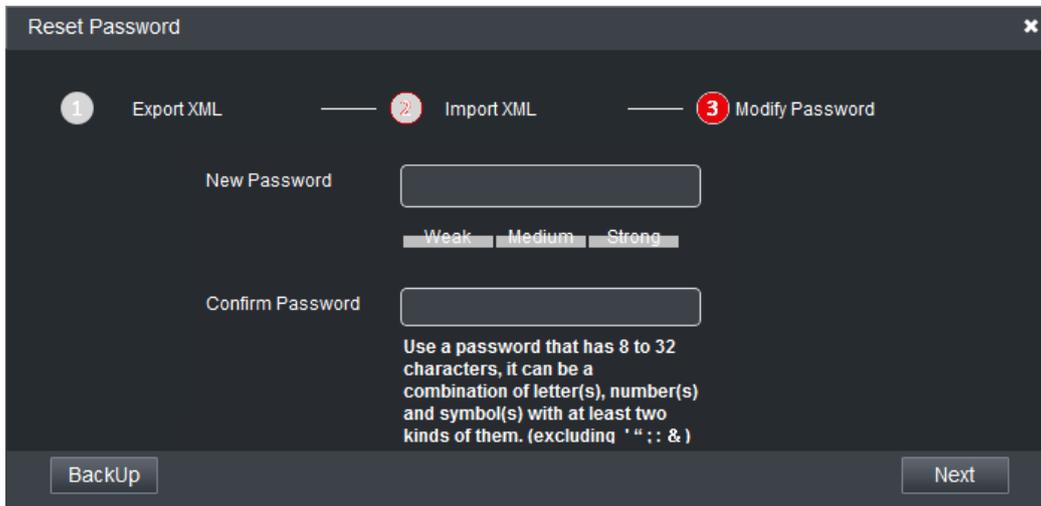


Figure 1-47

Step 9 Modify Password.

1. Enter the new password and confirm password.



The new password must be set between 8 digits and 32 digits and contain at least two types from number, letter and special characters (excluding "", "", "", ".", ":" and "&").

2. Click **Finish** to starting resetting the password.

The result is displayed next to the device after operation is completed. See Figure 1-48.

Click the success icon (✓) or click the failure icon (⚠) for the details.

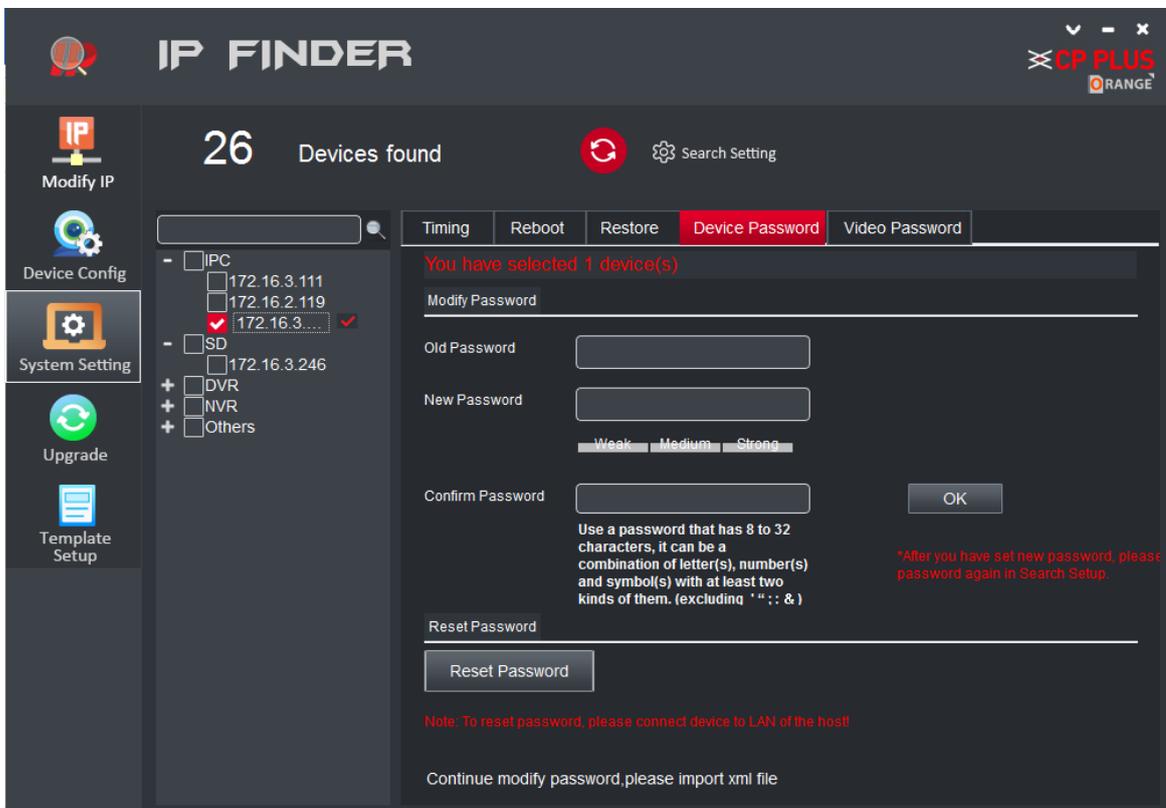


Figure 1-48

1.8.6 Getting Back Video Password

You can get back password for video files.

Step 1 Click .

The **Timing** screen is displayed.

Step 2 Click the **Get Back Password** tab.

The **Get Back Password** screen is displayed. See Figure 1-49.

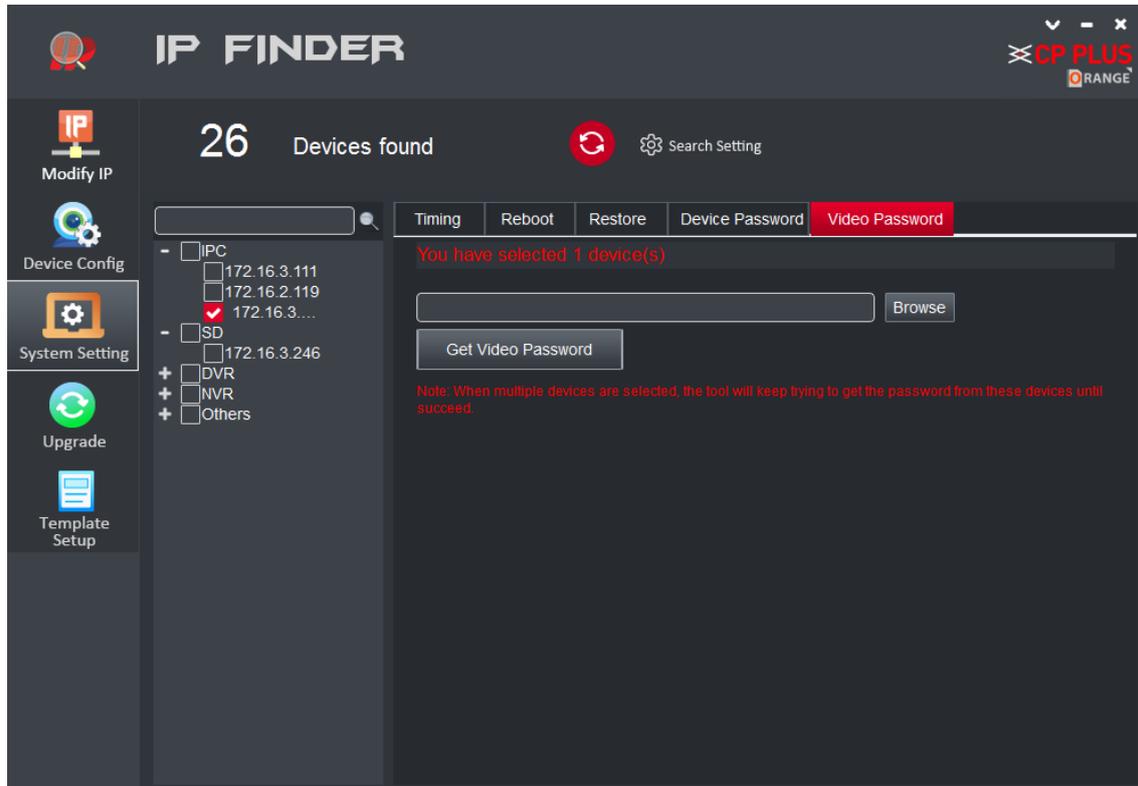


Figure 1-49

Step 3 Click  next to the device type.

The device list is displayed.

 **NOTE**

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 4 Select one or multiple devices.

Step 5 Click **Browse** to select a video file.

Step 6 Click **Get Back Video Password**.

The **Get Back Video Password** screen is displayed. See Figure 1-50.

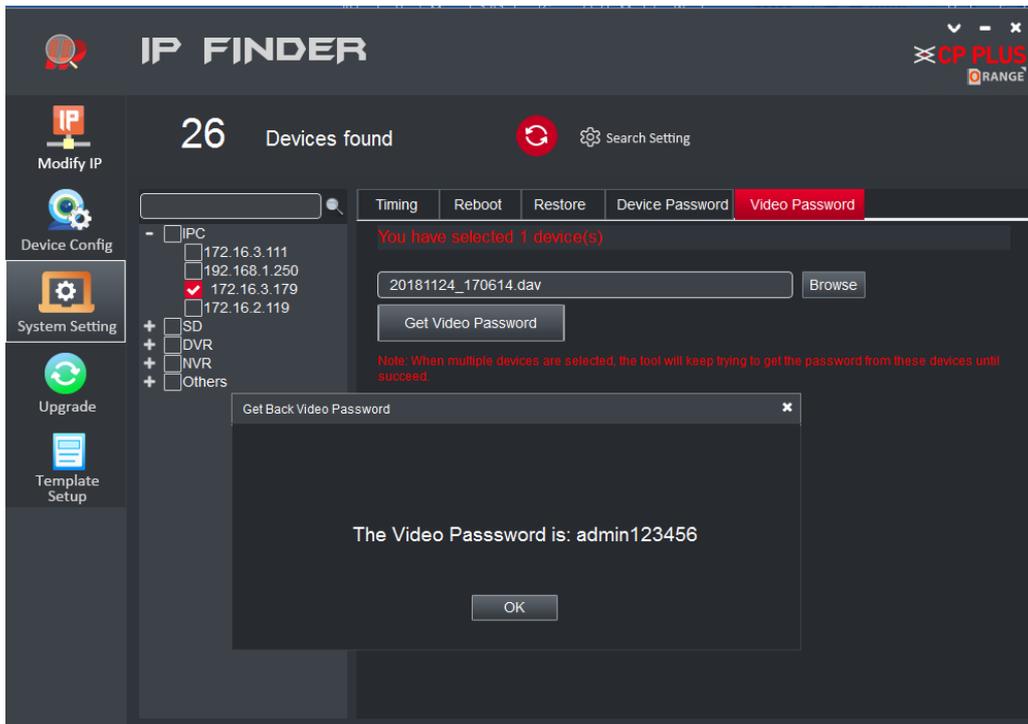


Figure 1-50

Step 7 Click **OK**.

The result is displayed next to the device after getting back video password is completed. See Figure 1-51. Click the success icon (✓) or click the failure icon (⚠) for the details.

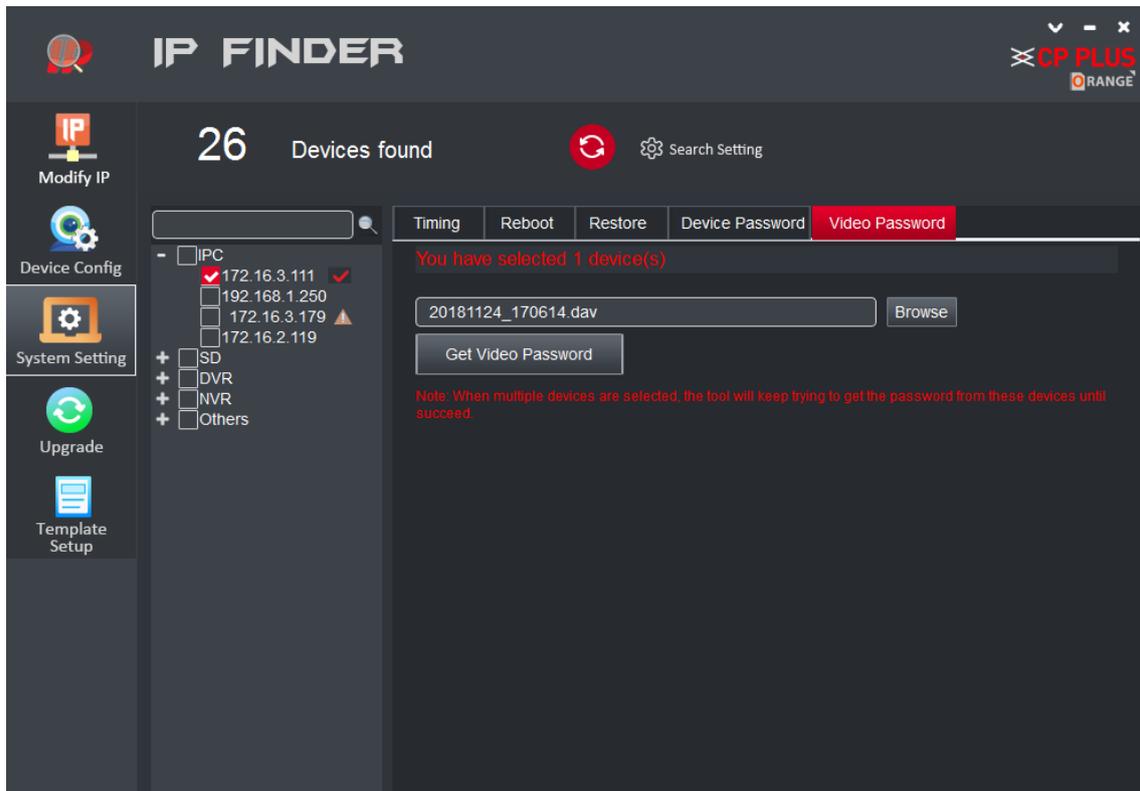


Figure 1-51

1.9 Local Upgrade

You can upgrade one or multiple devices on the PC where the Tool is located.

NOTE

If the device is disconnected during upgrading, the Tool will prompt the disconnection and the device might reboot.

- If the upgrade progress does not exceed 50%, the upgrade package is not completed. Please research and upgrade again after reconnecting the device.
- If the upgrade progress exceeds 50%, the upgrade package is completed and the device will be upgraded successfully. The upgraded device will display after researching once the device is reconnected.

1.9.1 Upgrading One Device

You can choose this procedure for upgrading one device.

Step 1 Click .

The **Upgrade** screen is displayed. See Figure 1-52.

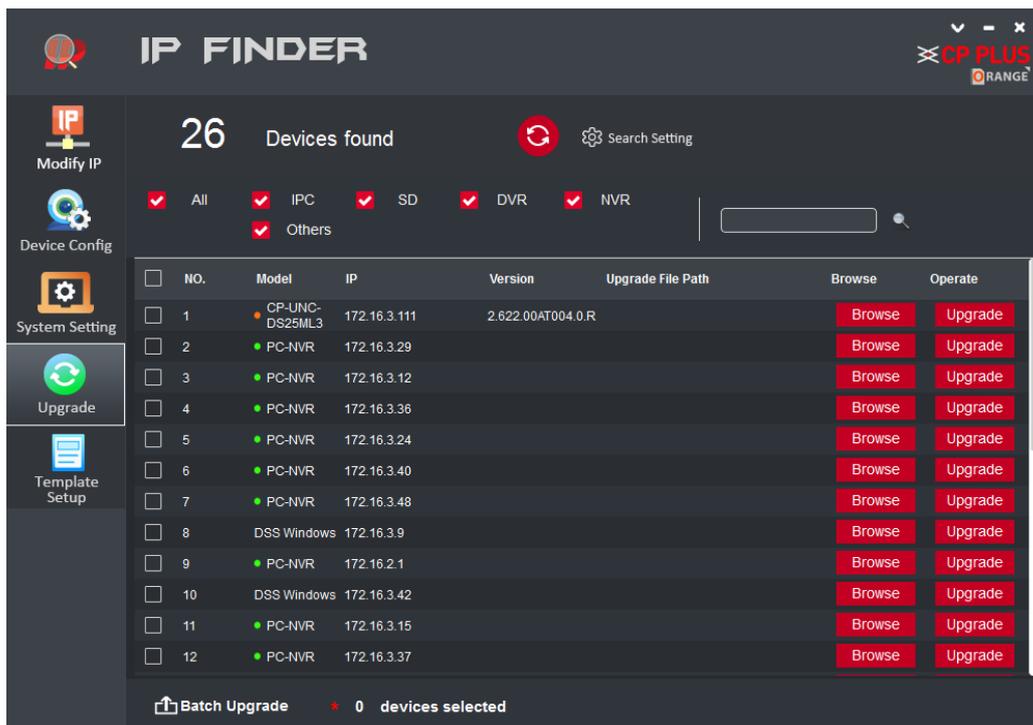


Figure 1-52

Step 2 Click **Browse** next to the device that you want to upgrade, and then select the specific file that needs to be upgraded and click **Open**.

NOTE

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

Step 3 Click **Upgrade** to start upgrading.

After upgrading is completed, a **Notice** dialog box will be displayed indicating the device will be rebooted. Then the device reboots automatically.

1.9.2 Upgrading Devices in Batches

You can upgrade multiple devices to the same software version.

Step 1 Click .

The **Upgrade** screen is displayed.

Step 2 Select the devices that need to be upgraded.

NOTE

- If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."
- Make sure the selected devices are subject to be upgraded to the same software version.

Step 3 Click .

The **Batch Upgrade** dialog box is displayed. See Figure 1-53.

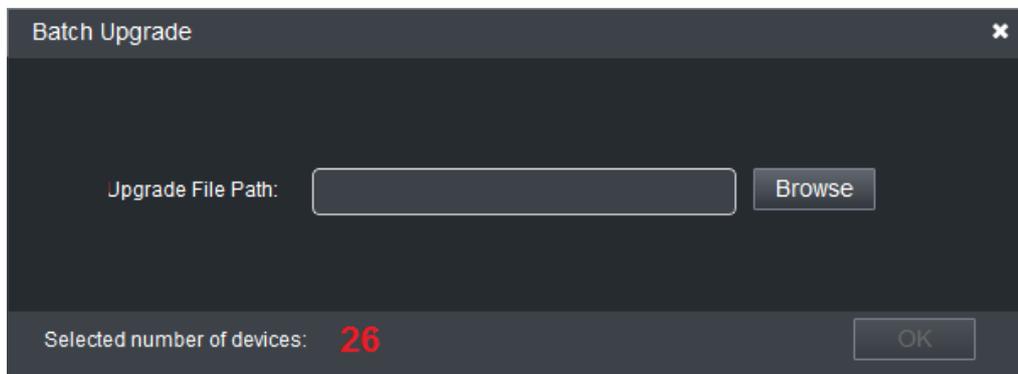


Figure 1-53

Step 4 Click **Browse** to select the files that need to be upgraded.

Step 5 Click **OK** to start upgrading.

- Upgrade one device: Click **Upgrade** next to the device that you want to upgrade.
- Upgrade devices in batches: Select the devices with the **Upgrade** button, and click **Batch Upgrade**.

NOTE

After clicking **Batch Upgrade**, the button changes to **Stop Upgrading**. Click **Stop Upgrading** to stop upgrading for all devices.

The upgrade result is displayed after the upgrading is completed. See Figure 1-54.

Click the success icon (✓) or click the failure icon (⚠) for the details.

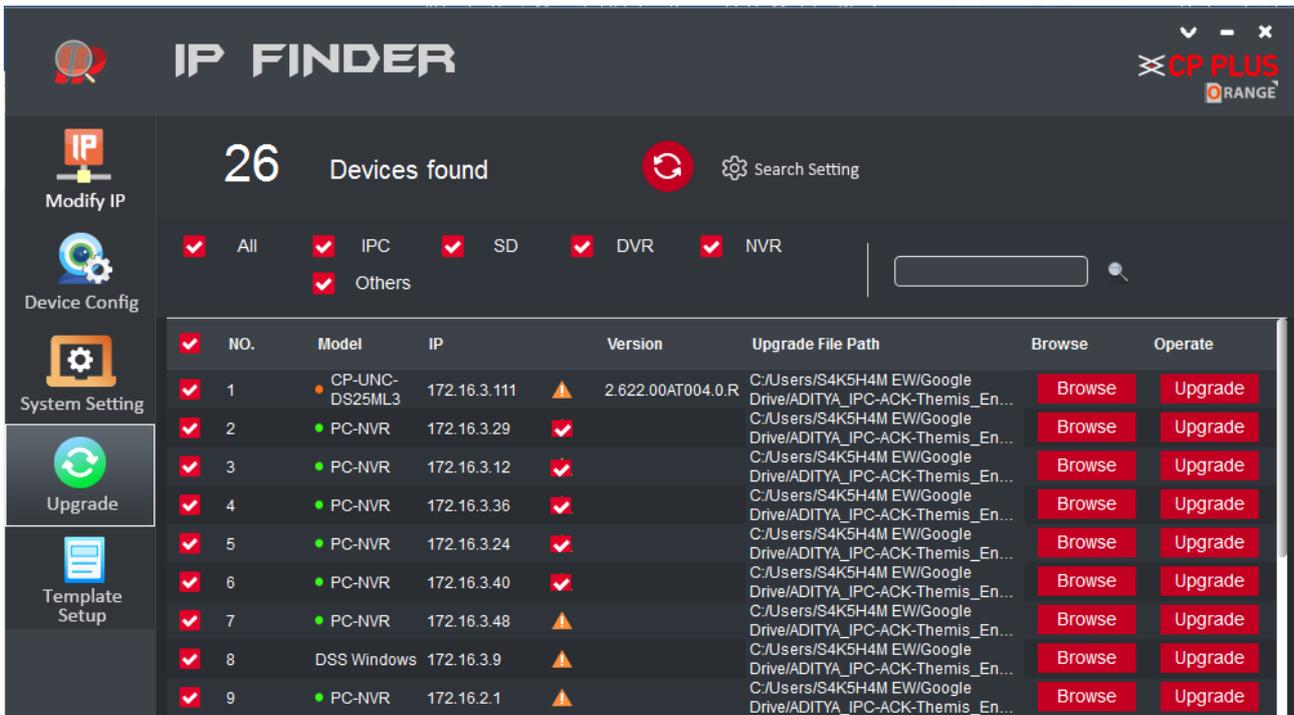


Figure 1-54

1.10 Configuring the Template

You can create and apply the templates.

- Creating the template: Back up or save the video and encoding parameters for the device.
- Applying the template: Restore or batch configuring the video and encoding parameters for the device.

1.10.1 Creating a Template

You can create a template through manual configuration or exporting a device template.

1.10.1.1 Manual Configuration

You can customize the template according to your actual situation.

Step 1 Click .

The **Template Setup** screen is displayed. See Figure 1-55.

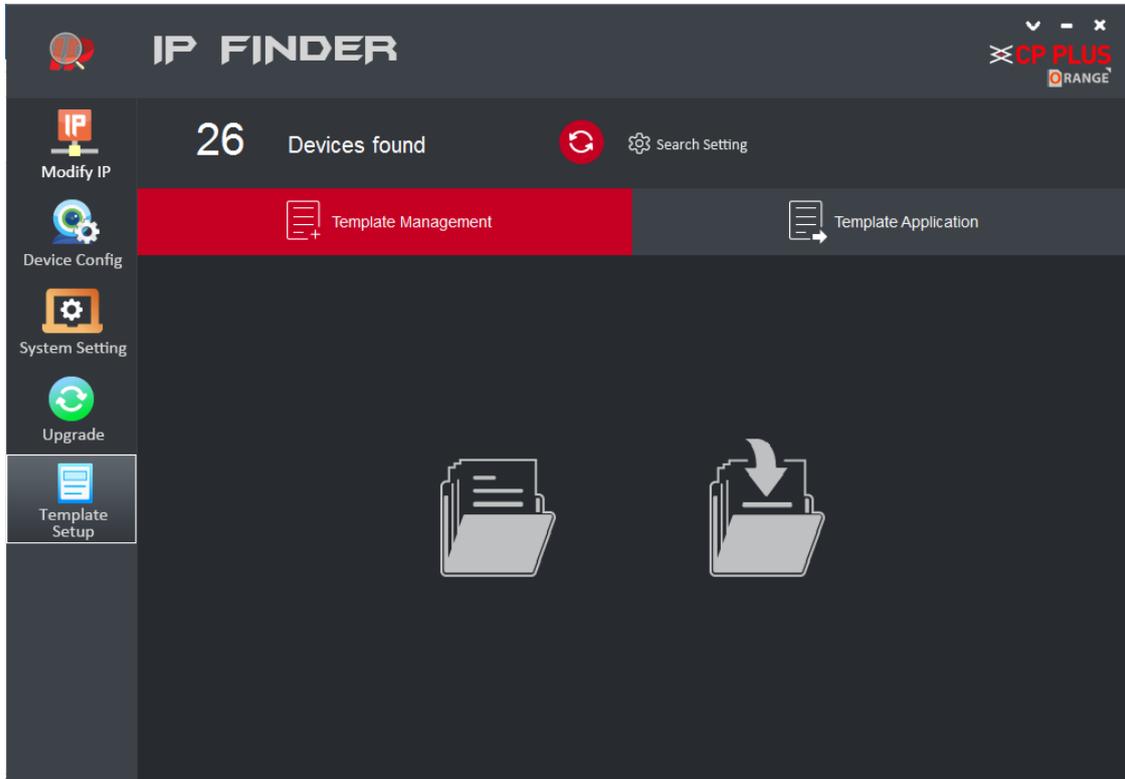


Figure 1-55

Step 2 Manually configure the template.

1. Click .

The **Notice** dialog box is displayed. Click **Cancel**.

The **Template Management** screen is displayed. See Figure 1-56.

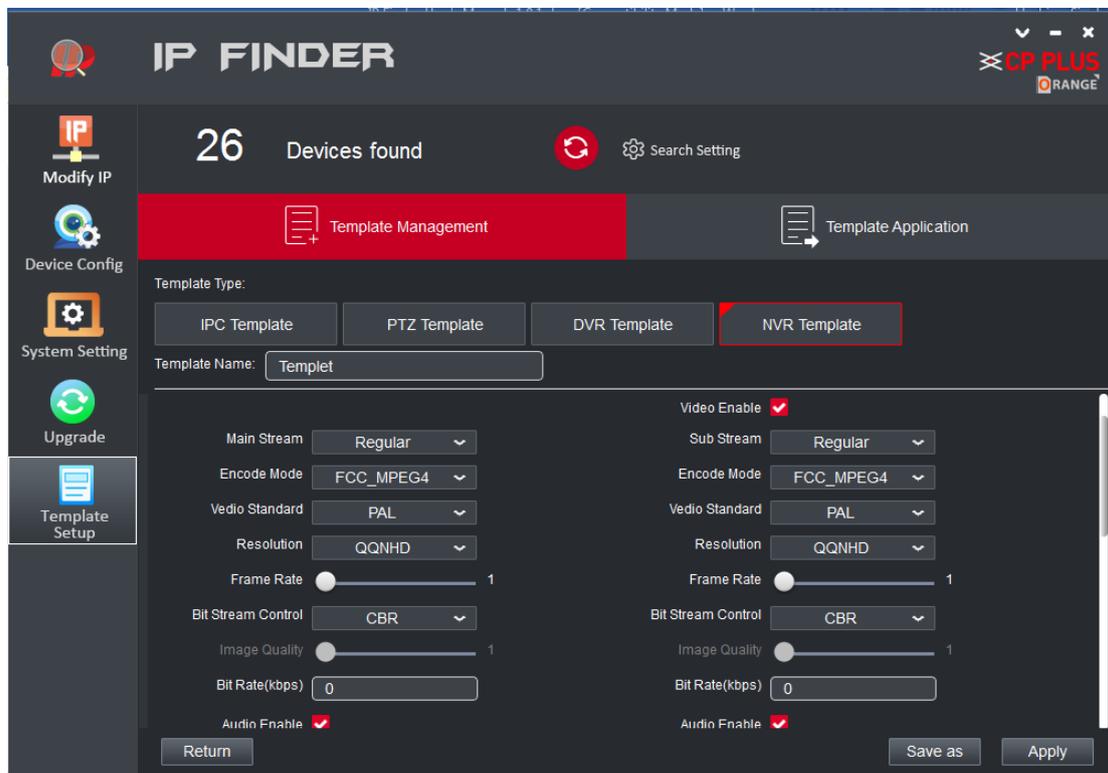


Figure 1-56

- On the **Template Management** tab, select the template type, enter the template name, and then set the parameters accordingly. See Table 1-10.



After the template configuration is completed, click **Apply** to apply the template to the device. For the details about how to apply the template, see "1.10.2 Applying the Template."

| Parameter | Description |
|-------------------------|---|
| Video Enable | Select the Video Enable check box to enable sub stream. Then the device monitors under the sub stream. This function is enabled by default. |
| Main Stream, Sub Stream | Indicates the stream type that includes Regular, Motion, and Alarm . |
| Encode Mode | Includes the following video encoding modes: <ul style="list-style-type: none"> ● H.263: Low profile encoding. ● H.264: Main profile encoding ● H.264B: Baseline profile encoding ● H.264H: High profile encoding ● H.265: Main Profile encoding ● MJPG: Short for MJPG. Under this mode, the video image requires higher bit rate to ensure video quality. It is recommended to use the maximum bit rate value to get the best results. ● FCC_MPEG4: MPEG4 profile encoding certified by FCC. ● MS_MPEG4: MPEG4 profile encoding developed by MS. ● MPEG1, MPEG2, MPEG4: Profile encoding that complies with MPEG standard. |
| Video Standard | Select the video standard for the device: <ul style="list-style-type: none"> ● PAL (Phase Alteration Line) ● NTSC (National Television System Committee) |
| Resolution | Indicates the video resolution. The maximum video resolution might be different dependent on your device model. |
| Frame Rate | Indicates the total frames per second. The higher the frame rate, the more clear and smooth the image will become. |
| Bit Stream Control | Includes the following two types of bit rate: <ul style="list-style-type: none"> ● Constant Bit Rate (CBR): The bit rate is fluctuating around the set value without big changes. ● Variable Bit Rate (VBR): The bit rate is changing along with the monitoring environment. NOTE When the compression is set as MJPEG , the bit rate can only be CBR. |
| Bit Rate (kbps) | Select the suitable value according to the actual situation. You can configure this parameter when the bit rate type is set as CBR. |
| Audio Enable | The audio function can be enabled only when the video function has been enabled. Select the Audio Enable check box, the bit rate changes to the audio and |

| Parameter | Description |
|----------------|--|
| | video combined bit rate; otherwise the bit rate only includes video image. |
| Audio Encode | Indicates audio encoding mode such as G.711A, G.711Mu, G.726, and AAC. The setting of audio encoding mode will simultaneously apply to both audio and voice intercom. |
| Color Mode | Select the image color mode from Standard, Bright, and Soft for the device. |
| Brightness | Adjust the image brightness. The bigger the value, the brighter the image is. |
| Contrast | Adjust the image contrast. The bigger the value is, the contrast between the light area and dark area is more obvious. |
| Gamma | Adjust the image brightness in a non-linear way to improve the dynamic display range. The bigger the value, the brighter the image will become. |
| Saturation | Adjust the color shades. The bigger the value, the lighter the color is. This value does not influence the general image lightness. |
| BLC Mode | <ul style="list-style-type: none"> ● OFF: Turn off the backlight compensation mode. ● BLC: Backlight compensation. In the backlighting environment, the compensation function can avoid silhouette of the dark part when taking a picture. ● WDR: Wide Dynamic Range. In the strong illumination contrast, this function can suppress the area with excessive brightness and compensate the area with excessive darkness so as to make the image clearer in general. ● HLC: Highlight Compensation. This function can weaken the strong light to reach the brightness balance. |
| Day/Night Mode | Includes the following three options: <ul style="list-style-type: none"> ● Color: Select this option to set the color image. ● Auto: Select this option to automatically set the image to be one of the other two options according to the environment. ● BW: Black and white. Select this option to set image to be black and white. |

Table 1-10

Step 3 Save the template.

1. Click **Save as**.

The **Save as** dialog box is displayed. See Figure 1-57.

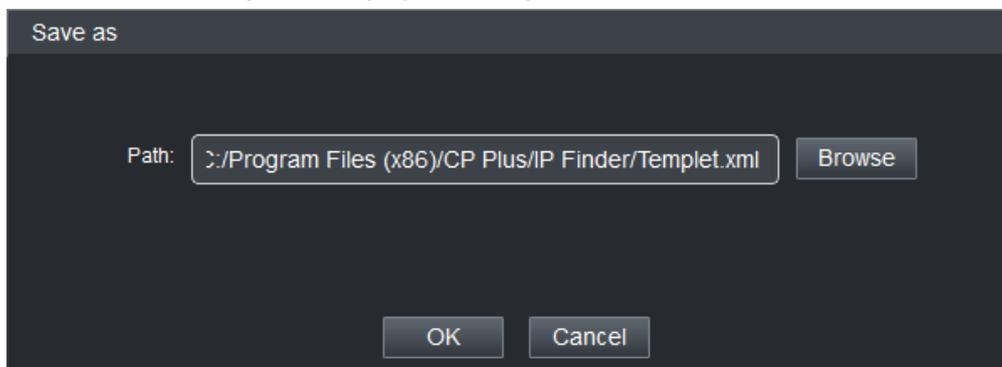


Figure 1-57

2. Click **Browse** to select the save path for the template.
3. Click **OK** to save the template.

1.10.1.2 Exporting the Device Template

You can export the template of the existing device and save it for further use.

Step 1 Click .

The **Template Setup** screen is displayed.

Step 2 Export the template.

1. Click .

The **Notice** dialog box is displayed. Click **OK**.

The **Export** screen is displayed. See Figure 1-58.

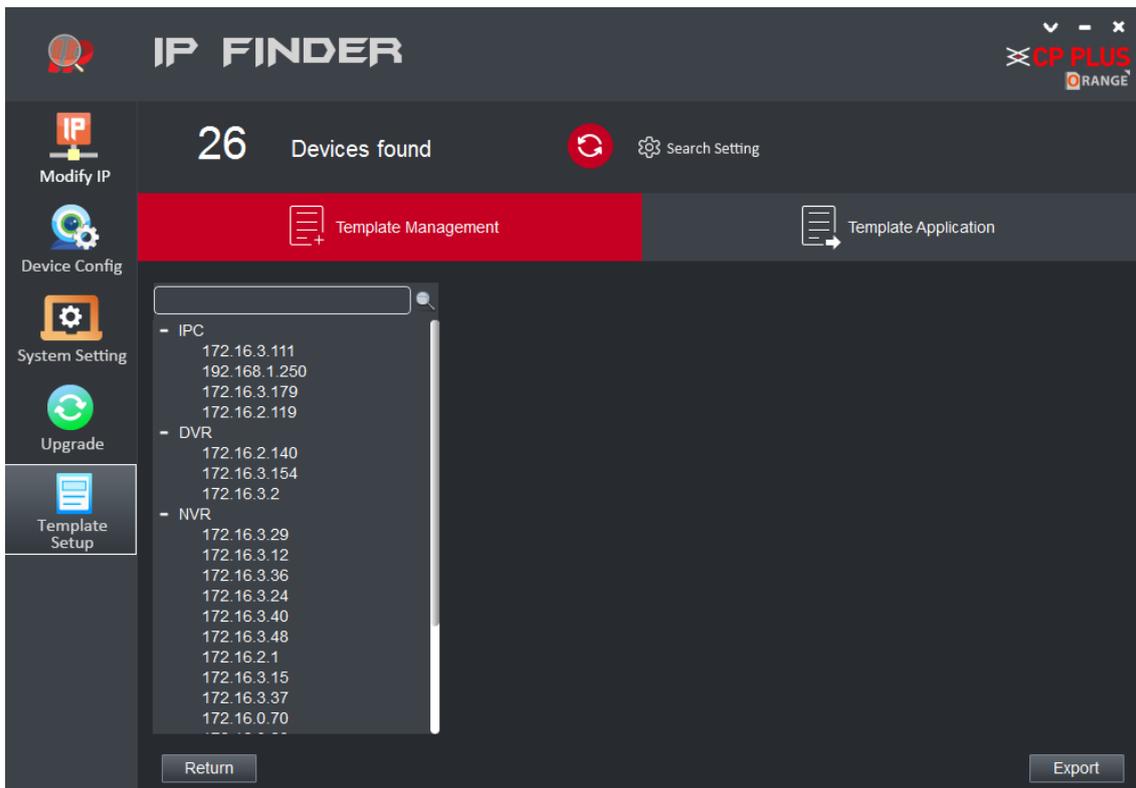


Figure 1-58

2. Select the device and click **Export**.

The **Export** dialog box is displayed. Click **OK** to start exporting.

After exporting is completed, the **Template Management** screen is displayed. See Figure 1-59.

NOTE

If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

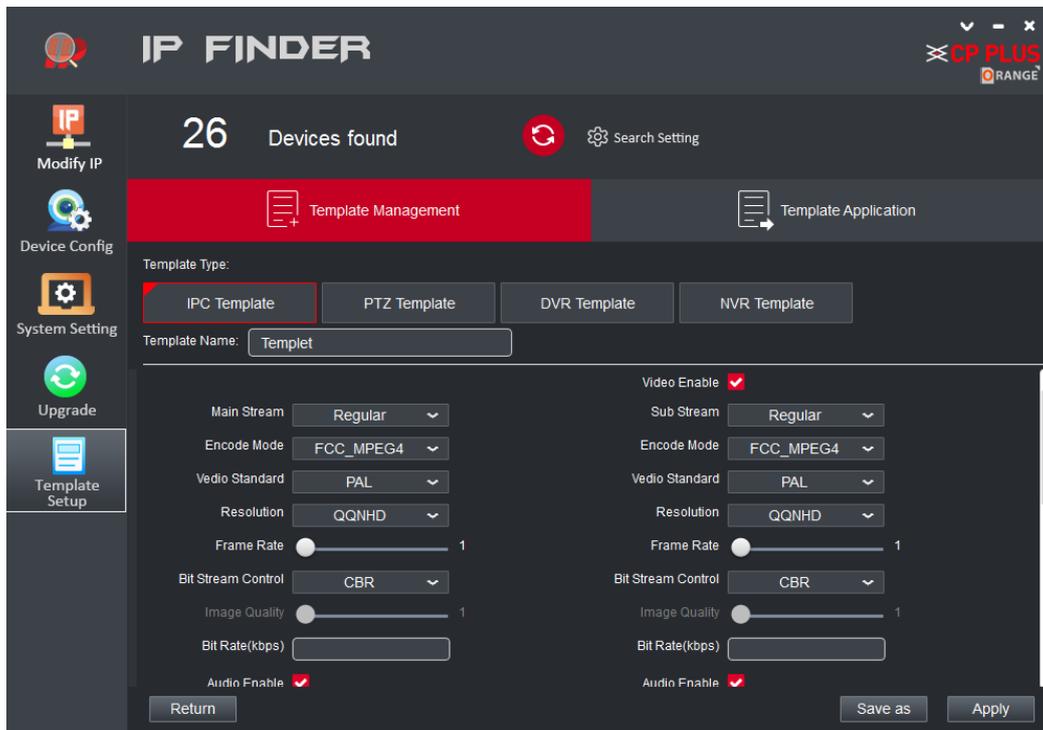


Figure 1-59

3. Select the template type, type the template name, and then set the parameters accordingly.

 NOTE

After the template configuration is completed, click **Apply** to apply the template to the device. For the details about applying the template, see "1.10.2 Applying the Template."

Step 3 Save the template.

1. Click **Save as**.
The **Save as** dialog box is displayed. See Figure 1-60.

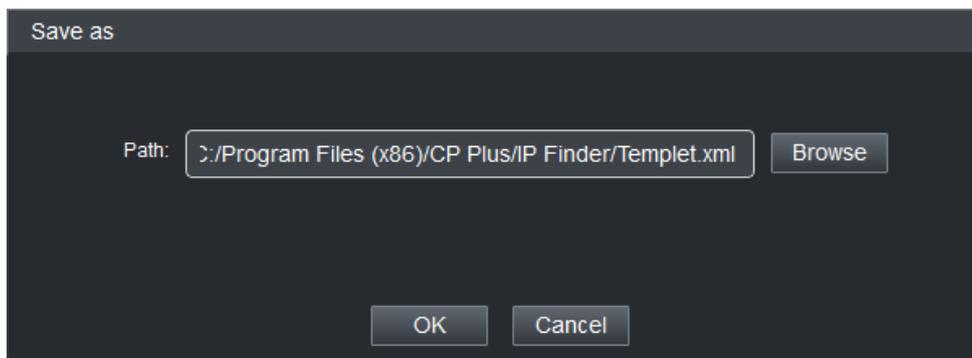


Figure 1-60

2. Click **Browse** to select the save path for the template.
3. Click **OK** to save the template.

1.10.2 Applying the Template

You can load the template to restore or batch configuring the video parameters and encoding parameters for the device.

Step 1 Click .

The **Template Setup** screen is displayed. See Figure 1-61.

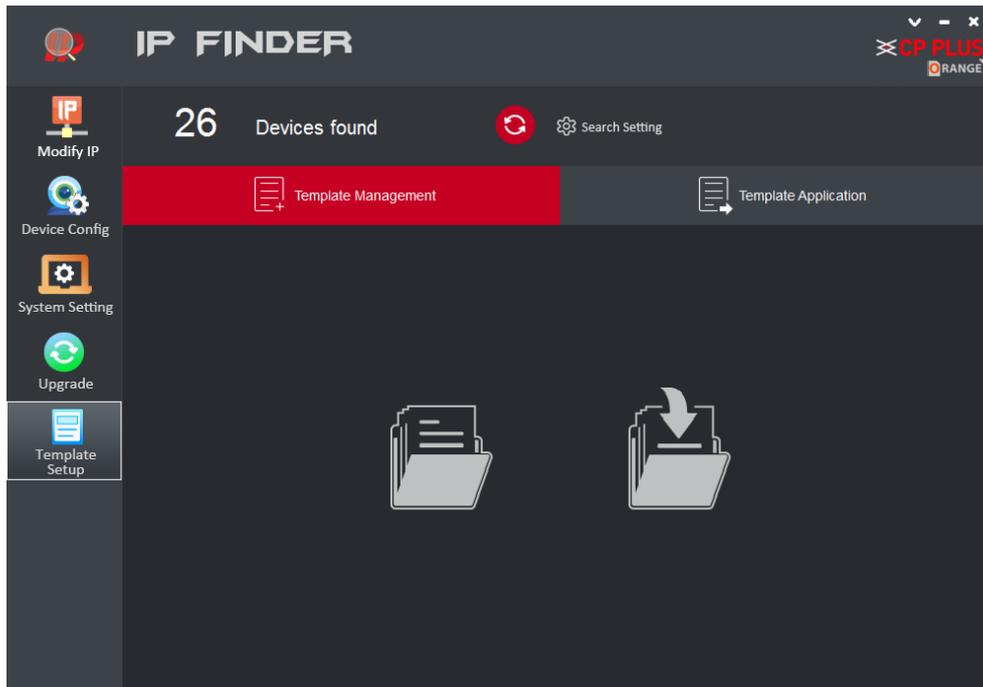


Figure 1-61

Step 2 Load the template.

1. Click .

The **Load Template** dialog box is displayed. See Figure 1-62.

 **NOTE**

Make sure the template is already existing, if not, for the details about how to create a template, see "1.10.1 Creating a Template."

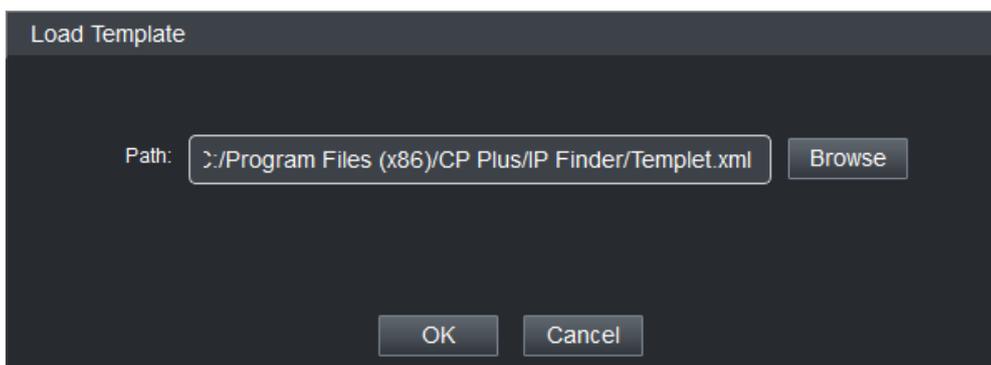


Figure 1-62

2. Click **Browse** to select the template.
 3. Click **OK**.
- The **Template Management** screen is displayed. See Figure 1-63.

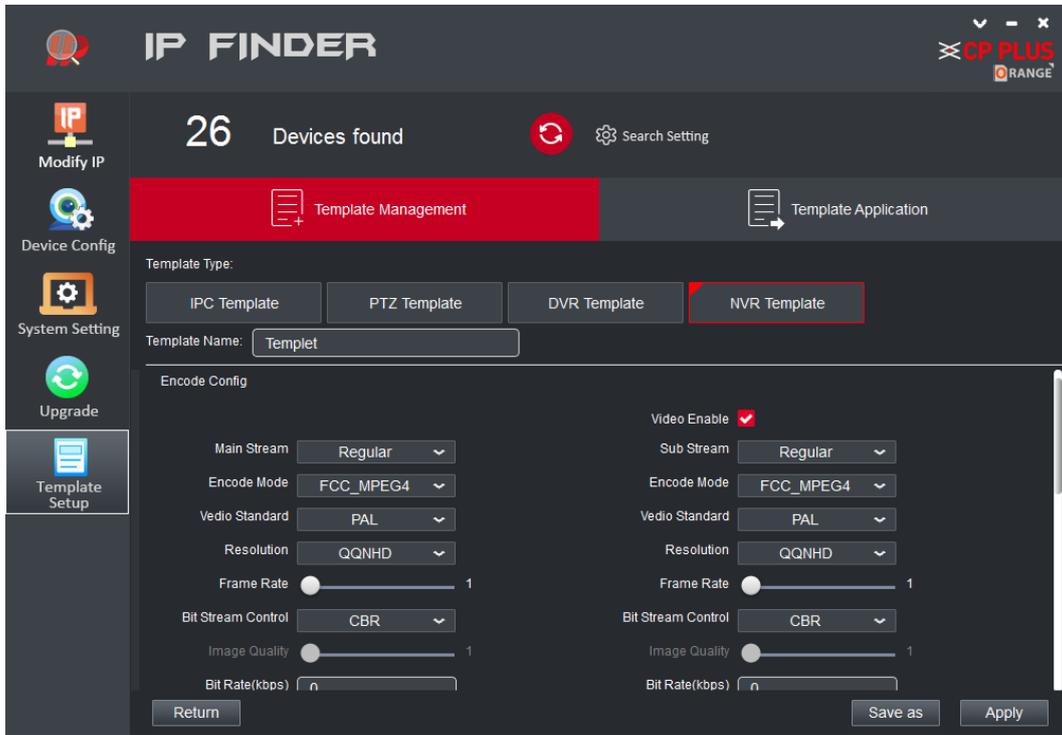


Figure 1-63

Step 3 Apply the template.

1. Click the **Template Application** tab.

The **Template Application** screen is displayed. See Figure 1-64.

NOTE

- Click **Other Template** to switch template.
- If the device is not in the device list, perform researching again. For the details about how to search devices, see "1.4 Adding Devices."

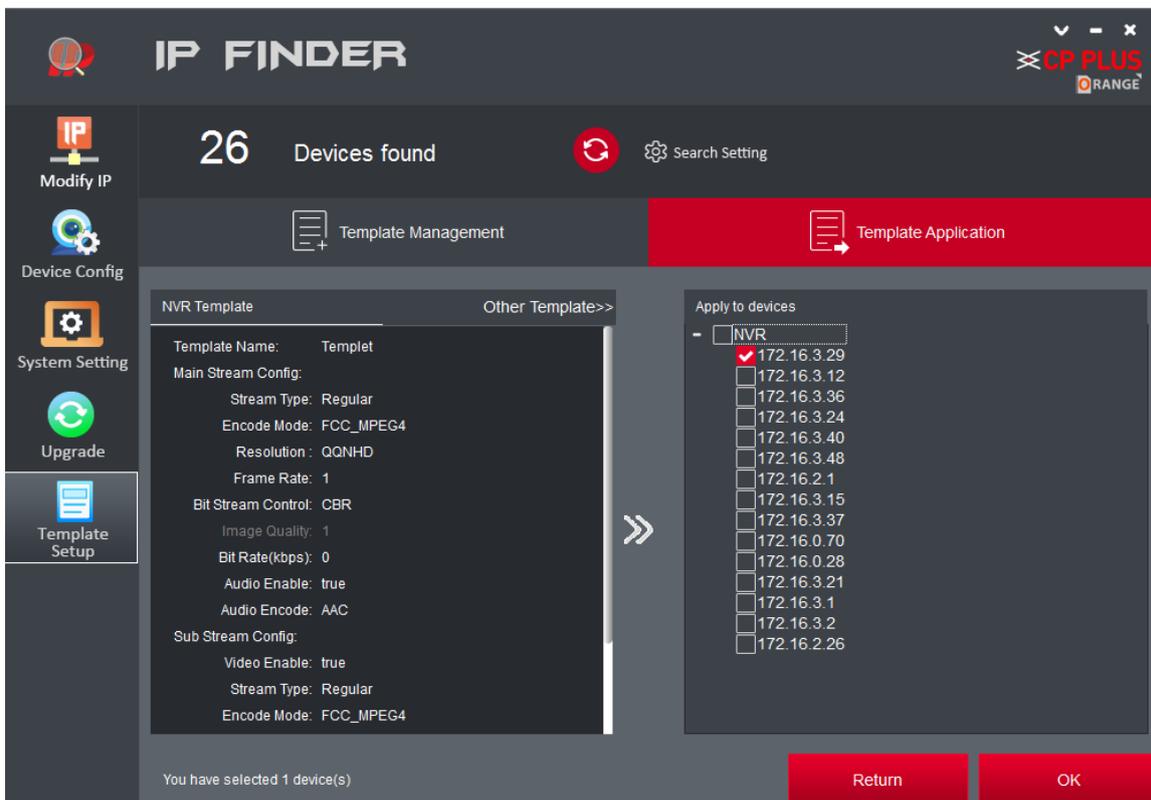


Figure 1-64

2. Select the one or multiple devices and click **OK**.

The **Application Template** dialog box is displayed. Click **OK** to start applying the template.

The result is displayed next to the device after applying is completed. See Figure 1-65.

Click the success icon (✓) or click the failure icon (⚠) for the details.

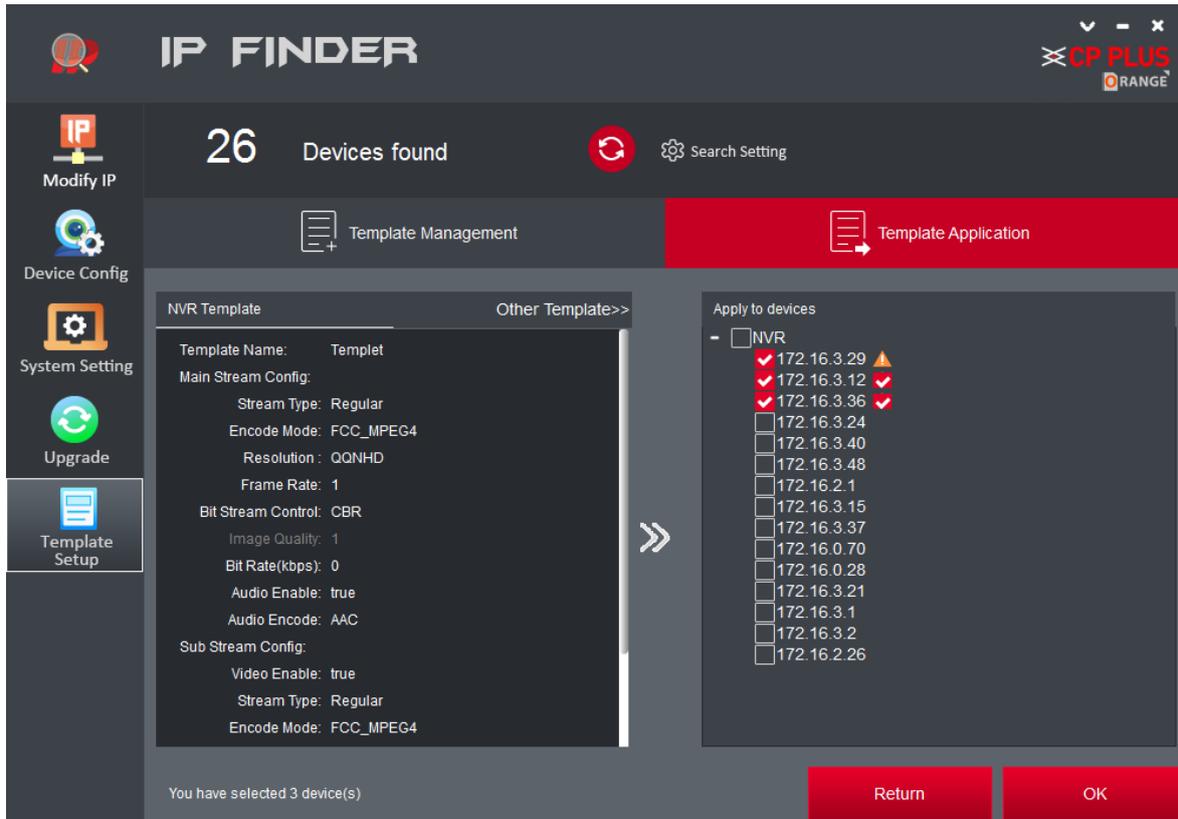


Figure 1-65

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