

# **ConfigTool**

## **User's Manual**

### **(Windows Version)**

**V4.0.0**

**Dahua Technology CO., LTD**

## Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages and losses.

Note:

- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to humid environment. Otherwise it may cause fire.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not place the device on carpet or quilt.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Do not place any object on the device.
- Do not disassemble the device without professional instruction.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly. Otherwise, it may cause fire or electric shock.

## Special Announcement

- This manual is for reference only.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website for more information.

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# 1 Product Overview

ConfigTool is a system tool with the following functions:

Real time monitoring preview of IPC, NVR, DVR and other devices, and support setting of video effects.

View device SN, version and model.

Upgrade device program.

View device log info.

Batch config device parameters.

## 2 Installation

You can refer to these steps to install ConfigTool.

Step 1. Double click . System pops up installation interface as in Figure 2- 1.



Figure 2- 1

Step 2. Click Next. System shows Please select a install directory box as in Figure 2- 2.

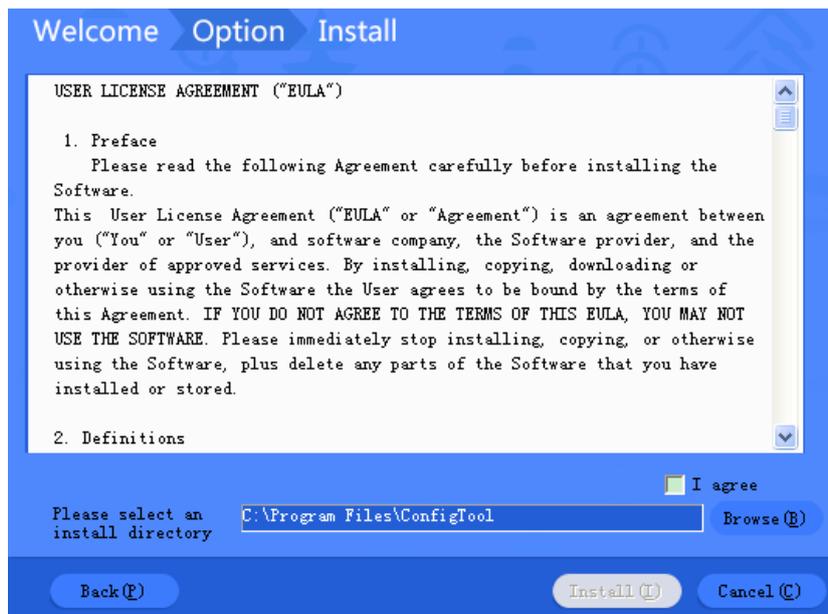


Figure 2- 2

Step 3. Check I agree box, and click Browse to choose a directory.

Step 4. Click Install. Install ConfigTool, and after it finishes, the system shows Figure 2- 3.

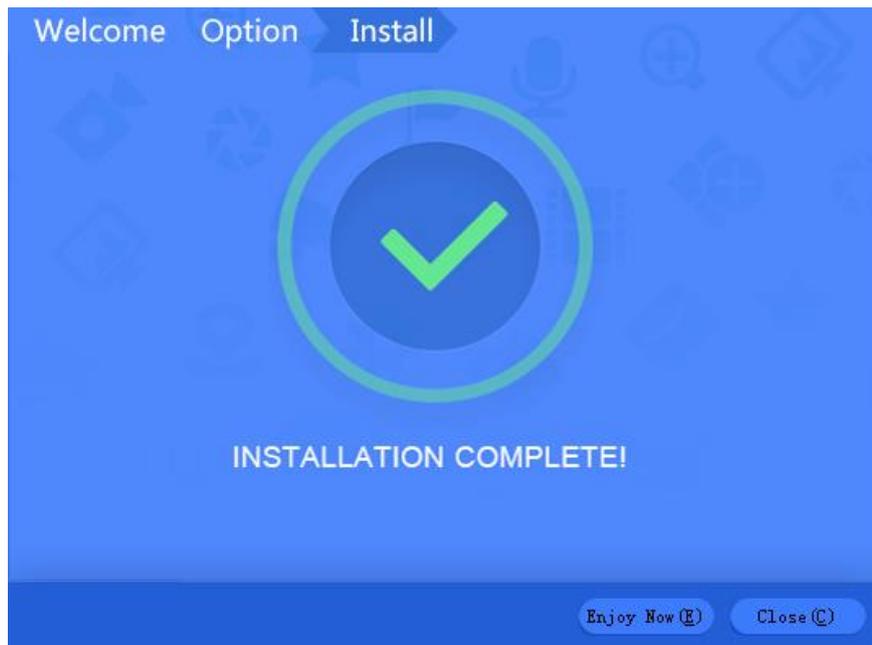


Figure 2- 3

Step 5. Click Close.



After installation is complete, double click  on desktop to see Config Tool homepage.

### 3 Daily Operation

#### 3.1 Login

After installation completes, double click , system pops up the software interface as in Figure 3- 1.

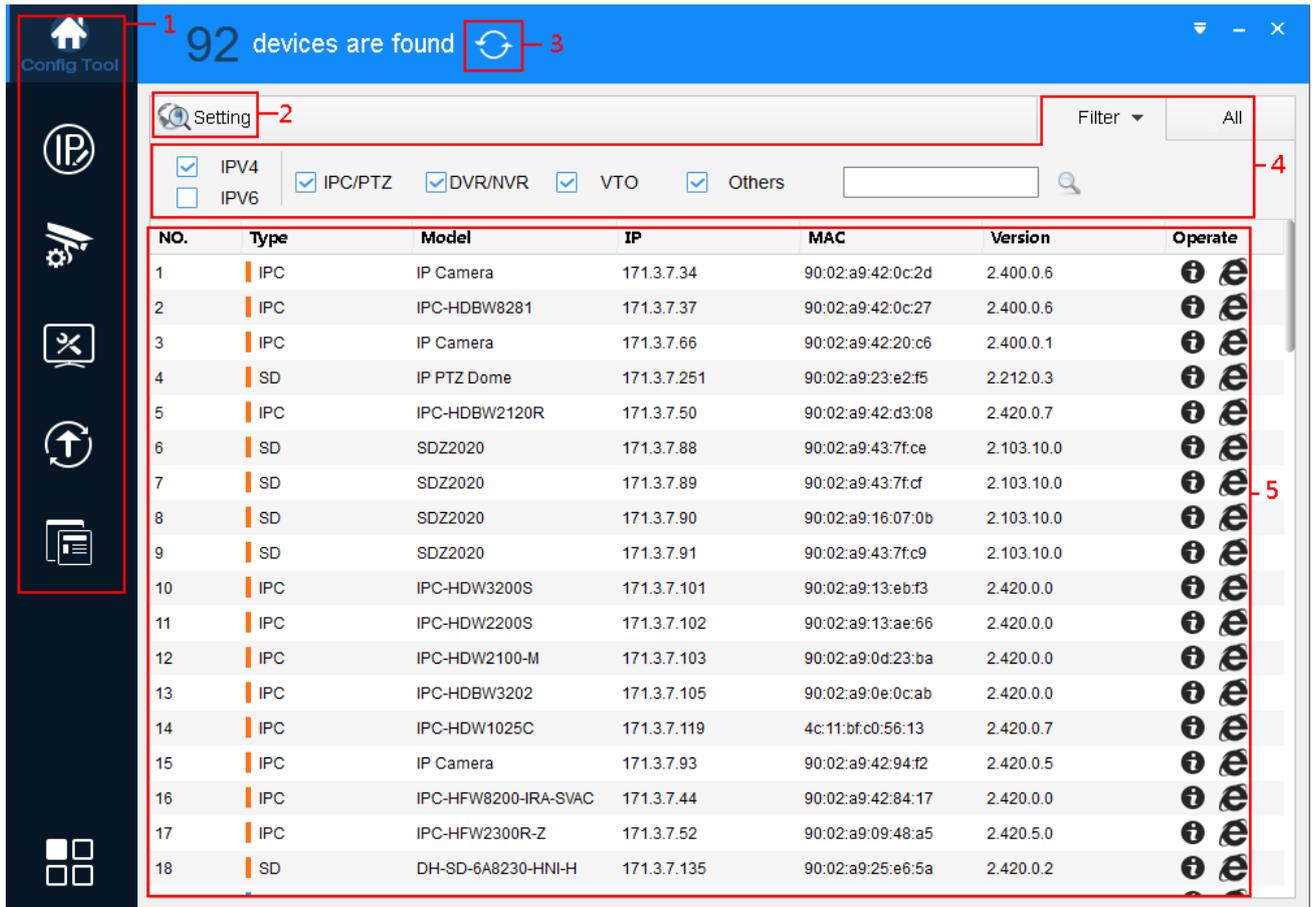


Figure 3- 1

No.	Function	Description
1	Menu	<p>It includes the following six tabs:</p> <ul style="list-style-type: none"> <li> <b>Config Tool</b> : search for device via IP.</li> <li> : one by one or batch modify device IP.</li> <li> : modify encode config and video config.</li> </ul>

		 : set system time, auto reboot or manually reboot, and restore default settings.  : upgrade device one by one or as batch.  : manage template and apply template. Template information include encode config info and video config info. Management template allows to maintain template config info. Apply template is to modify device data by importing template.
2	Setting	Search for device by IP.
3	Refresh	Search device again.
4	Filter	<ul style="list-style-type: none"> <li>● Under filter tab, you can quickly filter device by set type, as well as customize filter for search.</li> <li>● Under All tab, it shows all search results.</li> </ul>
5	Device List	It shows searched device and device info, including type, model, IP, MAC and version. In Operation list, click  to view device details. Click  to quickly open device WEB config interface.

## 3.2 Search Device

Auto or manually search by IP, and show result in the device list. You can upgrade, set the searched device.

### Warning:

Please make sure the network is well connected between device and PC where ConfigTool is installed, otherwise device will not be searched by ConfigTool.

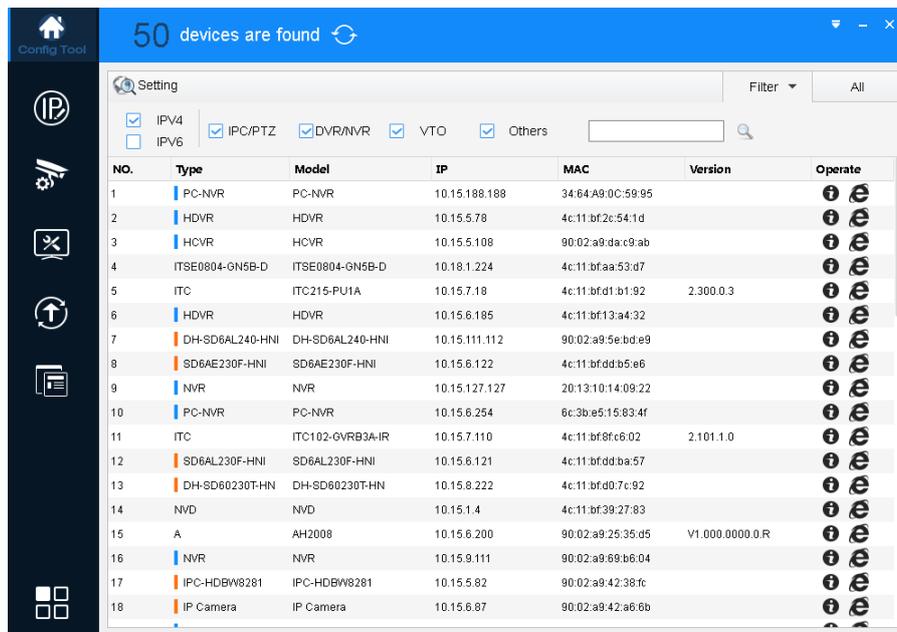
### 3.2.1 Auto Search

After you have entered ConfigTool homepage, ConfigTool will auto search and show searched device in device list, see Figure 3- 2.

Note:

- If it is your first time using ConfigTool, you shall be aware that device search is performed within the segment same with PC by default.

- Click , search device again, and update device list info.
- Under Filter tab, you can filter device, and quickly search for device in the results. Under All tab, you will see all searched devices.
- Click  to view device details.



NO.	Type	Model	IP	MAC	Version	Operate
1	PC-NVR	PC-NVR	10.15.188.188	34:64:A9:0C:59:95		 
2	HDVR	HDVR	10.15.5.78	4c:11:bf:2c:54:1d		 
3	HCVR	HCVR	10.15.5.108	90:02:a9:da:c9:ab		 
4	ITSE0804-GN5B-D	ITSE0804-GN5B-D	10.18.1.224	4c:11:bf:aa:53:d7		 
5	ITC	ITC215-PU1A	10.15.7.18	4c:11:bf:d1:b1:92	2.300.0.3	 
6	HDVR	HDVR	10.15.6.185	4c:11:bf:13:a4:32		 
7	DH-SD6AL240-HNI	DH-SD6AL240-HNI	10.15.111.112	90:02:a9:5e:bd:e9		 
8	SD6AE230F-HNI	SD6AE230F-HNI	10.15.6.122	4c:11:bf:dd:b5:e6		 
9	NVR	NVR	10.15.127.127	20:13:10:14:09:22		 
10	PC-NVR	PC-NVR	10.15.6.254	6c:3b:e5:15:83:4f		 
11	ITC	ITC102-GVRB3A-IR	10.15.7.110	4c:11:bf:8f:c6:02	2.101.1.0	 
12	SD6AL230F-HNI	SD6AL230F-HNI	10.15.6.121	4c:11:bf:dd:ba:57		 
13	DH-SD60230T-HN	DH-SD60230T-HN	10.15.8.222	4c:11:bf:d0:7c:92		 
14	NVD	NVD	10.15.1.4	4c:11:bf:39:27:83		 
15	A	AH2008	10.15.6.200	90:02:a9:25:35:d5	V1.000.0000.0.R	 
16	NVR	NVR	10.15.9.111	90:02:a9:69:b6:04		 
17	IPC-HDBW8281	IPC-HDBW8281	10.15.5.82	90:02:a9:42:38:fc		 
18	IP Camera	IP Camera	10.15.6.87	90:02:a9:42:a6:8b		 

Figure 3- 2

### 3.2.2 Manually Search

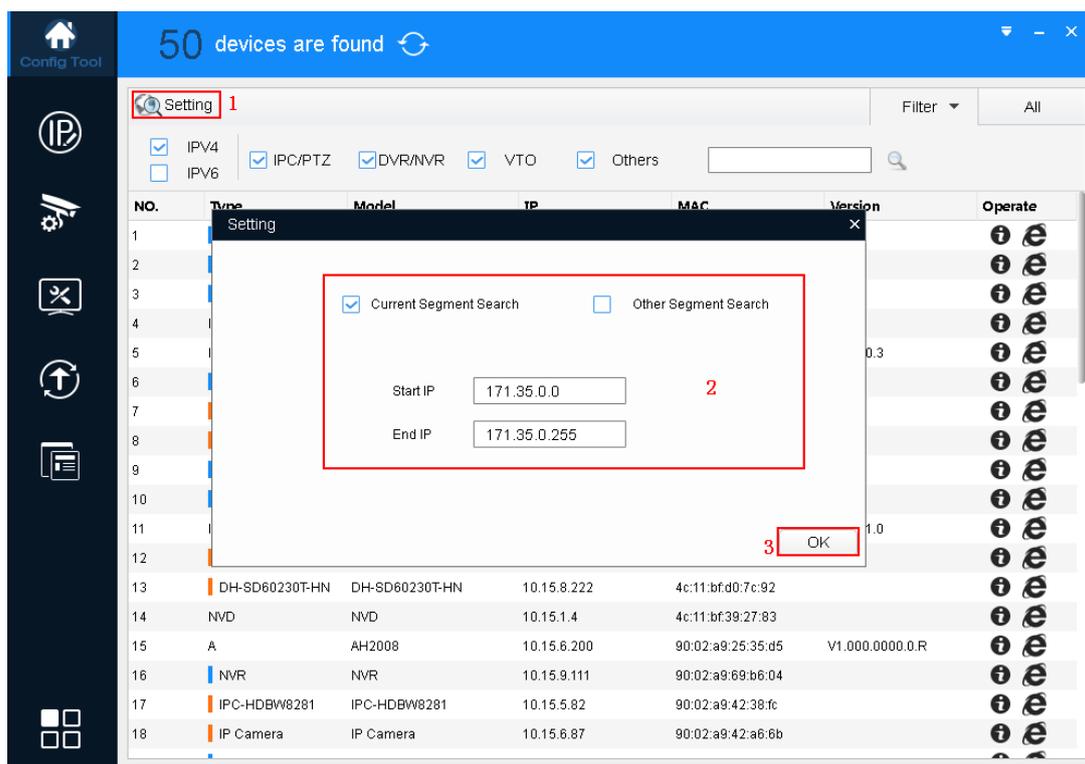


Figure 3- 3

Step 1. In ConfigTool homepage, click Setting . System pops up Setting box.

Step 2. Set criteria of search, see Chart 3- 1.

Parameter	Explanation	Note
Current Segment Search	Current segment, which is IP segment after of PC where ConfigTool is installed. Check current segment search, then it will only search device in current segment.  For first time use, auto search uses default criteria.	If when you set criteria and check current segment search AND other segment search, then it will search device in both segments.
Other Segment Search	Check other segment search, set start IP and end IP, so it searches only device in this set segment.	
Start IP		
End IP		

Chart 3- 1

Step 3. Click OK. In device list, it shows searched device.

Note:

- Click , search device again, and update device list info.
- Under Filter tab, you can filter device, and quickly search for device in the results. Under All tab, you will see all searched devices.
- Click  to view device details.
- When you close this software, it will save search criteria, so you see these saves criteria when you open ConfigTool for the next time.

### 3.3 Ser Login Username and Password

When you upgrade or config device via ConfigTool, you are required to enter login username and password. Therefore, please set device login username and password before this operation.

Note:

When you complete setup of username and password, click  to refresh device information.

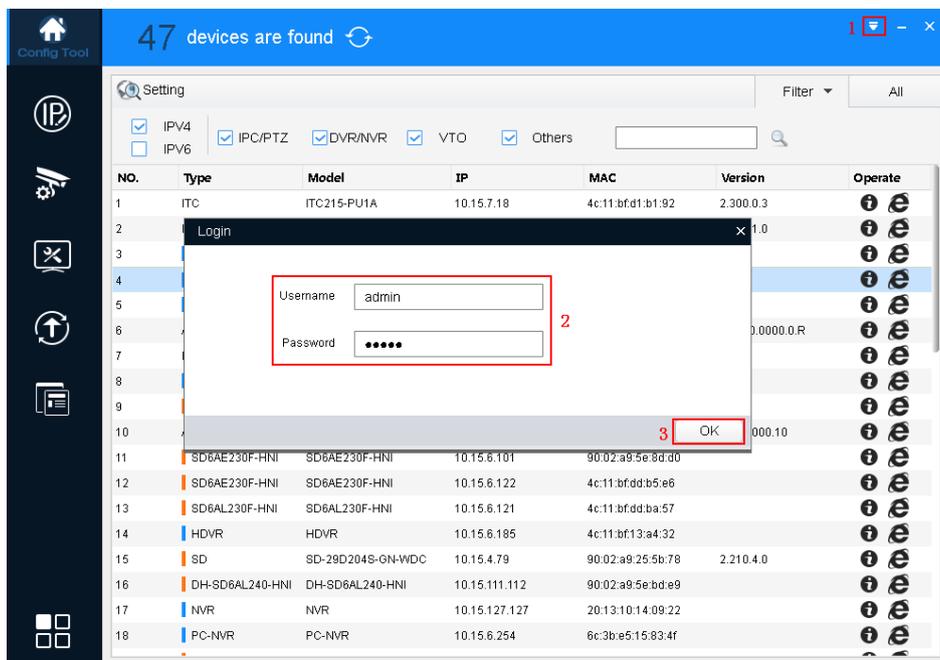


Figure 3- 4

Step 1. In ConfigTool homepage, click  and select Login. System pops up Login box.

Step 2. Set username and password.

Note:

- Username and password are the login username and password of device.
- If you want to batch operate device on ConfigTool, then all of the devices involved shall have identical username and password.

Step 3. Click OK.

## 3.4 Batch Modify IP

### 3.4.1 Batch Modify IP

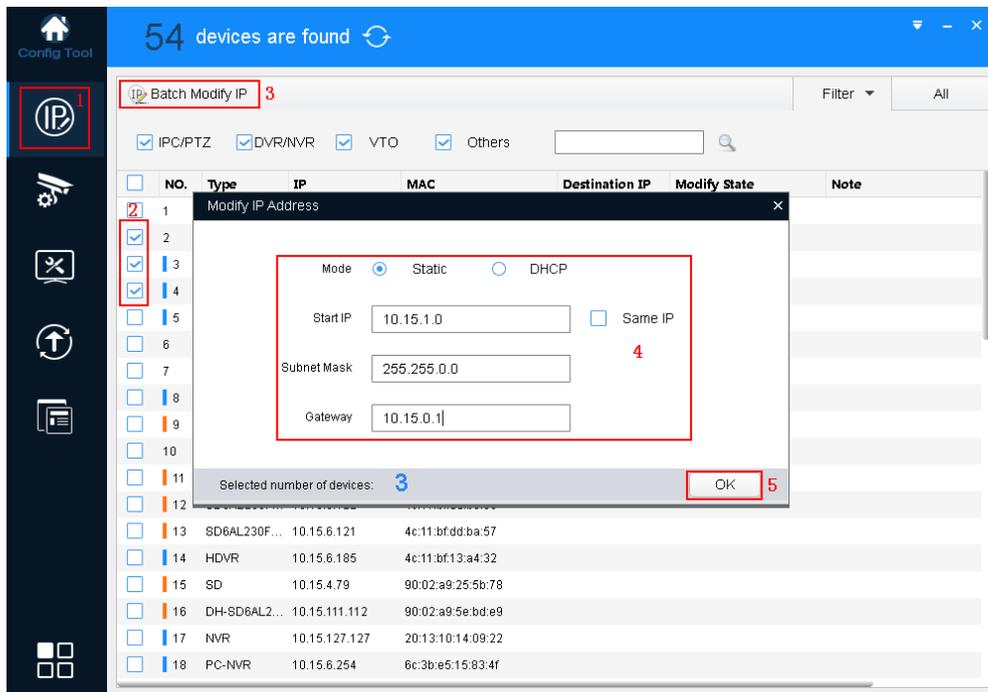


Figure 3- 5

Step 1. Click  to enter batch modify IP interface.

Step 2. Select device you want to modify IP.

Step 3. Click  Batch Modify IP, system pops up Modify IP box.

Step 4. Set start IP, subnet mask and gateway.

Note:

Check Same IP will set the same IP for all devices involved.

Step 5. Click OK.

## 3.5 Configure Device Parameter

Configure device parameter, including encoding parameter and video parameter.

### 3.5.1 Set Encoding Parameter

ConfigTool supports setup of device bit stream type, encode mode, resolution and etc.

Step 1. Click , system shows device config interface, see Figure 3- 6.

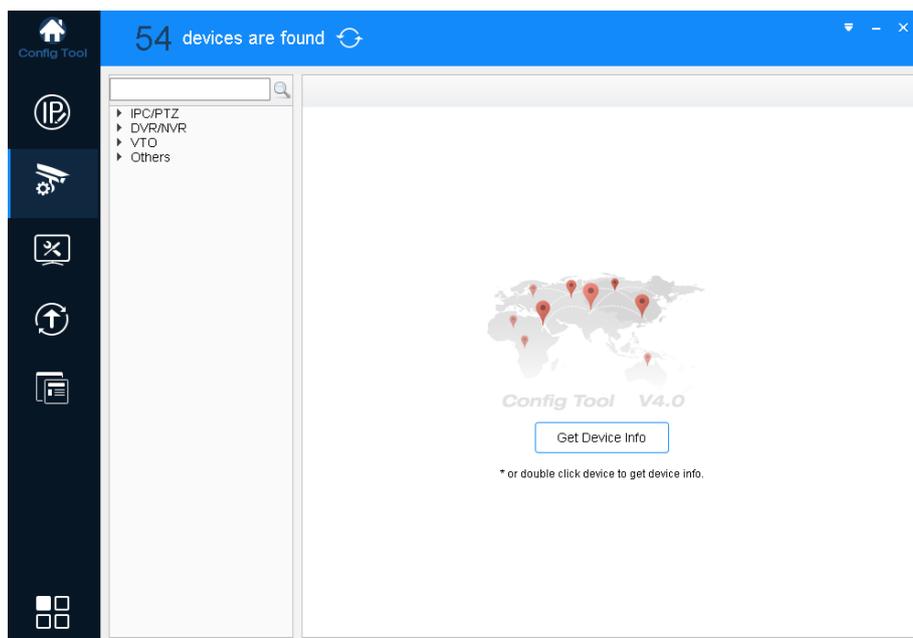


Figure 3- 6

Step 2. Select device to configure encode parameter, click Get device info, and system shows Encode interface, see [错误!未找到引用源。](#) .

Note:

Double click device you want to configure encode parameter, and you also can enter Encode interface.

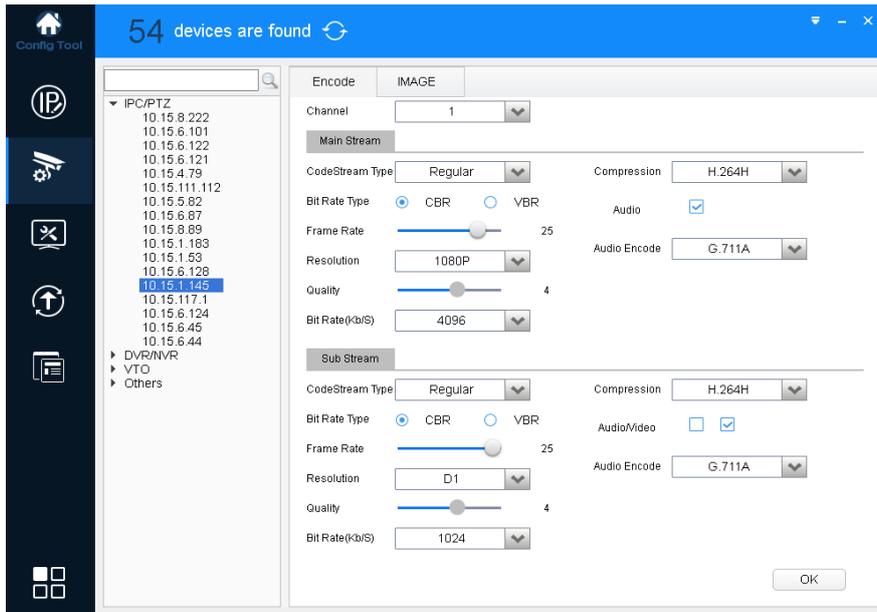


Figure 3- 7

Step 3. Set encode parameter, see Chart 3- 2.

Parameter	Note
Channel	Select corresponding channel.
Code Stream Type	Device main stream or sub stream type.
Compression	Video compression format, you can configure: MJPG, H.264B, H.264H, H.264. <ul style="list-style-type: none"> <li>● H.264:Main Profile encoding</li> <li>● H.264H: High Profile encoding</li> <li>● H.264B: Baseline Profile encoding</li> <li>● MJPEG: under this encoding mode, video image required high bit rate to ensure video quality, so the max bit rate in reference is recommended.</li> </ul>
Bit Rate Type	Include CBR, VBR. You can set quality under VBR only.
Frame Rate	Frame rate of current channel. PAL: 1 fps~25fps. NTSC: 1fps~30 fps.
Resolution	Include multiple resolutions; each type corresponds to different bit rate.
Quality	Quality of video in current channel.
Audio Encode	Audio encoding include: PCM, G.711A, G.711Mu
Bit Rate	<ul style="list-style-type: none"> <li>● Under CBR, this value is the max. Under dynamic video, video frame rate and quality may be lowered to ensure not exceeding this value.</li> <li>● Under VBR, this value is meaningless.</li> </ul>

Chart 3- 2

Step 4. Click OK.

### 3.5.2 Set Video Parameter

ConfigTool supports to view device live preview image and set video effect.

Step 1. Click , system shows device config interface, see Figure 3- 6.

Step 2. Select device to configure video parameter, click Get device info, and system shows Figure 3- 7.

Note:

Double click device you want to configure , and then enter Encode interface.

Step 3. Click Image tab, system shows Image interface, see Figure 3- 8.

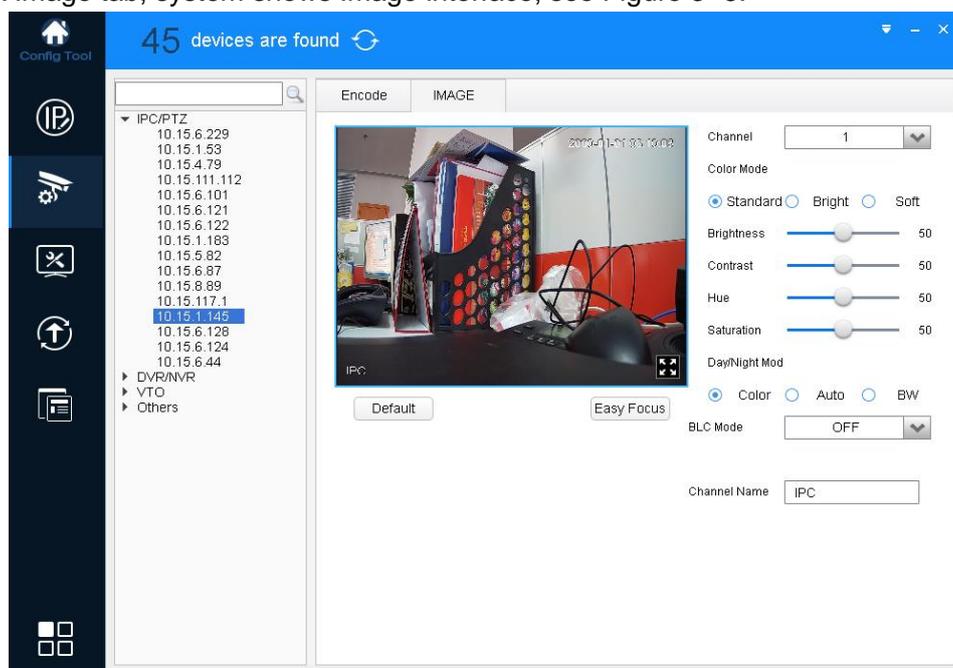


Figure 3- 8

Step 4. Set channel and color, meantime you wan view preview. See Chart 3- 3.

Parameter	Note
	<ul style="list-style-type: none"> <li>When window is in normal size, click  in the video window to display in full screen.</li> <li>When video is in full screen, click  to return to normal size.</li> </ul>
Channel	Select channel to be monitored.
Color Mode	Preset three modes (standard, bright, soft)
Brightness	Used to adjust overall brightness. When image is bright or dark, you can adjust this value. The overall brightness of image will change. The higher the value, the mode bright the image will be. Range: 0~100. Recommended value is 40~60. Default is 50.
Contrast	Used to adjust overall contrast. When image contrast is not OK, you can adjust this

	value. The overall contrast of image will change. The higher the value, the difference between bright and dark part is more obvious. Range: 0~100. Recommended value is 40~60. Default is 50.
HUE	Adjust HUE of image.
Saturation	Adjust image saturation.
BLC Mode	<ul style="list-style-type: none"> <li>● Off: Close BLC mode.</li> <li>● BLC: Increase brightness of main body in dark image.</li> <li>● WDR: When light comparison of image is strong, it adjusts strong and weak lights in image, increasing dynamic range of imaging model.</li> <li>● HLC: Reduce strong light, and balance light.</li> </ul>
Day/Night Mode	Set video into color, black/white, or auto mode.
Easy Focus	Assist to adjust focus.
Default	It restores default value of brightness, contrast, hue and saturation.
Zoom In	Zoom in image with your mouse wheel.
Original Image	After image is zoomed in, right click mouse to go to original image display.

Chart 3- 3

Step 5. Set Easy Focus.

- 1) Click Easy Focus. See Figure 3- 9.



Figure 3- 9

- 2) Follow guide on the right and start to sample, see Figure 3- 10.

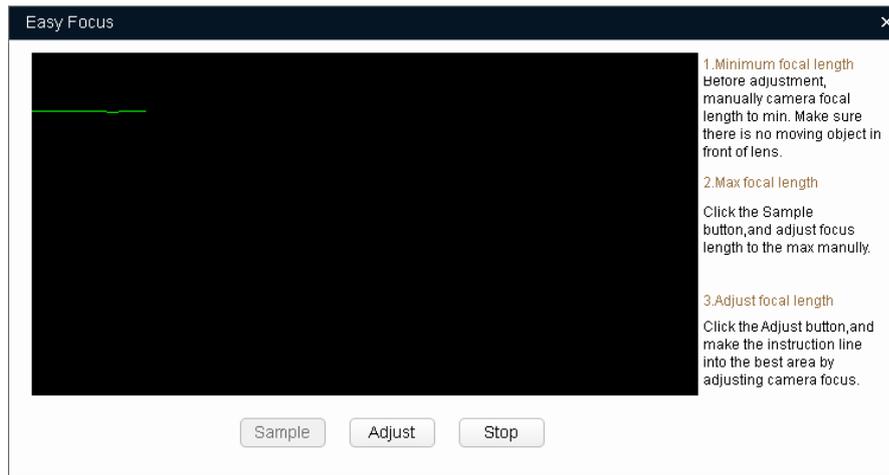


Figure 3- 10

Adjust until image is clear as in [错误!未找到引用源。](#) .



Figure 3- 11

Note:

Red line is the definition value of current image. Green line is the definition value when focus changes from min to max.

### 3.5.3 Load Template

By importing template, you can batch modify device encoding parameter and video parameter.

Step 1. Click , system shows config interface, see Figure 3- 12.

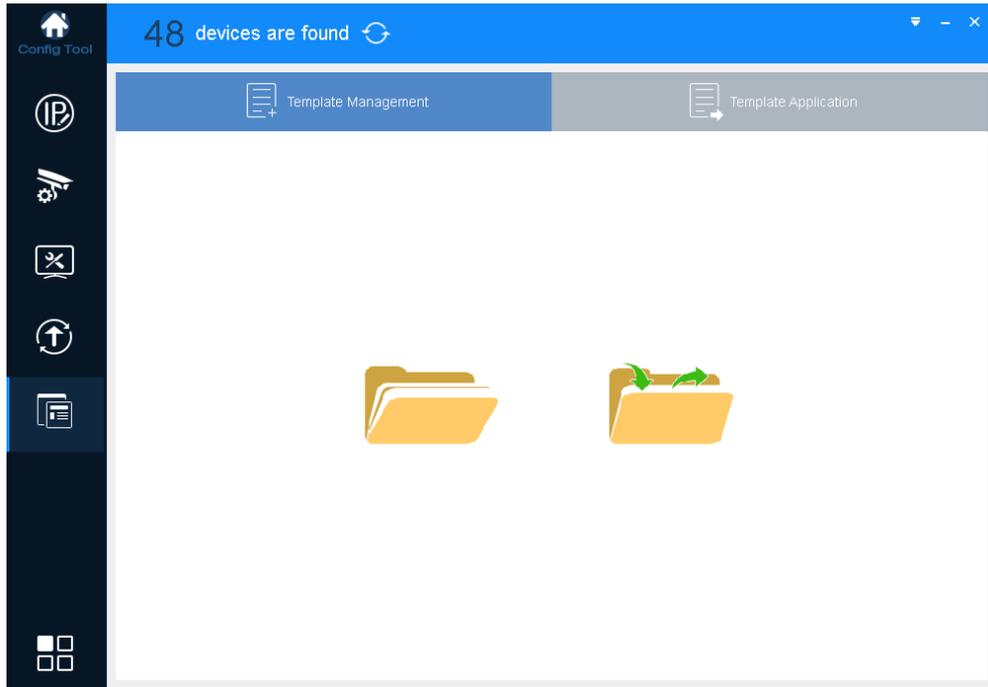


Figure 3- 12

Step 2. Load template, see Figure 3- 13.

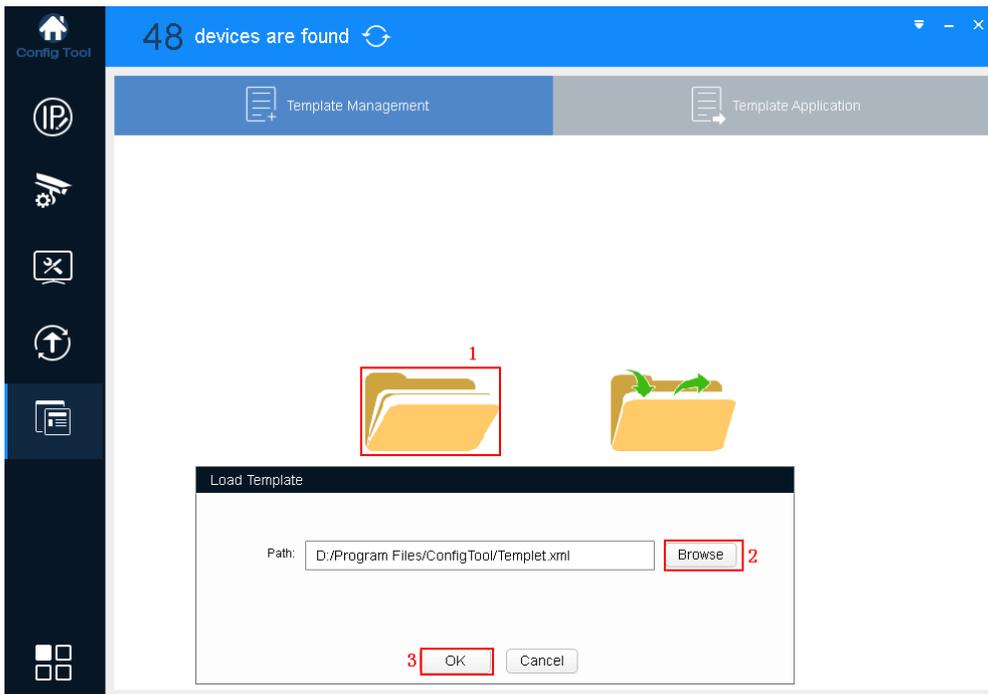


Figure 3- 13

1. Open , system pops up Load Template box.
2. Click Open, and select template.
3. Click OK.

Note:

- Before you load template, the template file exists.
- If there is no template file, please click  to select template.

Step 3. Confirm template parameter and modify, see Figure 3- 14.

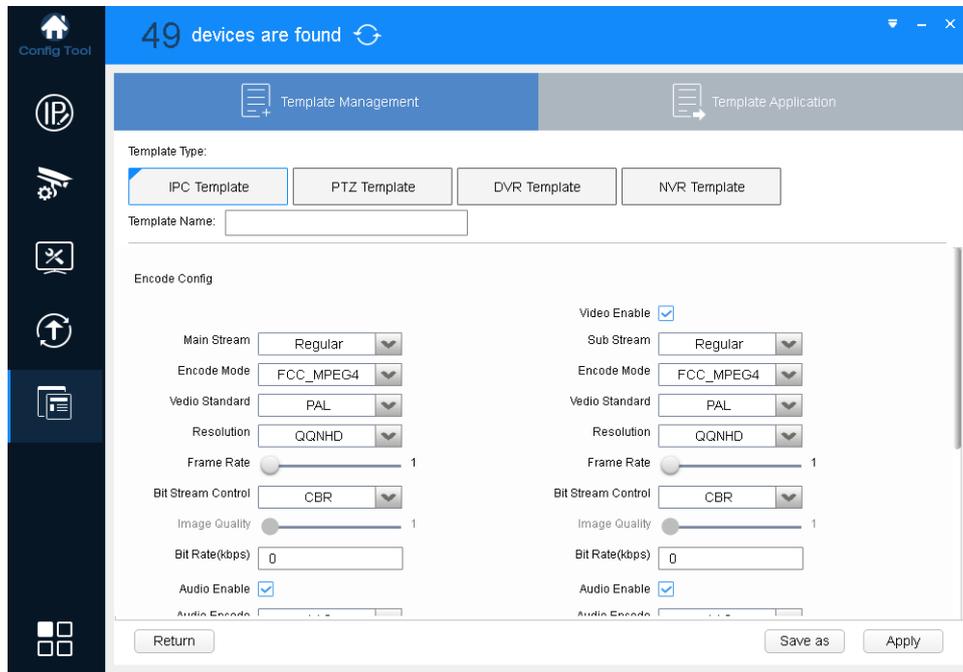


Figure 3- 14

Step 4. Click Apply, and system shows device selection interface, see Figure 3- 15.

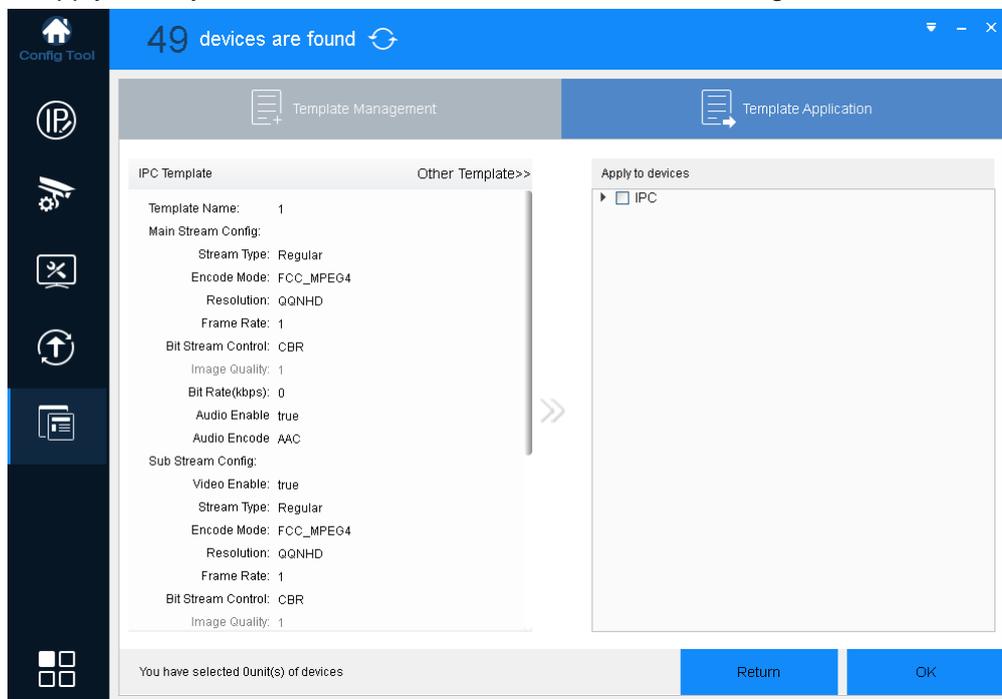


Figure 3- 15

Step 5. Select encoding parameter and video parameter to be modified, click OK.

The system is configuring template, and shows config progress. When it is finished, system provides feedback.

## 3.6 Configure System Info

Configure system information, including time sync, auto or manually reboot device and restore default settings.

### 3.6.1 Time Sync

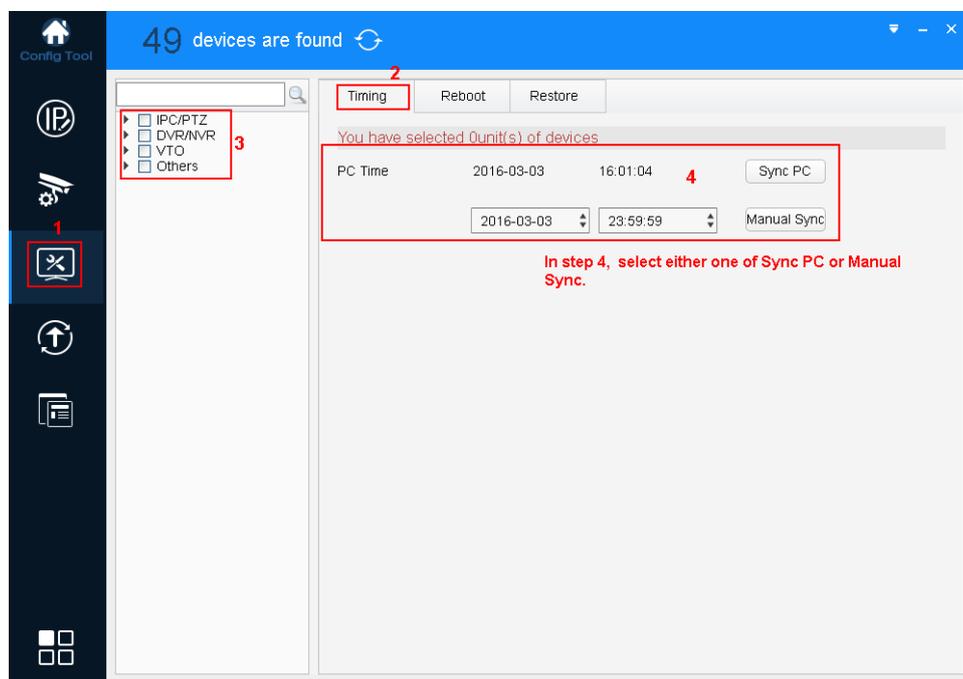


Figure 3- 16

Step 1. Click , system shows system config interface.

Step 2. Click Timing tab.

Step 3. Select device.

Note:

You can select more than one device which will be synced at the same time.

Step 4. Set time.

You can use either of the following method to modify time.

- Enter time, click manually sync.
- Click Sync PC, to sync time with PC.

## 3.6.2 Reboot

### 3.6.2.1 Auto Reboot

Auto reboot is to reboot device within set time.

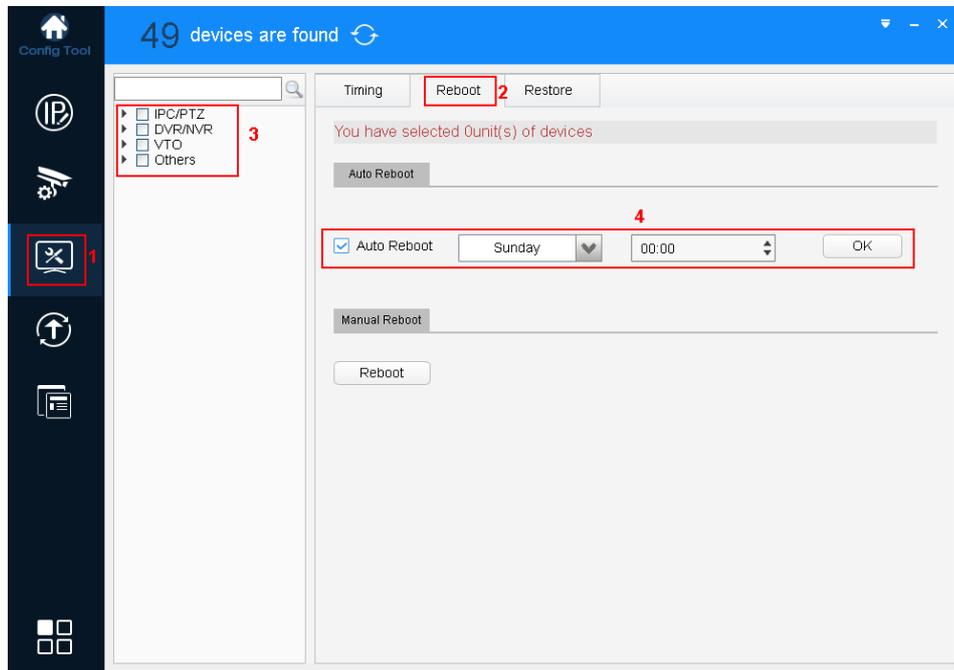


Figure 3- 17

Step 1. Click , system shows system config interface.

Step 2. Click Reboot tab, system shows reboot interface.

Step 3. Select device.

Note:

You can select more than one device. If you select more than one device, then you can batch set to auto reboot device.

Step 4. Check auto reboot, set date and time, click OK.

Note:

Reboot will cause operation interruptions, so please reboot device when operation is not frequent.

### 3.6.2.2 Manually Reboot

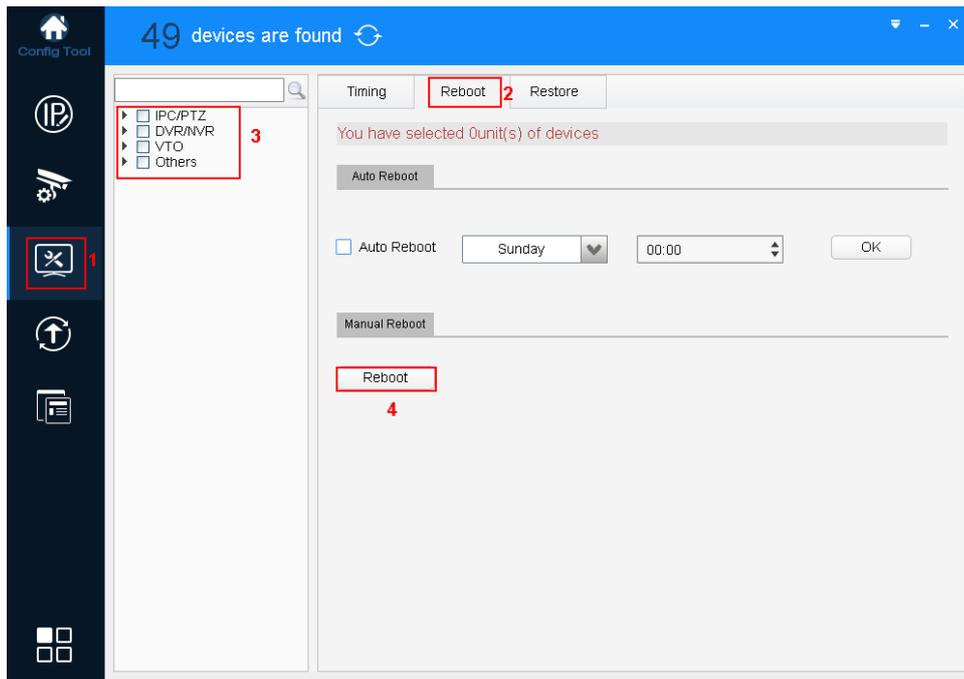


Figure 3- 18

Step 1. Click , system shows system config interface.

Step 2. Click Reboot tab, system shows reboot interface.

Step 3. Select device.

Note:

You can select more than one device. If you select more than one device, then you can batch reboot device.

Step 4. Click Reboot.

Note:

Reboot will cause operation interruptions, so please reboot device when operation is not frequent.

### 3.6.3 Default

Default function is to restore device general setup, encode setup, record setup, serial setup, alarm setup, video detection and video control.

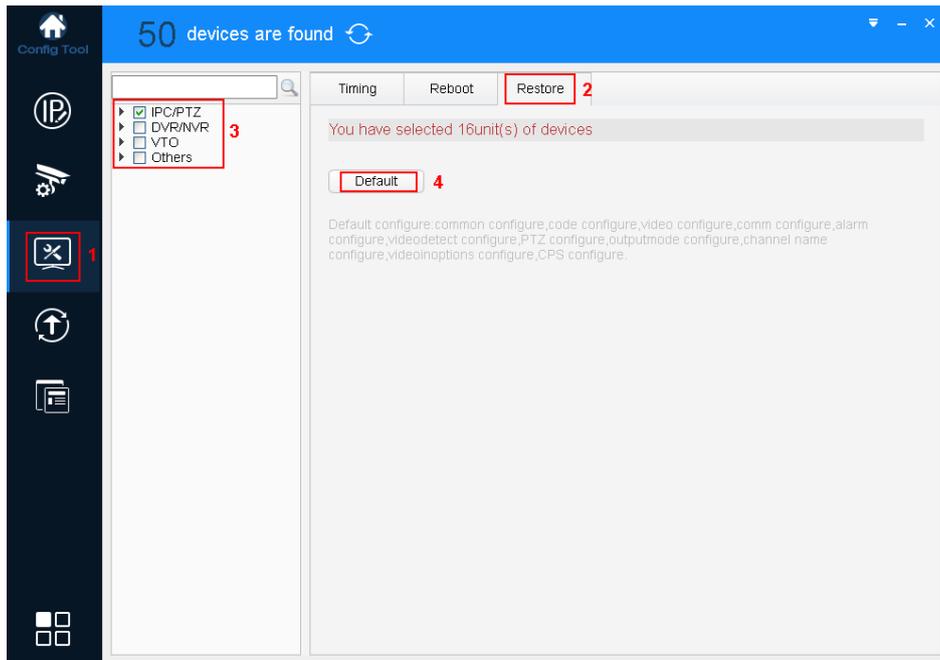


Figure 3- 19

Step 1. Click , system shows system config interface.

Step 2. Click Restore tab, system shows Restore interface.

Step 3. Select device.

Note:

You can select more than one device. If you select more than one device, then you can batch restore device.

Step 4. Click Default.

## 3.7 Upgrade Device

ConfigTool supports to upgrade one device and upgrade multiple devices.

### 3.7.1 Single Upgrade

Step 1. Click , system shows upgrade interface, see Figure 3- 20.

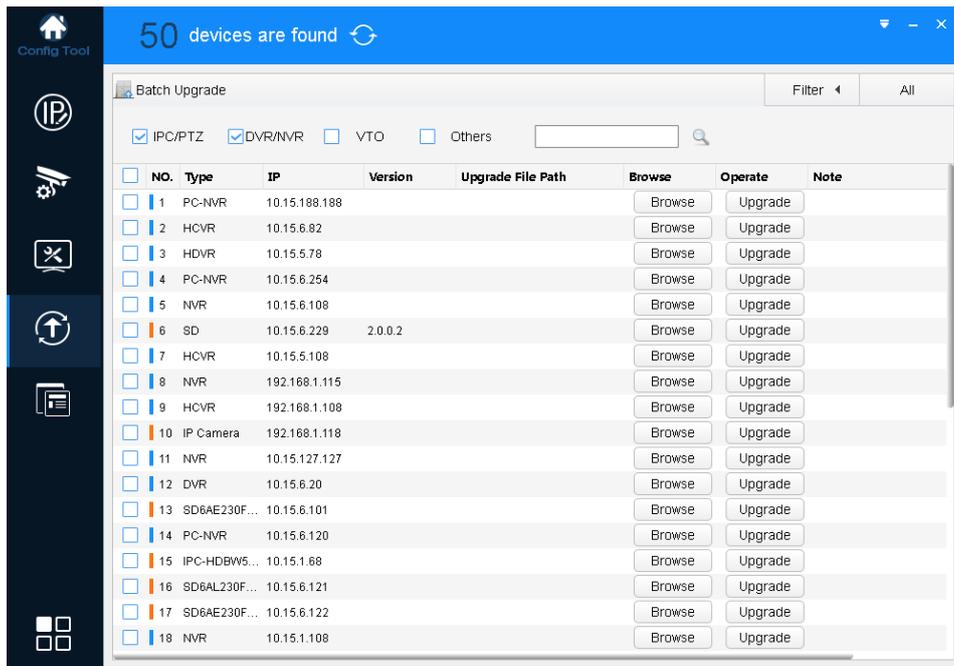


Figure 3- 20

Step 2. Click a device you want to upgrade, select upgrade file, see Figure 3- 21.

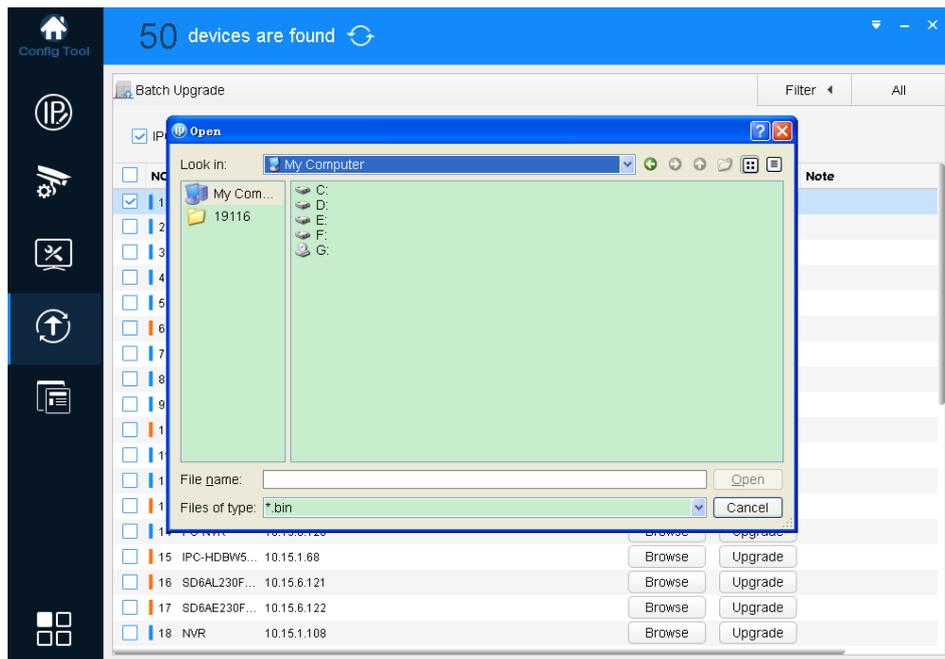


Figure 3- 21

Step 3. After you click Upgrade, system will start to upgrade, see Figure 3- 22. When upgrading is complete, device will auto reboot

Note:

If device goes offline during upgrading process, then ConfigTool will stop at upgrading interface and once device is online again, upgrading will continue.

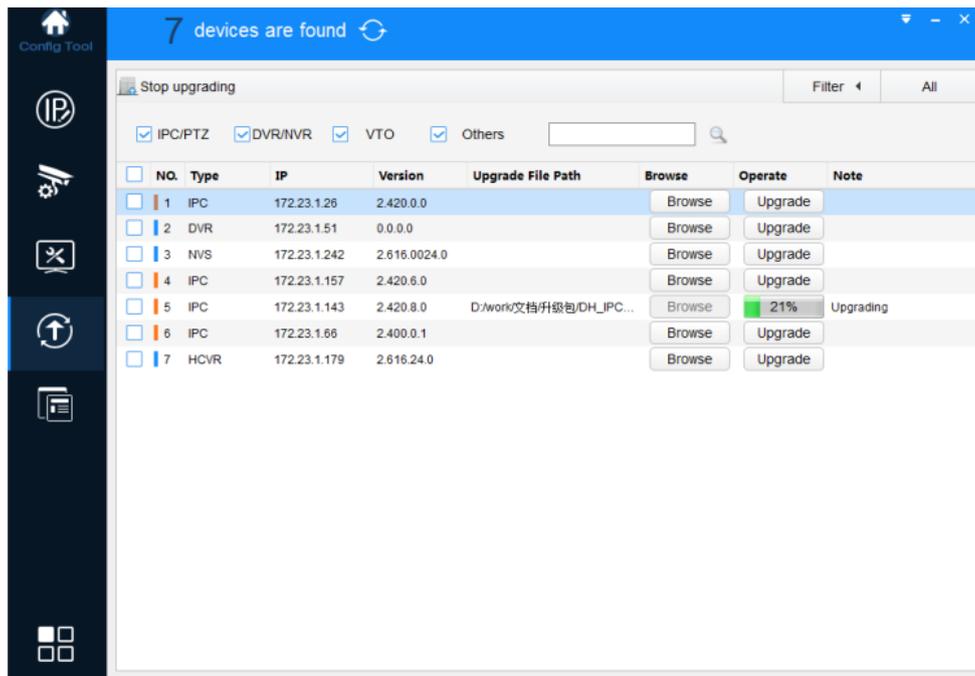


Figure 3- 22

### 3.7.2 Batch Upgrade

Step 1. Click , system shows upgrade interface, see Figure 3- 20.

Step 2. Check devices you want to upgrade, see Figure 3- 23.

**Note:**

**All devices you select must be upgraded to the same version of software.**

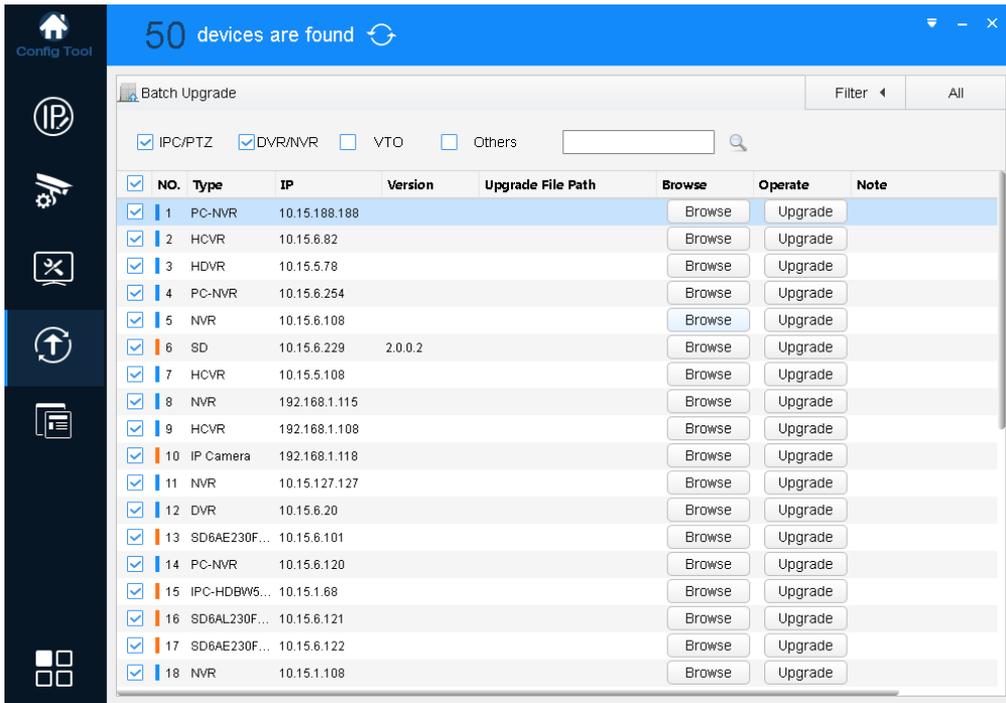


Figure 3- 23

Step 3. Click Batch Upgrade, system shows Batch Upgrade box, see Figure 3- 24.

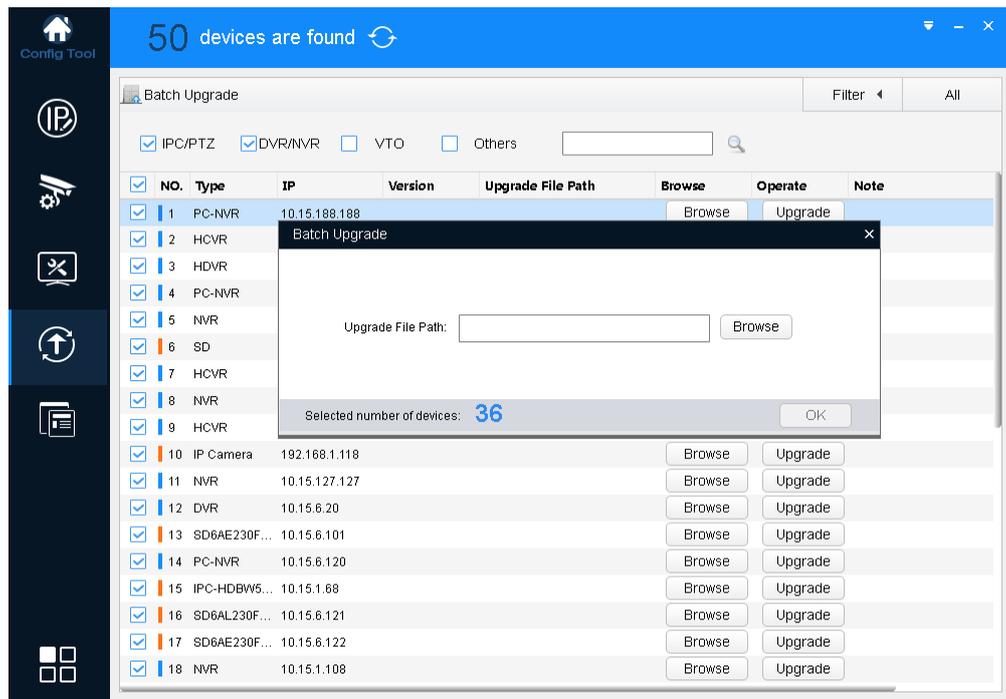


Figure 3- 24

Step 4. Click Browse, select file, see Figure 3- 25.

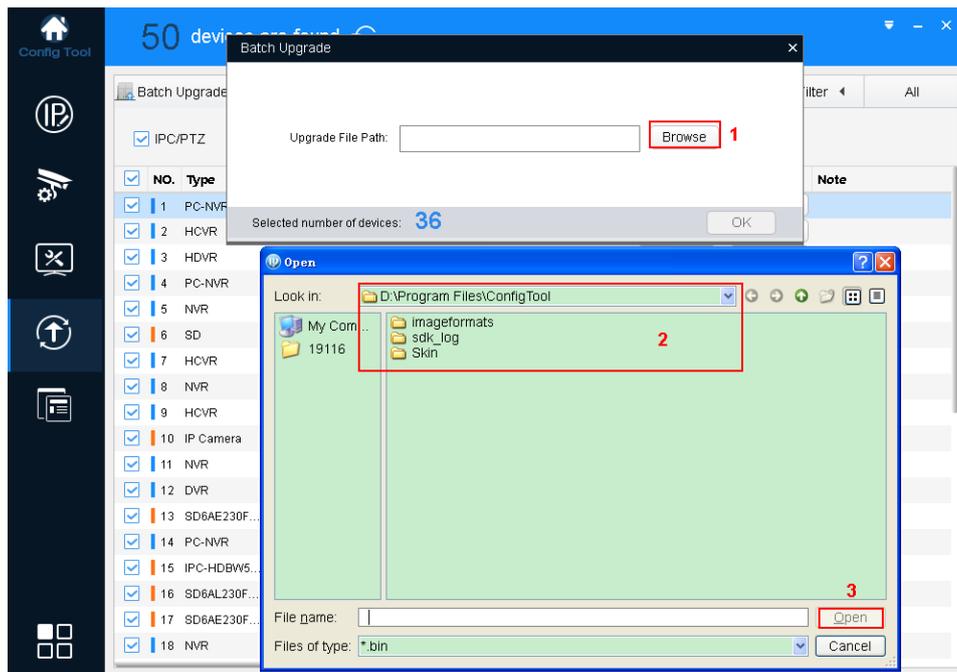


Figure 3- 25

Step 5. Click OK, system starts to upgrade.

Note:

If devices go offline during upgrading process, then ConfigTool will stop at upgrading interface and once device is online again, upgrading will continue.

Note:

- This manual is for reference only. Slight difference may be found in the user interface.
- All the designs and software here are subject to change without prior written notice.
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- If there is any uncertainty or controversy, please refer to the final explanation of us.
- Please visit our website or contact your local service engineer for more information.



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