

EZTools

User Manual

Manual Version: V1.24

Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

Notice

- The contents of this document are subject to change without prior notice.
- Best effort has been made to verify the integrity and correctness of the contents in this document, but no statement, information, or recommendation in this manual shall constitute formal guarantee of any kind, express or implied.
- The product appearance shown in this manual is for reference only and may be different from the actual appearance of your device.
- The illustrations in this manual are for reference only and may vary depending on version or model.
- This manual is a guide for multiple product models and so it is not intended for any specific product.
- Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides in our company.
- Use of this document and the subsequent results shall be entirely on the user's own responsibility.

Conventions

The following conventions apply in this manual:

- EZTools is referred to as the software for short.
- Devices that the software manages, such as IP camera (IPC) and network video recorder (NVR), are referred to as device.

| Convention | Description |
|----------------------|---|
| Boldface font | Commands, keywords, parameters and GUI elements such as window, tab, dialog box, menu, button, etc. |
| <i>Italic font</i> | Variables for which you supply values. |
| > | Separate a series of menu items, for example, Device Management > Add Device . |

| Symbol | Description |
|---|---|
|  WARNING! | Contains important safety instructions and indicates situations that could cause bodily injury. |
|  CAUTION! | Means reader be careful and improper operations may cause damage or malfunction to product. |
|  NOTE! | Means useful or supplemental information about the use of product. |

Contents

| | |
|--|----|
| 1 Introduction | 1 |
| 2 Upgrade..... | 1 |
| 3 Functions..... | 2 |
| Preparation | 2 |
| Search Devices..... | 2 |
| Log in to Devices..... | 3 |
| Management and Configuration..... | 4 |
| Manage Device Password | 4 |
| Change Device IP Address | 5 |
| Configure Device | 5 |
| Configure Channel..... | 9 |
| View Device Info..... | 15 |
| Export Device Info | 15 |
| Export Diagnosis Info..... | 15 |
| Import/Export Configuration | 16 |
| Restore Default Settings..... | 16 |
| Restart Device | 16 |
| Log in to the Web of a Device | 17 |
| Upgrade Device | 17 |
| NVR Channel Management | 19 |
| Cloud Service | 20 |
| Calculation..... | 21 |
| Tips for Usage | 24 |
| Select Devices..... | 24 |
| Filter Device List | 24 |
| Sort Device List..... | 25 |
| Customize Device List..... | 25 |
| Copy NVR Channel Configurations | 25 |
| Export and Import OSD Configurations of an IPC | 26 |

1 Introduction

This software is a tool used to manage and configure IPC, NVR, and display & control devices on a local area network (LAN). Major functions include:



NOTE!

For display & control devices, you can only perform login, password/IP change, local upgrade, and channel configuration (for EC only) operations.

| Item | Function |
|--|--|
| Basic Configuration | Configure the device name, system time, DST, network, DNS, port and UNP. Besides, Change Device Password and Change Device IP Address are also included. |
| Advanced Configuration | Configure channel settings including image, encoding, OSD, audio, and motion detection. |
| Upgrade Device | <ul style="list-style-type: none">• Local Upgrade: Upgrade devices using upgrade files on your computer.• Online Upgrade: Upgrade devices with Internet connection. |
| Maintenance | Import/Export Configuration , Export Diagnosis Info , Restart Device , and Restore Default Settings . |
| NVR Channel Management | Add/delete NVR channels. |
| Calculation | Calculate disk space and recording time required. |
| APP Center | Download, install and upgrade apps. |

Before you start, make sure the computer on which this software runs and the devices to manage are connected by network.

2 Upgrade

Check for updates, download and install the latest version.

2. A “New Version” prompt appears in the upper right corner if a new version is detected.



Click **New Version** to view details and download the new version.



Name: EZTools 2.0

Version: [B1103.2.0.0.190413](#) [Updates Available\(B1103.2.0.0\)](#)

You can choose to install immediately or later when the new version is downloaded. Clicking  in the upper right corner will cancel the installation.

- **Install Now:** Close the software and start installation immediately.
- **Install Later:** The installation will start after the user closes the software.

3.



Download completed. Choosing Install Now will close the software automatically.

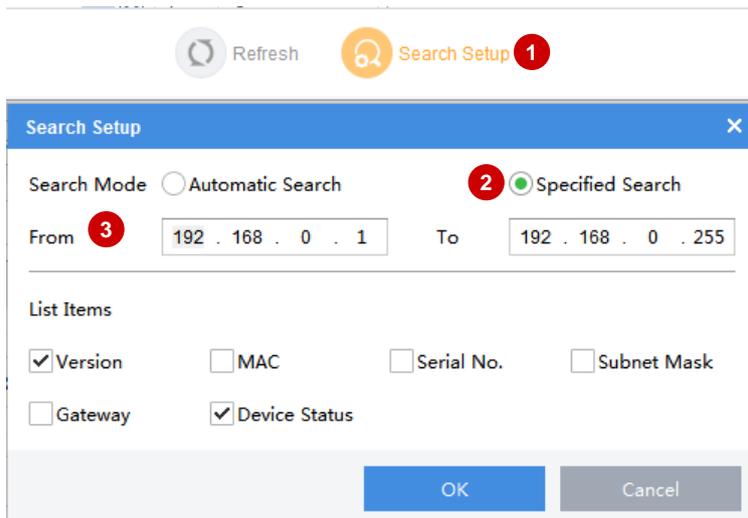
[Install Now](#) [Install Later](#)

3 Functions

Preparation

Search Devices

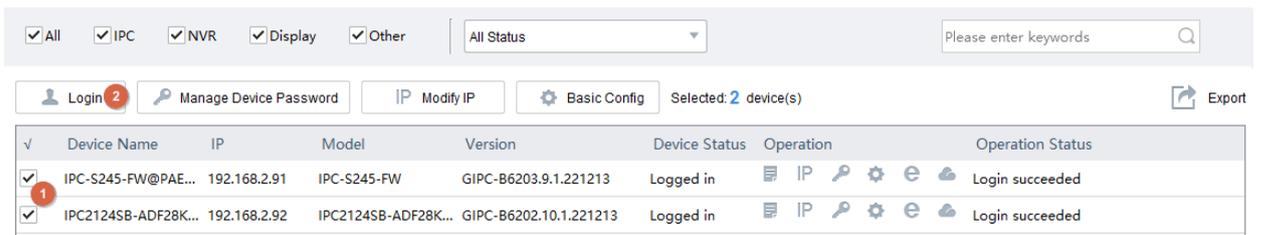
The software automatically searches for devices on the LAN where the PC resides and lists the discovered. To search a specified network, follow the steps as shown below:



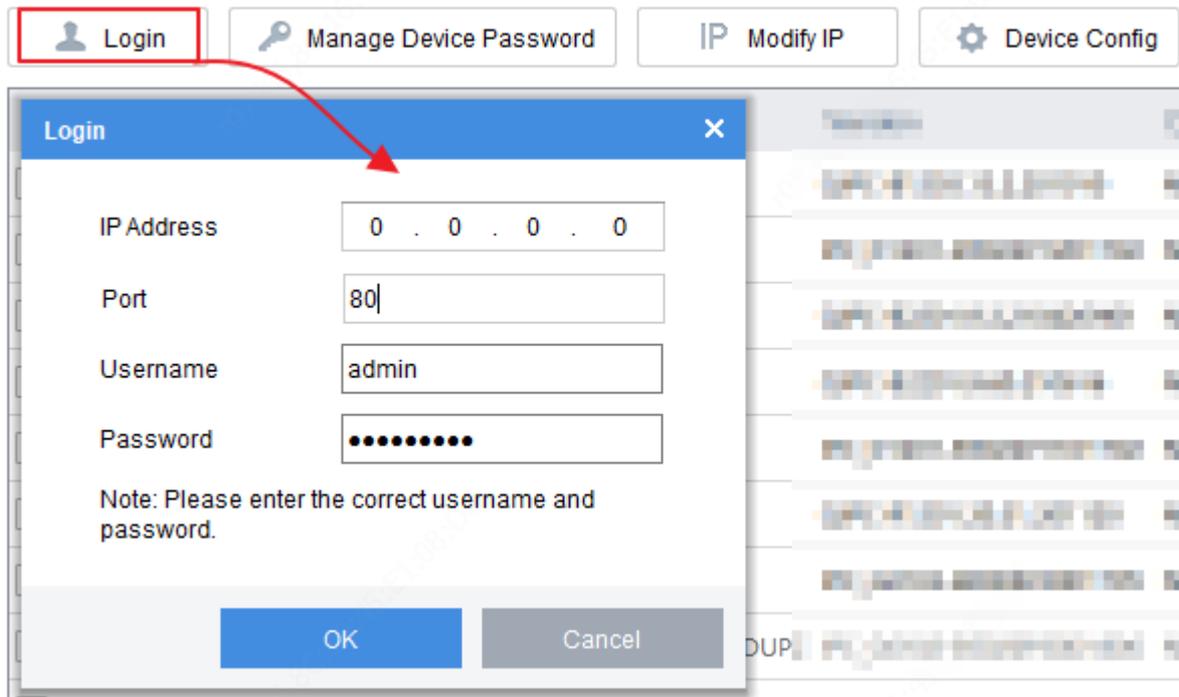
Log in to Devices

You need to log in to a device before you can manage, configure, upgrade, maintain or restart a device. Choose the following methods to log in to your device:

- Log in to device in the list: Select the device(s) in the list and then click the **Login** button on the top.



- Log in to device not in the list: Click **Login**, and then enter the IP, port, username and password of the device you want to log in to.

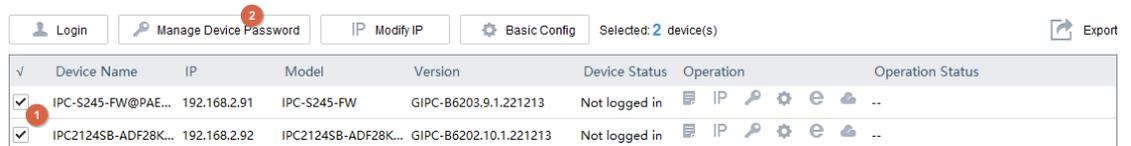


Management and Configuration

Manage Device Password

The default password is only intended for the first login. For security, please change the password when logged in. You can only change the admin's password.

1. Click **Basic Config** on the main menu.
2. Choose the following methods to change device password:
 - For a single device: Click  in the **Operation** column.
 - For multiple devices: Select devices, then click **Manage Device Password**.



3. In the pop-up window, enter the username, old password, new password, and confirm the password.

Manage Device Password (2 device(s) selected)
✕

* Username

* Old Password

* New Password

* Confirm

Email

OK
Cancel

(Optional) Enter the email in case you need to retrieve the device password.
Click **OK**.

4.

Change Device IP Address

Click **Basic Config** on the main menu.

1.
2.

Choose the following methods to change device IP:

- For a single device: Click **IP** in the **Operation** column.
- For multiple devices: Select the devices, and then click **Modify IP** on the top toolbar. Set the start IP in the **IP Range** box, and the software will automatically fill in other parameters according to the number of devices. Please make sure the username and password are correct.

Login
Manage Device Password
IP Modify IP 2
Basic Config
Selected: 2 device(s)

| Device Name | IP |
|--|----|
| <input checked="" type="checkbox"/> IPC-S245-FW@PAE... 15 | |
| <input checked="" type="checkbox"/> IPC2124SB-ADF28K... 15 | |

Modify IP (2 device(s) selected)
✕

IP Range 192 . 168 . 2 . 91 — 192 . 168 . 2 . 92

Subnet Mask 255 . 255 . 255 . 0

Gateway 192 . 168 . 2 . 1

| IP(old) | IP(new) | Subnet Mask | Gateway | Username | Password | Operation Status |
|--------------|--------------|---------------|-------------|----------|----------|------------------|
| 192.168.2.91 | 192.168.2.91 | 255.255.255.0 | 192.168.2.1 | admin | ●●●●●● | Not logged in |
| 192.168.2.92 | 192.168.2.92 | 255.255.255.0 | 192.168.2.1 | admin | ●●●●●● | Not logged in |

1.

Configure Device

Configure the device name, system time, DST, network, DNS, port, UNP, SNMP, and ONVIF.

Click **Basic Config** on the main menu.

Click  in the **Operation** column.

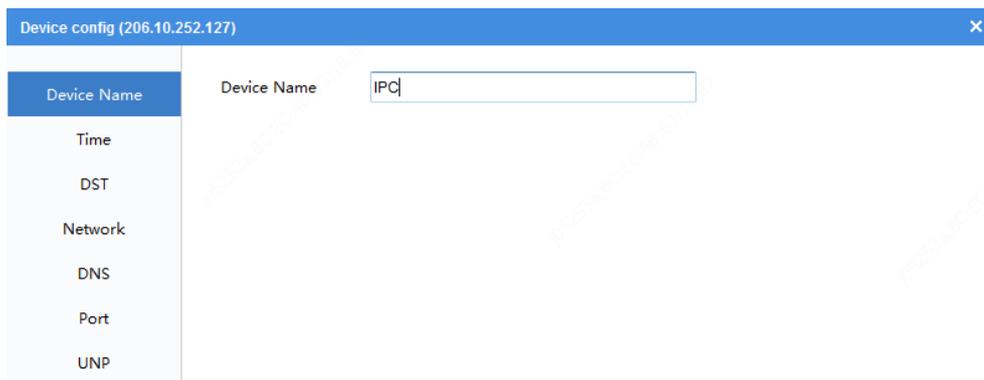


NOTE!

You may select multiple devices to configure device system time, DST, DNS, port, UNP and ONVIF in batches. Device name and network settings cannot be configured in batches.

2. Configure device name, system time, DST, network, DNS, port, UNP, SNMP, and ONVIF as needed.

- Configure device name.

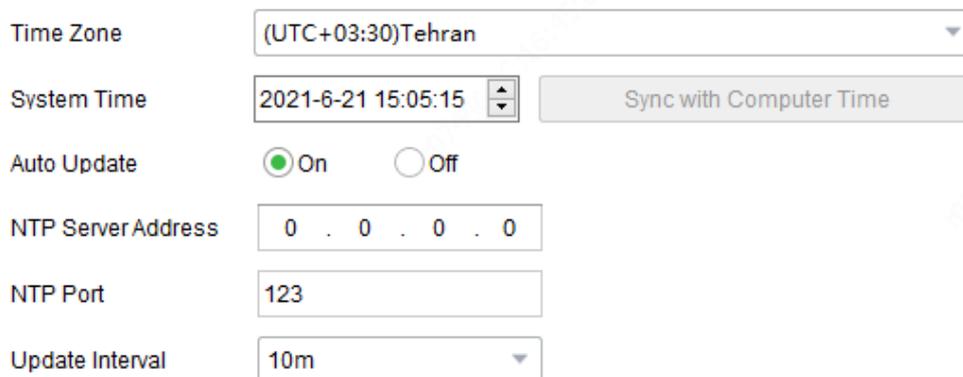


3.

- Configure the time.

Synchronize the time of the computer or NTP server to the device.

- Turn off **Auto Update**: Click **Sync with Computer Time** to synchronize the computer's time to the device.
- Turn on **Auto Update**: Set the NTP server address, NTP port and update interval, then the device will synchronize time with the NTP server at set intervals.



- Configure Daylight Saving Time (DST).

DST On Off

Start Time o'clock

End Time o'clock

Bias

- Configure network settings.

IP Obtain Mode Port Type

IP Address Operating Mode

Subnet Mask

Gateway

- Configure the DNS.

Preferred DNS Server

Alternate DNS Server

- Configure ports.

HTTPS Port

HTTP Port

- Configure UNP.

For a network with firewalls or NAT devices, you may use Universal Network Passport (UNP) to interconnect the network. To use this service, you need to configure on a UNP server first.

UNP Service On Off

Server Address

Authenticate Yes No

Username

Password

- Configure SNMP.

Use this function to interconnect with the server so as to monitor device status remotely from the server and troubleshoot device failures in time.

- (Recommended) SNMPv3

SNMPv3 is recommended when your network is less secure. It requires username and password for authentication and uses DES (Data Encryption Standard) for encryption, providing higher security.

SNMP On Off

SNMP Type

Username

Authentication Mode

Authentication Password

Confirm Authentication Password

Encryption Mode

Encryption Password

Confirm Encryption Password

| Item | Description |
|---------------------------------|---|
| SNMP Type | The default SNMP type is SNMPv3. |
| Authentication Password | Set the authentication password, which is used by the server to receive data sent from devices. |
| Confirm Authentication Password | Confirm the authentication password you entered. |
| Encryption Password | Set the encryption password, which is used to encrypt data sent from devices to the server. |
| Confirm Encryption Password | Confirm the encryption password you entered. |

- SNMPv2

Use SNMPv2 for communication when the network is secure enough. SNMPv2 uses community name for authentication, which is less secure.

SNMP On Off

SNMP Type

Read Community

| Item | Description |
|----------------|--|
| SNMP Type | Select SNMPv2 . After you select SNMPv2, a message pops up to remind you of potential risks and ask if you want to continue. Click OK . |
| Read Community | Set the read community. It is used for the server to confirm whether the data sent by the community, and receive the data after successful authentication. |

- Configure ONVIF.

Configure IPC authentication mode.

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

Authentication Mode Standard Compatible

Configure Channel

1. Configure channel settings including image, encoding, OSD, audio, motion detection, and intelligent server. The parameters displayed may vary with device model.
2. Click **Advanced Config** on the main menu.
Click  in the **Operation** column.



NOTE!

3.
 - You can configure IPC or EC of the same model in batches. Select the devices and click **Advanced Config**.
 - You can only configure image and OSD settings for EC channel.

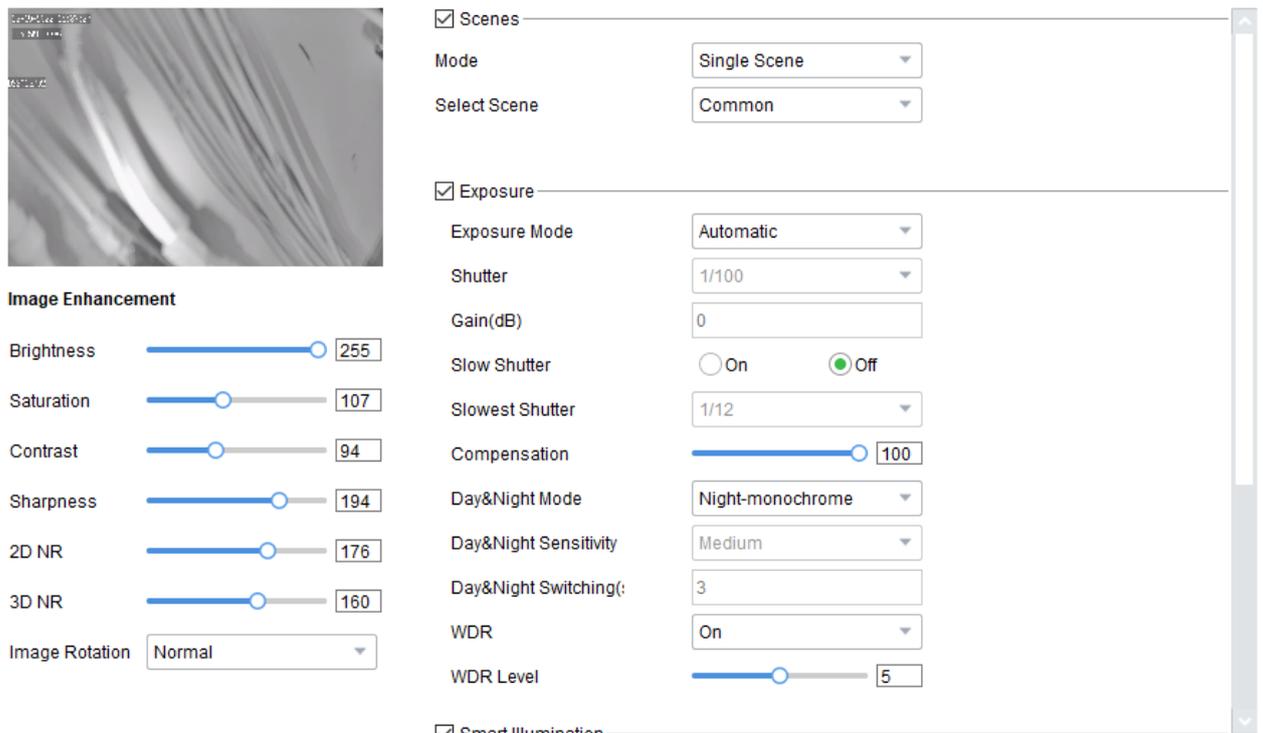
Configure image, encoding, OSD, audio, motion detection, and intelligent server as needed.

- Configure image settings, including image enhancement, scenes, exposure, smart illumination, and white balance.



NOTE!

- A double-click on the image will display it in full screen; another double-click will restore the image.
- Clicking **Restore Default** will restore all the default image settings. After restoration, click **Get Parameters** to obtain the default settings.
- To enable multiple scene schedules, select **Multiple Scenes** from the **Mode** drop-down list, select scenes and set the corresponding schedules, illumination ranges, and elevation ranges. Select the check box for the scenes that you have set, and then select the **Enable Scene Schedule** check box at the bottom to make the schedules effective. When conditions are met for a scene, the camera will switch to this scene; otherwise, the camera uses the default scene (shows  in the **Operation** column). You can click  to specify the default scene.
- You may copy image, encoding, OSD and motion detection configurations of an NVR channel and apply them to other channel(s) of the same NVR. See [Copy NVR Channel Configurations](#) for details.



The screenshot displays a camera configuration interface. On the left, there is a live video feed showing a blurred scene. Below the feed is the **Image Enhancement** section, which includes sliders for Brightness (255), Saturation (107), Contrast (94), Sharpness (194), 2D NR (176), and 3D NR (160), along with an Image Rotation dropdown set to Normal. On the right, the **Scenes** section is checked, with Mode set to Single Scene and Select Scene set to Common. The **Exposure** section is also checked, showing Exposure Mode as Automatic, Shutter as 1/100, Gain(dB) as 0, Slow Shutter as Off, Slowest Shutter as 1/12, Compensation as 100, Day&Night Mode as Night-monochrome, Day&Night Sensitivity as Medium, Day&Night Switching(as 3, WDR as On, and WDR Level as 5. The **Smart Illumination** section is partially visible at the bottom.

- Configure encoding parameters.

Current Channel: Channel 001

Capture Mode: 1920x1080@25

Main

Compression: H.264

Resolution: 1920x1080(1080P)

Frame Rate(fps): 25

Bit Rate(Kbps): 4096 [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

Enable Sub

Compression: H.264

Resolution: 720x576(D1)

Frame Rate(fps): 25

Bit Rate(Kbps): 1024 [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

Copy To



NOTE!

The copy function is not available for EC channels.

- Configure OSD parameters.

Current Channel: Channel 001



Display Style

Font Size: Large

Font Color: #ff0000

Date Format: yyyy-MM-dd

Time Format: HH:mm:ss

Channel Name: Test OSD121111

| ✓ | No. | Position | Overlay OSD Content |
|-------------------------------------|-----|----------|---------------------|
| <input checked="" type="checkbox"/> | 1 | Area1 | <Name> |
| <input checked="" type="checkbox"/> | 2 | Area2 | <Date & Time> |
| <input type="checkbox"/> | 3 | Area3 | |
| <input type="checkbox"/> | 4 | Area4 | |
| <input type="checkbox"/> | 5 | Area5 | |
| <input type="checkbox"/> | 6 | Area6 | |
| <input type="checkbox"/> | 7 | Area7 | |
| <input type="checkbox"/> | 8 | Area8 | |

Overlay Area1

X: 24 Y: 26

Copy To



NOTE!

- For EC channels, the channel name is not displayed, and the copy function is not available.
- You can export and import OSD configurations of IPCs and EC devices with one channel. See [Export and Import OSD Configurations of an IPC](#) for details.

- Configure audio parameters.

Currently this function is not available for NVR channels.

- Configure motion detection.

Motion detection detects object motion in the detection area during the set period. The motion detection settings may vary with device. The following takes NVR channel as an example:

| Item | Description |
|-----------------|---|
| Detection Area | Click Draw Area to draw detection area in the left live view window. |
| Sensitivity | The higher the value, the easier a moving object will be detected. |
| Trigger Actions | Set the actions to trigger after a motion detection alarm occurs. |

| Item | Description |
|-----------------|---|
| Arming Schedule | <p>Set the start and end time during which motion detection takes effect.</p> <div data-bbox="560 282 1310 528"> </div> <ul style="list-style-type: none"> • Click or drag on the green area to set arming periods. • Click Edit to enter time periods manually. After you complete the settings for a day, you may copy the settings to other days. |

- Configure intelligent server parameters so you can manage devices on the server.
 - UNV

Intelligent Server

Server IP

Server Port

Platform Communication Type

Camera No.

Device No.

| Item | Description |
|------------|--|
| Camera No. | Camera number used to identify the device. |
| Device No. | Device number used to identify the device on the server. |

- Video&Image Database

Intelligent Server

| | |
|-----------------------------|---|
| Server IP | <input type="text" value="0 . 0 . 0 . 0"/> |
| Server Port | <input type="text" value="5196"/> |
| Platform Communication Type | <input type="text" value="Video&Image Database"/> |
| Device ID | <input type="text" value="001"/> |
| Username | <input type="text"/> |
| Platform Access Code | <input type="text"/> |

Video&Image Database Settings

| | |
|------------------|---|
| Coordinate Mode | <input type="text" value="Percentage Mode"/> |
| Connection Mode | <input type="text" value="Short Connection"/> |
| Report Data Type | <input checked="" type="checkbox"/> Motor Vehicle <input checked="" type="checkbox"/> Non-Motor Vehicle <input checked="" type="checkbox"/> Person <input checked="" type="checkbox"/> Face |

| Item | Description |
|----------------------|---|
| Device ID | Make sure the entered device ID conforms to the VIID protocol, and digits 11-13 must be 119. |
| Username | Username used to connect to the VIID platform. |
| Platform Access Code | Password used to connect to the VIID platform. |
| Coordinate Mode | Select the coordinate system used to determine the location of detected objects on the image. It's recommended to use the default. <ul style="list-style-type: none">Percentage Mode (default): Use a coordinate system with x-axis and y-axis ranging from 0 to 10000.Pixel Mode: Use a pixel coordinate system.Normalized Mode: Use a coordinate system with x-axis and y-axis ranging from 0 to 1. |
| Connection Mode | <ul style="list-style-type: none">Short Connection: This mode is implemented based on the standard HTTP protocol, and the server decides the connection mode.Standard: This mode is applicable only when the device connects to a Uniview server. |
| Report Data Type | Select the types of data to be reported, including Motor Vehicle, Non-Motor Vehicle, Person, and Face. |

View Device Info

View device information, including device name, model, IP, port, serial number, version info, etc.

Click **Basic Config** or **Advanced Config** or **Maintenance** on the main menu.

Click  in the **Operation** column.



NOTE!

Device info is also displayed for devices not logged in, but subnet mask and gateway will not be displayed.

- 1.
- 2.

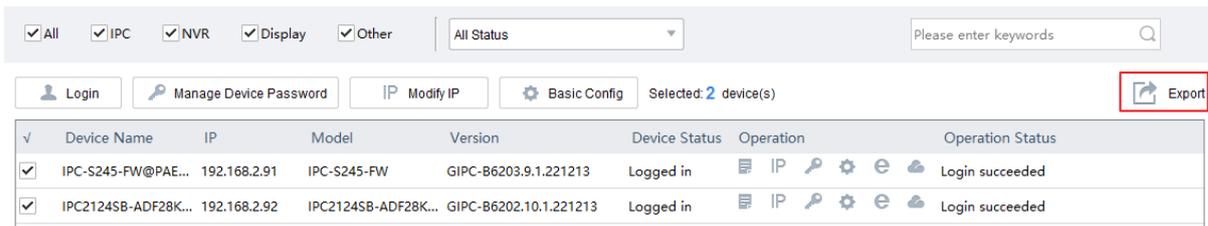
Export Device Info

Export information including name, IP, model, version, MAC address and serial number of device(s) to a CSV file.

Click **Basic Config** or **Advanced Config** on the main menu.

Select the device(s) in the list, and then click the **Export** button in the upper right corner.

- 1.
- 2.



The screenshot shows a web interface for device management. At the top, there are filter checkboxes for 'All', 'IPC', 'NVR', 'Display', and 'Other', along with a status dropdown set to 'All Status' and a search bar. Below the filters are buttons for 'Login', 'Manage Device Password', 'IP Modify IP', and 'Basic Config'. A 'Selected: 2 device(s)' indicator is present. In the top right corner, an 'Export' button is highlighted with a red box. Below the buttons is a table with columns: Device Name, IP, Model, Version, Device Status, Operation, and Operation Status. Two devices are listed, both with 'Login succeeded' status.

| ✓ | Device Name | IP | Model | Version | Device Status | Operation | Operation Status |
|---|---------------------|--------------|---------------------|------------------------|---------------|-----------|------------------|
| ✓ | IPC-S245-FW@PAE... | 192.168.2.91 | IPC-S245-FW | GIPC-B6203.9.1.221213 | Logged in | IP | Login succeeded |
| ✓ | IPC21245B-ADF28K... | 192.168.2.92 | IPC21245B-ADF28K... | GIPC-B6202.10.1.221213 | Logged in | IP | Login succeeded |

Export Diagnosis Info

Diagnosis information includes logs and system configurations. You can export diagnosis info of device(s) to PC.

- 1.
- 2.
- 3.

Click **Maintenance** on the main menu.

Click  in the **Operation** column.

Select the destination folder, and then click **Export**.



The screenshot shows a window titled 'Maintenance (206.10.252.127)'. It has a blue header bar with a close button. The main content area is divided into sections. The 'Diagnosis Info' section has a 'Storage Path' input field with a folder icon and an 'Export' button highlighted with a red box. Below it is the 'Config Management' section, which has 'Import Settings' and 'Export Settings' input fields, each with a folder icon, and corresponding 'Import' and 'Export' buttons.

Import/Export Configuration

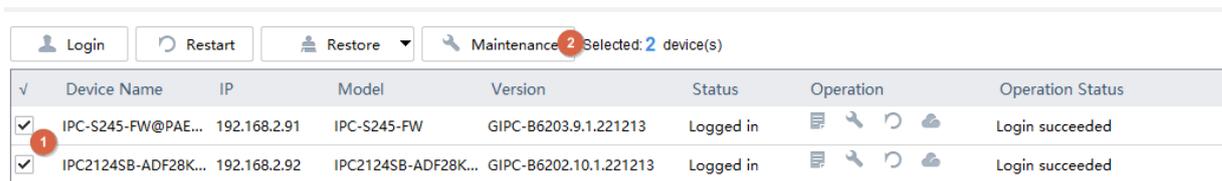
Configuration import allows you to import a configuration file from your computer to a device and change the current settings of the device.

Configuration export allows you to export current configurations of the device and save them as a file for backup.

Click **Maintenance** on the main menu.

Choose the following methods as needed:

1. For a single device: Click  in the **Operation** column.
2. For multiple devices: Select the devices, and then click **Maintenance** on the top toolbar.



The screenshot shows a toolbar with buttons for Login, Restart, Restore, and Maintenance. The Maintenance button is highlighted with a red circle and a '2' next to it, indicating it is selected. Below the toolbar is a table with columns: Device Name, IP, Model, Version, Status, Operation, and Operation Status. Two devices are listed, both with checkmarks in the first column and 'Login succeeded' in the Operation Status column. A red circle with a '1' is next to the first device's checkmark.

| ✓ | Device Name | IP | Model | Version | Status | Operation | Operation Status |
|---|---------------------|--------------|---------------------|------------------------|-----------|-----------|------------------|
| ✓ | IPC-S245-FW@PAE... | 192.168.2.91 | IPC-S245-FW | GIPC-B6203.9.1.221213 | Logged in | | Login succeeded |
| ✓ | IPC2124SB-ADF28K... | 192.168.2.92 | IPC2124SB-ADF28K... | GIPC-B6202.10.1.221213 | Logged in | | Login succeeded |

Click  next to the **Import/Export** button, and select the configuration file.

3. Click **Import/Export**.



NOTE!

For some devices, a password is required for encryption when you export a configuration file, and when you import an encrypted configuration file, you also need to decrypt it with the password.

Restore Default Settings

Restoring default settings includes restore defaults and restore factory defaults.

Restore defaults: Restore factory default settings except network, user and time settings.

1. Restore factory defaults: Restore all factory default settings.
2. Click **Maintenance** on the main menu.

Select the device(s).

Click **Restore** on the top toolbar and then choose **Restore Defaults** or **Restore Factory Defaults**.



- 1.

Restart Device

Click **Maintenance** on the main menu.

Choose the following methods as needed:

- For a single device: Click  in the **Operation** column.
- For multiple devices: Select the devices, and then click **Restart** on the top toolbar.

2.

|  Login |  Restart 2 |  Restore |  Maintenance | Selected: 2 device(s) | | | |
|---|--|---|---|------------------------------|-----------|---|------------------|
| <input checked="" type="checkbox"/> | Device Name | IP | Model | Version | Status | Operation | Operation Status |
| <input checked="" type="checkbox"/> | IPC-S245-FW@PAE... | 192.168.2.91 | IPC-S245-FW | GIPC-B6203.9.1.221213 | Logged in |     | Login succeeded |
| <input checked="" type="checkbox"/> | IPC2124SB-ADF28K... | 192.168.2.92 | IPC2124SB-ADF28K... | GIPC-B6202.10.1.221213 | Logged in |     | Login succeeded |

Log in to the Web of a Device

Click **Basic Config** or **Advanced Config** on the main menu.

Click  in the **Operation** column.

1. Upgrade Device

2.

Device upgrade includes local upgrade and online upgrade. Upgrade progress is displayed in real time during the upgrade.

Local upgrade: Upgrade device(s) using an upgrade file on your computer.

Online upgrade: With Internet connection, online upgrade will check the device firmware version, download upgrade files and upgrade the device. You need to log in first.

| Local Upgrade | | Online Upgrade | | | | |
|-------------------------------------|----------------|----------------|---------|---------------|------------------|------------------|
| All | IP | Model | Version | Device Status | Upgrade Progress | Operation Status |
| <input checked="" type="checkbox"/> | 206.10.252.150 | IPC22 | IPC_220 | Online | -- | Logged in |
| <input checked="" type="checkbox"/> | 206.10.252.155 | IPC22 | IPC_220 | Online | -- | Logged in |
| <input checked="" type="checkbox"/> | 206.10.252.159 | IPC22 | IPC_220 | Online | -- | Logged in |
| <input checked="" type="checkbox"/> | 206.10.252.162 | IPC22 | IPC_220 | Online | -- | Logged in |
| <input checked="" type="checkbox"/> | 206.10.252.166 | IPC32 | IPC_220 | Online | -- | Logged in |
| <input checked="" type="checkbox"/> | 206.10.252.167 | IPC22 | IPC_220 | Online | -- | Logged in |

[Upgrade](#)



NOTE!

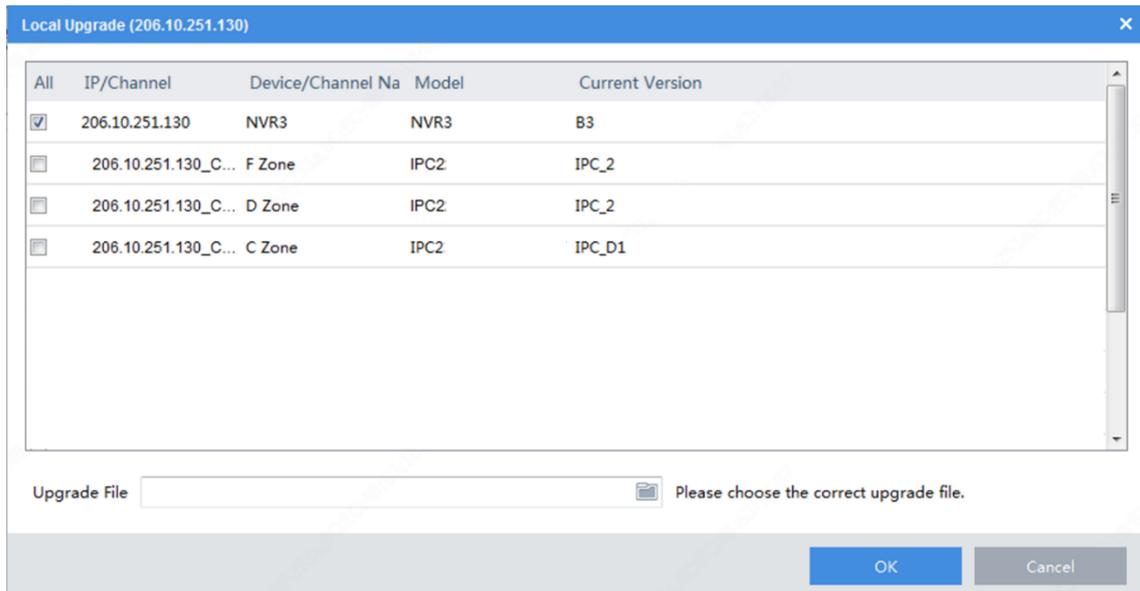
- The upgrade version must be correct for the device. Otherwise, exceptions may occur.
- For an IPC, the upgrade package (ZIP file) must contain the complete upgrade files.
- For an NVR, the upgrade file is in .BIN format.
- For a display & control device, the upgrade file is in .tgz format.
- You can upgrade NVR channels in batches.
- Please maintain a proper power supply during upgrade. The device will restart after the upgrade is completed.

Upgrade a device using a local upgrade version file

Click **Upgrade** on the main menu.

Under **Local Upgrade**, select the device(s) and then click **Upgrade**. A dialog box is displayed (take NVR as an example).

- 1.
- 2.



- 3.

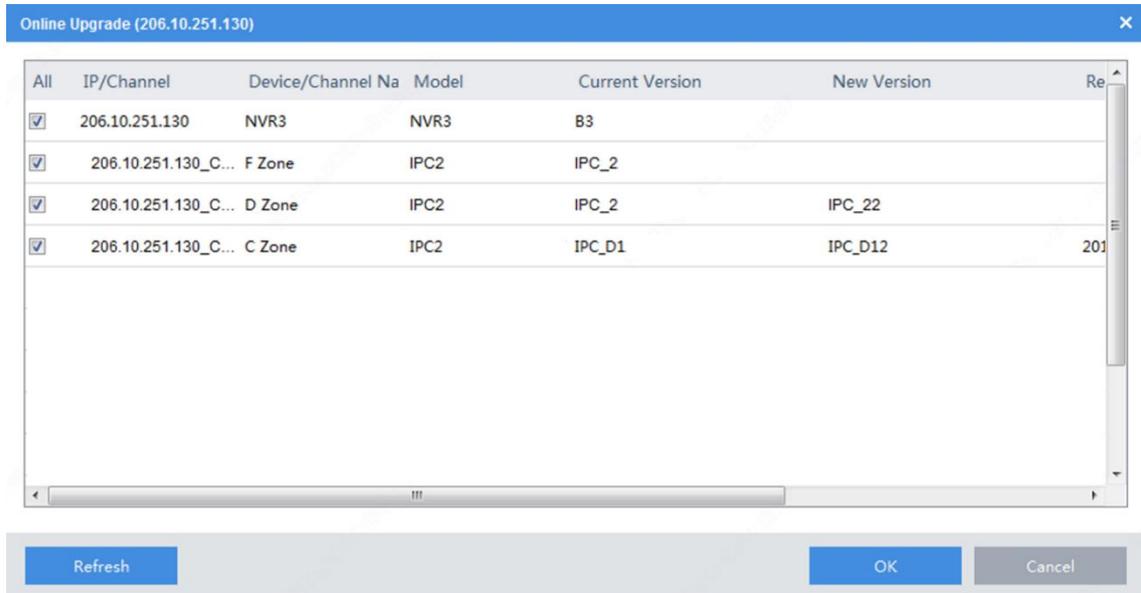
Select the upgrade version file. Click **OK**.

1. **Online Upgrade**

- 2.

Click **Upgrade** on the main menu.

Under **Online Upgrade**, select the device(s) and then click **Upgrade**.



Click **Refresh** to check for available upgrades.

Click **OK**.

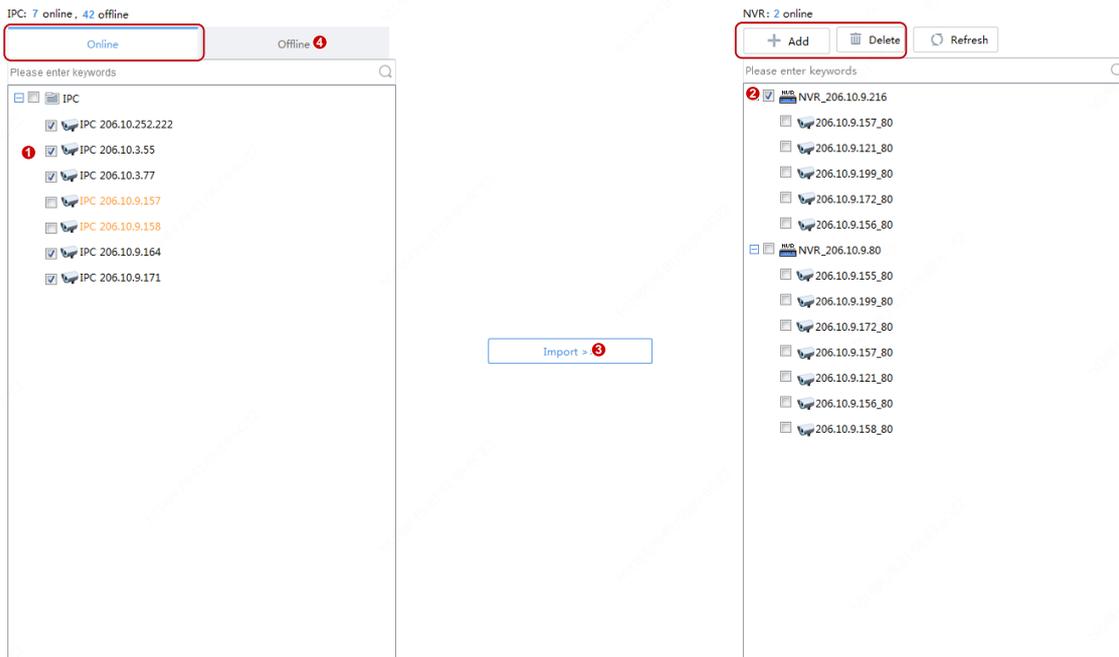
3. NVR Channel Management

4.

NVR channel management includes adding NVR channel and deleting NVR channel.

Click **NVR** on the main menu.

1. On the **Online** tab, select the IPC(s) to import, select the target NVR, and then click **Import**.
- 2.





NOTE!

- In the IPC list, orange means the IPC has been added to an NVR.
- In the NVR list, blue means the newly added channel.
- To add an offline IPC, click the **Offline** tab (4 in the figure). The IPC's username and password are required.



NOTE!

- Use the **Add** button on the top if the IPC you want to add is not in the IPC list.
- To delete an IPC from the NVR list, place the mouse cursor on the IPC and click . To delete multiple IPCs in batches, select the IPCs and then click **Delete** on the top.

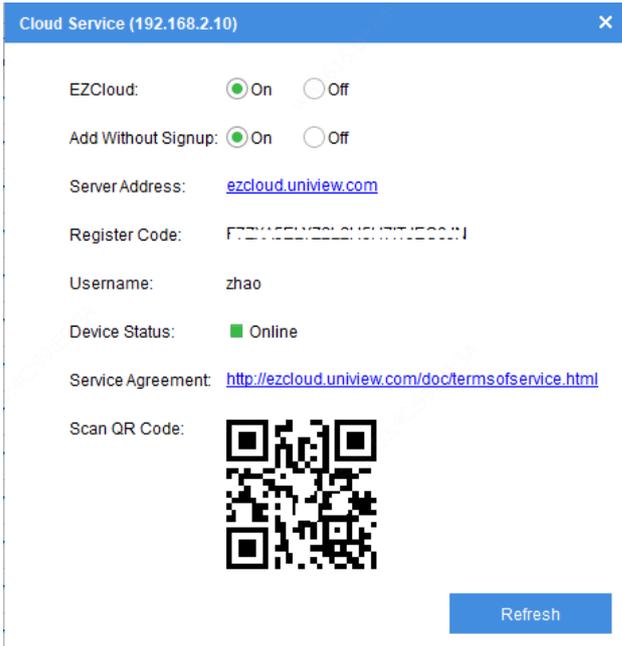
Cloud Service

Enable or disable the cloud service and the **Add Without Signup** feature on the device; delete a cloud device from the current cloud account.

Log in to the device.

Click **Basic Config** or **Maintenance** on the main menu.

- 1.
2. Click in the **Operation** column. A dialog box is displayed.

3. 
- 4.

5. Enable or disable the cloud service (EZCloud) as needed. When the cloud service is enabled, you can use the APP to scan the QR code below to add the device.

Note: Please click **Refresh** to update device status after you enable or disable the cloud service.

Enable or disable the **Add Without Signup** feature, which, when enabled, allows you to add the device by scanning the QR code using the APP without signing up for a cloud account.

Note: The **Add Without Signup** feature requires the cloud service be enabled on the device and a strong password be set on the device.

For a cloud device, you can remove it from the current cloud account by clicking **Delete**.

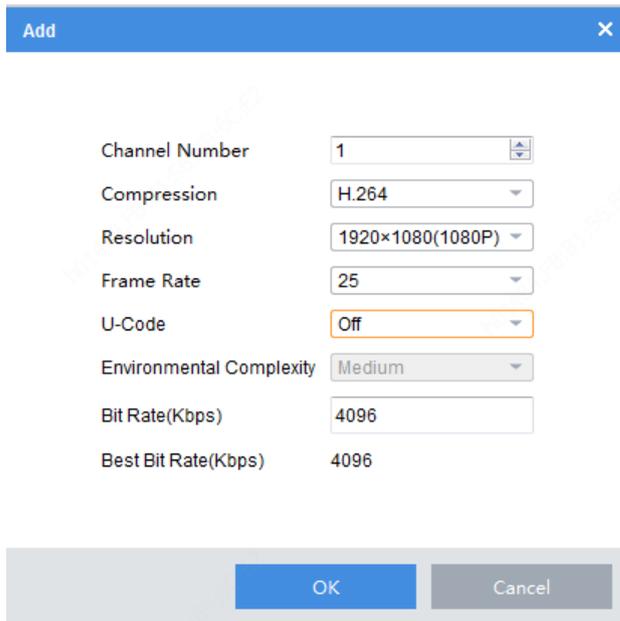
Calculation

Calculate recording time allowed or disks needed.

6. Click **Calculation** on the main menu.
Click **Add** on the top toolbar.

1.

2.



The 'Add' dialog box contains the following settings:

- Channel Number: 1
- Compression: H.264
- Resolution: 1920×1080(1080P)
- Frame Rate: 25
- U-Code: Off
- Environmental Complexity: Medium
- Bit Rate(Kbps): 4096
- Best Bit Rate(Kbps): 4096

Buttons: OK, Cancel

Note: You may also click **Search to Add** and select discovered devices for space calculation based on their actual video settings.

3. Complete the settings. Click **OK**.
4. Repeat the above steps as needed.

Total 51 device(s) Refresh Search Setup

+ Add Edit Delete + Search to Add

| ✓ | Compression | Channels | Resolution | Frame Rate(fps) | Bit Rate(Kbps) | Total Bandwidth(Kbps) |
|-------------------------------------|-------------|----------|------------------|-----------------|----------------|-----------------------|
| <input checked="" type="checkbox"/> | H.264 | 10 | 1920×1080(1080P) | 25 | 4096 | 40960 |
| <input checked="" type="checkbox"/> | H.264 | 6 | 1280×720(720P) | 25 | 2048 | 12288 |

- 5.

Select devices in the device list.

Calculate days in disk mode

Calculate how many days recordings can be saved based on the daily recording time (hours) and disk capacity available.

Calculate Days Calculate Disks

Daily Recording: 24 ¹ Hour(s)

Space Needed: 548.4 GB ²

Disk Mode RAID Mode

Disk Capacity: 10 TB

Usable Space: 9094.9 GB

Recording Time:

16 Days

Calculate days in RAID mode

Calculate how many days recordings can be saved based on the daily recording time (hours), configured RAID type (0/1/5/6), RAID disk capacity, and the number of disks available.

Calculate Days Calculate Disks

Daily Recording: 24 ¹ Hour(s)

Space Needed: 548.4 GB ²

Disk Mode RAID Mode

Disk Capacity: 10 TB

RAID Type: RAID 5

RAID Disks: 5

Usable Space: 36379.7 GB

Recording Time:

66 Days

Calculate disks in disk mode

Calculate how many disks are needed based on the daily recording time (hours), recording retention period (days), and disk capacity available.

Calculate Days Calculate Disks

Retention Time: 30 Day(s) ¹

Daily Recording: 24 Hour(s)

Space Needed: 16453.1 GB

Disk Mode RAID Mode ²

Disk Capacity: 10 TB

Disks Needed:

 X 2

Usable Space: 18189.9 GB

Calculate disks in RAID mode

Calculate how many RAID disks are needed based on the daily recording period (hours), recording retention period (days), RAID disk capacity available, and configured RAID type.

Calculate Days **Calculate Disks** 1

Retention Time: 30 Day(s)

Daily Recording: 24 Hour(s)

Space Needed: 16453.1 GB

2

Disk Mode RAID Mode

Disk Capacity: 10 TB

RAID Type: RAID 5

RAID Disks:

 X 3

Usable Space: 18189.8 GB

Tips for Usage

Select Devices

Select device(s) by selecting the check box in the first column of the list. When selected, you may view the number of selected devices. You may also select multiple devices using the following methods:

- Click **All** to select all.
- Click to select devices while holding down **<Ctrl>** or **<Shift>**.
- Drag the mouse while holding down the left button.

Filter Device List

Filter the list by entering a keyword contained in the IP, model, version, and name of the desired devices.

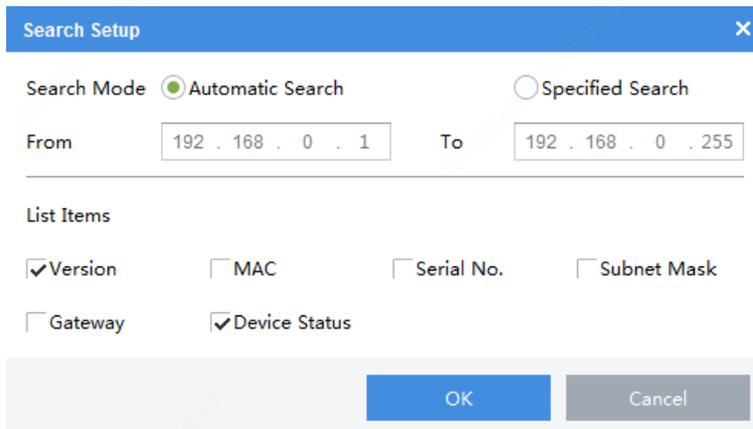
Click  to clear entered keywords.

Sort Device List

In the device list, click a column title, for example, device name, IP, or status, to sort the listed devices in ascending or descending order.

Customize Device List

Click **Search Setup** on the top, then select titles to display on the device list.



Search Setup

Search Mode Automatic Search Specified Search

From To

List Items

Version MAC Serial No. Subnet Mask

Gateway Device Status

OK Cancel

Copy NVR Channel Configurations

You can copy image, encoding, OSD and motion detection configurations of an NVR channel to other channels of the NVR.



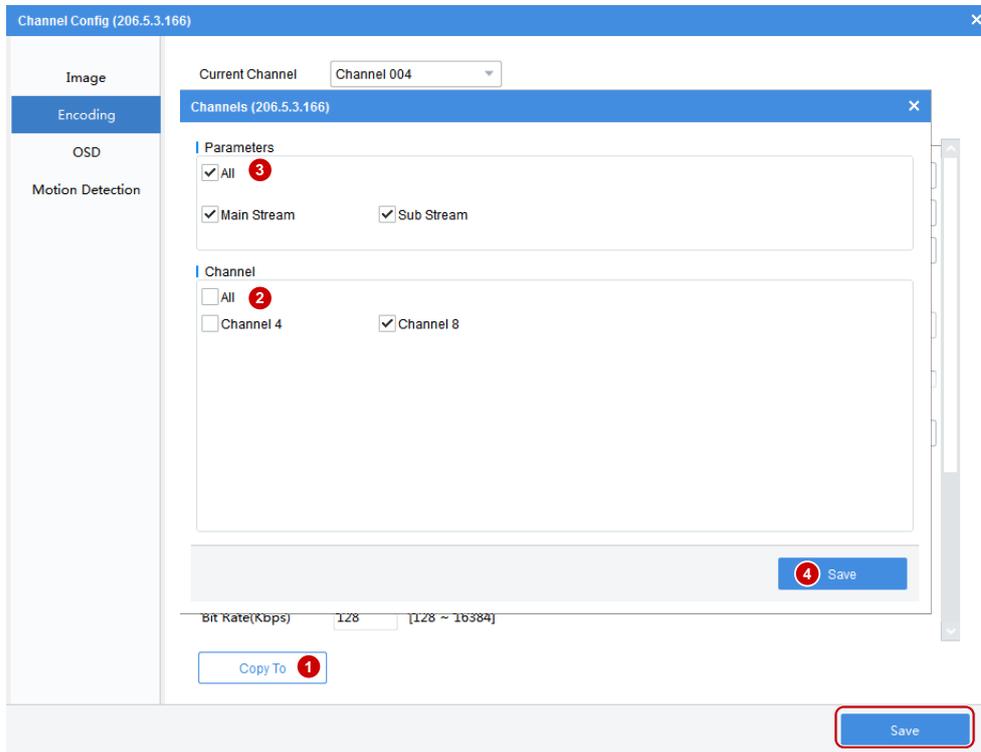
NOTE!

This feature only supports NVR channels that are connected via Uniview private protocol.

- Image parameters: Include settings of image enhancement, exposure, smart illumination and white balance.
- Encoding parameters: Depending on the stream type that the device supports, you can choose to copy encoding parameters of the main and/or sub streams.
- OSD parameters: OSD style.
- Motion detection parameters: Detection area, arming schedule.

The following describes how to copy encoding configurations. Copying image, OSD and motion detection configurations are similar.

First, complete the configuration of the channel to copy from (e.g., Channel 001) and save the settings. And then follow the steps as illustrated:



Export and Import OSD Configurations of an IPC

You can export OSD configurations of an IPC to a CSV file for backup, and apply the same configurations to other IPCs by importing the CSV file. The OSD configurations include effect, font size, font color, minimum margin, date & time format, OSD area settings, types and OSD contents.

Channel Config (203.6.1.181)

Image

Encoding

OSD

Audio

Motion Detection



| √ | No. | Position | Overlay OSD Content |
|-------------------------------------|-----|----------|---------------------|
| <input checked="" type="checkbox"/> | 1 | Area1 | <Date & Time> |
| <input type="checkbox"/> | 2 | Area2 | |
| <input type="checkbox"/> | 3 | Area3 | |
| <input type="checkbox"/> | 4 | Area4 | |
| <input type="checkbox"/> | 5 | Area5 | |
| <input type="checkbox"/> | 6 | Area6 | <Date> |
| <input type="checkbox"/> | 7 | Area7 | <Time> |
| <input type="checkbox"/> | 8 | Area8 | <Time> |

Overlay Area8

X Y Aligning

Export
Import



NOTE!

When importing a CSV file, make sure the IP addresses and serial numbers in the file match that of the target IPCs; otherwise, import will fail.