

EZTools 3.0

User Manual

Disclaimer and Safety Warnings

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1 Introduction

This tool is used to manage and configure IPCs, NVRs, display control devices, access control devices, door stations, indoor stations, etc. on local area network (LAN). Major functions are listed in the table below.



NOTE!

- Display control devices only support login, [changing password](#), [modification of network parameters](#), and [local upgrade](#). EC encoders also support channel configuration.
- Indoor stations not support [changing password](#), [restarting](#), [restoring defaults](#), [restoring factory defaults](#), [importing/exporting configuration](#), [basic configuration](#).

Item	Function
Project Management	Create projects and manage devices by project.
Add Device	<ul style="list-style-type: none"> • Save Device from Default Project • Auto Search: Automatically searches for devices within a specified network segment. • Add Device Manually: Searches for a device with a known IP address.
Basic Operations	Basic operations include: <ul style="list-style-type: none"> • Edit device settings • View device details • Configure the cloud service • Access a device's web interface • Export device list
Change Device Password	Change a device's login password.
Modify Network Parameters	Modify a device's network parameters.
System Configuration	System configuration include: <ul style="list-style-type: none"> • Restart device • Restore defaults • Restore factory defaults • Perform device maintenance
Device Configuration	<ul style="list-style-type: none"> • Basic Configuration: Configure the device name, system time, network, DNS, port, SNMP and ONVIF for a device. • Advanced Configuration: Configure image, encoding, OSD, audio, and motion detection for a channel.
NVR Channel Management	Adds or deletes cameras connected to an NVR (also referred to as NVR channels).
Capacity Calculation	Calculates the required hard disk space, number of hard disks, and recording time.
Upgrade Center	<ul style="list-style-type: none"> • Solution Upgrade: Upgrade the versions of devices within the solution based on the solution matching relationship. This function is only available for devices that have been added to the client. • Custom Upgrade: Select devices for upgrade as needed. Template upgrade, online upgrade, and file upgrade are supported.

Application Center	Provides a portal through which users can conveniently download, install, and upgrade other applications.
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Note: Before you start, make sure your devices and the computer running this tool are connected by a network.

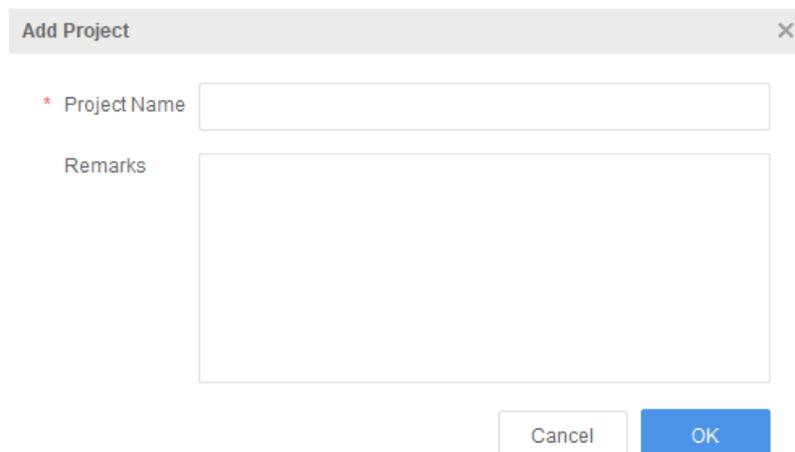
2 Project Management

Create projects and manage devices by project.

The system includes a default project that automatically searches for and adds devices each time the client is launched. You can create new projects and save devices from the default project to your custom projects.

2.1 Add Project

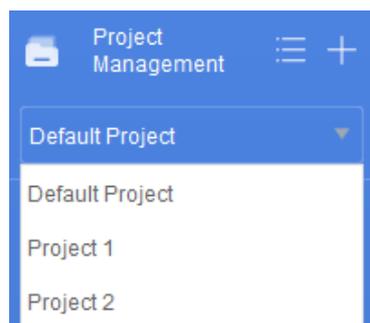
1. Click  next to **Project Management** in the upper-left corner.



2. Set a custom project name and enter remarks as needed.
3. Click **OK**.

2.2 Switch Project

Select a project from the drop-down list in the upper-left corner to enter the project. Functions within the tool are only applicable to the devices in the selected project.





NOTE!

Switching the project will interrupt the ongoing upgrade or download task(s).

2.3 Manage Projects

Click next to **Project Management** to view the existing projects. You can perform operations such as add, edit, and delete.

✓	Project Name	Device Count	Creation Time	Last Modified Time	Remarks	Operation
<input type="checkbox"/>	Project 1	23	2024-09-12 09:58:41	2024-10-22 21:16:23	5	
<input type="checkbox"/>	Project 2	39	2024-09-12 09:59:59	2024-10-22 21:16:35	8	

- Edit project: Click in the **Operation** column. The **Project Name** and **Remarks** columns will be editable. After making your changes, click on any blank area within the project list to save your modifications.
- Delete project: Click in the **Operation** column or select project(s) and click **Delete**.
- Switch Project: Click in the **Operation** column to switch to the project.
- Add project: Click **Add Project**, set a custom project name and enter remarks as needed, and then click **OK**.

3 Device Management

Add devices to projects for basic configuration.

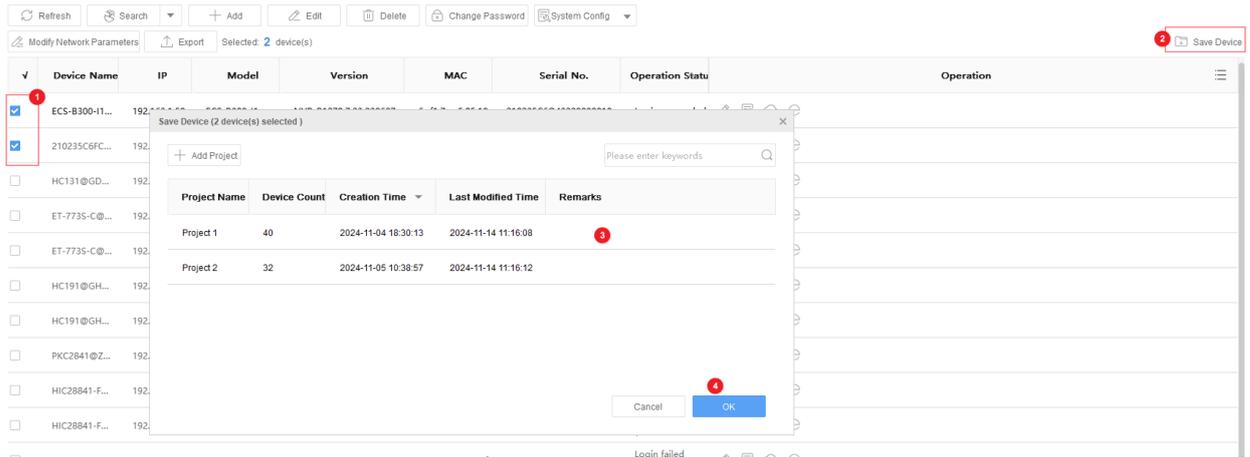
3.1 Add Device

Choose a method to add devices.

3.1.1 Save Device from Default Project

Save devices from the default project to a custom project.

1. Go to the default project to view the devices added via auto search.
2. Select device(s) you want to save (all devices will be saved if none are selected).
3. Click **Save Device** in the upper-right corner.



4. Select a destination project and click **OK**. The selected device(s) will be added to the designated project.

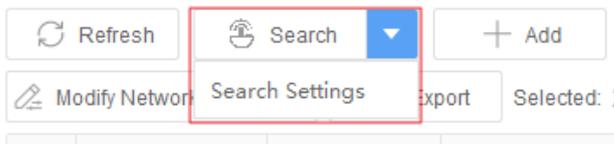


NOTE!

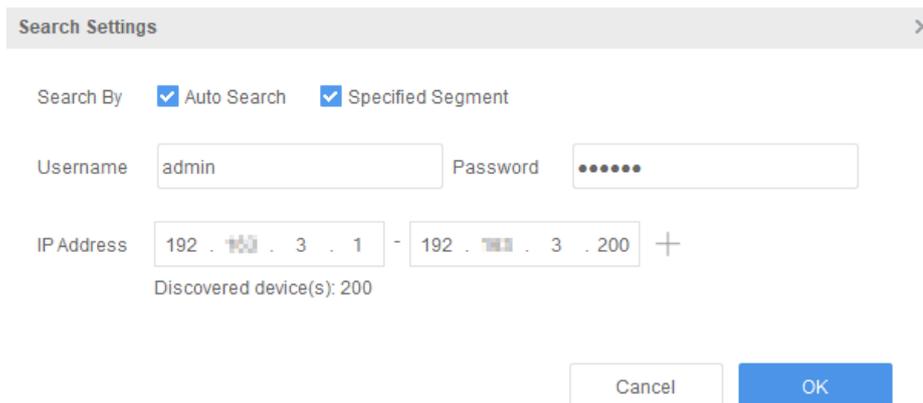
A device can be saved to multiple projects.

3.1.2 Auto Search

Set network segments for automatic search. The system can automatically search for and add devices within the specified network segments.



1. Click ▼ next to **Search** and select **Search Settings**. Complete the settings and click **OK**.



Item	Option	Description
Search Mode	Auto Search	The default mode. This mode searches for devices within the same network segment as the PC. Specifying network segments manually is not supported.
	Specified Segment	<ul style="list-style-type: none"> Specify an IP segment, and the system will immediately detect the number of devices within the segment. Click + to add a network segment. Up to 40 segments are allowed.
Username/Password		Enter the device's actual login username and password.

The default username/password is admin/123456.

2. Click **Search**. The system will automatically search for and add devices within the corresponding segments and log in to the device.



NOTE!

When you modify the search settings and conduct a new search, newly discovered devices will be added additionally without affecting the previously added devices.

3.1.3 Add Device Manually

If the device IP or IP segment is known, you can add the device manually.

1. Click **Add**. A page as shown below appears.

The screenshot shows a dialog box titled "Add" with a close button (X) in the top right corner. The dialog contains the following elements:

- Add By:** Three radio buttons: "IP" (selected), "IP Range", and "Imported File".
- IP Address:** A text input field containing "0 . 0 . 0 . 0".
- Port:** A text input field containing "80".
- Username:** An empty text input field.
- Password:** An empty text input field.
- Add Offline Device:** A checkbox that is currently unchecked.
- Buttons:** "OK" and "Cancel" buttons at the bottom right.

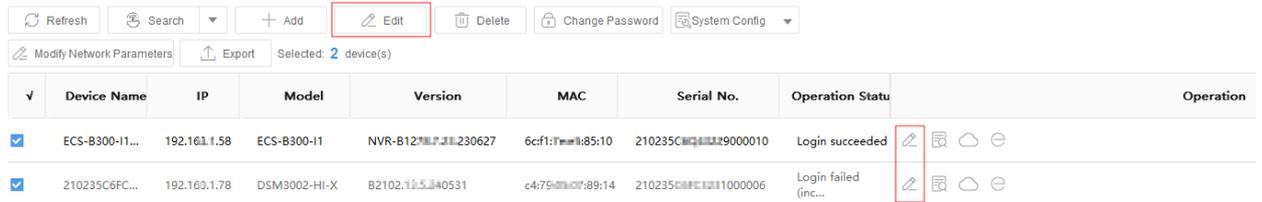
2. Choose a way to add devices.
 - By IP: Enter the device IP address, port number, username, and password to add a device.
 - By IP range: Enter the IP range, port number, username, and password to add all devices within the IP address range.
 - Import File: Click **Export** to export the template, then complete device information in the template, and import the template to add the devices specified in the file. A message appears when the import is completed. If a device failed to be added, you can click **View Failure Details** to see the cause of failure. You can modify settings and then import again.
3. (Optional) Check **Add Offline Device** to add offline devices to the device list. The device information will not be verified when they are added to the device list; it will be verified when you configure the devices.
4. Click **OK**.

3.2 Basic Operations

3.2.1 Edit Device

Edit the device username and password saved by the tool. The username and password will be used to access the device during subsequent configuration.

Choose a way to change the device username and password.



The screenshot shows a management interface with a toolbar at the top containing buttons for Refresh, Search, Add, Edit (highlighted in red), Delete, Change Password, and System Config. Below the toolbar, there are buttons for Modify Network Parameters and Export, and a status indicator 'Selected: 2 device(s)'. The main area is a table with columns: Device Name, IP, Model, Version, MAC, Serial No., Operation Status, and Operation. Two devices are listed, both with checkboxes in the first column. The 'Operation' column for each device contains icons for edit, print, refresh, and close.

✓	Device Name	IP	Model	Version	MAC	Serial No.	Operation Status	Operation
<input checked="" type="checkbox"/>	ECS-B300-I1...	192.168.1.58	ECS-B300-I1	NVR-B1270.7.2.230627	6cf1:7777:85:10	210235C6C112900010	Login succeeded	   
<input checked="" type="checkbox"/>	210235C6FC...	192.168.1.78	DSM3002-HI-X	B2102.11.5.40531	c4:79:00:07:89:14	210235C6C111000006	Login failed (inc...	   

- Edit devices in batches: Select the devices you want to edit, click **Edit**. A dialog box appears. Enter the new username and password, and then click **OK**.
- Edit one device: In the **Operation** column, click  for the device you want to edit. A dialog box appears. Enter the new username and password, and then click **OK**.

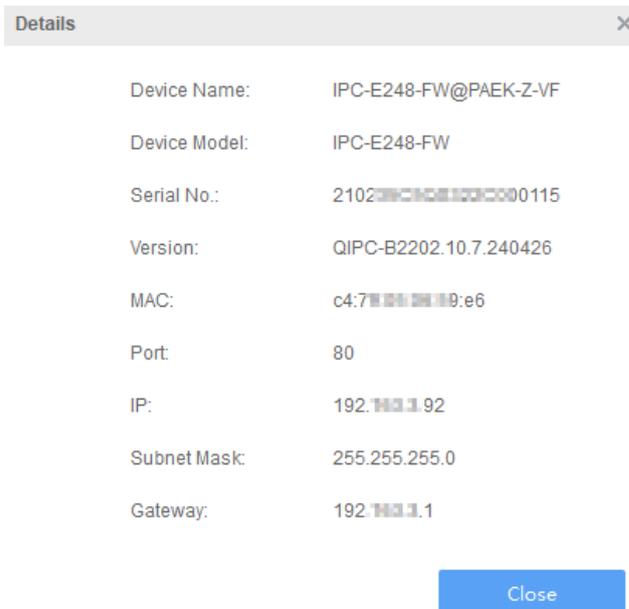


NOTE!

After modification, the device will log in automatically.

3.2.2 View Device Details

Click  in the **Operation** column to view device details, including device name, model, serial number, version information, and IP address.



The screenshot shows a 'Details' dialog box with a close button (X) in the top right corner. It displays the following information:

Device Name:	IPC-E248-FW@PAEK-Z-VF
Device Model:	IPC-E248-FW
Serial No.:	210235C6C1129000115
Version:	QIPC-B2202.10.7.240426
MAC:	c4:79:00:07:89:e6
Port:	80
IP:	192.168.1.92
Subnet Mask:	255.255.255.0
Gateway:	192.168.1.1

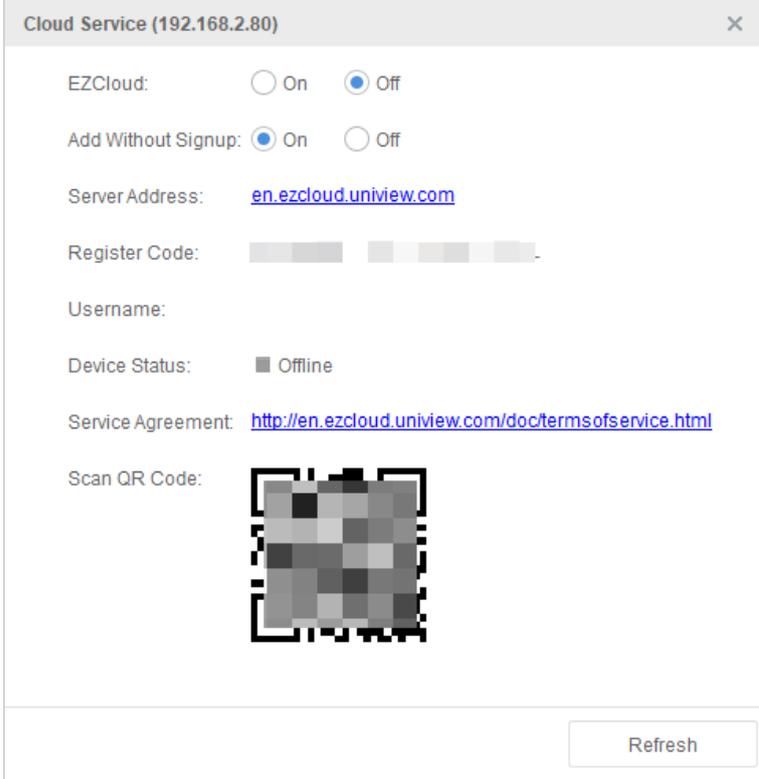
At the bottom center of the dialog box is a blue button labeled 'Close'.

3.2.3 Configure Cloud Service

Enable/disable cloud service and the add without signup function.

- After enabling the cloud service, you can add the device to your cloud account. Then, you can use the device by logging in to your cloud account in other applications, without the need to repeatedly add the device.
- When the add without signup function is enabled, you can add and use a device using the corresponding app, without the need to sign up for a cloud account.

Click  in the **Operation** column. A page as shown below appears.



- Enable or disable the cloud (EZCloud) service for the device.
When the cloud service is enabled, you can log in to your cloud account in the app and use the app to scan the QR code to add the device. If the device status is displayed as “online”, it indicates the device is connected to the cloud server and can be added to your cloud account.



NOTE!

After enabling or disabling the cloud service, you need to click **Refresh** to update the device status.

- Enable or disable the add without signup function for the device.
When enabled, you can use a corresponding app to scan the QR code below to add the device. This enables you to access the device remotely from a mobile phone without requiring you to sign up for a cloud account.



NOTE!

The add without signup function requires that the device has enabled cloud service and set a strong password.

- Delete device: To remove a device from your cloud account, click **Delete**. This operation does not affect using the device in the tool.

3.2.4 Access Device's Web Interface

Click  in the **Operation** column to open the login page on the device's web interface.

✓	Device Name	IP	Model	Version	MAC	Serial No.	Operation Status	Operation
<input checked="" type="checkbox"/>	ECS-B300-I1...	192.168.1.58	ECS-B300-I1	NVR-B12707.1.230627	6cf1:1e:1:85:10	210235C6FC119000010	Login succeeded	   
<input checked="" type="checkbox"/>	210235C6FC...	192.168.1.78	DSM3002-HI-X	B2102.11.5.340531	c4:79:00:07:89:14	210235C6FC111000006	Login failed (inc...	   

3.2.5 Delete Device

Select the devices you want to delete, and then click **Delete** on the top to delete the devices from the device list.

✓	Device Name	IP	Model	Version	MAC	Serial No.	Operation Status	Operation
<input checked="" type="checkbox"/>	ECS-B300-I1...	192.168.1.58	ECS-B300-I1	NVR-B12707.1.230627	6cf1:1e:1:85:10	210235C6FC119000010	Login succeeded	   
<input checked="" type="checkbox"/>	210235C6FC...	192.168.1.78	DSM3002-HI-X	B2102.11.5.340531	c4:79:00:07:89:14	210235C6FC111000006	Login failed (inc...	   

3.3 Change Device Password

Change the login password for a device. After the password is changed, you need to use the new password to access the device's web interface.

1. Select the target device, and then click **Change Password**.



NOTE!

If you select multiple devices to change passwords, make sure that the usernames and original passwords of the selected devices are the same.

2. On the page as shown below, enter the device's username, old password and new password.

Manage Device Password (192.168.1.78) X

* Username

* Old Password

* New Password

Weak Medium Strong

* Confirm

Email

3. (Optional) Enter an email address for the device. The entered email address can be used to receive a security code that is used to reset the device password in case you forget it.
4. Click **OK** to save the new password.

3.4 Modify Network Parameters

Modify the network parameters of a device manually or by using Dynamic Host Configuration Protocol (DHCP).

1. Select the device, and then click **Modify Network Parameters**.
2. Choose **Static** or **DHCP** on the **Modify IP** page.

Modify IP (192.163.3.92) X

Mode: Static DHCP

New IP:

Subnet Mask: Gateway:

✓	IP(old)	IP(new)	Subnet Mask	Gateway	Username	Password	Device S
<input type="checkbox"/>	192.163.3.92	192.163.3.92	255.255.255.0	192.163.3.1	admin	●●●●●●	Logged in

- **Static:** Enter the IP (for multiple devices, enter an IP address range), subnet mask, and gateway.
- **DHCP:** IP address will be assigned dynamically.

- You can double-click on cell to modify the new IP, subnet mask, gateway, username, and password as needed.



NOTE!

The username and password are for verification purposes. Incorrect username or password will cause the network parameter modification to fail. You can select devices and click **Edit Password** to modify login passwords in batches.

- Click **OK**. Check the **Device Status** column to see whether the modification is successful.

3.5 System Configuration

3.5.1 Restart Device

Select the devices you want to restart, click **System Config > Restart Device**, and then confirm.

✓	Device Name	IP	Model	Version	MAC	
<input checked="" type="checkbox"/>	ECS-B300-11...	192.168.1.58	ECS-B300-11	NVR-B1217.7.2.210627	6cf1:7ee5:5:10	21023...
<input checked="" type="checkbox"/>	210235C6FC...	192.168.1.78	DSM3002-HI-X	B2102.13.5.240531	c4:79:05:01:89:14	21023506FC1231000006

3.5.2 Restore Defaults

Restoring defaults means to restore all the parameters of a device to factory defaults except network, user, and time parameters.

Select the target devices, click **System Config > Restore Defaults**, and then confirm.

✓	Device Name	IP	Model	Version	MAC	
<input checked="" type="checkbox"/>	ECS-B300-11...	192.168.1.58	ECS-B300-11	NVR-B1217.7.2.210627	6cf1:7ee5:5:10	21023...
<input checked="" type="checkbox"/>	210235C6FC...	192.168.1.78	DSM3002-HI-X	B2102.13.5.240531	c4:79:05:01:89:14	21023506FC1231000006

3.5.3 Restore Factory Defaults

Restoring defaults means to restore all the parameters of a device to factory defaults.

Select the target devices, click **System Config > Restore Factory Defaults**, and then confirm.

✓	Device Name	IP	Model	Version	MAC	
<input checked="" type="checkbox"/>	ECS-B300-11...	192.168.1.58	ECS-B300-11	NVR-B1217.7.2.210627	6cf1:7ee5:5:10	21023...
<input checked="" type="checkbox"/>	210235C6FC...	192.168.1.78	DSM3002-HI-X	B2102.13.5.240531	c4:79:05:01:89:14	21023506FC1231000006

3.5.4 Device Maintenance

Device maintenance allows you to import device configurations, export diagnostic information and configurations.

1. Select devices, click **System Config > Maintenance**.



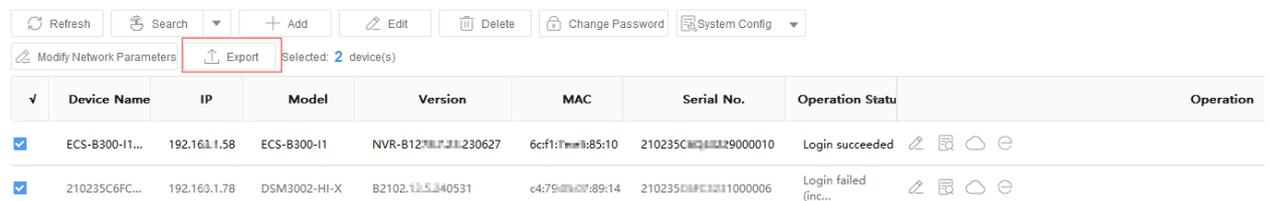
2. Perform the following operations as needed:

- Export diagnostic information, including log information and system configuration information. Click **Browse**, specify the destination, and then click **Export**. The diagnostic information will be saved as a .csv file to the specified location on your computer.
- Import configuration: Import a local configuration file into a device to replace the existing configuration file and change the device's configuration. Click **Browse**, locate the configuration file, and then click **Import**.
- Export configuration: Export the system configuration file of a device to a local folder for backup. Click **Browse**, specify the destination, and then click **Export**.

3.6 Export Device List

Export device information including device name, IP address, model, version information, MAC address, and serial number to a .csv file.

Select the devices from the list, click **Export**, choose the destination, and then click **Save** to export information of the selected devices.



3.7 Other Operations

3.7.1 Select Multiple Devices

Select devices one by one or select multiple devices by click-and-drag. The total number of devices and the number of devices selected will be displayed on top of the device list.

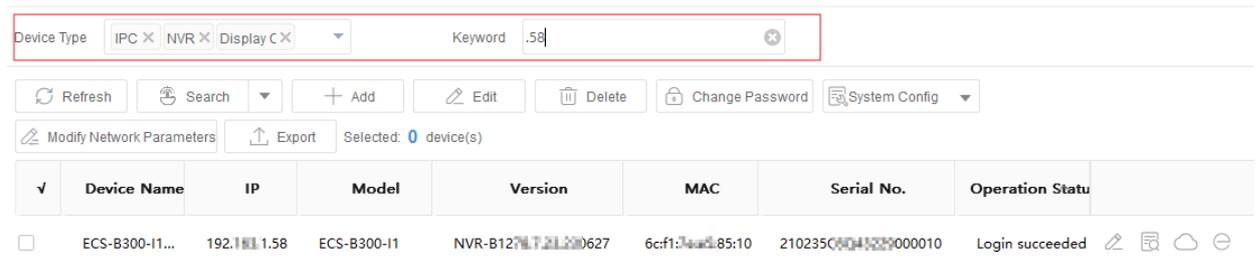
3.7.2 Refresh Device List

Click **Refresh** to refresh the login status and device information of the added devices.

If no devices are selected, this operation will apply to all devices in the list. If you have selected device(s), this operation will only apply to those selected devices.

3.7.3 Filter Devices

Select device types or enter keywords to filter the device list by device name, IP, device model, version information, serial number, and operation status. To clear the keywords you have input, click .



The screenshot shows a web interface for managing devices. At the top, there is a filter bar with 'Device Type' (IPC, NVR, Display C) and a 'Keyword' field containing '.58'. Below the filter bar are several action buttons: Refresh, Search, Add, Edit, Delete, Change Password, and System Config. There are also buttons for 'Modify Network Parameters' and 'Export', with a 'Selected: 0 device(s)' indicator. Below these is a table with columns: Device Name, IP, Model, Version, MAC, Serial No., and Operation Status. The first row of the table shows a device with IP 192.168.1.58, Model ECS-B300-11, Version NVR-B12717210627, MAC 6c:f1:7a:d3:85:10, Serial No. 2102350404320000010, and Operation Status 'Login succeeded'. There are also icons for editing, viewing details, cloud service, and web interface at the end of the row.

3.7.4 Sort Devices

Sort column contents in the device list in ascending or descending order by clicking a header: Device Name, IP, Device Model, Version Information, MAC, Serial Number, Operation, and Operation Status.

3.7.5 Clear Devices

In a custom project, you can click **Clear** in the upper-right corner to clear all devices under the project.

4 Device Configuration

4.1 Basic Operations

Click the corresponding icon the **Operation** column to perform the following operations:

-  : [View Device Details](#)
-  : [Configure Cloud Service](#)
-  : [Access Device's Web Interface](#)

4.2 Basic Configuration



NOTE!

This function is only available to IPCs, NVRs, and ECs.

1. Device Name

Change device name.



NOTE!

The device name appears only when one device is selected.

1. Enter the new name.

Device Name

2. Click **Save**.

2. Time

Choose a way to change the device's time zone and system time.

- Change manually: Manually change the time zone and system time.
- Sync with computer time: Click **Sync with Computer Time** to sync the device's system time with the computer's system time.

Time Zone

System Time

Auto Update On Off

- Enable **Auto Update**: Set the NTP server address, port, and update interval, and the device's system time will automatically synchronize with the NTP server time.

Time Zone

System Time

Auto Update On Off

NTP Server Address

NTP Port

Update Interval

3. Network

Modify a device's network configuration.



NOTE!

The network configuration appears only when one device is selected.

1. Configure the IP obtainment mode, network type, IP address, operating mode, subnet mask, and gateway. An NVR also allows the selection of a network interface. The specific configuration options are subject to the actual user interface.

IP Obtain Mode	<input type="text" value="Static IP Address"/>	Port Type	<input type="text" value="Copper Port"/>
IP Address	<input type="text" value="192 . 168 . 2 . 64"/>	Operating Mode	<input type="text"/>
Subnet Mask	<input type="text" value="255 . 255 . 0 . 0"/>		
Gateway	<input type="text" value="192 . 168 . 2 . 1"/>		

2. Click **Save**.

4. DNS

Configure the domain name server.

1. Modify the preferred DNS server address and alternate DNS server address.

The preferred DNS address is used when the preferred DNS is functioning properly. When the preferred DNS server is unavailable, the alternate DNS server address is activated automatically to ensure uninterrupted network operation.

Preferred DNS Server	<input type="text" value="8 . 8 . 8 . 8"/>
Alternate DNS Server	<input type="text" value="8 . 8 . 4 . 1"/>

2. Click **Save**.

5. Port

Configure device port.

1. Change the HTTPS port and the HTTP port.

HTTPS Port	<input type="text" value="443"/>
HTTP Port	<input type="text" value="80"/>

2. Click **Save**.

6. SNMP

SNMP is used to monitor device status and locate device faults.

1. Click **Enable** to enable SNMP.
2. Choose an SNMP type: SNMPv2 or SNMPv3.

➤ (Recommended) SNMPv3

When the network security level is low, SNMPv3 is recommended due to its high level of security. SNMPv3 uses username and password authentication and DES encryption to provide a higher level of security.

SNMP On Off

SNMP Type

Username

Authentication Mode

Authentication Password

Confirm Authentication Password

Encryption Mode

Encryption Password

Confirm Encryption Password

Parameter	Description
SNMP Type	The default is SNMPv3.
Authentication Password	Used to verify packets sent from the device.
Confirm Authentication Password	Re-enter the authentication password.
Encryption Password	Used to encrypt data sent from the device.
Confirm Encryption Password	Re-enter the encryption password.

➤ **SNMPv2**

SNMPv2 is allowed when the network security level is high. SNMPv2 uses community string authentication and thus is less secure than SNMPv3.

SNMP On Off

SNMP Type

Read Community

Parameter	Description
SNMP Type	Choose SNMPv2. A message appears to remind you of security risks. Click OK to proceed.
Read Community	Set SNMP read-only community name to enable the management end to verify messages from the device. After successful authentication, SNMP messages with that community name can be received.

7. ONVIF

Configure IPC authentication mode.

Authentication Mode Standard Compatible

- Standard: Uses the ONVIF-recommended authentication mode.
- Compatible: Uses the device's current authentication mode.

4.3 Advanced Configuration

Advanced configuration includes images, encoding format, OSD, audio, motion detection, and intelligent server parameters of IPCs and NVR channels. The parameters displayed may vary depending on the device model.



NOTE!

The EC encoder channel only supports the configuration of image, encoding, and OSD parameters.

1. Image

Configure image parameters include display effects, image enhancement, scene, exposure, smart illumination, and white balance.

Image Enhancement

Brightness 128

Saturation 128

Contrast 128

Sharpness 128

2D NR 128

3D NR 128

Image Rotation

Scenes

Mode

Select Scene

Exposure

Exposure Mode

Shutter

Gain(dB)

Slow Shutter On Off

Slowest Shutter

Compensation 0

Day&Night Mode

Day&Night Sensitivity

Day&Night Switching()

WDR

Operations:

- View display effects: You can view live video while adjusting image settings. The adjustments take effect immediately, allowing you to see the changes in real time. You can double-click the image to maximize it to full screen; double-click again to restore.
- Restore defaults: Click **Restore Default** to restore the default settings.
- Obtain configuration: Click **Get Configuration** to obtain the latest parameters from the device.
- To apply different scenes during different time periods, choose **Multiple Scenes** from the **Mode** drop-down list, set the scene type, schedule, illumination, and elevation for each scene, and then select **Enable Scene Schedule**. When the conditions set for the schedule, illumination, and elevation range are met at the same time, the selected scene will be applied. If the conditions are not met, the default scene will be used (with  displayed in the **Operation** column).
- Clicking  in the **Operation** column will set the current scene as the default scene.
- Copy to Channel: Copy image settings of a channel to other channels for quick configuration. Click **Copy To**, select parameters and channels, and then click **Save**.

Current Channel: Channel 002

Channels (192.168.2.101)

Parameters 2

All

Image Enhancement Exposure Smart Illumination White Balance

Channel 3

All

<input checked="" type="checkbox"/> Channel 2	<input type="checkbox"/> Channel 3	<input type="checkbox"/> Channel 4	<input type="checkbox"/> Channel 5
<input type="checkbox"/> Channel 6	<input type="checkbox"/> Channel 7	<input type="checkbox"/> Channel 9	<input type="checkbox"/> Channel 10
<input type="checkbox"/> Channel 12	<input type="checkbox"/> Channel 13	<input type="checkbox"/> Channel 14	<input type="checkbox"/> Channel 15
<input type="checkbox"/> Channel 16	<input type="checkbox"/> Channel 17	<input type="checkbox"/> Channel 18	<input type="checkbox"/> Channel 19
<input type="checkbox"/> Channel 20	<input type="checkbox"/> Channel 23	<input type="checkbox"/> Channel 24	<input type="checkbox"/> Channel 26
<input type="checkbox"/> Channel 29	<input type="checkbox"/> Channel 30	<input type="checkbox"/> Channel 34	<input type="checkbox"/> Channel 35
<input type="checkbox"/> Channel 36	<input type="checkbox"/> Channel 37	<input type="checkbox"/> Channel 39	<input type="checkbox"/> Channel 40

Save 4

Copy To 1

Get Configuration **Restore Default**



NOTE!

The copy function only applies to channels that are connected via the private protocol.

2. Encoding

Configure encoding parameters, including capture mode, main/sub/third stream.

Current Channel: Channel 001

Capture Mode: 2688×1520@60

Main

Compression: H.265

Resolution: 1920×1080(1080P)

Frame Rate(fps): 60

Bit Rate(Kbps): 1536 [128 ~ 16384]

Bit Rate Type: VBR

Image Quality: Bit Rate Quality 9

U-Code: Advanced Mode

Enable Third

Compression: H.265

Resolution: 352×288(CIF)

Frame Rate(fps): 25

Enable Sub

Compression: H.265

Resolution: 720×576(D1)

Frame Rate(fps): 25

Bit Rate(Kbps): 512 [128 ~ 16384]

Bit Rate Type: CBR

Image Quality: Bit Rate Quality 5

I Frame Interval: 50 [5 ~ 250]

GOP: IP

Smoothing: Clear Smooth

U-Code: Off

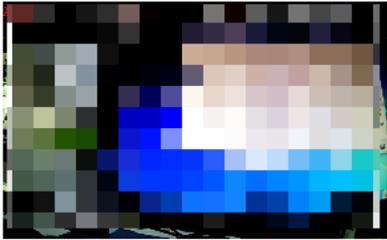
Operations:

- To apply the changes, click **Save**.
- To copy configuration to a channel: Copy the encoding configuration of a channel to other channels. See Copy to Channel.

3. OSD

Configure OSD parameters. OSD refers to contents (such as text) overlaid on video images. OSD configuration includes display effects, channel name, content style, OSD content, and display area.

Current Channel Channel 001



Display Style

Effect Background

Font Size Medium

Font Color #ffffff

Min.Margin Double

Date Format dd/MM/yyyy

Time Format hh:mm:ss tt

Copy To

√	No.	Position	Overlay OSD Content
<input checked="" type="checkbox"/>	1	Area2	222
<input checked="" type="checkbox"/>	2	Area3	222
<input checked="" type="checkbox"/>	3	Area4	222
<input checked="" type="checkbox"/>	4	Area5	222
<input checked="" type="checkbox"/>	5	Area5	2222
<input type="checkbox"/>	6	Area6	
<input type="checkbox"/>	7	Area7	
<input type="checkbox"/>	8	Area8	

Overlay Area2

X 50 Y 0 Aligning Left



NOTE!

For EC encoder channels, the Channel Name option is not available in the OSD content list.

Operations:

- View display effects: You can view live video while adjusting image settings. The adjustments take effect immediately, allowing you to see the changes in real time. You can double-click the image to maximize it to full screen; double-click again to restore.
- Add or delete OSD: Adjust the OSD style on the left, and enter the OSD content in the box on the right. The checkbox is automatically selected for the OSD content. To delete an OSD, clear the checkbox or clear the OSD content.
- Adjust OSD position: The position of each OSD is adjustable. Click a row on the right side, the coordinates of the OSD are displayed. Adjust the position as needed to avoid overlap.
- Use the copy function to copy the OSD configuration of an NVR channel to other channels of the NVR. See Copy to Channel.

4. Audio

Configure audio parameters, including audio input, audio input gain, encoding format, and sampling rate.



NOTE!

NVR channels do not support audio configuration.

Audio Input On Off

Audio Input Gain [0 ~ 255]

Encoding Format

Sampling Rate(KHz)

5. Motion Detection

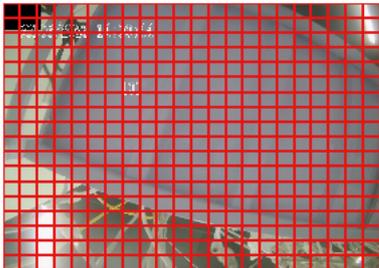
Configure motion detection parameters. Motion detection is used to detect motion within the detection area during a specified time period. Motion detection configuration includes:

- Enable or disable motion detection
- Draw detection area
- Configure arming schedule
- Configure alarm linkage (alarm-triggered actions)

Current Channel

Motion Detection On Off

[Detection Area](#) [Arming Schedule](#) [Trigger Actions](#)



Sensitivity
Low
High
88

 Draw Area

 Clear All

Some parameters are described below.

Item	Description
Detection Area	You can specify detection areas by drawing on the image. The red grid indicates the detection area. Click Draw Area to start drawing, and click Finish Drawing when you have finished.
Sensitivity	The higher the sensitivity, the smaller the detectable pixels, and it is easier to trigger detection rules, but the false alarm rate will also increase accordingly. The specific value should be determined according to the actual scene or test.

Intelligent Server

Server IP

Server Port

Platform Communication Type

Device ID

Username

Platform Access Code

Video&Image Database Settings

Coordinate Mode

Connection Mode

Report Data Type Motor Vehicle Non-Motor Vehicle Person Face

GAT 1400 Parameter Description

Item	Description
Device ID	Enter a protocol-compliant number, where, digits 11-13 must be 119.
Username	Username that the device uses to access the upper-level platform.
Platform Access Code	Password that the device uses to access the upper-level platform.
Coordinate Mode	Indicate coordinates of the detection object. The percentage mode is recommended. <ul style="list-style-type: none"> ● (Recommended) Percentage mode: It specifies the range of 0-10000 for the x and y axes and uses it as a coordinate system to determine the detection object's position in the image. ● Pixel mode: It reports the coordinates of the horizontal and vertical pixels of the detection object in the image to determine the detection object's position in the image. ● Normalized mode: It specifies a range of 0-1 for x and y axes and uses it as a coordinate system to determine the detection object's position in the image.
Connection Mode	<ul style="list-style-type: none"> ● Short Connection: Implemented by the standard HTTP protocol, and the connection mode used between devices and the upper-level platform is determined by the upper-level platform. ● Standard: Used only when the device is connected to a Uniview server.
Report Data Type	Select the types of data to be reported: motor vehicle, non-motor vehicle, person, and face.

4.4 Modify Device Names

Change device names in batches by importing a .csv file containing the modified device names. You need to export a file containing the current device names first.

1. Select the target devices, click **Modify Device Name**. A page as shown below appears.
2. Click **Export** to export a template file containing information of the selected devices, including IP, serial number, device type, and device name.

3. Modify the device names in the file, and then save the changes.
4. Click **Browse** to select the file.
5. Click **OK**. The current device names will be replaced by the device names contained in the imported .csv file.

4.5 Modify OSDs

Change device OSDs in batches by importing a .csv file containing the modified OSD configuration. You need to export the current OSD configuration first.



NOTE!

Only IPCs and EC encoders support changing OSDs in batches.

1. Select the target devices, click **Modify OSD**. A page as shown below appears.
2. Click **Export** to export a template file containing the current OSD configuration of the selected devices.

3. Modify the OSD configuration in the file, and then save the changes.
4. Click **Browse** to select the file.
5. Click **OK**. The current OSDs will be modified based on the OSD configuration contained in the imported file.

4.6 Building Configuration

Import a template to configure location linkage relationships for door stations, indoor stations, zone stations, and management stations in batches. After configuration, the device can conduct video intercom with devices it is linked with.

1. Ensure that door stations, indoor stations, and zone stations have been added to the system (management stations don't need to be added beforehand; their locations will be configured based on their relation with other devices).
2. Complete the information in the template.
 - (1) Click **Building Config > Download Template** to download the template locally.
 - (2) Fill in the device and location information in the template.

Serial No.	IP(*)	Subnet Mask(*)	Gateway(*)	Device Type(IndResidential)	Phase	Building	Unit	Room	Extension Station
	192.16	255.255.255.0	192.169.17.	Door Station	1	1	1		0
	192.16	255.255.255.0	192.169.17.	Indoor Station	1	1	1	1	0



NOTE!

- Items marked with an asterisk (*) are required.
- Device serial number is optional.
 - If the serial number is provided, the device will be matched based on it. If the serial number in the template matches an added device but has different network information, the device's network information will be modified according to the template.
 - If the serial number is not provided, the device will be matched based on IP address.
- Device type must be one of the types listed in the template header.
- Location information requirements:
 - Management station: Residential Compound/Phase are required; leave other fields blank.
 - Zone station: Residential Compound/Phase are required; Extension Station is optional; leave other fields blank.
 - Door station: Residential Compound/Phase/Building/Unit are required; Extension Station is optional; leave other fields blank.
 - Indoor station: Residential Compound/Phase/Building/Unit/Room are required; Extension Station is optional.

(3) Save the modified template.

3. Import the template.

- (1) Select devices in the list that you want to import location information for (must be devices listed in the template).
- (2) Click **Building Config > Import**. Upload the modified template from local. The import result is displayed.
- (3) When imported successfully, the operation status will be displayed as "Related devices configured successfully".

The screenshot shows the 'Building Config' interface with a table of devices. The 'Import' button is highlighted with a red circle and the number '2'. The table has columns for Device Name, IP, Model, Version, MAC, Serial No., and Operation Status. Two devices are selected with checkboxes, and their 'Operation Status' is 'Related devices configured successfully', which is also highlighted with a red circle and the number '3'.

Device Name	IP	Model	Version	MAC	Serial No.	Operation Status
ET-B33H-M@R	192.169.17.238	ET-B33H-M	QPTS-B25@15.8.WorkM...	6cf179a7c2818	210235C5H@1A000129	Related devices configured successfully.
EI-3715-H-ZD...	192.169.17.239	EI-3715-H-ZD	VIC-B32@17.231130	c47999473630	210235CT@00000015	Related devices configured successfully.

**NOTE!**

To modify location information, update the template locally and re-upload it.

4.7 Server Config

Change the server configuration for IPC(s) by importing a .csv file containing the modified server configuration. You need to export the current server configuration first.

1. Select the IPC(s) for which you want to modify the server configuration, click **Server Config**, and then select **Management Server** or **Intelligent Server**.
2. Export the current device configuration information into a .csv file.
 - **Management Server:** Select the management protocol, and click **Export**.

Management Server ×

Protocol

Export Config

Import File

- **Intelligent Server:** Select the platform communication type, and click **Export**.

Intelligent Server ×

Platform Communication

Export Config

Import File

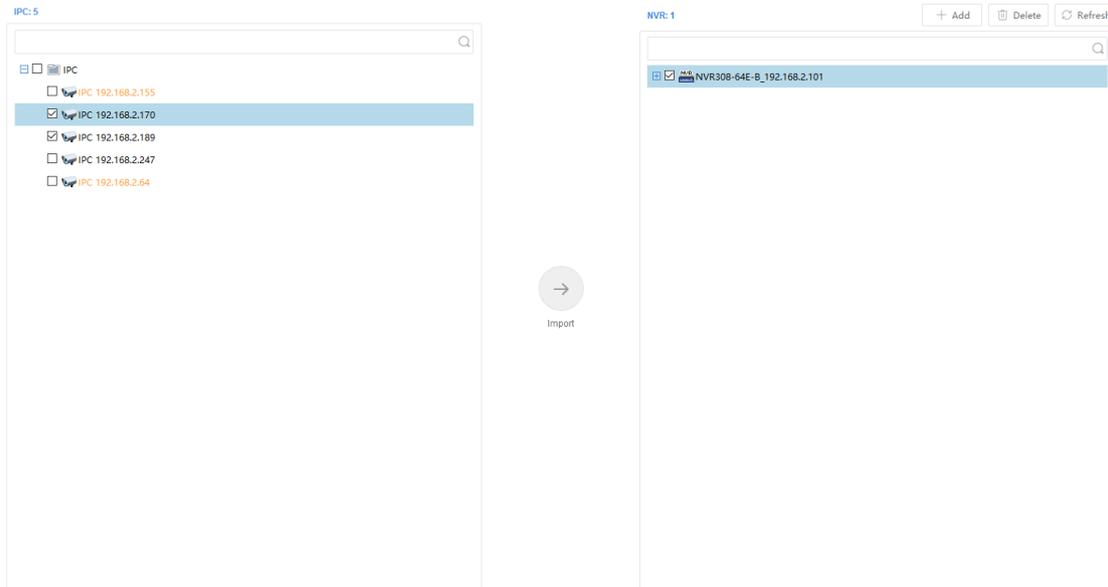
3. After modifying the file locally, click **Browse** to select the modified file.
4. Click **OK**. After importing successfully, the server configuration of the device will be modified based on the server configuration contained in the imported file.

5 NVR Channel Management

Add or delete NVR channels.

5.1 Add NVR Channel

1. Click the NVR Channel Management tab on the main page.
2. Choose a way to add NVR channels:
 - **Select and add:** Select the target IPCs in the IPC list, select the target NVR in the NVR list, and then click **Import**. The selected IPCs will be added as channels to the specified NVR.



- **Add manually:** Select the target NVR, click **Add**. On the pop-up page, complete information for the IPC you want to add, and then click **OK**. The IPC will be added as a channel to the NVR.



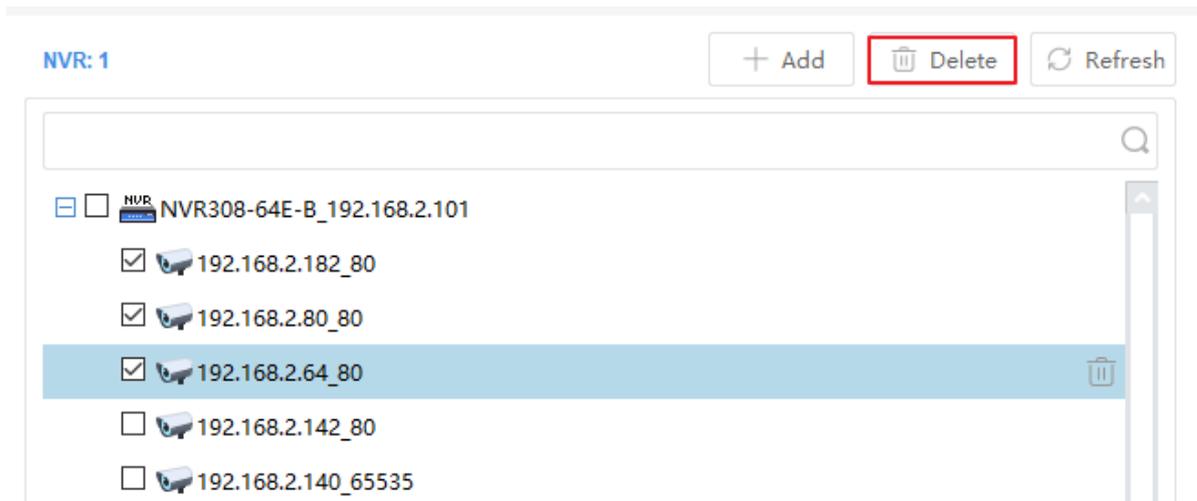
NOTE!

- In the IPC list, orange indicates IPCs that have been added to the NVR.
 - In the NVR list, blue indicates the newly added channels.
-

5.2 Delete NVR Channel

Delete NVR Channel

- **Delete channels in batches:** Select multiple channels under an NVR, and then click **Delete**. The selected channels will be deleted.



- Delete one channel: Hover over the channel you want to delete, and then click  to delete it.



6 Capacity Calculation

Calculate the allowed recording time or required hard disk space to facilitate capacity configuration.

6.1 Add Devices for Calculation

1. Click the **Calculation** tab.
2. Choose a way to add devices for calculation:
 - Click **Add**. On the page as shown below, configure the parameters as needed, and then click **OK**. The tool will calculate based on the settings you provided.

Add
✕

Channel Number

Compression

Resolution

Frame Rate

U-Code

Environmental Complexity

Bit Rate(Kbps)

Best Bit Rate(Kbps)
4096

- Click **Search**, and then select the devices for which you want to calculate. The tool will calculate based on the actual configuration of the selected devices.

3. Repeat the above steps to add all the devices you need.

+ Add
✎ Edit
🗑 Delete
🔍 Search to Add

✓	Compression	Channels	Resolution	Frame Rate(fps)	Bit Rate(Kbps)	Total Bandwidth(Kbps)
<input checked="" type="checkbox"/>	H.264	1	1920×1080(10...	25	4096	4096

6.2 Calculate Retention Time

Select the devices from the list, and then click the **Calculate Retention Time** tab on the right. Choose **Disk Mode** or **RAID Mode**. The tool will calculate retention time for the selected mode.

- Disk mode: Set the daily recording time and disk capacity. The number of days allowed for recording will be displayed below.

Calculate Days

Calculate Disks

Daily Recording Time:

24 Hour(s)

Space Needed: 42.2 GB

Disk Mode

RAID Mode

Disk Capacity:

2 TB GB

Usable Space: 1862.6 GB

Recording Time:



- RAID mode: Set the daily recording time, RAID type (0/1/5/6), RAID disk capacity and quantity. The number of days allowed for recording will be displayed below.

Calculate Days Calculate Disks

Daily Recording Time:
 24 Hour(s)
Space Needed: 42.2 GB

Disk Mode RAID Mode

Disk Capacity:
 TB GB

RAID Type:

RAID Disks:

Usable Space: 1862.6 GB

Recording Time:



6.3 Calculate Disks Needed

Select devices from the list, and then click the **Calculate Needed Disks** tab on the right. Choose **Disk Mode** or **RAID Mode**. The tool will calculate the required number of disks for the selected mode.

- Disk mode: Set the retention days, daily recording time, disk capacity. The required number of disks will be displayed below.

Calculate Days

Calculate Disks

Retention Time:

1 Day(s)

Daily Recording Time:

24 Hour(s)

Space Needed: 42.2 GB

Disk Mode

RAID Mode

Disk Capacity:

2 TB GB

Disks Needed:

Usable Space: 1862.6 GB



- RAID mode: Set the daily recording time, retention days, RAID disk capacity, and RAID type. The required number of RAID disks will be displayed below.

Calculate Days **Calculate Disks**

Retention Time:
 Day(s)

Daily Recording Time:
 24 Hour(s)

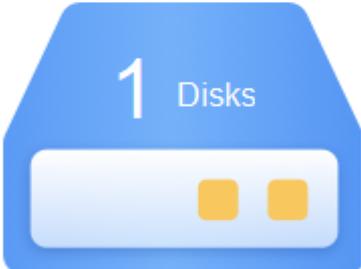
Space Needed: 42.2 GB

Disk Mode **RAID Mode**

Disk Capacity:
 TB GB

RAID Type:

RAID Disks: Usable Space: 1862.6 GB



6.4 Other Operations

Edit or delete the devices that have been added for calculation.

Edit

1. Select the devices you want to edit, and then click Edit.

	Compression	Channels	Resolution	Frame Rate(fps)	Bit Rate(Kbps)	Total Bandwidth(Kbps)
<input checked="" type="checkbox"/>	H.264	1	1920×1080(10...	25	4096	4096

2. Modify the parameters as needed.
3. Click **OK**.

Delete

Select the devices you want to delete, and then click **Delete**.

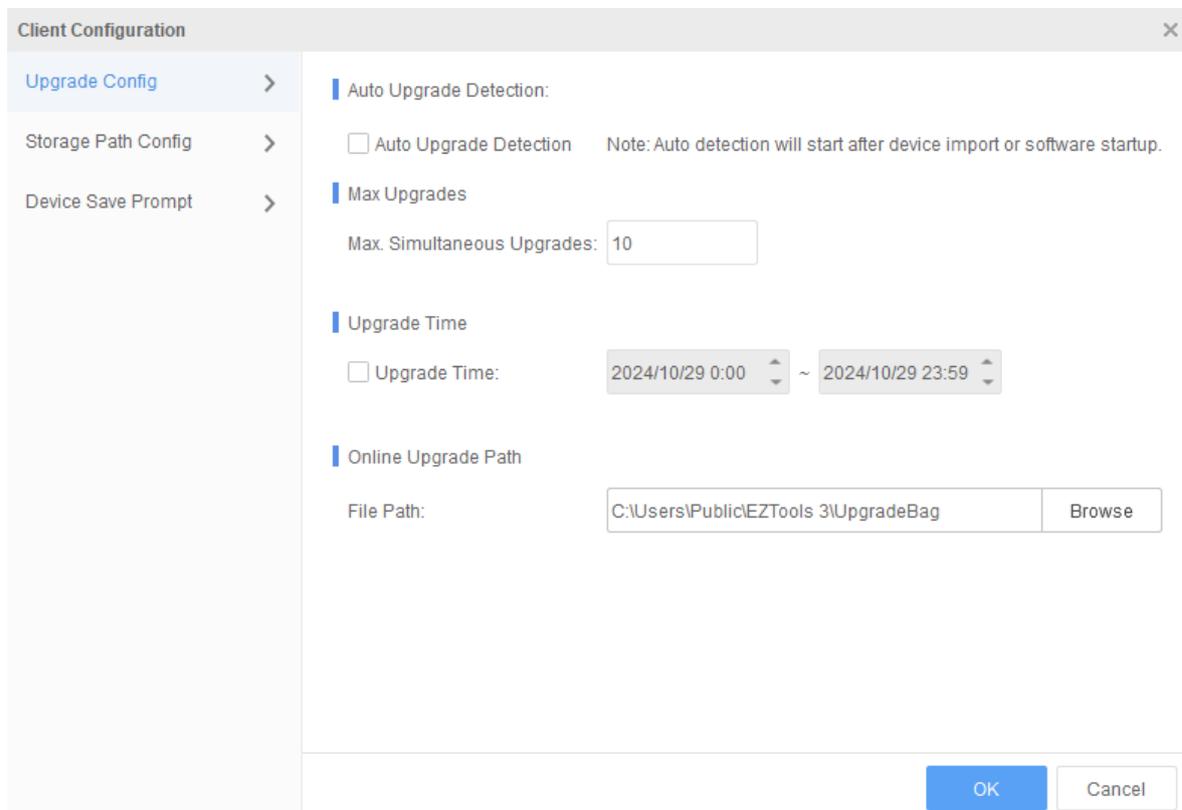
7 Upgrade Center

Upgrade versions for devices and channels.

7.1 Upgrade Configuration

Set the maximum number of devices that can be upgraded simultaneously and an upgrade period.

1. Click  in the top right corner. A page as shown below appears, select **Upgrade Config** tab.



The screenshot shows a 'Client Configuration' dialog box with a close button (X) in the top right corner. The 'Upgrade Config' tab is selected in the left sidebar. The main area contains the following settings:

- Auto Upgrade Detection:** A checkbox labeled 'Auto Upgrade Detection' is unchecked. A note below it reads: 'Note: Auto detection will start after device import or software startup.'
- Max Upgrades:** A label 'Max. Simultaneous Upgrades:' is followed by a text input field containing the number '10'.
- Upgrade Time:** A checkbox labeled 'Upgrade Time:' is unchecked. To its right are two date-time pickers: the first is set to '2024/10/29 0:00' and the second to '2024/10/29 23:59', with a tilde (~) between them.
- Online Upgrade Path:** A label 'File Path:' is followed by a text input field containing 'C:\Users\Public\EZTools 3\UpgradeBag' and a 'Browse' button to its right.

At the bottom right of the dialog box are two buttons: 'OK' (highlighted in blue) and 'Cancel'.

2. Configure the following parameters.
 - **Auto Upgrade Detection:** When selected, in a WAN environment, the system will automatically detect version upgrades for devices after device import or software startup.
 - **Max. Simultaneous Upgrades:** Enter the number of devices that can be upgraded simultaneously. The greater the number, the higher the network requirements. The default is 10.
 - **Upgrade Time:** When selected, the upgrade will begin during the specified time period; otherwise, the upgrade will start immediately. If an upgrade period is specified, make sure the tool is running during that period. Otherwise, the upgrade will fail.



NOTE!

Only 1 scheduled upgrade task can be saved at a time. If there are multiple upgrade tasks, the previous ones will be overwritten.

- Online Upgrade Path: Click **Browse**, and then specify the download destination for the upgrade packages.

3. Click **OK**.

7.2 Solution Upgrade

Upgrade the versions of devices within the solution based on the solution matching relationship. This function is only available for devices that have been added to the client.



NOTE!

- Upgrades are supported for IPCs and NVRs that have been added to the client.
 - If UMS is added to the client, devices connected to UMS via the private protocol will be automatically synced to the client, allowing for upgrade. However, upgrading UMS is not supported.
-

7.2.1 Employment Scenario (WAN)

During the initial employment, you must first manually select the solution and version number. The system will then automatically retrieve the solution matching table, allowing you to upgrade your devices.

1. Select an upgrade mode.
 - **Smart Upgrade:** Upgrades the device to the highest solution version if the current device version is lower than the **lowest solution version**.
 - **Full Upgrade:** Upgrades the device to the highest solution version if the current device version is lower than the **highest solution version**.
2. Choose the solution and version number to retrieve the solution matching table, which includes the device model, lowest version, and highest version.



NOTE!

Only manageable device types are displayed in the matching table.

1 2
Select Mode & Solution Device Upgrade

Select Mode & Solution Note: Please choose an upgrade mode and solution to upgrade your devices.

*Select Upgrade Mode Smart Upgrade Full Upgrade

*Select Solution *Select Solution Version

Guard Solution Description

Solution Matching Table Note: Only manageable device types are displayed in this table.

Guard Solution 1.0 [View Version Details](#)

Model	Upgradeable Device Count	Lowest Solution Version	Highest Solution Version
HIC98442-IR	1	QIPC-B9102.3.1.231120	QIPC-B9102.3.3.241120
IPC-B2A5-IR	1	GIPC-B6203.13.8.231008	GIPC-B6203.13.7.240429
IPC-H244	2	GIPC-B6207.2.60.220406	GIPC-B6207.1.75.220406
IPC-S245-FW	1	GIPC-B6203.13.8.231008	GIPC-B6203.13.7.240429
IPC21285B-ADF28KMC-I0	2	GIPC-B6203.13.8.231008	GIPC-B6203.13.7.240429
IPC675LFW-AX4DUPKC-VG	1	GIPC-B6202.13.66.240111	GIPC-B6202.13.66.240111
IPC9312I-FW-AUKCF28-2F60-DT	1	CIPC-B2302.9.16.231205	CIPC-B2302.9.16.231205
NVR302-09E2-IQ	80	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305

[Next](#)

3. Click **Next**. The system will automatically detect upgradeable devices.

1 2
Select Mode & Solution Device Upgrade

Total 2553 device(s)

✓	Device/Channel Name	IP/Channel	Model	Current Version	Target Version	Status
<input type="checkbox"/>	192.168.1.112	192.168.1.10	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login failed (device restarting or incorrect ...)
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.11	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.100	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.101	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.102	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.103	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.104	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.105	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.115	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.116	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.128	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	192.168.1.112	192.168.1.133	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded
<input type="checkbox"/>	NVR302-09E2-IQ	192.168.1.134	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login succeeded

[Back](#) [Download Upgrade](#) [Download and Upgrade](#)

4. Select device(s) and choose an option.

● **Option 1** (Download and Upgrade): Direct upgrade

- (1) Click **Download and Upgrade** and confirm the prompt to maintain network connection. The upgrade begins.

(2) On the **Upgrade Result** page, view the device's current version, target version, and upgrade status (waiting for upgrade, upgrade progress, failed, succeeded).

✓	Device/Channel Name	IP/Channel	Model	Current Version	Lowest Solution Version	Highest Solution Version	Target Version	Oper	Status
<input type="checkbox"/>	[8MP] IPC21285B-ADF28KMC-10	192.168.1.112	IPC21285B-ADF28K...	GIPC-B6203.13.7.240429	GIPC-B6203.13.8.231008	GIPC-B6203.13.7.240429	GIPC-B6203.13.7.240429		Waiting for upgrade
<input type="checkbox"/>	HIC98442-IR@L-X40-Z28-X5-VH	192.168.1.110	HIC98442-IR	QIPC-B9102.1.68.230802	QIPC-B9102.3.1.231120	QIPC-B9102.3.3.241120	QIPC-B9102.3.3.241120		Upgrade failed The version server does not have matr...

(3) If the upgrade fails, you can click  for the device or select device(s) and click **Retry Upgrade**.

- **Option 2 (Download Upgrade):** Download the upgrade package only, and upgrade the device manually later

(1) Click **Download Upgrade** and confirm the prompt to maintain network connection. The download begins.

(2) The download progress is displayed in the upper-right corner of the page.

(3) On the **Download Result** page, view the device's current version, target version, and download status (waiting for download, failed, completed).

✓	Device/Channel Name	IP/Channel	Model	Current Version	Lowest Solution Version	Highest Solution Version	Target Version	Oper	Status
<input type="checkbox"/>	192.168.1.112	192.168.1.112	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305		Download failed The version server does not have matr...
<input checked="" type="checkbox"/>	IPC-S245-FW@PAEK-IRB-Z-CA-VF	192.168.1.112	IPC-S245-FW	GIPC-B6203.13.7.240429	GIPC-B6203.13.8.231008	GIPC-B6203.13.7.240429	GIPC-B6203.13.7.240429		Download completed

- Once the download completes, you can click **Upgrade** to start the upgrade immediately, or click **Close** to exit and upgrade later. To upgrade later, follow the steps in **Option 1** (the upgrade package won't be downloaded again).

Download Result
✕



Succeeded!

Download: 5 succeed, 0 failed.

Saved To: [C:\Users\Public\Documents\Upgrade\...](#)

Note: The upgrade configuration file will also be downloaded.

Close
Upgrade

- For devices that failed to download, you can view the failure cause. To retry the download, click  for the device or select device(s) and click **Retry Download**.

7.2.2 Deployment Scenario (LAN)

For devices on a LAN, you can switch your computer's network to a WAN to download the upgrade package first, and then perform the upgrade within the LAN.

Steps:

1. Connect your computer to the LAN and add the device to the client.
2. Connect your computer to the WAN. Follow **Step 4** in [Deployment Scenario \(WAN\)](#), and click **Download Upgrade**. Once the download completes, do not proceed further or close the pop-up window.

Download Result
✕

Succeeded!

Download: 5 succeed, 0 failed.

Saved To: [C:\Users\Public\Documents\Upgrade\GuardSolution...](#)

Note: The upgrade configuration file will also be downloaded.

Close
Upgrade

3. Reconnect to the LAN and click **Upgrade** in the **Download Result** window.



NOTE!

If you accidentally closed the pop-up window in Step 2, you can click **Check for Updates** above the download result list, select device(s), and then click **Download an Upgrade** (the upgrade package won't be downloaded again).

7.2.3 Non-Deployment Scenario (WAN)

In non-deployment scenarios where solution configuration information is saved locally, you can view the matching table used in the last version upgrade, get the latest solution version, and then upgrade your devices.

1. Go to **Solution Upgrade**.
2. (Optional) Click **Change Solution** to modify the upgrade mode, solution name, and version number. After modification, you can save and back (proceed to Step 3) or check for updates directly (proceed to Step 5).
3. Click **Get Latest Version** next to the solution name to get and update to the latest released version of the solution.



NOTE!

If you prefer not to use the latest solution version, you can directly click **Check for Updates** above the device list to check the current device version (skip to Step 5).

Selected Mode & Solution: Smart Upgrade
Guard Solution (1.0) [Get Latest Version](#)
Change Solution

Guard Solution Description

Note: UMS devices cannot be upgraded.

Status: All Keyword:

Check for Updates
Export Upgrade Report
Retry Download
Retry Upgrade
Total: 6; Upgrading: 0; Downloading: 0.

✓	Device/Channel Name	IP/Channel	Model	Current Version	Lowest Solution Version	Highest Solution Version	Target Version	Oper	Status
<input type="checkbox"/>	NVR302-09E2-IQ	192.167.11.11	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305		Download completed
<input type="checkbox"/>	NVR302-09E2-IQ	192.167.11.100	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305		Upgrade succeeded
<input type="checkbox"/>	192.167.11.112	192.167.11.133	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305		Upgrade succeeded
<input type="checkbox"/>	192.167.11.112	192.167.11.25	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305		Upgrade succeeded
<input type="checkbox"/>	192.167.11.112	192.167.11.36	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305		Upgrade succeeded
<input type="checkbox"/>	192.167.11.112	192.167.11.37	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305		Upgrade succeeded

4. After retrieving the latest solution version, select device(s), and click **Check for Updates** to check the device version.

Solution Upgrade ×

Guard Solution 1.0 View Version Details

✓	Model	Upgradeable Device Count	Lowest Solution Version	Highest Solution Version
<input checked="" type="checkbox"/>	HIC98442-IR	1	QIPC-B9102.3.1.231120	QIPC-B9102.3.3.241120
<input checked="" type="checkbox"/>	IPC-B2A5-IR	1	GIPC-B6203.13.8.231008	GIPC-B6203.13.7.240429
<input checked="" type="checkbox"/>	IPC-H244	2	GIPC-B6207.2.60.220406	GIPC-B6207.1.75.220406
<input checked="" type="checkbox"/>	IPC-S245-FW	1	GIPC-B6203.13.8.231008	GIPC-B6203.13.7.240429
<input checked="" type="checkbox"/>	IPC2128SB-ADF28...	2	GIPC-B6203.13.8.231008	GIPC-B6203.13.7.240429
<input checked="" type="checkbox"/>	IPC675LFW-AX4D...	1	GIPC-B6202.13.66.240111	GIPC-B6202.13.66.240111
<input checked="" type="checkbox"/>	IPC9312I-FW-AUK...	1	CIPC-B2302.9.16.231205	CIPC-B2302.9.16.231205
<input checked="" type="checkbox"/>	NVR302-09F2-IO	80	NVR-B3113.38.44.240305	NVR-B3113.38.44.240305

5. The system will automatically detect upgradeable devices. On the **Check for Updates** window, select device(s) you want to upgrade.

Check for Updates ×

Total 8 device(s) Please enter keywords

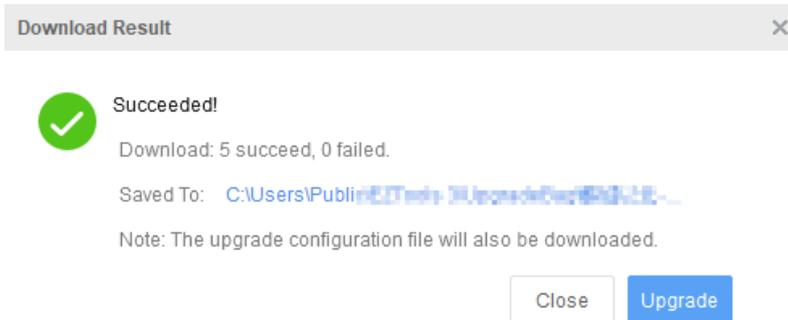
✓	Device/Channel Name	IP/Channel	Model	Current Version	Target Version	Status
<input checked="" type="checkbox"/>	HIC98442-IR@L-X40-Z28-X5-VH	192.167.10.30	HIC98442-IR	QIPC-B9102.1.68.230802	QIPC-B9102.3.3.241120	Login failed (devic...
<input checked="" type="checkbox"/>	IPC-B2A5-IR@PAEK-IR8-F80-VF	192.167.10.154	IPC-B2A5-IR	GIPC-B6203.13.7.240429	GIPC-B6203.13.7.240429	Login failed (devic...
<input checked="" type="checkbox"/>	IPC-H244@PEK-F60-PW-VG	192.167.12.80	IPC-H244	GIPC-B6207.1.75.220406	GIPC-B6207.1.75.220406	Login failed (devic...
<input checked="" type="checkbox"/>	IPC-S245-FW@PAEK-IR8-Z-CA-VF	192.167.11.42	IPC-S245-FW	GIPC-B6203.13.7.240429	GIPC-B6203.13.7.240429	--
<input checked="" type="checkbox"/>	[8MP] IPC2128SB-ADF28KMC-IO	192.167.10.50	IPC2128SB-ADF28KMC-IO	GIPC-B6203.13.7.240429	GIPC-B6203.13.7.240429	Login failed (devic...
<input checked="" type="checkbox"/>	IPC675LFW-AX4DUPKC-VG	192.167.10.5	IPC675LFW-AX4DUPK...	GIPC-B6202.13.2.231008	GIPC-B6202.13.66.240111	Login failed (devic...
<input checked="" type="checkbox"/>	IPC9312I-FW-AUKCF28-DT	192.167.10.28	IPC9312I-FW-AUKCF28...	CIPC-B2302.10.7.240426	CIPC-B2302.9.16.231205	Login failed (devic...
<input checked="" type="checkbox"/>	<input type="checkbox"/> 192.167.10.12	192.167.10.12	NVR302-09E2-IQ	NVR-B3113.37.20.230625	NVR-B3113.38.44.240305	Login failed (devic...

- Click **Download and Upgrade** to begin the upgrade immediately.
- Click **Download Upgrade** to download the upgrade package first, and upgrade the device manually later.

7.2.4 Non-Deployment Scenario (LAN)

For devices on a LAN, you can switch your computer's network to a WAN to download the upgrade package first, and then perform the upgrade within the LAN.

1. Connect your computer to the WAN. Follow **Step 5** in [Non-Deployment Scenario \(WAN\)](#), and click **Download Upgrade**. Once the download completes, do not proceed further or close the pop-up window.



2. Reconnect to the LAN and click **Upgrade** in the **Download Result** window.



NOTE!

If you accidentally closed the pop-up window in Step 1, you can click **Check for Updates** above the download result list, select device(s), and then click **Download and Upgrade** (the upgrade package won't be downloaded again).

7.2.5 Export Upgrade Report

On the **Upgrade Result** page, you can click **Export Upgrade Report** to export upgrade details in a table.

7.3 Custom Upgrade

Upgrade the version of devices or channels by choosing an upgrade mode below:

- **Template upgrade:** Uses a template that specifies paths to upgrade packages on your computer and uses them to upgrade different types of devices.
- **Online upgrade:** Obtains upgrade packages from the cloud to upgrade various types of devices.
- **File upgrade:** Uploads upgrade files to upgrade devices of the same type.

✓	Device/Channel Name	IP/Channel	Model	Serial No.	Current Version	Target Version	Status
<input type="checkbox"/>	IPC-E248-F1100-11000000	192.163.1.89	IPC-E248-F1100-11000000	210235C8C4112290000114	QIPC-B2202.10.7.240426		--
<input type="checkbox"/>	210235C8C4112290000000	192.163.1.78	DSN1002-FH-X	210235C8C4112290000006	B2102.13.5.240531		--
<input type="checkbox"/>	ECS-B100-F1100-11000000	192.163.1.58	ECS-B100-F1100-11000000	210235C8C4112290000010	NVR-B1278.7.23.230627		--

7.3.1 Upgrade Device

1. Template Upgrade

This mode uses a template file containing paths to the upgrade packages on your computer and uses these upgrade packages to upgrade devices of various types in batches.

Scenario 1: A local upgrade package is available

1. Select the devices you want to upgrade, and then click **Device Upgrade**.
2. Choose **Template File**.

Upgrade
✕

Upgrade Mode: Template File Online Upgrade File Upgrade

Check and Download:

Export Template:

File Path:

Note: This mode uses a template that specifies paths to upgrade packages on your computer and uses them to upgrade different types

Upgrade Config

Max Upgrades: 10

3. Click **Export** to export a template containing the basic information about the selected device. In the template file, enter paths to the upgrade packages on your computer.
4. Click **Browse** to locate the configured template file, and then click **Open** to import the template.
5. (Optional) Click . See [Upgrade Config](#).
6. Click **Upgrade**. The devices will be upgraded during the configured upgrade time.

Scenario 2: LAN device, no local upgrade package, a computer can switch networks

1. Connect your computer to the WAN. Select the devices you want to upgrade, click **Device Upgrade**, choose **Template File**, and then click **Check and Download** to download the upgrade package and template.
2. Connect your computer to the LAN. Import the upgrade template from the downloaded folder.

Scenario 3: LAN device, no local upgrade package, a WAN computer, a LAN computer

1. On the LAN computer, select the devices you want to upgrade, click **Device Upgrade**, choose **Template File**, and then click **Export** to export the device information template.
2. On the WAN computer, go to **Device Management > Add** to import the device information template to add devices. Then, go to the **Template File** page, click **Check and Download** to download the upgrade package and upgrade template.
3. Copy the downloaded folder to the LAN computer.
4. On the LAN computer, go to the **Template File** page to import the upgrade template.

2. Online Upgrade

This mode checks for updates for the connected devices and downloads upgrade packages (if updates are available) to your computer to upgrade devices of various types.

1. Select the devices you want to upgrade, and then click **Check for Updates**. The tool checks for updates for the selected devices. If updates are available, **Upgradable** will be displayed in the **Operation Status** column.
2. Select the upgradable devices, and click **Device Upgrade**.

Upgrade ×

Upgrade Mode: Template File Online Upgrade File Upgrade

Note: This mode obtains upgrade packages from the cloud to upgrade various types of devices.

Upgrade Config 

Max Upgrades: 10

Online Upgrade Path: C:\Users\Fred\OneDrive\Desktop\311\upgrades\

3. Choose **Online Upgrade**.
4. (Optional) Click . See [Upgrade Config](#).
5. Click **Upgrade**. The devices will be upgraded during the configured upgrade time.

3. File Upgrade

This mode allows upgrading devices of the same type by uploading upgrade files.

1. Select the devices you want to upgrade, and then click **Device Upgrade**.
2. Choose **File Upgrade**.

Upgrade
✕

Upgrade Mode: Template File Online Upgrade File Upgrade

File Path:

Note: This mode uploads upgrade files to upgrade devices of the same type.

Upgrade Config

Max Upgrades: 10

3. Click **Browse**, and then locate the upgrade packages on your computer.
4. (Optional) Click . See [Upgrade Config](#).
5. Click **Upgrade**. The devices will be upgraded during the configured upgrade time.

7.3.2 Upgrade Channel

Upgrade camera connected to an NVR (also known as NVR channels).

1. Select the NVR, click **Channel Upgrade**.
2. Select the channels you want to upgrade, and then click **OK**.
3. The remaining operations for upgrading a channel are the same as upgrading a device. See Upgrade Device for details.

7.3.3 Cancel Upgrade

If an upgrade task is scheduled, the upgrade time will be displayed at the top, and you can click **Cancel** behind it to cancel the task.

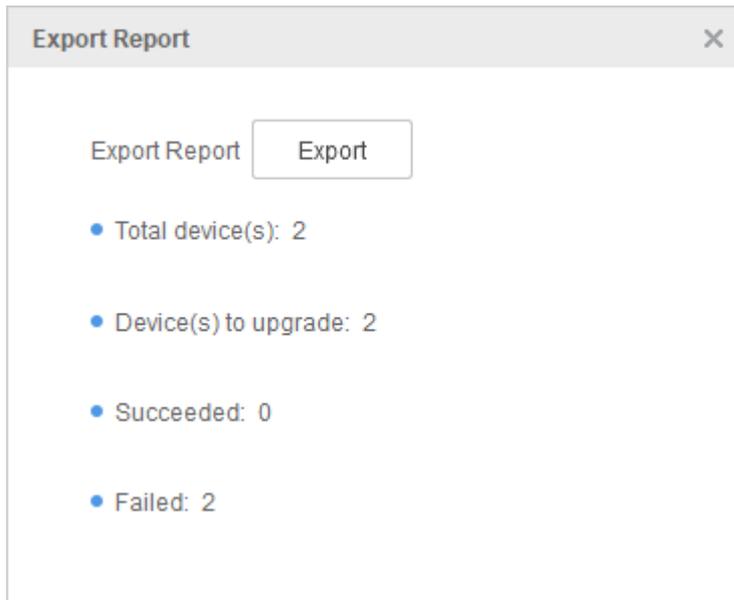


NOTE!

Only the pending upgrade tasks will be cancelled. If the upgrade task has already started, the ongoing tasks will remain unaffected.

7.3.4 Export Upgrade Report

1. Select the desired devices, and then click **Export Upgrade Report**. The **Export Report** page as shown below appears
2. View the total number of devices, the number of devices to be upgraded, and the number of successful or failed devices in the upgrade. To export the report, click **Export**.



8 Client Configuration

Click  in the top right corner, go to **Client Configuration** page.

Item	Description
Upgrade Config	See Upgrade Config .
Storage Path Config	<p>During the tool's operation, some files recording exceptions will be generated. Click Browse to select the storage path for these files, and click OK to save.</p> <p>Exception File Storage Path</p> <p>File Path: <input type="text" value="Public\Users\Tool\JVA\Bcon\BSP\Path"/> <input type="button" value="Browse"/></p>
Device Save Prompt	<p>Set whether to display a reminder to save devices from the default project before exiting the client.</p> <p>Note:</p> <p>Each time you enter the client, the system clears the devices in the default project and searches for new devices. If you have not saved the devices from the default project to a custom project, the existing devices in the default project will be lost.</p> <p>Don't Show Again</p> <p><input checked="" type="checkbox"/> Ask Every Time</p> <p>1. When enabled, you'll be asked whether to save the device(s) in the default project each time before exiting.</p> <p>2. When disabled, you won't be asked, and the device(s) in the default project won't be saved when exiting.</p>

9 Application Center

The application center provides a portal through which users can conveniently download, install, and upgrade other applications of our company.