

User's Manual

H.265 25-ch 4K Network Video Recorder with 16-Port PoE

▶ NVR-2500 / NVR-2516P



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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution

To assure continued compliance, use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

WEEE Regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Energy Saving Note of the Device

This power required device does not support Stand by mode operation.

For energy saving, please remove the AC-plug to disconnect the device from the power circuit.

Without remove the AC-plug or switch off the device, the devices will still consuming power from the power circuit. In the view of Saving the Energy and reduce the unnecessary power consuming, it is strongly suggested to switch off or remove the DC-plug for the device if this device is not intended to be active.

Revision

User's Manual of PLANET H.265 25-ch 4K Network Video Recorder

Model: NVR-2500/NVR-2516P

Rev: 1.0 (September, 2020)

Part No. EM-NVR-2500_2516P_v1.0

Declaration

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Photographs, graphics, charts, and illustrations provided in the manual are for explanation and illustration purposes only, and may differ from specific products. Please prevail in kind.

Safety Precautions



CAUTION

- Please do not place and install equipment directly under the sunlight or near heating device.
- Please do not install equipment at moist place or place with dust or soot.
- Please keep equipment installed horizontally, or install equipment in a stable place, avoid the equipment falling down.
- Please avoid liquid dropping on the equipment, make sure no objects filled (eg cups) with liquid on the equipment and prevent liquid from leaking.
- Please install the device in a well-ventilated place, do not block the vents of the equipment.
- Please only use equipment within rated input/output.
- Please do not disassemble at liberty.
- Please transport, use and reserve the equipment within allowing humidity (10%~90%) and temperature (-10°C~+55°C).
- When cleaning the device, unplug the power cord and completely shut off the power.

- The dust on the circuit board inside the NVR may cause a short circuit after being exposed to moisture. Regularly clean the circuit board, connectors, chassis, and chassis fan with a soft brush. If dirt is difficult to remove, wipe it off with a neutral detergent diluted in water and wipe it dry.
- Do not use volatile solvents such as alcohol, benzene, or thinner when cleaning the device. Do not use strong or abrasive cleaning agents. This can damage the surface coating.
- Please purchase the NVR dedicated hard drive recommended by the equipment manufacturer from the formal channels to ensure the quality and usage requirements of the hard drive.
- Make sure that there is no threat due to uneven mechanical load.
- Make sure that the video and audio cables have enough controls to install the cable. The bend radius of the cable should not be less than 5 times the cable diameter.
- Make sure that the alarm cable is firmly installed and the contact is good.
- Make sure that the NVR is reliably grounded.



WARNING

- Please do use the battery as requested, or it may lead to a battery fire, explosion or risk of burning!
- Please use the same type of battery when changing it.
- Please do use recommended cord sets (power cords), do use within the rated specifications.
- If you connect the product to the Internet at your own risk, including but not limited to products that may be subject to cyber-attacks, hacking attacks, virus infections, etc., the company will not be responsible for product abnormality, information leakage, etc., but the company will timely provide you with product-related technical support.



1. After receiving the product, please open the packing box, take out the equipment, and confirm the packing product and accessories according to the packing list in the box.
2. If you find any damage to the contents of the box or any missing parts, please contact your dealer promptly.

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Chapter 1 Outlines and Features

1.1 Outlines

This product is a new generation of high-performance NVR (Net Video Recorder) independently developed by PLANET. It adopts several high-tech technologies, such as video and audio codec technology, embedded system technology, storage technology, network technology and intelligent technology. It comes with local preview, video multi-screen split display, local real-time storage of video files, support for mouse shortcuts, and remote management and control. This product supports two storage methods: front-end storage and client-side storage. The front-end monitoring point can be located anywhere on the network, regardless of geographical location. It is combined with other front-end devices such as network cameras and network video servers to form a powerful security monitoring network with specialized video surveillance system software. In the networked deployment system of this product, only one network cable can be used for the central point and monitoring point. It is not necessary to lay out video lines, audio lines, etc. as construction is simple. Wiring costs and maintenance costs are low.

This product can be widely used for many establishments, such as finance, telecommunications, transportation, electricity, education and other fields, for security purposes.

1.2 Default

- The factory default super administrator account is **admin** and the password is **admin**.
- NVR-2500 and NVR-2516P factory default IPv4 address: **192.168.0.20**.

1.3 Descriptive content agreement

In order to simplify the description in this manual, the following wordings are made:

- The "device" mentioned in this manual mainly refers to the NVR.
- The "IP device" mentioned in this manual mainly refers to IP Camera.
- The "channel" mentioned in this manual refers to the NVR's IP channel.
- Click the "X" or "Cancel" button to return to the previous screen.
- Click All Interfaces Default to restore the current factory default settings.
- Click "Apply", "Confirm" and "Save" on all screens to save the current settings.
- Click "Copy" on all interfaces to enter the copy channel interface. Select the channel to copy the current channel configuration to the selected channel.

1.4 Function Features

NVR features are as follows:

- H.264 video compressed format, supporting 4K/6M/5M/4M/3M/2M/1080P/720P/D1 resolution network camera input.
- G.711U, G711a, ADPCM_DVI4 audio compressed format.
- Each channel supports three-stream encoding.
- Windows-style user interface embedded real-time Linux3.0 operating system.
- Supports independent adjustment of coding parameters for each channel, including coding type, resolution, frame rate, and bitrate.
- Supports manual capture and image playback.
- Supports preview, recording, play back, backup.
- Supports Chinese Simplified, Chinese Traditional, English, Polish, Czech, Russian, Thai, Hebrew, Arabic, Bulgarian, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Roman, Korean, Dutch, Greek, Vietnamese and Japanese switches.
- Some NVRs support fisheye correction, dual-screen preview, and PoE, face detection, crossover detection, regional intrusion, and people gathering detection.

- Only one USB interface NVR needs to use for Configuration import, Configuration export, backup, IPC Update, and Manual Update. First select the corresponding function by clicking "Config import". A pop-up window shows "Please insert the USB disk" 60 When the second countdown prompts, unplug the mouse and plug it into the USB device before the countdown ends. After the NVR recognizes the USB device, it automatically proceeds to the next step.

➤ **Local monitoring**

The local monitoring features are listed below:

- Supports local VGA and HD homologous output, and HD supports up to 4K resolution output.
- 25-channel NVR supports 1 / 4 / 8 / 9 / 16 / 25 screen preview.
- Supports adjustment of the preview channel order by dragging the mouse.
- Supports preview manually or auto-tour preview, automatic polling cycle can be set.
- Supports video motion detection, video loss detection and intelligent detection.
- Achieves IP PTZ camera control through the ONVIF protocol.

➤ **Hard disk management**

Hard disk management features as shown below:

- Each SATA interface supports up to 8T hard drive.
- Supports hard disk formatting.
- Supports hard disk loss and hard disk abnormal alarm.

➤ **Video Record and Playback**

Video record and playback features as shown below:

- Video compression standard is H.264 / H.264+ / H.265 / H.265+, with timed recording function.
- Support for setting up recording schedules using drawing and editing methods.
- Supports the main and sub-stream recordings at the same time.
- Supports cyclic writing.

- Maximum 6 recording times can be set in each day, and the recording trigger mode can be set independently for different time periods.
- Recording trigger modes include Normal, Motion, Alarm, M&A, and Intelligent.
- Supports video data retrieval and playback through channel, video type, and the date.
- Multiple playback modes: Play / Pause, Reverse, Stop, Single Back, Single Forward, Speed Down, Speed Up, support for mouse drag positioning.
- You can select any area of the screen to zoom in locally.
- Support multi-channel simultaneous playback of video.

➤ **User Management**

- Three-level authority user management, administrators can create multiple operation users and set their rights, rights can be refined to the channel.

➤ **Data backup**

Data backup features shown below:

- Supports backup via USB2.0 or USB3.0 interface.
- Supports U disk or mobile hard disk in FAT32, NTFS, exFAT and other formats.
- Supports batch backup by file and time.
- Support for iVMS320 clip-by-clip backups.
- Supports webpage to clip and download video files by time.

➤ **Alarm and exception management**

Alarm and exception management features as shown below:

- Some models support multi-channel external alarm input and output.
- Supports video loss alarm, motion alarm, network disconnection alarm, IP conflict alarm, hard disk error and no disk alarm.
- Supports our smart IPC face detection, Crossover, Regional intrusion, people stay, people gathering and other intelligent detection access and linkage.
- Various alarms can trigger buzzing alarm, sending mail and screen display.

- Various alarms can trigger pop-up alarm prompts, voice warnings, and send emails to notify users.

➤ **Other Local Functions**

Other Local functions are featured below:

- Users can quickly and easily set the system parameters by NVR buttons frontal, USB mouse.
- Administrator can create multi-user and set permissions, which can be refined to the channel.
- Complete operations, alarms, exceptions, and information logging and retrieval.
- Some models support local alarms and upgrade front-end features.
- Supports gesture password function.

➤ **Network Function.**

Network function features as shown below:

- Supports remote client privileged access, improve system security.
- Supports TCP / IP protocol cluster, support DHCP, DNS, HTP, SMTP, RTSP, UPnP and other protocols.
- Embedded WEB SERVER.
- Supports remote search, playback, download.
- Supports remote access and configure parameters.
- Supports remote access to equipment running status, system log and alarm status.
- Supports remote formatted hard disk, upgrade program, restart and other operations for system maintenance.
- Supports remote manual trigger & stop recording.
- Supports remote manual trigger & stop alarm output.
- Supports alarm pushes function.
- Supports remote FTP server configuration.
- Supports remote PTZ control.
- Supports for BitVision App.
- Supports ONVIF protocol access to platform.

Chapter 2 NVR Appearance

2.1 The Front Panel

2.1.1 The Front Panel



Figure 2-1-1 (NVR-2500)



Figure 2-1-2 (NVR-2516P)

No.	Name	Description
A	Power Indicator	The device is powered on normally
	Network Indicator	Shows whether the device is properly connected to the network
	Hard disk indicator	Shows whether the hard drive is connected properly
B	USB2.0	Connect mouse or USB memory stick backup
C	Rack-mountable	For NVR-2516P only

2.2 Rear Panel

2.2.1 General rear panel introduction

The schematic diagram of the rear panel of the common equipment is as follows:

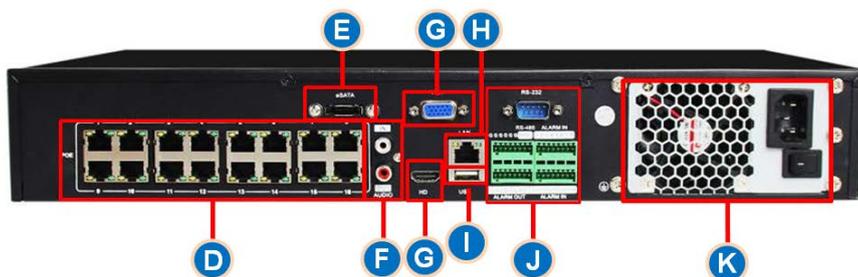


Figure 2-2

The corresponding description of each interface in Figure 2-2 is shown in the following table:

No.	Name	Description
D	PoE network port	16 10/100BASE-TX 802.3at PoE+ ports Connect PoE IP Camera devices
E	eSATA	External hard drive interface
F	Audio output	Equipment audio output interface
	Audio Input	Equipment audio input interface
G	HD Video Output	Connect HD display devices such as computer monitors
	VGA	Connect VGA display devices such as computer monitors
H	Ethernet port	1 10/100/1000BASE-T MDI/MDI-X port Connect Network
I	USB2.0	Connect the mouse or U disk backup
J	Ground 485	Alarm when equipment is grounded
	Alarm Output	Equipment alarm output interface
	Alarm Input	Equipment alarm input interface
K	Power Connector	Internal power supply: 100-240V AC, 50/60Hz

Table 2-1

2.2.2 Built-in PoE device rear panel introduction

The schematic diagram of the rear panel of the built-in PoE device is as follows:

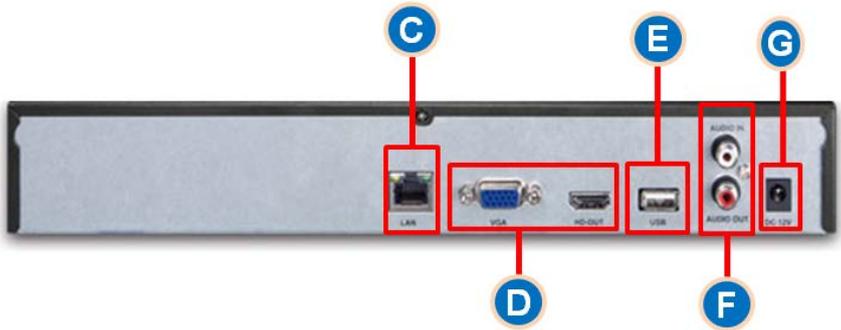


Figure 2-3

The corresponding description of each interface in Figure 2-3 is shown in the following table:

No.	Name	Description
C	Ethernet port	1 10/100/1000BASE-T MDI/MDI-X port Connect Network
D	HD Video Output	Connect HD display devices such as computer monitors
	VGA	Connect VGA display devices such as computer monitors
E	USB port	Connect the mouse, U disk or removable hard disk
F	Audio Input	Equipment audio input interface
	Audio output	Equipment audio output interface
G	Power Connector	DC External 12V, 4A Power Adapter Device power connector

2.3 Mouse Description

Operate NVR through mouse left button, right button and scroll wheel.

Mouse actions	Function
Click left mouse button	<ol style="list-style-type: none"> 1. Select one of the options 2. Insertion cursor, enter or modify the value of a parameter 3. During playback, click the timeline to switch the playback progress.
Click right mouse button	<ol style="list-style-type: none"> 1. When interface not locking, click right mouse button, system menu pops up 2. When interface locking, click right button on real-time preview interface, login interface pop up 3. Click the right mouse button on the submenu, return to the previous menu
Double-click the mouse left button	<p>In the preview and playback state, switch between single screen and multi screen.</p>
Mouse drag	<ol style="list-style-type: none"> 1. In the pan/tilt control state, the direction is rotated. 2. In the video occlusion alarm and motion detection alarm area settings, set the area range. 3. Drag the area of the electronic zoom. 4. In the preview interface, select a channel and press and drag to switch to other channel locations. 5. When playing back the video, drag the progress bar to switch the video file to be played.
Slide mouse scroll wheel	<ol style="list-style-type: none"> 1. Time setting 2. Select the drop-down menu values 3. When previewing, you can switch the preview channel. 4. When zooming in electronically, you can zoom in and out of the video image.

2.4 Input Method Introduction

Input method includes lowercase and uppercase English letters. Clicking

"" button on the left can switch the input method and the symbol.

"" represents deleting incorrect input, as shown in Figure 2-4 and Figure 2-5.



Figure 2-4 Uppercase English input



Figure 2-5 Lowercase English input

Chapter 3 Connecting NVR

3.1 Hard Disk Installation



CAUTION

- Before installation, please confirm that the power has been disconnected.
- Please use the NVR dedicated monitor hard drive recommended by the device manufacturer.

Installation tools

A Phillips screwdriver

Hard disk installation

- (1) Loosen the fixing screw on the cover, and open the cover.
- (2) Connect one end of the hard disk data cable and power cable to the motherboard, and connect the other end to the hard disk.
- (3) Hold the hard disk with hand, turn over the chassis, and fix the hard disk with screw at the indicated position.
- (4) Turn over the chassis, and fix the cover with screw.

3.2 Device Connection

Use VGA cable or HD cable to transmit the NVR signal to the display as shown in Figure3-1.

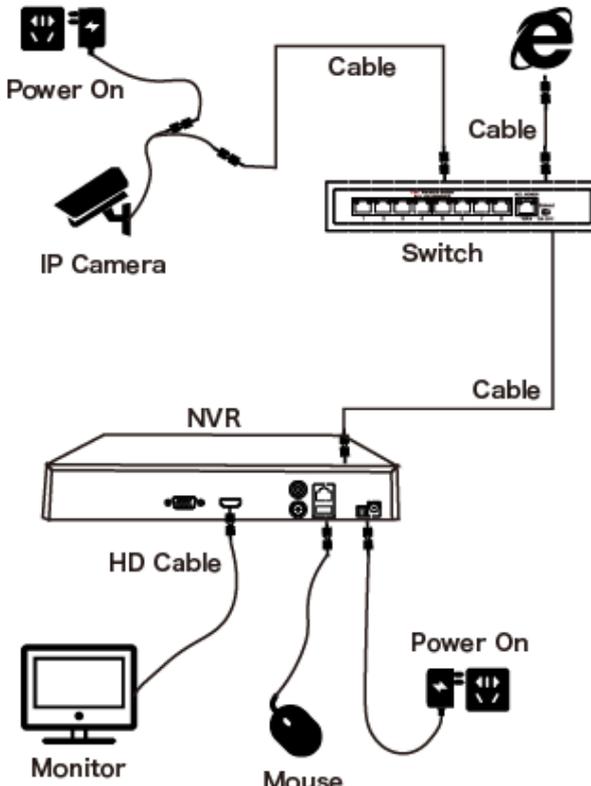


Figure3-1



CAUTION

- Devices with built-in PoE network ports support IPC plug-and-play functionality. When adding IP devices using the PoE network port plug-and-play method, make sure that the IP devices also support the PoE standard.

Chapter 4 NVR Startup

4.1 System Initialization

The steps to turn on NVR are as follows:

- ① Connect the device to the monitor and plug in the mouse and power cord.
- ② Turn on the power switch on the rear panel to start the device. The system initialization screen appears, as shown in Figure 4-1.



Figure 4-1



CAUTION

- Please confirm that the voltage to be connected matches the NVR requirements and ensure that the NVR ground is well grounded.
- If the power supply is abnormal, the NVR may not work properly or even damage the NVR. It is recommended to use a regulated power supply for power supply.



Note

After the device starts up, it can be simply configured through the boot wizard, which is the normal operation of the device.

4.2 Boot wizard

4.2.1 Quick Startup Wizard

Quickly configure the NVR as shown in Figure 4-2:

- ① Select the system language and click "Apply".

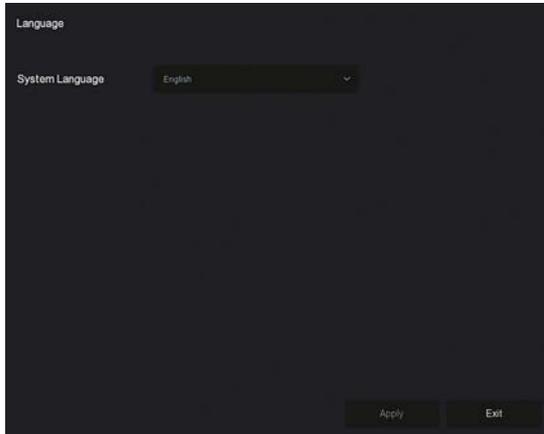


Figure 4-2 ①

- ② Then select a user, enter the password, select the system language and click "Login" to login the system (the default username is admin, and password is admin).



Figure 4-2 ②

③ When the login password is too simple, a security password prompt will pop up. Click "Modify".



Figure 4-2 ③

④ Click the "New password" box, enter a new password, confirm the new password, select the security question, enter the corresponding answer, and click "Save"; insert a USB flash drive on the device, and click "Export Key".

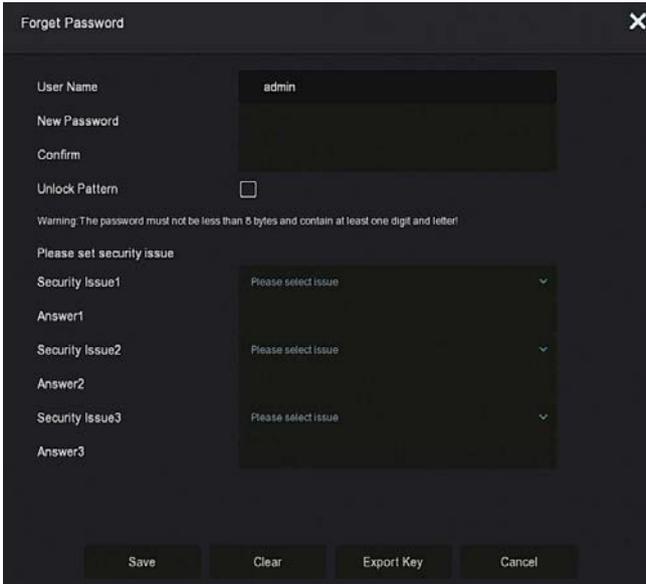


Figure 4-2 ④

Unlock Pattern: Check "Unlock Pattern", draw the unlock pattern of at least 4 points twice with the mouse to complete the unlock pattern setting.

⑤ Go to the "Date and Time" interface, configure the Device date and time, and click "Next".

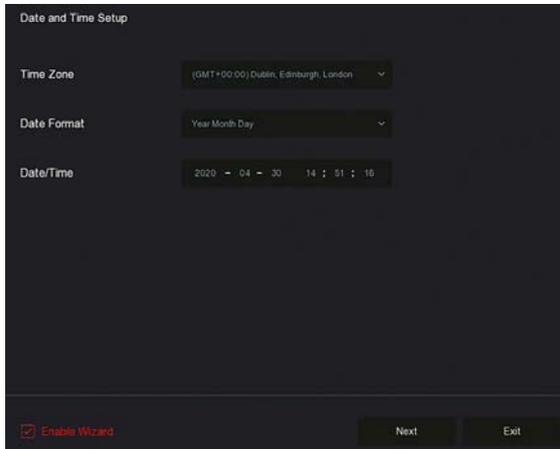


Figure 4-2 ⑤

⑥ Go to the "Network" interface, configure the network parameters of the device and click "Next".

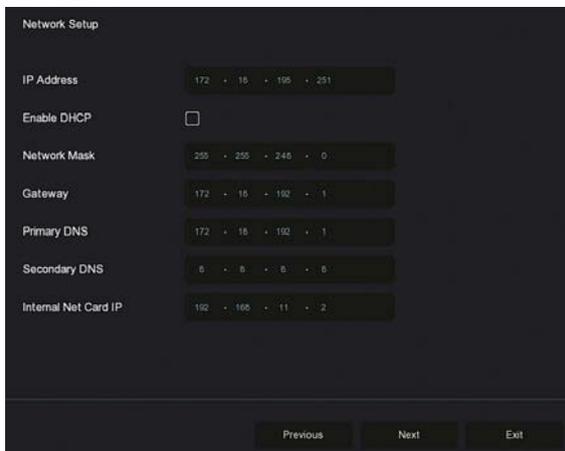


Figure 4-2 ⑥

⑦ Go to the "Hard Disk" interface to check the hard disk usage status: When the status shows "In Use", please click "Next".

When the status shows "not mounted", select the hard disk, click "Format" → "Confirm", the device restarts, and the hard disk is formatted.

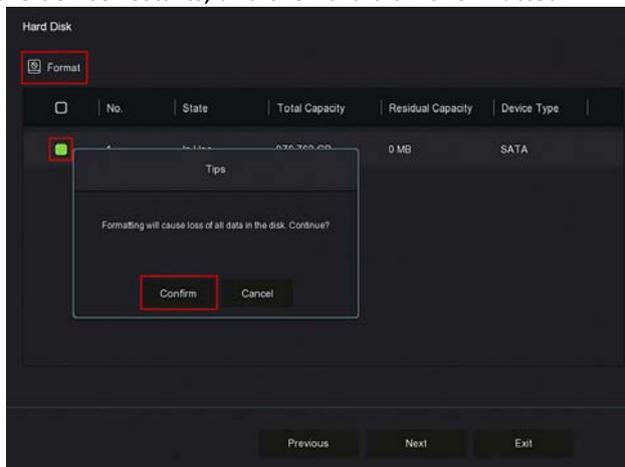


Figure 4-2 ⑦

⑧ Go to the "Camera" interface to search for and add devices, and click "Next".

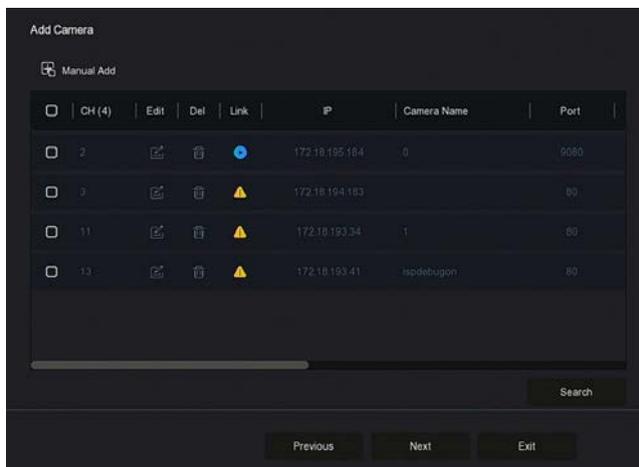


Figure 4-2 ⑧

⑨ Go to the "Change Password" interface to set system password and security questions according to your actual needs. Click "Complete", and the boot wizard is set up.

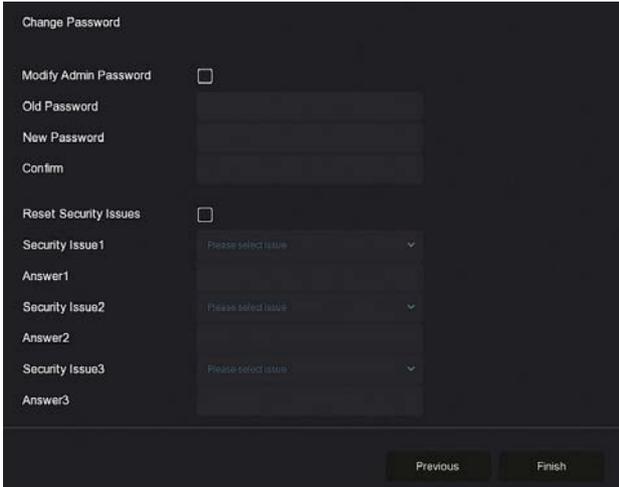


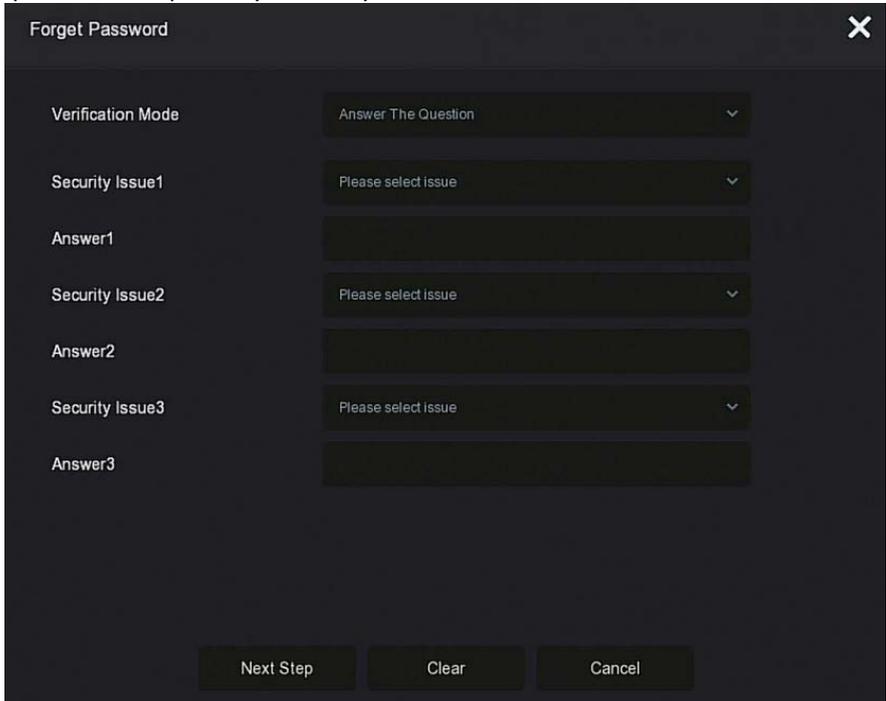
Figure 4-2 ⑨



- On the startup wizard screen, click "Exit→Confirm" to exit the startup wizard.
- In the Date and Time setting interface, uncheck "Enable Wizard"; the system will no longer display the "Boot Wizard" interface after the next boot.
- When the password is too simple, after the login, a password strength security interface will pop up. You can click "Modify later" to continue using the existing password.
- If you do not need to modify it, please click "Next" to enter the next interface directly.
- Please confirm that the NVR device has been properly connected to the network before setting up the network parameters.
- The hard disk needs to be formatted when it is first installed on the device.

4.2.2 Forget Password

If you forget your password, you can click "Forget password" on the login page to enter the Forget Password interface to reset the password (as shown in Figure 4-3). There are three ways to reset the password: "Answer the question", "Import Key" and "Dynamic Password".

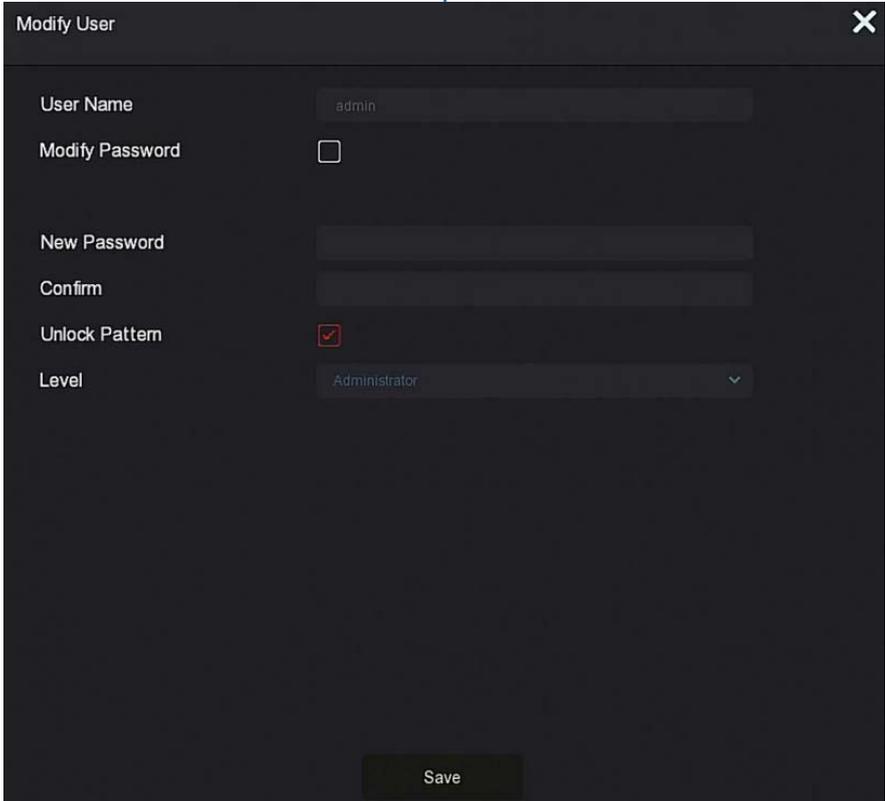


The screenshot shows a dark-themed 'Forget Password' dialog box. It contains the following elements:

- Verification Mode:** A dropdown menu currently set to 'Answer The Question'.
- Security Issue1:** A dropdown menu with the text 'Please select Issue'.
- Answer1:** A text input field.
- Security Issue2:** A dropdown menu with the text 'Please select Issue'.
- Answer2:** A text input field.
- Security Issue3:** A dropdown menu with the text 'Please select Issue'.
- Answer3:** A text input field.
- Buttons:** Three buttons at the bottom: 'Next Step', 'Clear', and 'Cancel'.

Figure 4-3

- **Answer The Question:** Select the three security questions when setting the password and enter the answer to the corresponding question, click "Next Step" to enter the new password setting interface, as shown in Figure 4-4.



The screenshot shows a 'Modify User' dialog box with a dark background. At the top right is a close button (X). The form contains the following elements:

- User Name:** A text input field containing 'admin'.
- Modify Password:** A checkbox that is currently unchecked.
- New Password:** A text input field.
- Confirm:** A text input field.
- Unlock Pattern:** A checkbox that is checked.
- Level:** A dropdown menu showing 'Administrator'.

At the bottom center of the dialog is a 'Save' button.

Figure 4-4

- **Import Key:** Select the authentication method as "Import Key", as shown in Figure 4-5.



Figure4-5

- ① Insert the USB disk (The key file is exported when the device setting password is stored.) on the device, and click "Import" to import the key file into the device.
- ② In the modification user interface, select "Change Password", enter a new password, confirm the password, and click "Save", as shown in Figure 4-6.

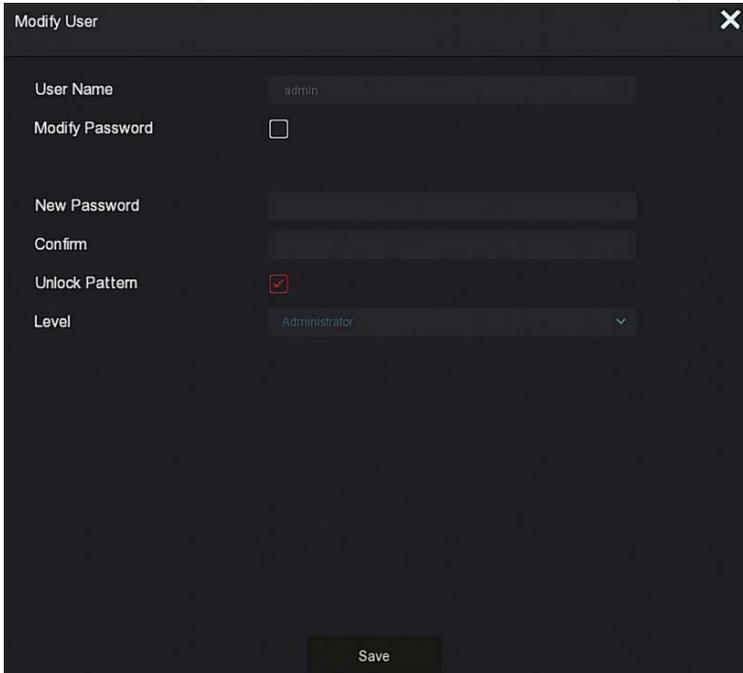


Figure4-6

- **Dynamic Password:** Select the authentication method as "Dynamic Password", as shown in Figure 4-7.

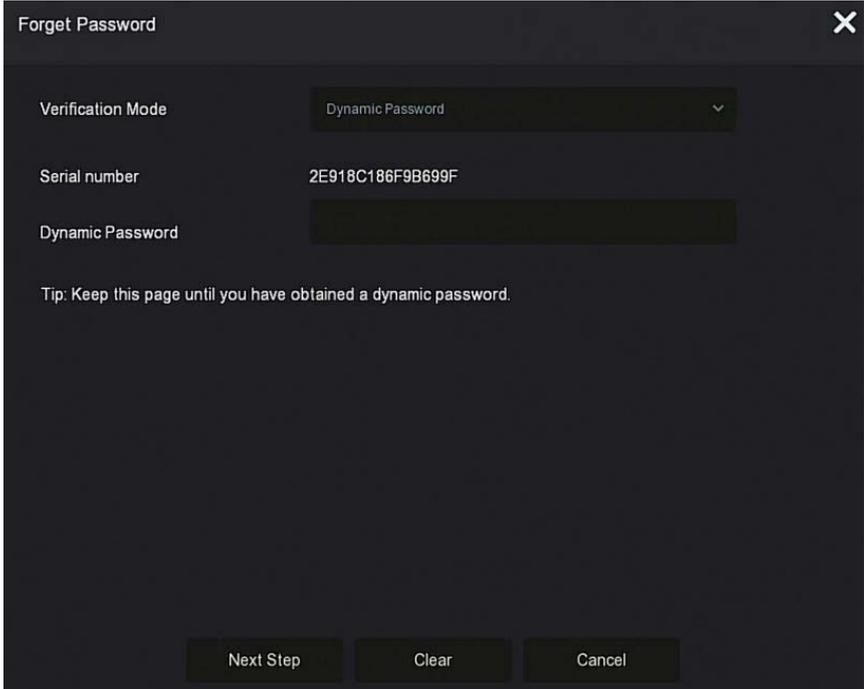
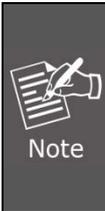


Figure 4-7

- ① Contact the supplier to get the security code. Enter the location of the security code, and click "Next Step".
- ② In the modify user interface, check "Change Password", enter a new password, confirm the password, and click "Save".



Note

- When selecting "Answer The Question", you must answer at least 2 questions, and the answer must be exactly the same as the set answer when setting the password before entering the "Modify User" interface.
- When you select "Import Key", the key file in the USB flash drive must be the key file exported by this device.

4.3 Preview Interface

After the system is fully booted, it will enter into the default preview interface, as shown in Figure 4-8.



Figure 4-8

After the device normally starts up, the default setting is to preview in multi-screen display mode. Products with different channels has different amount of split screens to display. On the preview interface, you can set the appropriate date and time. On the bottom left of the screen, it shows the recording status of each video channel or alarm status icon.

The function of each icon is shown in the following table:

Icon	Function
	The monitoring channel is in video.
	The monitoring channel is in the motion detection state.
	The monitoring channel is in the state of intelligent alarm.

Table 4-1

4.4 Quick add device

Quick add device is shown in Figure 4-9:

- ① At the preview menu, for the channel of unconnected IP Camera, click "  " icon.

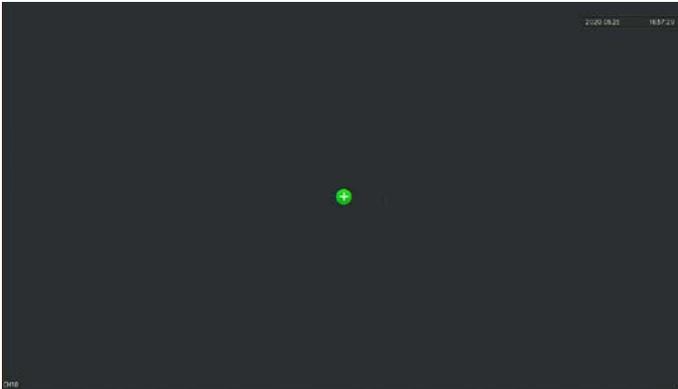


Figure 4-9 ①

- ② Select the device to add and click "  " to add.

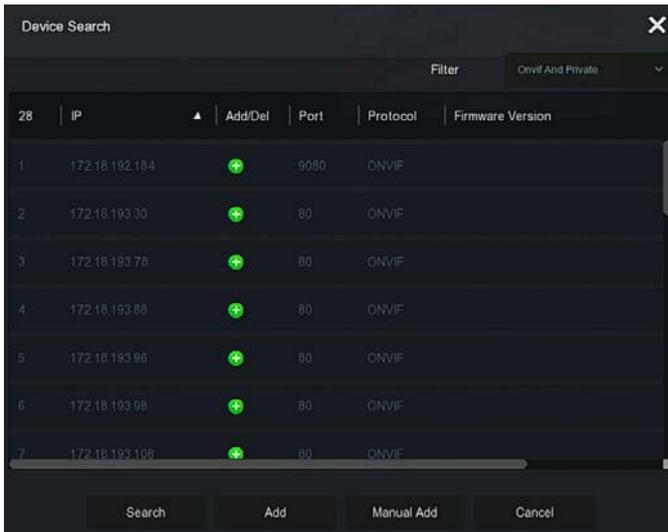


Figure 4-9 ②

- **Search:** Click to search all online IP devices in the LAN according to the protocol in the "Filter" box.
- **Add:** Add selected device.
- **Manual Add:** For details on how to manually enter device information, see 5.3.5.1.
- **Filter:** Select the display filter conditions and click "Search", the device searches and displays all IPCs in the LAN that meets the conditions.


Note

- Filter Search Add Device: In the Add Device interface, select the corresponding protocol in the "Filter" column → "Search" → Select Device → Click " + " .
- Manual Add: On the Device Search interface, click "Manual add" → Click "Enable" → Select Protocol, Enter Password, IP, Port → click "Save" .

4.5 Channel shortcut menu

After adding a device to a channel, click the channel. The shortcut menu appears as shown in Figure 4-10.



Figure 4-10

The function of each icon is shown in the following table:

Icon	Function
	Manual capture -- click the button to capture the current video pictures. Search, view and backup pictures can be carried out in "  File Management" → "All Files".
	Instant playback button -- click the button, and the channel will play back for 5 minutes before the video.
	PTZ -- click into the PTZ interface
	Audio output control button -- click to set the channel output volume and mute.

	<p>Electronic zoom button -- click to enter the full-screen zoom mode, display the unmagnified image of the channel in the lower right corner of the screen, and drag the red frame of the unmagnified image by mouse to switch the position of the enlarged image. Click " " and " " or scroll the mouse wheel to adjust the zoom or multiple. Click the right mouse button to exit the electronic zoom and restore the live preview interface.</p>
	<p>Image color button -- click into the image interface to set the channel brightness, contrast, saturation, sharpness, fill light, exposure setting, white balance, video adjustment of the parameter values.</p>
	<p>Bit stream information button -- when the mouse moves to the icon position, the channel shows the current stream and other related parameters.</p>
	<p>Turn on / off the channel for all-day timing recording</p>
	<p>Switch between main stream and sub stream</p>
	<p>Fisheye unfold function</p>

Table 4-2

4.5.1 PTZ

Click "" on the channel connected to PTZ to enter the PTZ setting interface, where you can perform operations such as PTZ speed, direction and zoom, as shown in Figure 4-11 ①



Figure 4-11 ①

PTZ setup interface is divided into PTZ Control and Common Control.

■ PTZ Control

PTZ control interface is used to set the PTZ direction rotation (including upper, lower, left, right, upper left, lower left, upper right and lower right) of the gimbal equipment, focusing, zooming, aperture, rapid positioning and cruising, etc.; use with the direction keys when setting, as shown in Figure 4-11 ②.



Figure 4-11 ②

- **Channel:** Select the channel where the PTZ device is located.
- **Zoom:** Click  /  to adjust camera zoom in/out.
- **Focus:** Click  /  to adjust camera focusing.
- **Iris:** Click  /  to adjust camera brightness.
- **Speed:** To control the speed of the pan/tilt, for example, the rotation speed in steps of 7 is much greater than the rotation speed in steps of 1.
- **Direction:** Use  /  /  /  /  /  /  /  to adjust the direction of the PTZ camera.

■ Common Control

On the PTZ setup interface, click "Common Control" to enter the common control interface, common control for calling preset points; select the cruise line to turn on / off the cruise, as shown in Figure 4-11 ③:

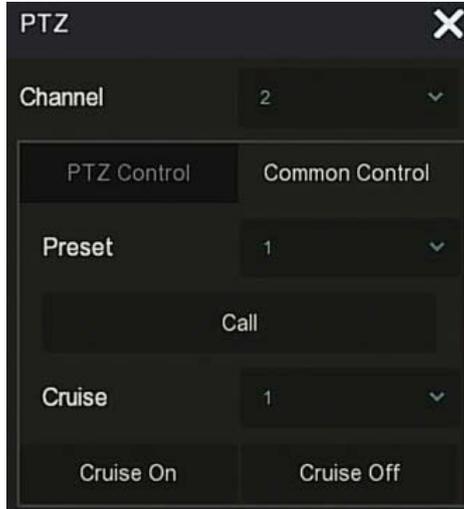


Figure 4-11 ③

- **Preset:** Select a preset point.
- **Call:** Click on the PTZ to jump to the selected preset point position.
- **Cruise:** Select the cruise route you have set and click to turn cruise on/off.
- **Cruise on:** Follow the cruise line to start cruising.
- **Cruise off:** Close the current cruise line.

4.5.2 Image

In the image color setting interface, you can set the image parameters of the IPC channel, such as brightness, contrast, IR-cut filtering, and white balance.

The steps for image setup are as follows:



Step 1: Click "☰" from the IPC channel to enter the channel image color setting interface, as shown in Figure 4-12.



Figure 4-12

Steps 2: Select the configuration channel.

Steps 3: Set image adjustment, fill light, exposure, backlight, white balance and video adjustment according to actual needs.

Steps 4: Click "Apply" to save the settings.

- **Image adjustment:** According to the actual environment, you can adjust the brightness, contrast, saturation and sharpness of the preview screen by dragging the progress bar. You can also set the value behind the progress bar, "Brightness", "Contrast", "Saturation", "Sharpness". Valid values range from 0-255 and the default value is 128.

- **Fill light:** The default is auto, the sensitivity is 3, the filtering time is 3, the light brightness is 100. When the fill light mode is "Auto", the device will turn on the fill light according to the actual environment. The user can switch the fill mode to "Day", "Night" and "Scheduled switch" according to the actual video scene in the scene, and switch the sensitivity and filtering time of the device according to the fill mode. When the fill light mode is "Scheduled switch", you can set the daylight and dark time (i.e., start and end fill time) and fill light brightness.
 - ✓ When the fill mode is "Day", the device monitor video is added to the daytime effect.
 - ✓ When the fill mode is "Night", the device monitor video is patched into a night effect.
 - ✓ **Filtering time:** It is used to prevent the ambient light from getting better and the light is frequently turned on and off, and the filtering time is set. During this time period, the camera is not disturbed by ambient light.
 - ✓ **Light brightness:** It is used to adjust the brightness of fill light, and the adjustable range is 0-100.

- **Exposure setting:** The default is Auto, which switches the Manual mode according to actual needs. When "Manual" is selected, the exposure time and gain control are activated.

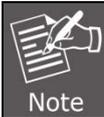
- **Backlight:** It is used to set backlight compensation and strong light suppression. The default is off, it can be turned on manually, and the backlight can be set.

- **White balance:** The default is auto and can be switched to "Manual".
 - ✓ **Manual white balance:** Support R, G, B gain adjustable, adjustment range is (0-255), please click "Save" after setting.

- **Video adjustment:** Here you can turn on and set 2D or 3D digital noise reduction.

- **Image enhancement:** Here you can select the flicker control mode, turn on and set the wide dynamic intensity.
 - ✓ **Flicker control :** The flicker control mode is selected according to the IPC installation environment and the flicker standard. The PAL standard is 50HZ and the NTSC standard is 60HZ. When the device is installed outdoors, it can be selected outdoor. The default setting is PAL.
 - ✓ **Sensor linear WDR:** The default is "Shutdown", you can switch the wide dynamic strength (Automatic, Weak, Moderate, Strong, Super) in the drop-down menu.

- **Defog mode:** Used to set the defogging mode and strength.
 - ✓ **Defog mode:** The default is off, and you can select On or Auto from the drop-down menu.
 - ✓ **Defog strength:** The default is 0. When the defogging mode is on, the defogging intensity can be set. The range of values can be set from 0-255.



- The camera image interface only displays the device support functions. The specific interface is subject to the actual product.

4.5.3 Fisheye Unfold

Select the channel connected to the fisheye IPC and click "" to enter the fisheye expansion interface, as shown in Figure 4-13. Here you can set the installation mode and deployment mode of the fisheye.

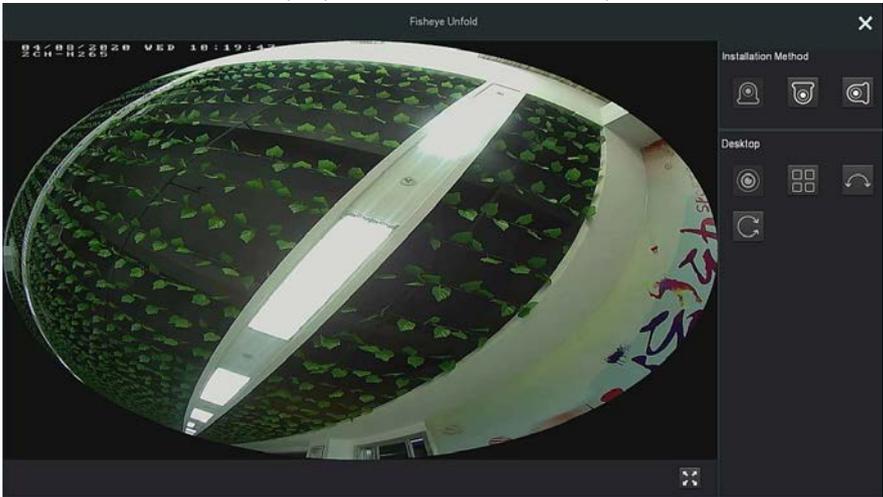


Figure 4-13

The fisheye installation modes are divided into top mounted mode, wall mounted mode and ground mounted mode, as shown in Table 4-4 below.

Icon	NOTES
	Desktop
	Top suspend
	Wall hanging
	Fisheye, panorama original
	Four expansions on the four-screen interface; hold down the left mouse button to drag the screen up and down slightly.
	180 degrees panorama
	360 degrees panorama -- hold down the left mouse button and drag the red box in the lower right corner of the video to switch the magnified angle
	Full screen -- right click to exit full screen

Table 5-1


 Note

- Only some models support the fish-eye function. Please refer to the actual function of the device.
- If the channel in the shortcut menu is not connected to the fisheye camera, the system prompts "This channel is not fisheye channel!"
- The NVR supports the fisheye expansion function only when the fisheye device is added through a private protocol.

Chapter 5 NVR Menu

5.1 Shortcut menu

After logging in to the system, move the mouse to the bottom of the preview interface, and a shortcut menu pops up, as shown in Figure 5-1. You can enter the interface to make some relevant settings, such as start (file management, system settings, logout, shutdown), playback, alarm, recording status, alarm status, hard disk status, network status, system information, poll setup interface, turn on / off OSD, turn on / off all-day recording, screen split (1 screen, 4 screens, 8 screens, 9 screens.) and exit full screen (enter main menu mode).



Figure 5-1

The shortcut menu icons and specific functions are shown in Table 5-1 below:

Icons	Functions
	Including file management, system settings, logout, shutdown. Click "File Management" to quickly enter the file management interface. Click "System Setup" to quickly enter the system settings interface. Click "Logout" to log out the current user. Click "Shutdown" for soft shutdown, the power needs to be turned on again when the device is restarted.
	Click into the Playback interface.(Detailed operation as 5.3.2)
	Click to enter the alarm output status interface. (Detailed operation as 5.1.1)
	Click to enter the recording status interface, where you can view the channel recording status, stream type, bit rate and other related information.
	Click to enter the alarm status interface, where you can view the alarm name, type, status and other related information of each alarm input channel.

	Click to enter the HDD interface, where you can view the hard disk status, capacity and other related information.
	Click to enter the network status interface, where you can view the device's IP address, subnet mask, gateway and other network information.
	Click into the system information interface. (Detailed operation as 5.1.2).
	Poll: Click into the poll setup interface (Detailed operation as 5.1.3)
	Turn on / off the channel name and channel number of each channel.
	Turn on / off all-day timing recording for all channels
Screen split	Screen splitting will divide the screen into 1, 4, 9, 16, etc. according to the number of devices supported by the NVR. 
	Exit full screen, click to enter the main menu mode.

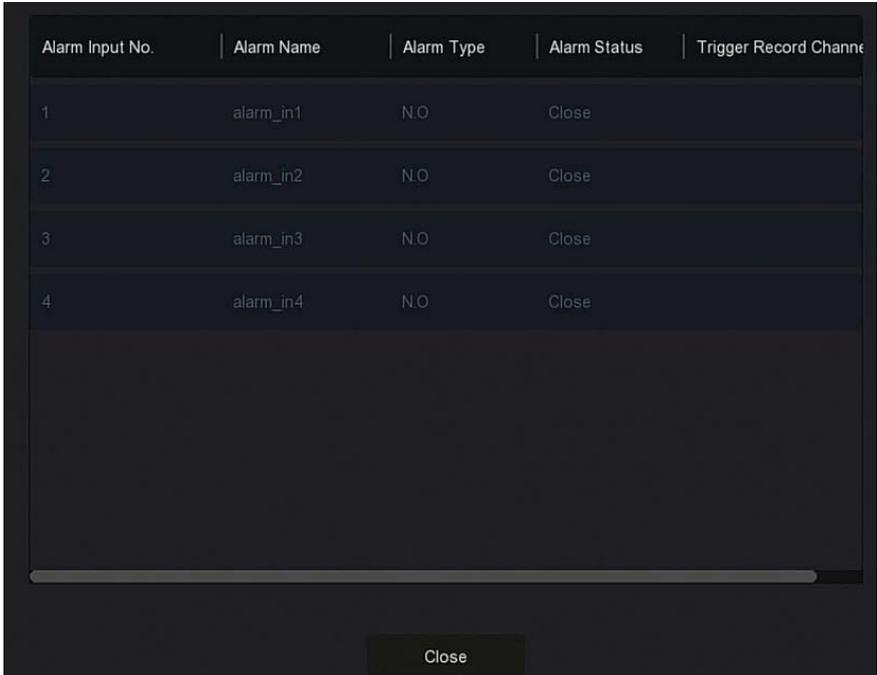
Table 5-1

 Note	<ul style="list-style-type: none"> ● At present, only some equipment of the company supports fisheye correction. ● Multi-screen display depends on the maximum number of channels supported by the device. For example, there are 9 screens in the shortcut menu of the 9-channel device and 16 screens in the 16-channel device shortcut menu.
---	---

5.1.1 Alarm Status



Click " " in the shortcut menu to enter the alarm output interface, where you can view the alarm output status of the device, and you can manually trigger / off the alarm output, as shown in Figure 5-2 below:



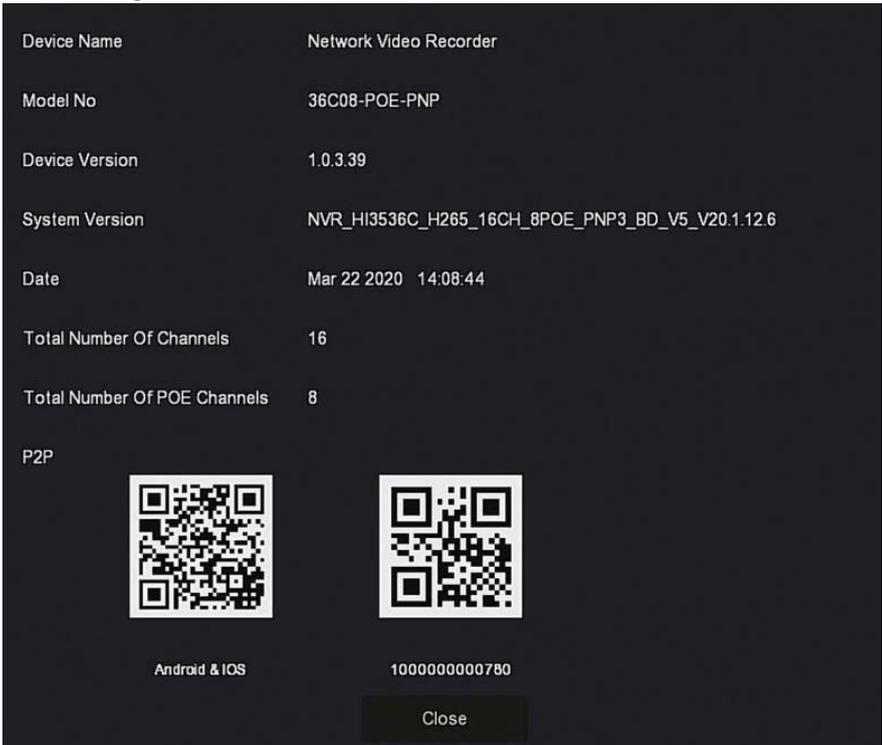
Alarm Input No.	Alarm Name	Alarm Type	Alarm Status	Trigger Record Channel
1	alarm_in1	N.O	Close	
2	alarm_in2	N.O	Close	
3	alarm_in3	N.O	Close	
4	alarm_in4	N.O	Close	

Figure 5-2

5.1.2 System Info



Click "  " in the shortcut menu to enter the version information interface, where you can view the device name, Model No., number of channels supported by the product, serial number and other information, as shown in Figure 5-3 below:



Device Name	Network Video Recorder
Model No	36C08-POE-PNP
Device Version	1.0.3.39
System Version	NVR_HI3536C_H265_16CH_8POE_PNP3_BD_V5_V20.1.12.6
Date	Mar 22 2020 14:08:44
Total Number Of Channels	16
Total Number Of POE Channels	8

P2P



Android & IOS 1000000000780

Close

Figure 5-3

5.1.3 Poll

The device supports the poll function. After setting, the system will play video frames in turn according to the split screen. After each group of pictures is displayed for a certain time, it will automatically jump to the next group of pictures, as shown in Figure 5-4:



Step 1: Click "Poll" in the shortcut menu to enter the poll setting interface.

Steps 2: Check "Enable" to set polling interval and mode.

Steps 3: Click "Save".

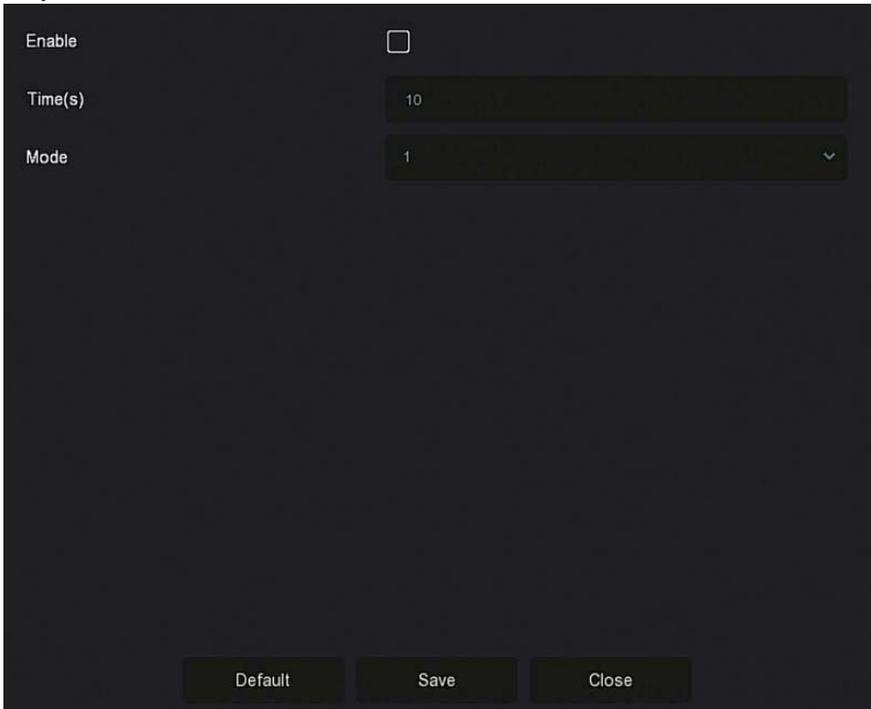


Figure 5-4

- **Enable:** Turn on/off poll function, default is off.
- **Time(s):** Round trip interface time, default 10 seconds.
- **Mode:** The screen number of split screen, the default single channel display.

5.2 Main Menu

Click the right mouse button on the preview interface to enter the main menu interface, which is composed of the main menu (upper menu bar) and shortcut menu (lower menu bar).

Main Menu includes Preview, Playback, File Management, Smart Analysis, Channel, Storage, System, Maintenance as shown in Figure 5-5.

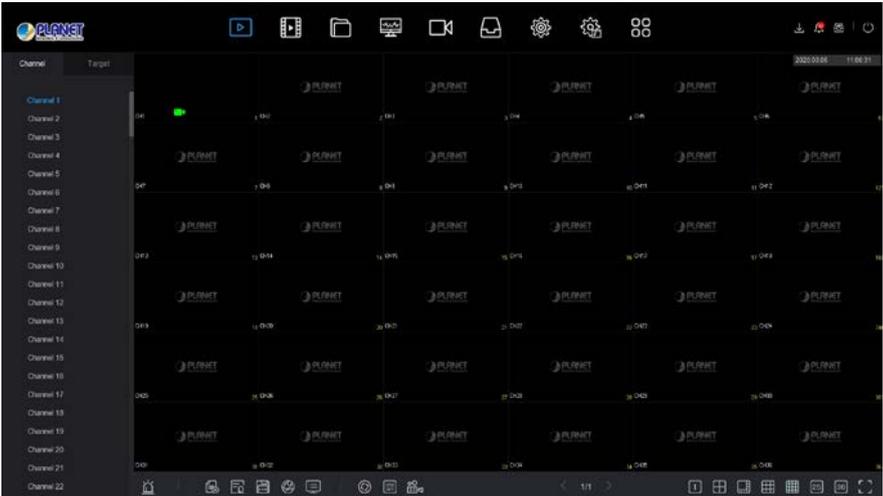


Figure 5-5

The main menu icons and specific functions are shown in Table 5-2 below:

Icons	Functions
	Click to enter the preview interface.(Detailed operation as 5.3.1)
	Click to enter the playback interface.(Detailed operation as 5.3.2)
	Click to enter the file management interface.(Detailed operation as 5.3.3)
	Click to enter the smart analysis interface.(Detailed operation as 5.3.4)
	Click to enter the channel management interface.(Detailed operation as 5.3.5)
	Click to enter the hard disk management interface.(Detailed operation as 5.3.6)
	Click to enter the system interface.(Detailed operation as 5.3.7)
	Click to enter the system maintenance interface. (Detailed operation as 5.3.8)
	Click to enter the alarm information interface.(Detailed operation as 5.3.9)
	Click to enter the backup progress interface.(Detailed operation as 5.3.10)
	Click to enter the logout interface.(Detailed operation as 5.3.11)

Table 5-2

5.3 Operation

5.3.1 Preview

In the main menu, click "" to enter the preview interface, as shown in Figure 5-6:



Figure 5-6

- **Channel:** Display all channels of the system. Double-click a channel, and the real-time picture of the channel will be displayed in the current preview box (red box).
- **Target:** To view the snapshot results, check the options ("Face Detection", "Person Detection", "Smart Detection", "Vehicle Recognition") to view real-time snapshots.

5.3.2 Playback

5.3.2.1 Playback channel video

In the main menu, click "" to enter the video playback interface, as shown in Figure 5-7.



Figure 5-7

The interface description is shown in the following table:

No.	Function	Description
1	Channel	<p>Min / Max Ch: Intelligently select the number of playback channels. The minimum number of channels selects one channel at a time by default; the maximum number of channels selects the maximum channels supported by the device at a time, such as 4 channels.</p> <p>Channel: Select the channel number to be queried (multiple channels can be selected at the same time, depending on the device performance).</p>
2	Calendar	Dates with color dots on the calendar indicate that there is video recording, and

		<p>dates without color dots indicate that there is no recording on that day. In any playback mode, select the recording type and channel; click the date you want to view, and the timeline will be updated to the recording track of the day.</p>
<p align="center">3</p>	<p align="center">Playback control area 1</p>	<p>  : External file  : Playback by time  : Switch to main / sub stream  : POS overlay switch  /  : Edit / Exit Edit  : Clip time setting  : Export Clip, select the clip file, and then click "OK" to back up the selected file to the USB flash drive.  /  : Deceleration / Acceleration  /  : Frame rewind / Frame advance  : Reverse video  /  : play/pause  /  : Previous page / Next page </p>

		 : 1/4/9/16 split screen  : Full-screen playback
4	Play bar	<p>Display the recording type and the time period under the current conditions</p> <p>When the device is in multi-split screen, click the playback interface and select a channel. The first time axis is the recording time axis of the selected channel.</p> <p>Click a point in the colored area with the mouse to start playback from that point in time.</p>
5	Playback control area 2	 : Tab off / on Video Types:  All: all videos  N: normal record  M: motion detection record  A: alarm record  M&A: motion detection & alarm record  I: Intelligent record  : Zoom in / out play bar
6	Menu hide	<p>Click the play interface to pop up the hidden menu</p>  : Capture  : Turn volume on / off

		 : Electronic zoom  : Add tags, intercept playback files and add 5 seconds before and after recording  : Fisheye  : Close hidden menu
7	Display window	Display searched video -- according to different systems, it supports 1, 4, 8, 16 screen playback at the same time, multi-screen playback, double-click a screen, video playback interface into a single screen playback, right-click at this time, return Screen playback.

Table 5-3

- **Playback:** Retrieve the corresponding video files according to the channel, date and video type, and play the video files in sequence from the playback bar that meets the conditions.

The specific steps are as follows:

Step 1: In the main menu, click "" to enter the playback interface.

Step 2: Select the video playback channel, and the calendar will automatically display the current month's video recording.

✓ **Single channel Playback**

1. Select the channel to be played back in the channel list.
2. Double-click the date to be played back, and the display interface starts to playback the recording, as shown in Figure 5-8 below.



Figure 5-8

✓ **Multi-channel playback**

1. Select multiple channels that need to be played back in the channel list.
2. Double-click the date to be played back; the display interface starts multi-channel synchronous playback video, as shown in Figure 5-9 below.

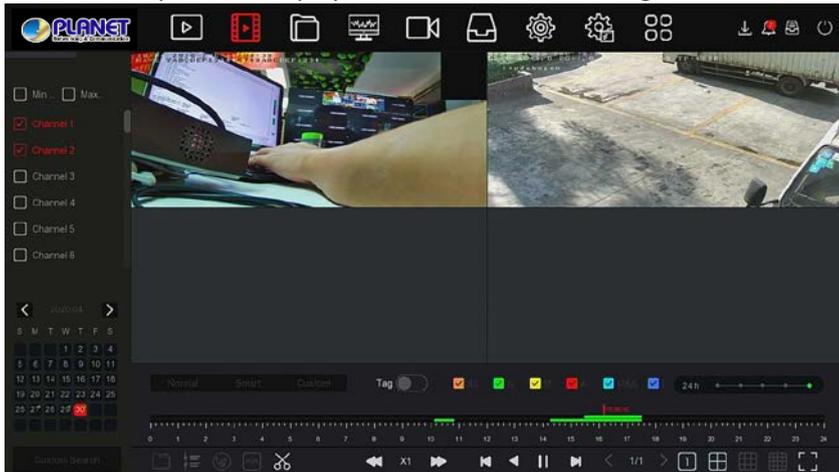


Figure 5-9



- Multi-channel playback supports maximum speed playback.
- The interface shown in Figure 5-7 is for reference only. Different models have different maximum number of channels for simultaneous playback and different functions. Please refer to the actual interface.
- The recording information of the channel can be selected in the first progress bar display box, and the intelligent search recording information of the channel can be selected in the second progress bar display box.

■ Tag playback

The tag playback function can help users record relevant information at a certain point in time when playing back videos, so that they can view these marked videos at any time.



Step 1: In the main menu, click " " to enter the video playback interface.

Steps 2: Select the channel for video playback and the date when the video is recorded, and the searched video will be displayed on the progress bar.

Steps 3: Toggle the tag button to " "; after adding a custom tag, the playback progress bar will display a white label point to indicate that there is a tag in the current position.



Figure 5-10



- After adding the tag, the system will automatically clip and save the 5 second video before and after the tagging time.

5.3.2.2 Playback assistance function

■ Electronic zoom

The specific operation steps are as follows:

- Step 1:** In the main menu, click "" to enter the video playback interface.
- Steps 2:** Select the channel for video playback and the date when the video is recorded, and the searched video will be displayed on the progress bar.
- Steps 3:** Click "" to playback on the display interface.
- Steps 4:** Click playback interface, popup hidden menu, click "" to enter Electronic zoom interface, as shown in Figure 5-11 below.

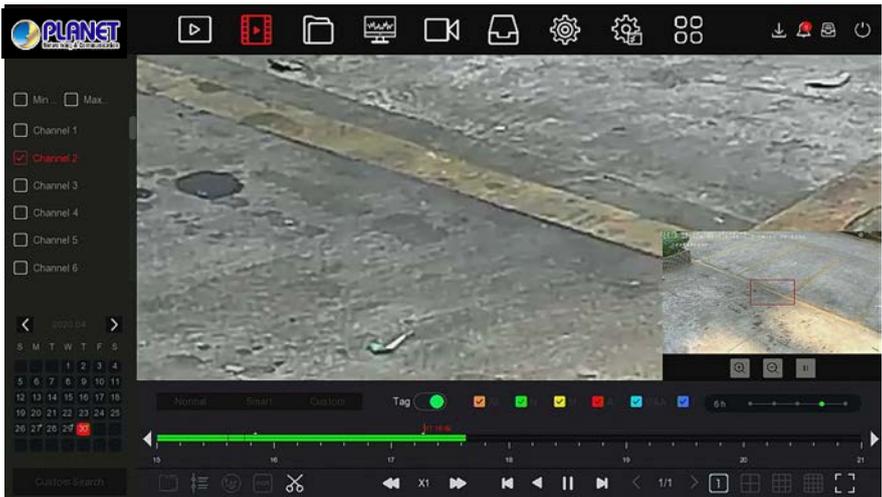


Figure 5-11



- Enter the Electronic zoom interface, the default image is enlarged; the maximum magnification of the image is 16 times.
- When enlarging an image, the center of the image is enlarged by default. Hold down the left mouse button and drag the image to switch to the area to be enlarged.
- You can use the mouse wheel to zoom in and zoom out the image. The mouse wheel slides down to enlarge the image; slides up to reduce the image.

■ Clip

It supports clip video files during video playback. The specific operation steps are as follows:



Step 1: In the main menu, click " " to enter the video playback interface.

Steps 2: Select the channel for video playback and the date when the video is recorded, and the searched video will be displayed on the progress bar.

Steps 3: Click "  ", at this time, the start and stop characters appear on the progress bar, you can manually adjust them to obtain the desired length of the video file, as shown in Figure 5-12 below.



Figure 5-12

Steps 4: Click " " to export clips to USB flash drive, as shown in Figure 5-13 below.

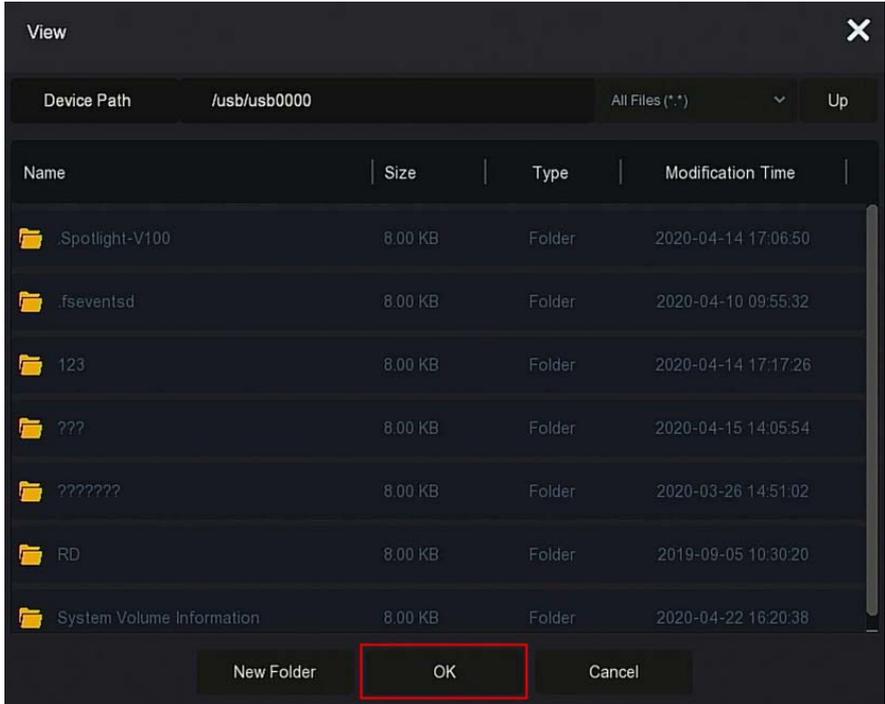


Figure 5-13

 **Note**

- You can also click " " to set the start and end time of the clip to export the video file directly, as shown in Figure 5-14 below.

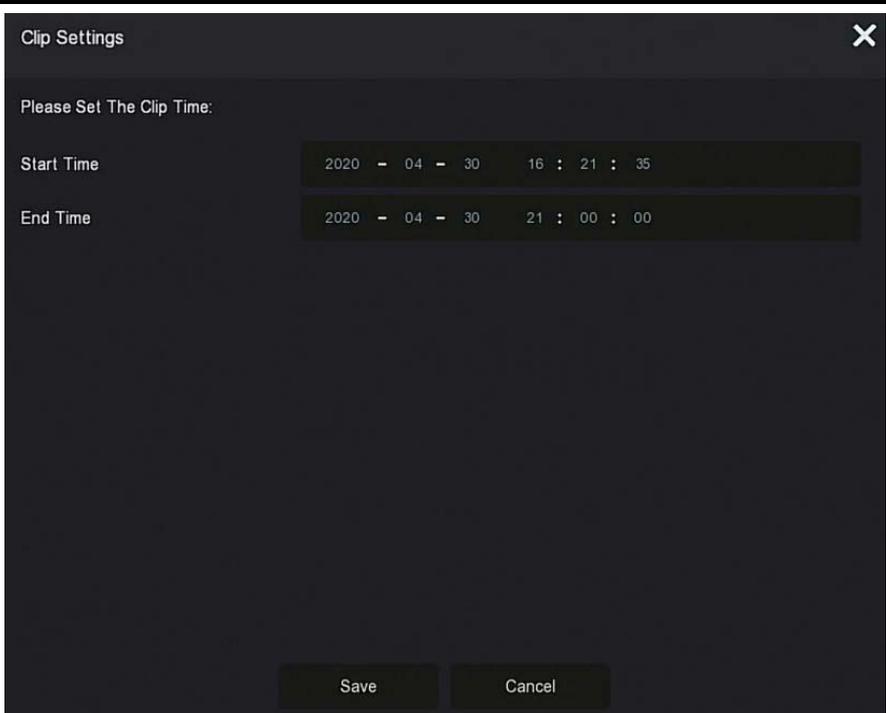


Figure 5-14

5.3.3 File Management

5.3.3.1 All Files

All file retrieval, here you can retrieve all types of files in the storage device according to user-defined retrieval conditions, and display them by category.

Step 1: In the main menu, click "  " to enter the file management interface, as shown in Figure 5-15.

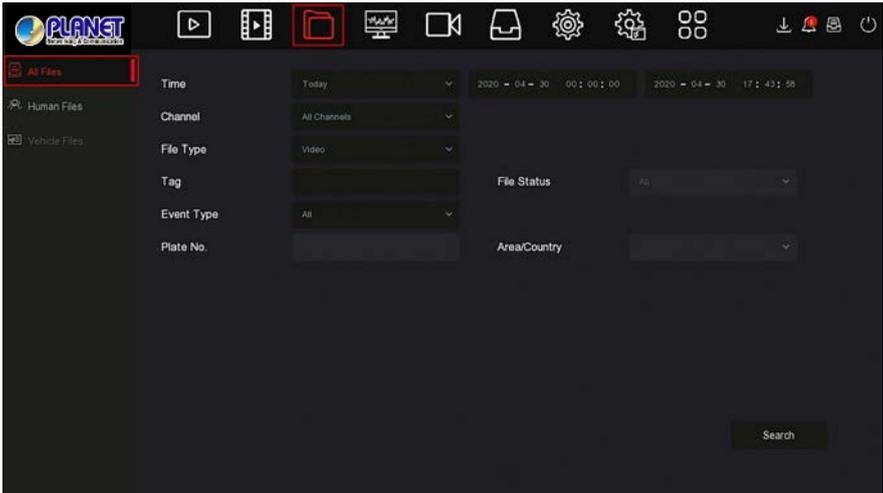


Figure 5-15

Steps 2: Set the search conditions (time, channel, file type, label and event type), click "Search", the search results will show files that meet the conditions, as shown in Figure 5-16 below.

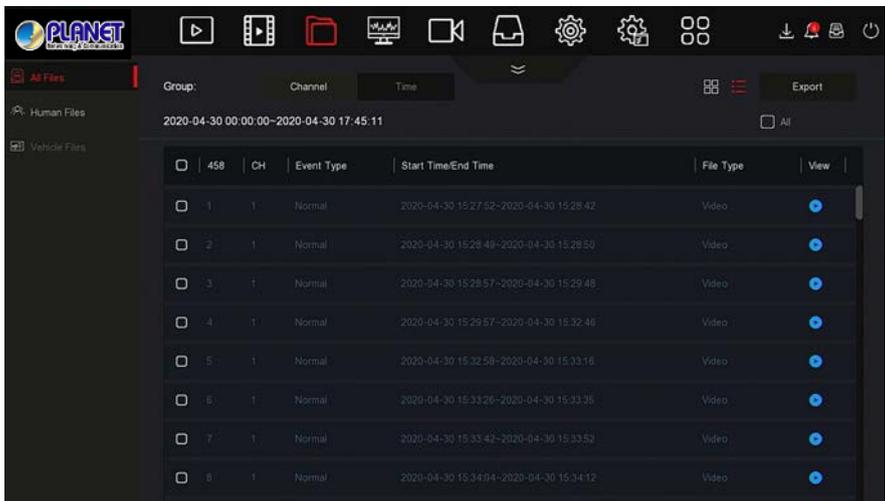


Figure 5-16

- **Channel:** The search results are displayed in groups by channel.
- **Time:** The search results are displayed in groups by time.
- **All:** The search results show video files and picture files that meet the criteria.
- **Video:** The search results only show video files that meet the criteria.
- **Picture:** The search results only show the image files that meet the conditions.
- : Display search results by thumbnail.
- : Display search results by list.
- : Jump to the first page for search results.
- : 1 page forward
- : 1 page backward
- : Jump to the last page for search results.

-  : Collapse the search results and return to the search condition page.
-  : Enter the search results page to view the results of the previous search.

Steps 3: Related operations such as backup, viewing videos or pictures can be performed on the retrieval results.

- **View Video:** Click the "▶" corresponding to the video file in the search result to view the video clip.
- **View Picture:** Click the "▶" corresponding to the picture file in the search result to view the pictures.

5.3.3.2 Human Files

Human Files function can retrieve and view personnel pictures and videos. They can be backed up to the storage device.

Step 1: In the main menu, click " → Human Files" to enter the human files interface, as shown in Figure 5-17.

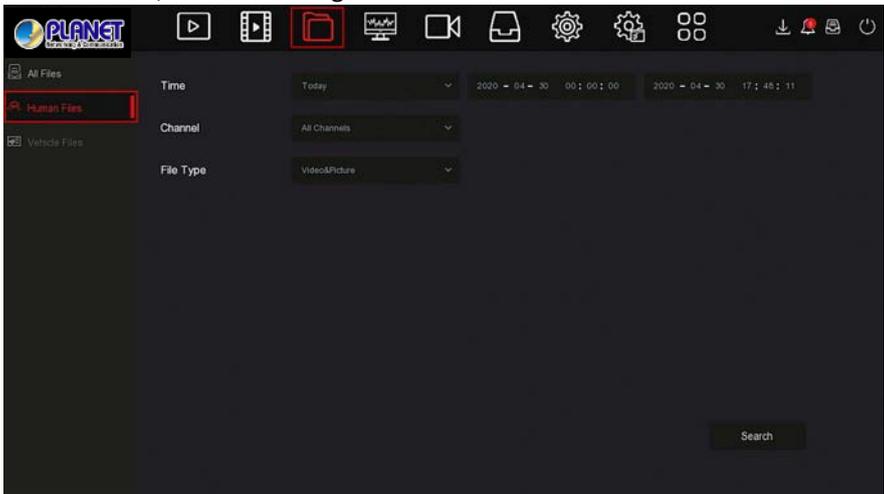


Figure 5-17

Steps 2: Set the search conditions (time, channel, file type), click "Search", the files that meet the conditions will be displayed, as shown in Figure 5-18 below.

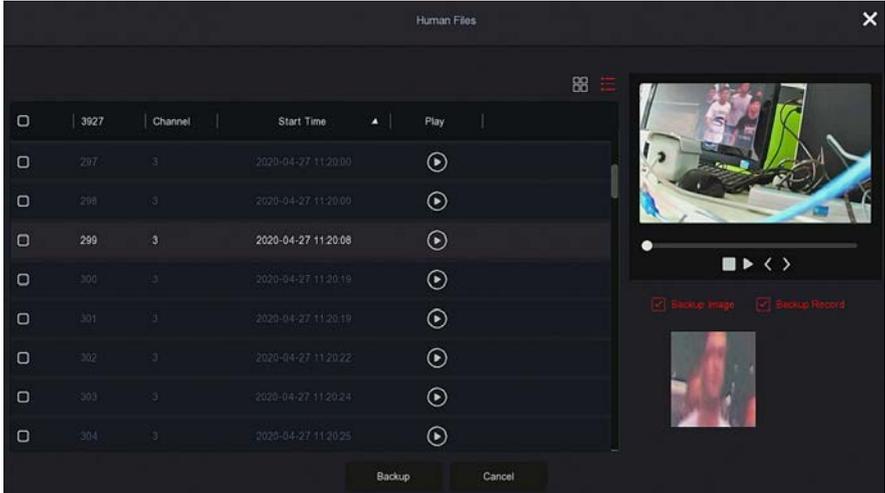


Figure 5-18

Steps 3: Related operations such as backup, viewing videos or pictures can be performed on the retrieval results.

5.3.3.4 Export

The file management function supports backing up video and picture files with a USB device, such as U disk and mobile hard disk.

Prerequisites:

The NVR has been correctly connected to the backup storage device.

Step 1: In the main menu, click "" to enter the document management interface.

Steps 2: Set search conditions and select video or picture files in the search results, as shown in Figure 5-19 below.

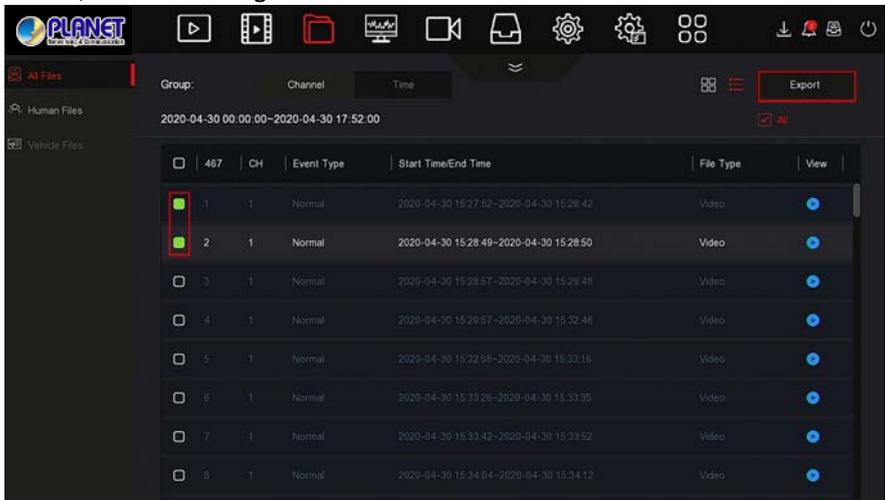


Figure 5-19

Steps 3: Click "Backup → New Folder", enter the file name, and click "OK", as shown in Figure 5-20 below.

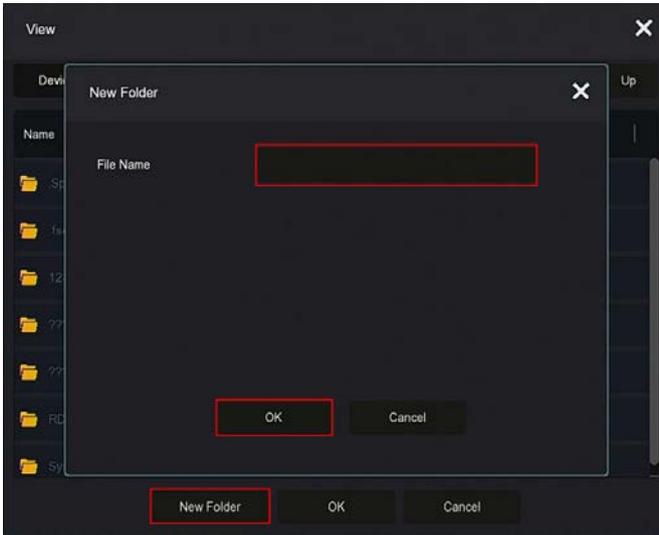


Figure 5-20

Steps 4: Click "OK→OK", start backing up files to a new folder in the USB flash drive.

Steps 5: Click " "to view the download progress, as shown in Figure 5-21 below.

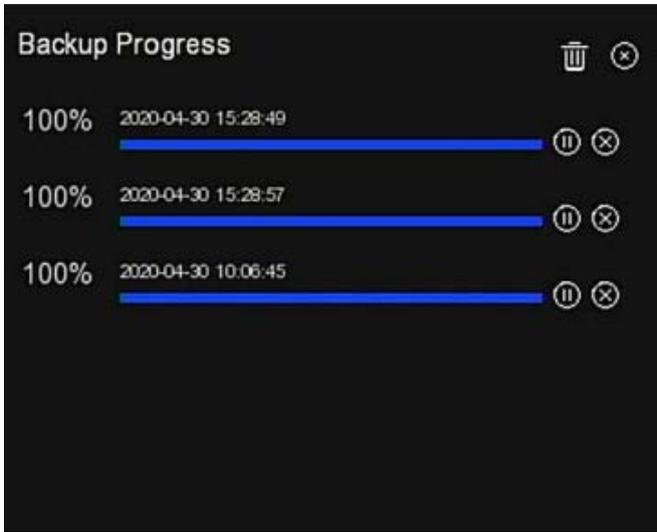


Figure 5-21



- When files are backed up, you can delete and pause the backup files through "", "", and "".

5.3.4 Smart Analysis

The Smart Analysis includes Face Database, Face Comparison Search, People Count and Heat Map.

5.3.4.1 Face Database

Face Database is used to store face pictures, and can also be used for face comparison and alarm comparison. With the functions of adding, deleting and editing face database, as shown in Figure 5-22 below.

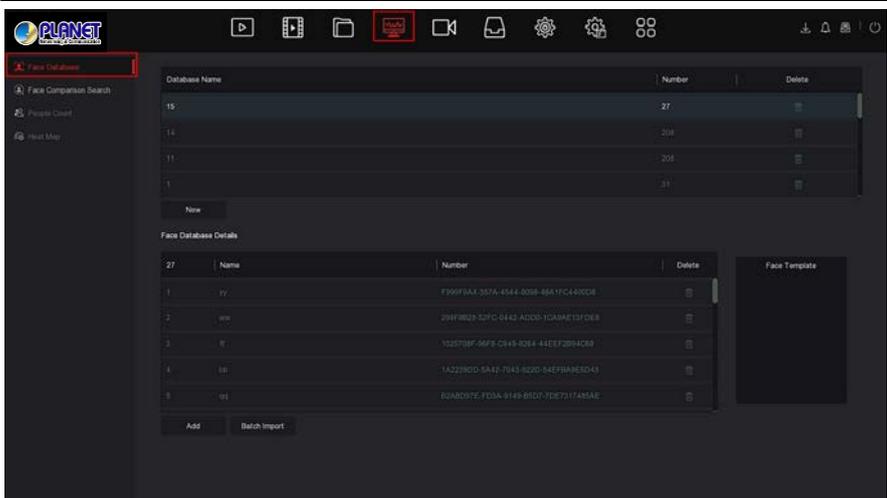


Figure 5-22

■ **Add Face Database**

Step 1: In the main menu, click " →Face Database " to enter the Face Database interface.

Steps 2: Click "Add" at the name of the face database, as shown in Figure 5-23 below.

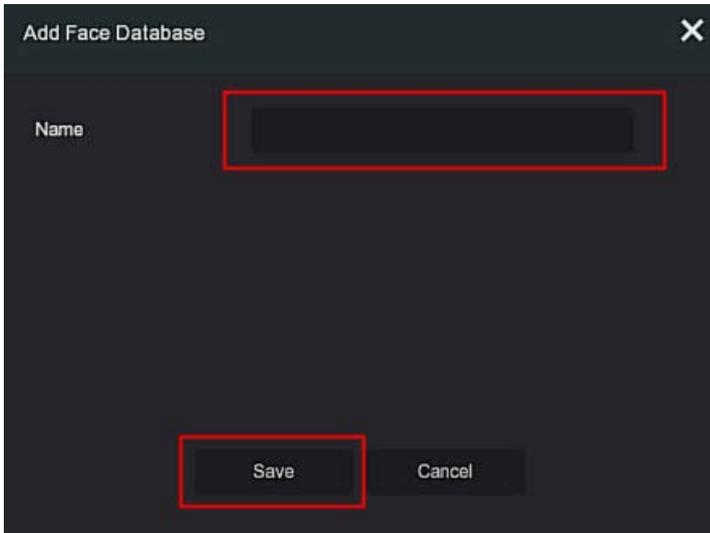


Figure 5-23

Steps 3: Enter the name of the new face database, click "Save", the new face database will be added to the face database list.

■ Delete Face Database

Step 1: In the main menu, click " →Face Database " to enter the Face Database interface.

Steps 2: Select the face database in the list, click ".

■ View Face Database

Step 1: In the main menu, click " →Face Database " to enter the Face Database interface.

Steps 2: Choose the face database, click " ", you will view all the picture numbers of the face database in the detailed information list.

■ **Add A Face List**

Add a face list means that only one picture can be uploaded to the face database at a time. There are two ways to import the pictures: local image and taking picture.

◆ **Local image import specific operation steps:**

Step 1: Insert the U disk that stores the face image into the device.

Steps 2: In the main menu, click " → Face Database " to enter face database interface.

Steps 3: Select the face database to add face pictures.

Steps 4: Click "Add → Local Image ", select "Name" to enter the name of the imported picture, as shown in Figure 5-24 ① below.

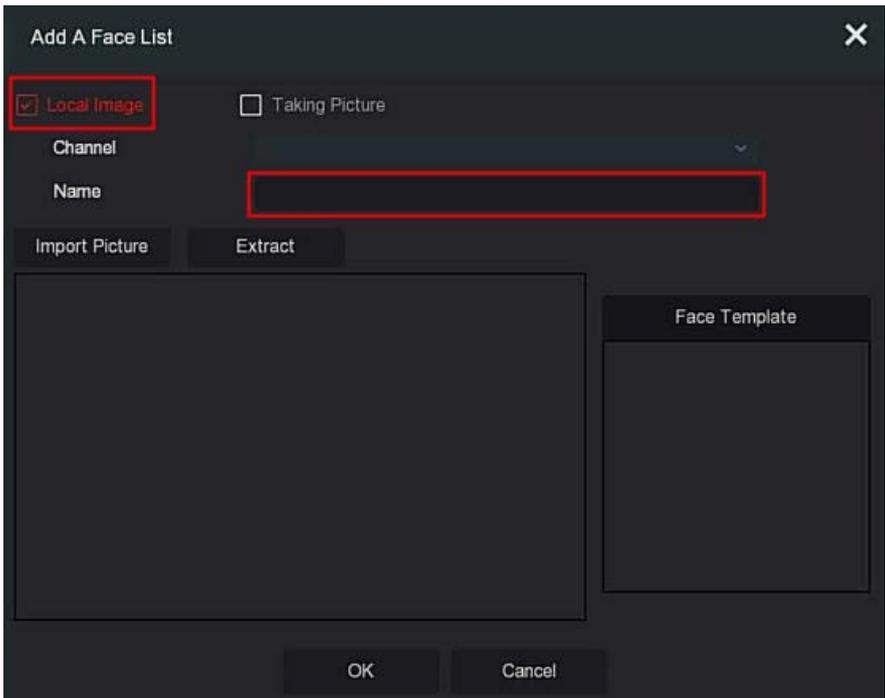


Figure 5-24 ①

Steps 5: Click " Import Pictures" →choose picture from U disk, as shown in Figure 5-24 ② below.

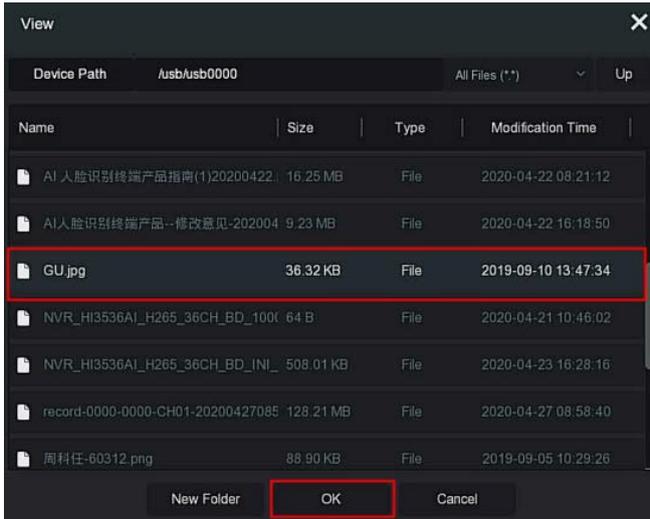


Figure 5-24 ②

Steps 6: Click "OK→Extract", as shown in Figure 5-24 ③ below.

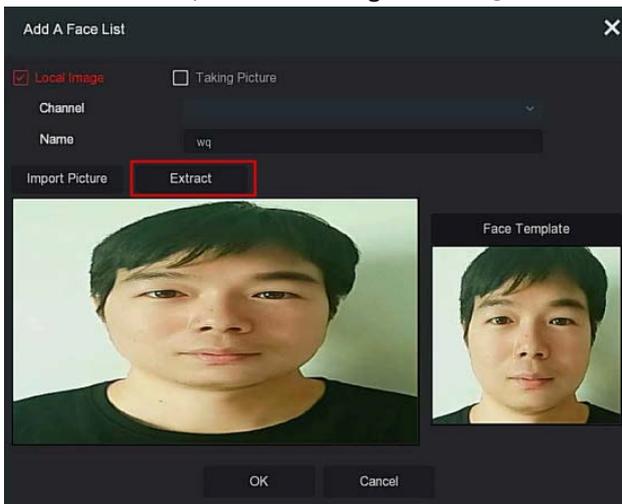


Figure 5-24 ③

Steps 7: Click "OK" to finish adding a single face list, as shown in Figure 5-24 ④ below.

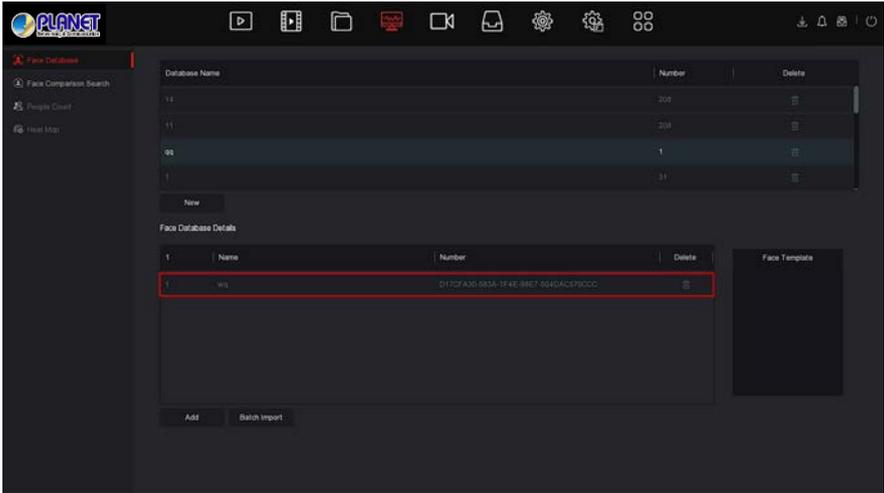


Figure 5-24 ④

◆ **Specific steps for importing captured pictures:**

Step 1: In the main menu, click " →Face Database " to enter Face Database interface.

Steps 2: Select the face database to add face pictures.

Steps 3: Click "Add →Taking Picture", and select the shooting channel.

Steps 4: Click "Shooting"→Extract", as shown in Figure 5-25 below.

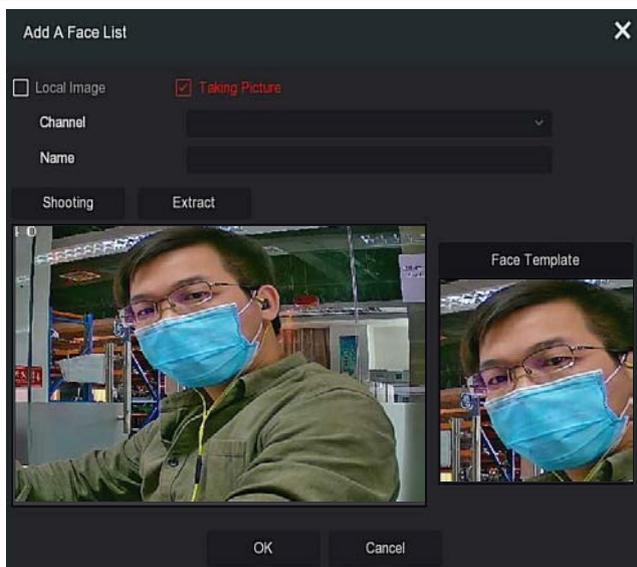


Figure 5-25

Steps 5: Enter the name of the imported picture in "Name", click "OK" to finish adding a single face list.

■ **Delete picture from face database**

In the details of the face database interface, choose the picture you want to delete; click "🗑" to delete it from the current face database.

■ **Add multiple face lists**

That means "Batch Import"; multiple pictures can be uploaded to the face database at one time.

Step 1: Store multiple face pictures in a folder, and insert the U disk that stores the folder into the device.

Steps 2: In the main menu, click " →Face Database" to enter Face Database interface.

Steps 3: Click "Batch added".

Steps 4: Choose a folder to store pictures, click "OK", as shown in Figure 5-26 below.

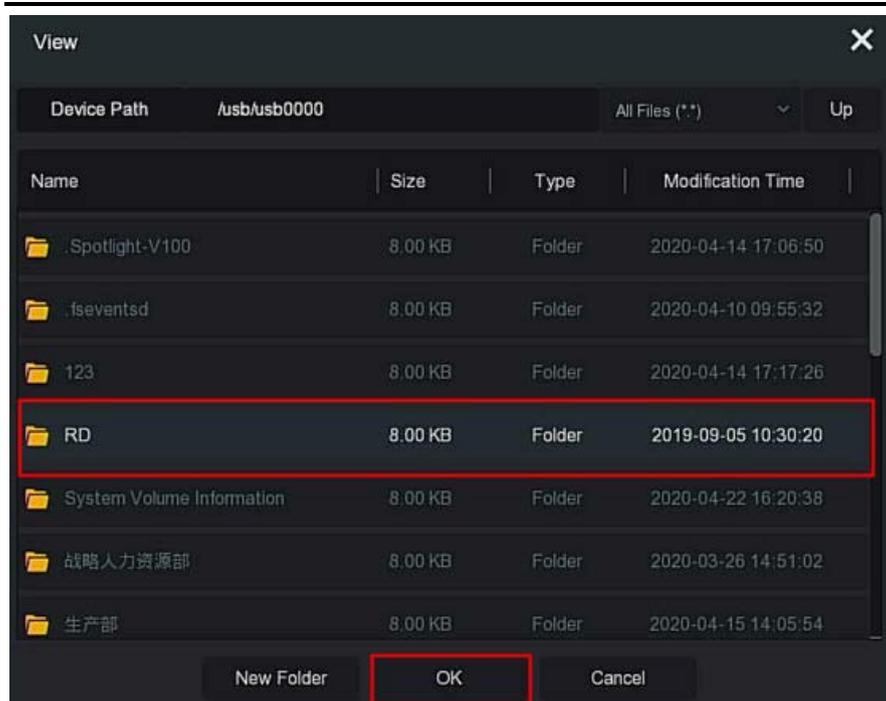


Figure 5-26

Steps 5: Wait for the prompt image import progress to be completed

Steps 6: Click "OK", to finish adding a multiple face list.

5.3.4.2 Face Comparison Search

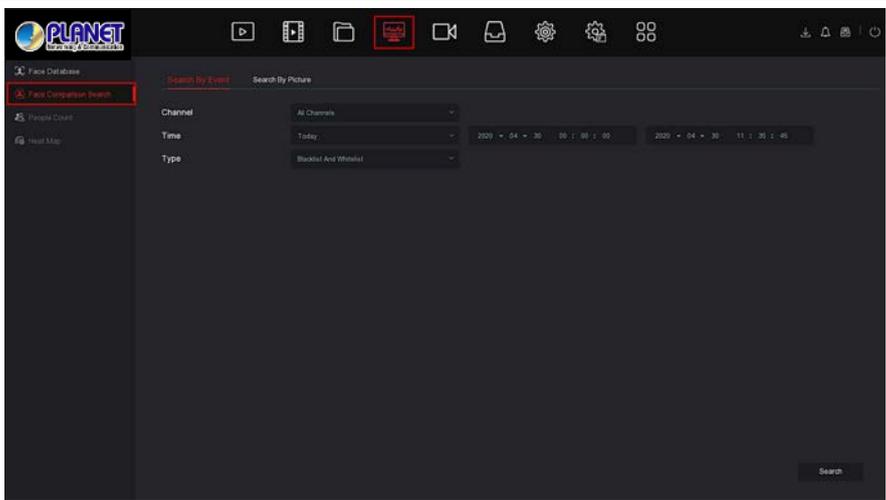
Face comparison search is based on the image retrieval of face detection events, and playback of the first 5 seconds and last 10 seconds when the picture is captured. At present, the device supports two retrieval methods: search by event and search by picture.

■ Search By Event

The steps to view and back up the retrieval results by event are as follows:

Step 1: Before backup, insert the USB device into the NVR USB port.

Steps 2: In the main menu, click " → Face Comparison Search" to enter Face Comparison Search interface, as shown in Figure 5-27 ① below.



5-27 ①

Steps 2: Set search criteria (channel, time, type).

Steps 3: Click "Search ", the search results are shown in Figure 5-27 ② below.

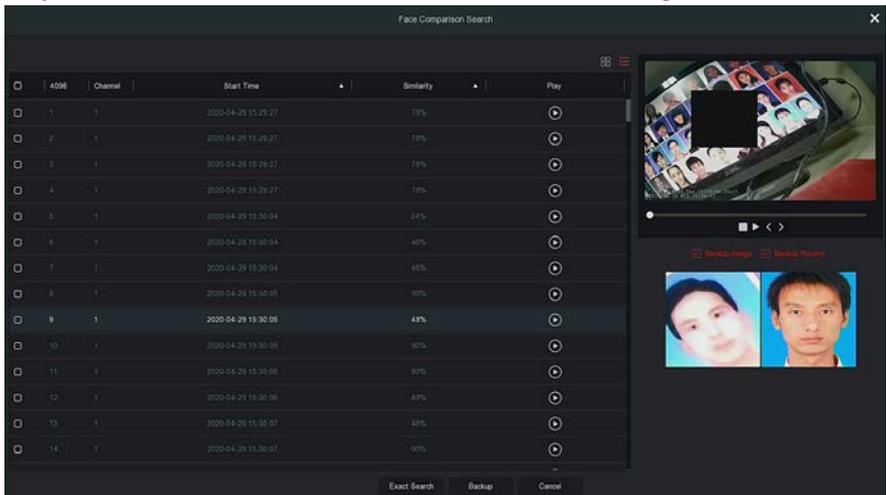


Figure 5-27 ②

- **Channel:** The channel where the search results are located.
- **Time:** Search results within a set time frame.
- **Similarity:** How similar the search results are to the sample.
- **Backup Picture:** Back up the searched pictures to the U disk.
- **Backup Record:** Back up the video corresponding to the searched picture to the U disk. (the first 5 seconds and last 10 seconds when the picture is captured)
-  : Playback of the first 5 seconds and last 10 seconds when the picture is captured.
-  : The search results are displayed as thumbnails.
-  : The search results are displayed in a list.
-  : 1 page forward.
-  : 1 page backward.
-  : Play 5 seconds of video before and after the searched image.
-  : Stop to play video.
- **Exact Search:** Select an event from the searched results, and find the results within the set conditions according to the database of the selected event. Set search conditions (start time, end time, channel), click "Confirm", narrow down the search results.as shown in Figure 5-27 ③ below.



Figure 5-27 ③

Steps 4: Select the picture in the search results, select "Backup Picture" and "Backup Record" according to the actual needs, click "Backup".

Steps 5: The file starts to back up, click "" in the upper right corner to view the backup progress, and wait for the backup progress to complete.

■ Search By Picture

Search By Picture means uploading sample images, searching for images that meet the requirements in the hard disk according to similarity, supporting local uploading of samples and face database uploading samples, the sample uploads 1 image at a time.

The specific operation steps for viewing and backing up the retrieval results by pictures are as follows:

Step 1: Before backup, insert the USB device that stores the sample pictures into the NVR USB interface.

Steps 2: In the main menu, click " →Face Comparison Search→Search by Picture" to enter face comparison search by picture interface, as shown in Figure 5-28 ① below.

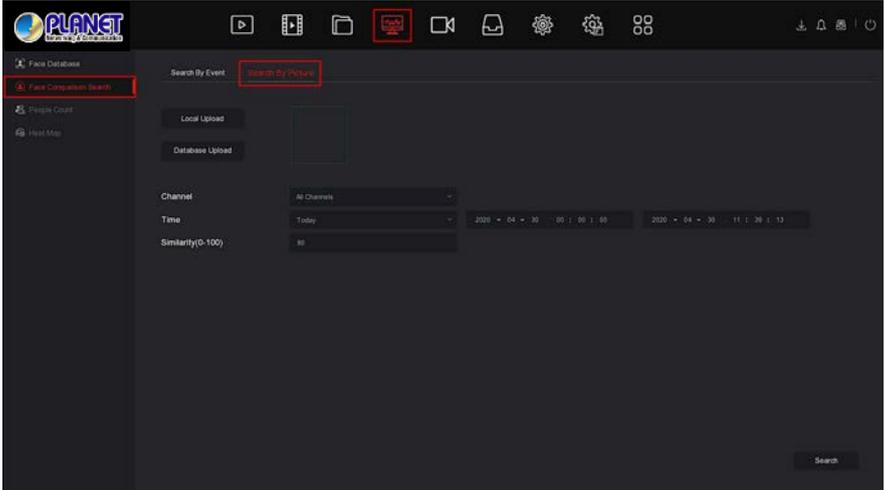


Figure 5-28 ①

◆ Local Upload

Steps 3: Click "Local Upload" to enter USB to choose the sample, click "Save", as shown in Figure 5-28 ② below.

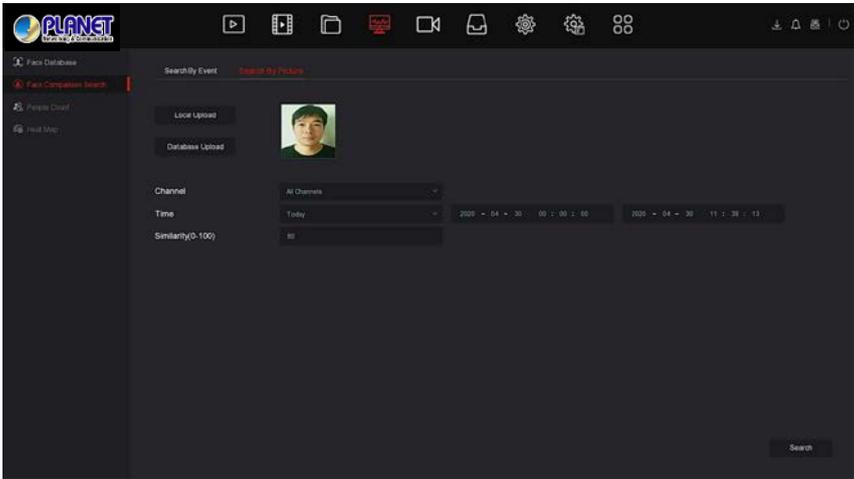


Figure 5-28 ②

◆ Database Upload

Steps 3: Click "Database Upload", choose face database→sample picture→confirm, picture uploaded successfully, as shown in Figure 5-28 ③ below.

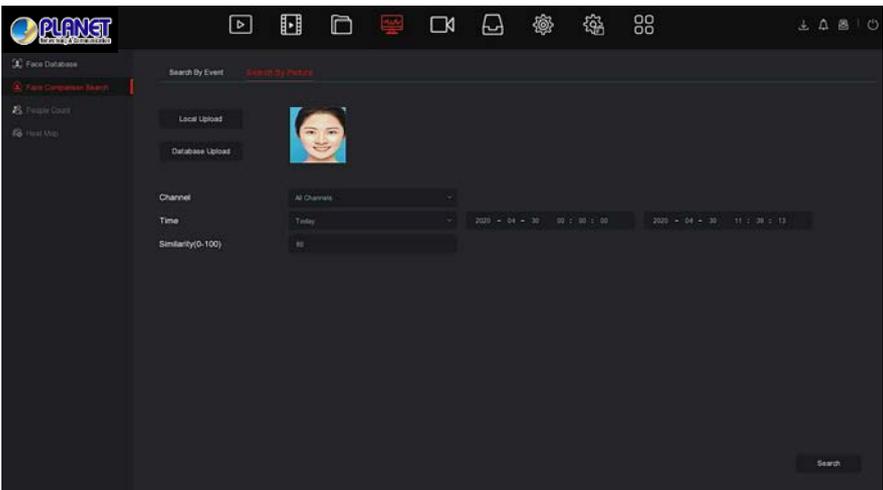


Figure 5-28 ③

Steps 4: Set search criteria (channel, time, similarity), click "Search", the retrieved face comparison results are shown in Figure 5-28 ④ below.

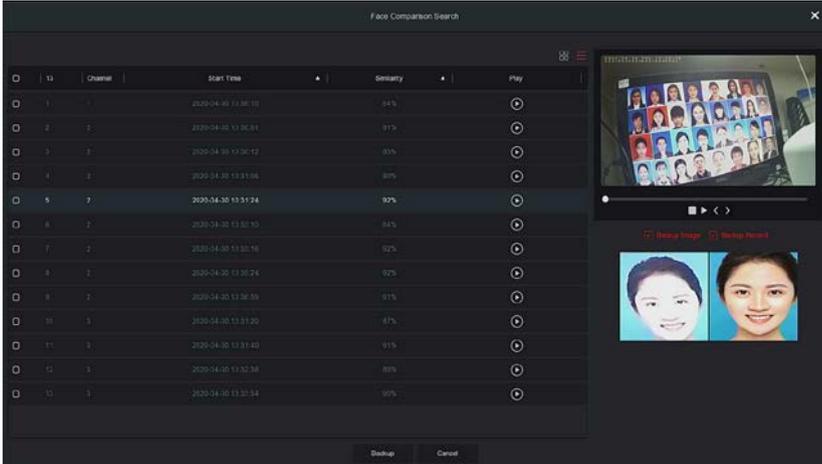


Figure 5-28 ④

Steps 5: Select the picture in the search results, select "Backup Picture" and "Backup Record" according to the actual needs, click "Backup".

Steps 6: The file starts to back up, click "" in the upper right corner to view the backup progress, and wait for the backup progress to complete.



Note

- For details of the buttons on the search results interface, see the introduction of the search by event interface.

5.3.5 Channel

The channel is composed of Device and Encode Parameters, and can operate Camera, POE, OSD, Image, PTZ, Privacy, Change Name and Main / Sub Stream on NVR.

5.3.5.1 Camera

After adding a remote device, you can view the video screen of the remote device directly on the NVR, and perform operations such as storage and management. Different devices support different numbers of remote devices. You can add required remote devices based on actual conditions.

Prerequisites:

Before adding the device, please confirm whether the IP camera has been connected to the network where the NVR is located and set its network parameters correctly.



NOTE!

- The device may face network security problems when it is connected to the Internet. Please strengthen the protection of personal information and data. When you find that the device may have hidden network security risks, please contact us in time. It is recommended that you conduct a periodic network security assessment of the device. Our company can provide corresponding professional technical services.
- Please understand that you are responsible for properly configuring all passwords and other related product security settings, and keeping your username and password properly.

■ **Camera**

The specific operation steps are as follows:

Step 1: In the main menu, click " → Camera" to enter Camera interface, as shown in Figure 5-29 ① below.

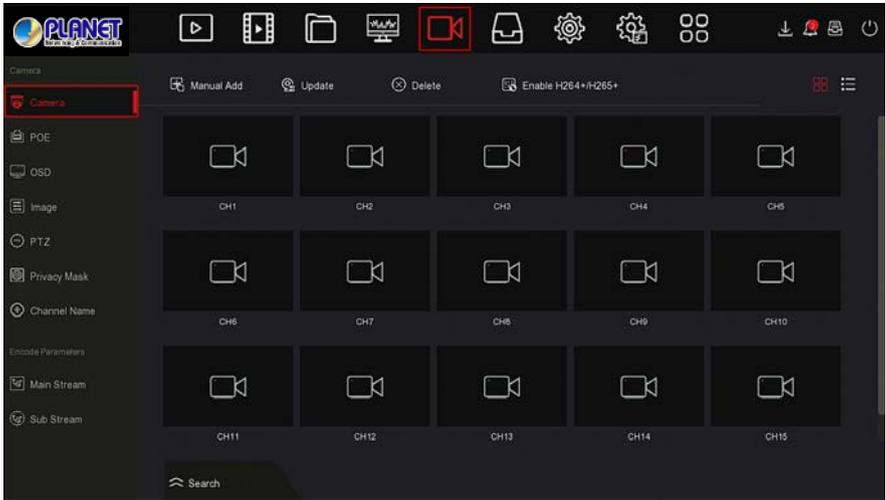
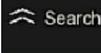


Figure 5-29 ①

Steps 2: Click " Search" device will search all IP cameras in the LAN according to the filter criteria "ONVIF and Private" and display the search results, as shown in Figure 5-29 ② below.

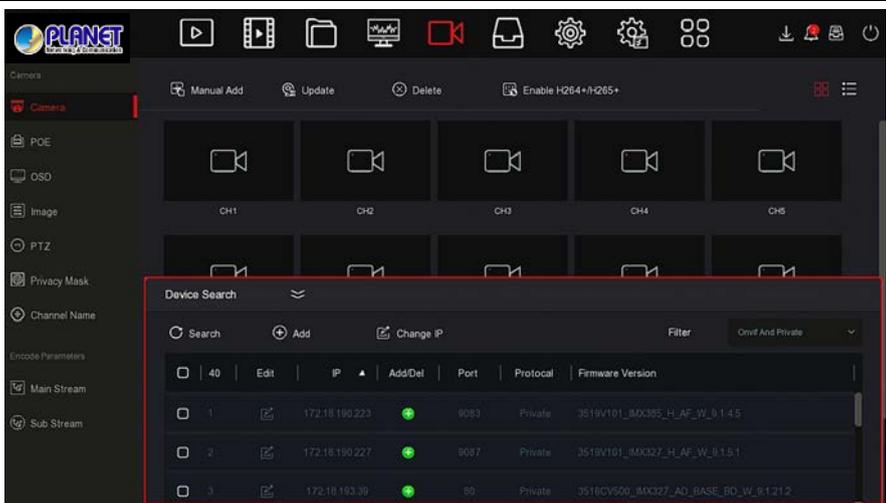


Figure 5-29 ②

- : Click the drop-down icon to hide the "Search Device" list.
- : Add current camera to device list.
- : Delete the current IPC from the device list.
- : Click to enter the interface to modify the IP of the device, modify the IP address, port and other network information of the camera here, and then enter the camera password, click "OK" to complete the modification.
-  **Search:** Search for devices that meet the filtering conditions in the local area network and display them in the search device list.
-  **Add:** Add a selection device to the system.
-  **Change IP:** Select the device whose IP needs to be changed, click "Change IP", enter "Start IP", "Network Mask", "Gateway", "DNS", "Port", "user password", click "OK", the IP of the selected device will be modified incrementally.
- **Filter:** Filter the search device type. There are Onvif, Private, Onvif, Private, and Multi Net Segment protocols to choose from.

Steps 3: Choose the device you want to add, click " Add" , as shown in Figure 5-29 ③ below.

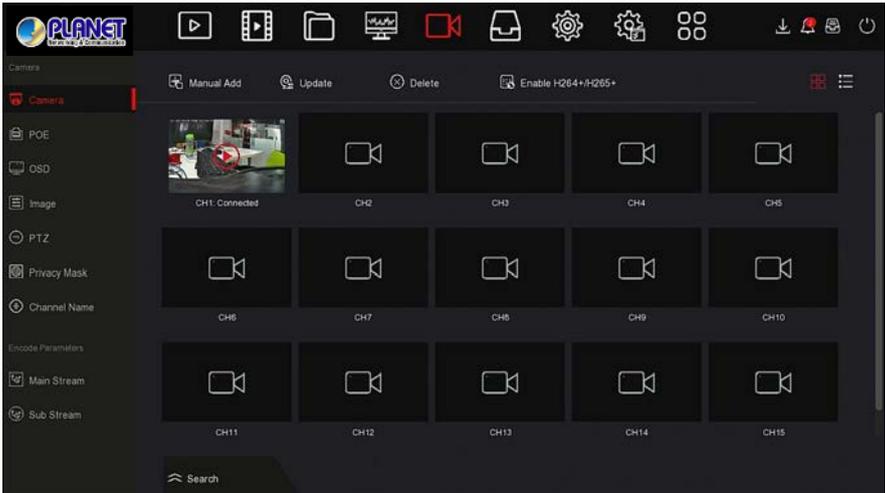


Figure 5-29 ③



- Click "" in the upper right corner of the switch to list display, as shown in Figure 5-29 ④ below.

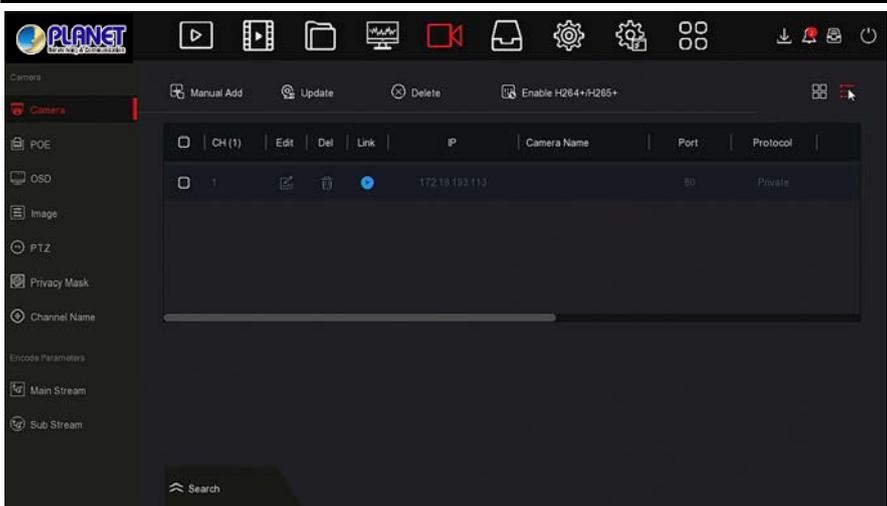


Figure 5-29 ④

-  **Auto Add:** Click NVR to modify all IP cameras and other network parameters in the LAN, and connect it to NVR.
-  **Manual Add:** Click to enter the "Channel Setup" interface. You can close the channel, switch, modify the protocol, switch the preview code stream or manually enter the device related information to add the device, as shown in Figure 5-29 ⑤. There are two methods of manually adding IP and domain name addition. When adding IPC through a domain name, only Private and ONVIF protocols are supported.

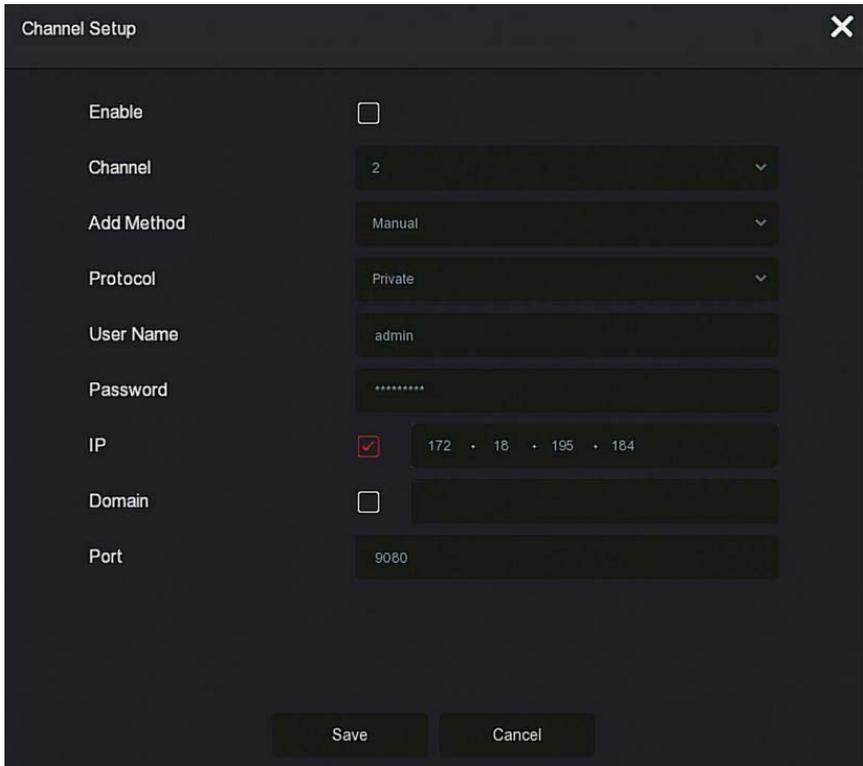


Figure 5-29 ⑤

- ✓ **Enable:** The channel enable on/off, defaulting to be off. Tick "Enable" then the related channels can be previewed and recorded normally.
- ✓ **Channel:** Select Set Channel.
- ✓ **Add Method:** Shows how the current channel is added.
- ✓ **Protocol:** Select Add Device Protocol with Onvif, Private, and RTSP options.
- ✓ **User Name:** The login user name of IPC (if the defaulted user name is not admin, please change it to be valid user name).
- ✓ **Password:** Login password of IPC (if the defaulted login password is not admin, please change it to be valid password).
- ✓ **IP:** Need to add IPC IP address.

- ✓ **Domain:** Need to add IPC domain name address, such as peanut shell address, DDNS address.
- ✓ **Port:** Access to the port used by IPC, the default is 80.
-  **Update:** Select one or more upgrade devices of the same type, insert the U disk storing the upgrade package of the device into the NVR, click "Upgrade", the system will find the upgrade package in the U disk and display it, select the upgrade package, click "Upgrade", Upgrade IPC in batches at the same time.
-  **Delete:** In the list of added devices, select the channel to be deleted and click the "Delete" button to delete all selected devices.
-  **Enable H264+/H265+:** Click to turn on H264 + / H265 + encoding for all channels. To turn off H264 + / H265 + encoding, you can turn off the channel H264 + / H265 + in the Parameters interface.
- : Click and enter the channel setting interface, this function is the same as " manual add".
- : Delete the current IPC from the device list.
- **Link:** "  " indicates that the connection is successful, and "  " indicates that the connection fails. If the connection fails, the connection status will indicate the cause of the failure. If the password is incorrect, the user password will be incorrect.



Note

- An IPC can only be added once by the NVR.
- When modifying IPs in batches, ensure that the user name and password of all selected devices are the same.
- If you modify IPs in batches and the IP addresses conflict, the system automatically skips conflicting IPs and re-assigns them incrementally.
- After modifying the IP in batches, search for the remote device again. The new IP address will be displayed in the list.
- After you select a device to add a button, all devices will re-assign the IP address. Use NOTE.

- Adding mode can be set to "Manual" or "Plug and Play" in the POE NVR, which is not settable in the normal NVR.
- Before using the upgrade function, copy the upgrade package corresponding to the device to be upgraded to a USB flash drive and insert the USB flash drive into the NVR.
- When you upgrade multiple IP devices, you can only select the same IP device. During the upgrade, all IP devices cannot be powered off. Otherwise, the upgrade fails or the device cannot start.

5.3.5.2 PoE

PoE is used to view and set the power supply of each PoE channel of NVR. It consists of PoE Power Configuration and PoE Bonding Configuration.

■ PoE Power Configuration

The specific operation steps are as follows:

Step 1: In the main menu, click " → POE → PoE Power Configuration" to enter PoE Power Configuration interface, as shown in Figure 5-30 below.

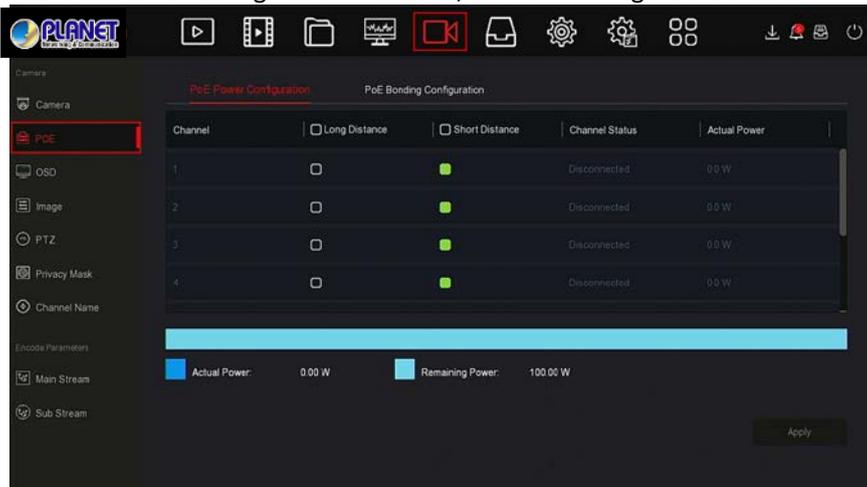


Figure 5-30

Steps 2: Check the connection status and power usage of each port of POE, and choose "long distance" or "short distance" according to the actual connection distance.

Steps 3: Click "Apply" to save the setting.

■ PoE Bonding Configuration

The specific operation steps are as follows:

Step 1: In the main menu, click " → POE → PoE Bonding Configuration" to enter PoE Bonding Configuration interface, as shown in Figure 5-31 below.

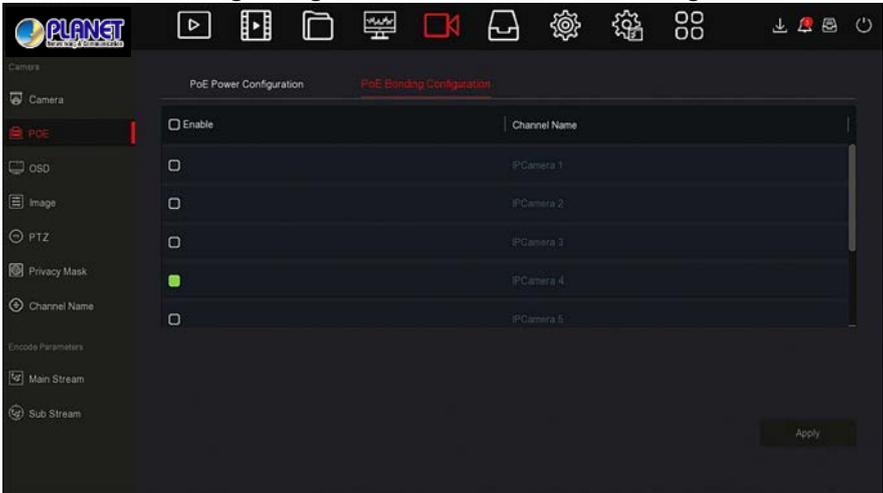


Figure 5-31

Steps 2: Select the bound channel and set the channel that the device is powered by POE.

Steps 3: Click "Apply" to save the setting.

5.3.5.3 OSD

OSD is the abbreviation of "On Screen Display", the OSD of local preview mainly includes time and channel name.

The specific operation steps are as follows:

Step 1: In the main menu, click " → OSD" to enter OSD setting interface, as shown in Figure 5-32 below.

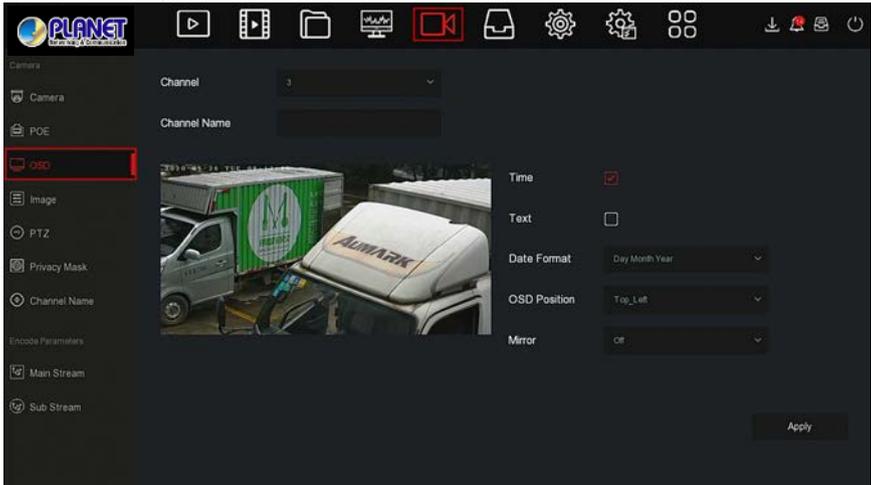


Figure 5-32

Steps 2: Select the channel to set the OSD.

Steps 3: Set the OSD of the channel.



- OSD includes channel name, time, text, date format, OSD position and mirror.
- The current OSD function only supports the private protocol to add the device to obtain and set.

Steps 4: Click "**Apply**" to save the setting.

5.3.5.4 Image

In Image Color interface, the Brightness, Contrast, Saturation and Sharpness of IP channel video can be adjusted, related parameters for the IPC can also be set, such as Fill light, Exposure setting, Backlight setting, White balance and Video adjustment.

The specific operation steps are as follows:

Step 1: In the main menu, click " → Image" to enter Image configuration interface, as shown in Figure 5-33 below.

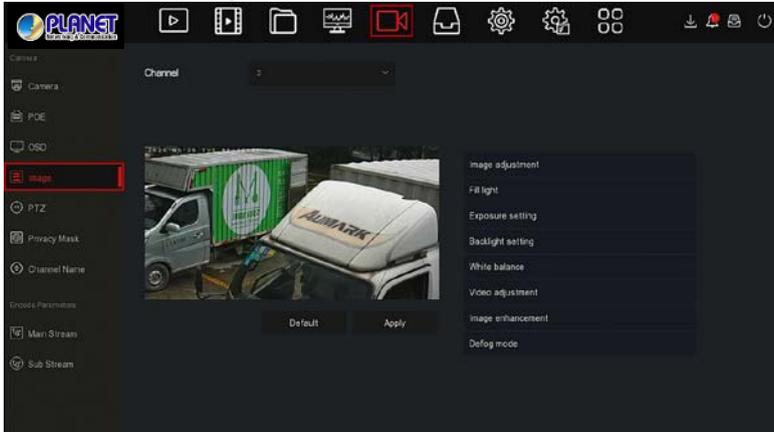


Figure 5-33

Steps 2: Select the channel for image configuration.

Steps 3: Adjust the image parameters of the channel.

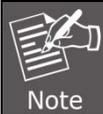


- User can drag the slider to adjust the parameters.
- The Image adjustment, Fill light, Exposure setting, Backlight setting, White balance, Video adjustment, Image enhancement and Defog mode can be adjusted.
- Adjusting the parameters of the video will not only change the preview effect of the image, but also the video quality of the image. Please operate with CAUTION.

Steps 4: Click "Apply" to save the setting.

- **Image adjustment:** According to the actual environment, you can adjust the brightness, contrast, saturation and sharpness of the preview screen by dragging the progress bar. You can also set the value behind the progress bar, "Brightness", "Contrast", "Saturation", "Sharpness". Valid values range from 0-255 and the default value is 128.
- **Fill light:** The default is auto, the sensitivity is 3, the filtering time is 3, the light brightness is 100. When the fill light mode is "Auto", the device will turn on the fill light according to the actual environment. The user can switch the fill mode to "Day", "Night" and "Scheduled switch" according to the actual video scene in the scene, and switch the sensitivity and filtering time of the device according to the fill mode. When the fill light mode is "Scheduled switch", you can set the daylight and dark time (i.e., start and end fill time) and fill light brightness.
 - ✓ When the fill mode is "Day", the device monitor video is added to the daytime effect.
 - ✓ When the fill mode is "Night", the device monitor video is patched into a night effect.
 - ✓ **Filtering time:** It is used to prevent the ambient light from getting better and the light is frequently turned on and off, and the filtering time is set. During this time period, the camera is not disturbed by ambient light.
 - ✓ **Light brightness:** It is used to adjust the brightness of fill light, and the adjustable range is 0-100.
- **Exposure setting:** The default is Auto, which switches the Manual mode according to actual needs. When "Manual" is selected, the exposure time and gain control are activated.
- **Backlight:** It is used to set backlight compensation and strong light suppression. The default is off, it can be turned on manually, and the backlight can be set.
- **White balance:** The default is auto and can be switched to "Manual".
 - ✓ **Manual white balance:** Support R, G, B gain adjustable, adjustment range is (0-255), please click "Save" after setting.
- **Video adjustment:** Here you can turn on and set 2D or 3D digital noise reduction.

- **Image enhancement:** Here you can select the flicker control mode, turn on and set the wide dynamic intensity.
 - ✓ **Flicker control :** The flicker control mode is selected according to the IPC installation environment and the flicker standard. The PAL standard is 50HZ and the NTSC standard is 60HZ. When the device is installed outdoors, it can be selected outdoor. The default setting is PAL.
 - ✓ **Sensor linear WDR:** The default is "Shutdown", you can switch the wide dynamic strength (Automatic, Weak, Moderate, Strong, Super) in the drop-down menu.
- **Defog mode:** Used to set the defogging mode and strength.
 - ✓ **Defog mode:** The default is off, and you can select on or Auto from the drop-down menu.
 - ✓ **Defog strength:** The default is 0. When the defogging mode is on, the defogging intensity can be set. The range of values can be set from 0 to 255.



- The camera image interface only displays the device support functions. The specific interface is subject to the actual product.

5.3.5.5 PTZ

On the menu page, click " → PTZ" to enter the PTZ setup interface, as shown in Figure 5-34 ① below. In the PTZ setup interface, other channels can be switched to adjust the pan/tilt movement speed and control the pan/tilt movement direction.

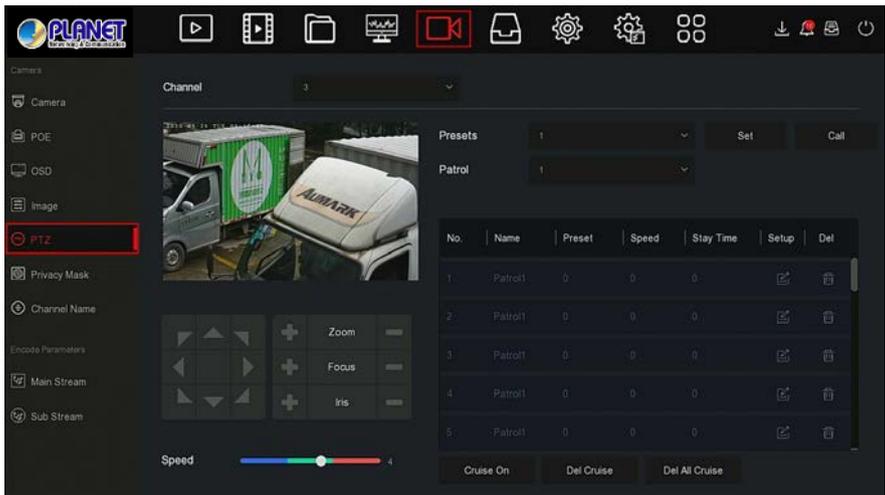


Figure 5-34 ①

PTZ setup interface is used to set the PTZ direction, speed and lens zoom, focus and aperture settings and cruise settings shortcut button.

- **Channel:** Select the channel where the dome camera is connected to the NVR.
- **Zoom:** Adjust the camera magnification by  /  key, long-range / wide-angle function.
- **Focus:** Use the  /  key, zoom in/out function, adjust the camera to focus.
- **Iris:** Use the  /  key, zoom in / out the aperture function, adjust the aperture of the camera.
- **Speed:** It is mainly used to set the pan/tilt rotation speed operation. For example, the rotation speed in step 7 is much greater than the rotation speed in step size 1.
- **Preset setting:** Through the direction of the button to turn the PTZ to the desired location, and then click the preset button below the "set" button to complete the preset point settings.
- **Cruise setting:** After selecting the cruise line, click the setting button, select the preset number, dwell time (seconds) and cruise speed in the pop-up cruise line setting interface, as shown in Figure 5-30 (2), click "OK" button, Return to the cruise settings screen and click "Cruise on" again to save the settings and make the device start cruising.

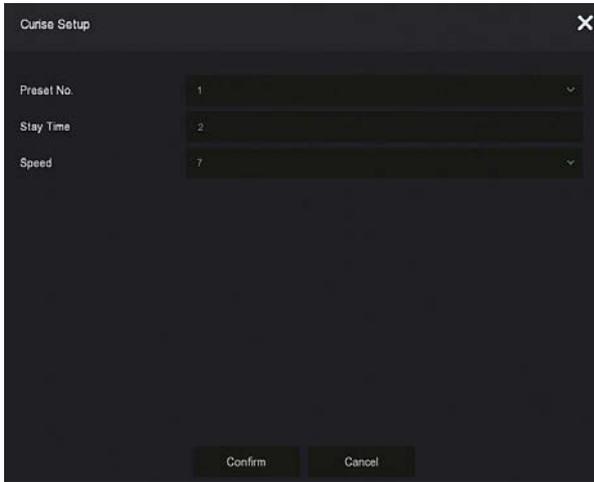


Figure 5-34 ②

- ✓ **Preset No.:** Select preset points.
- ✓ **Stay Time:** Stay time on the Preset.
- ✓ **Speed:** Speed for Cruise.
- **Cruise On:** After clicking, the device cruises according to the selected cruise route.
- **Del Cruise:** Select the cruise line, click to "Del Cruise", and complete the cruise line to remove.
- **Del All Cruise:** After clicking, delete all the set cruise lines.



Note

- The NVR supports up to 256 preset points, but the actual number of preset positions is limited by the number of preset points that can be set by the camera. The maximum number of preset points supported by different PTZs is not necessarily the same.
- Some NVRs support the setting of dome or pan/tilt parameters for analog channels. Before controlling the dome or pan/tilt, please confirm that the RS-485 control line between the pan/tilt decoder and the hard disk video recorder is connected correctly, and configure the parameters of the pan/tilt decoder in the device.

The specific operation steps are as follows:

Step 1: In the main menu, click " →PTZ" to enter PTZ configuration interface, as shown in Figure 5-34 ③.

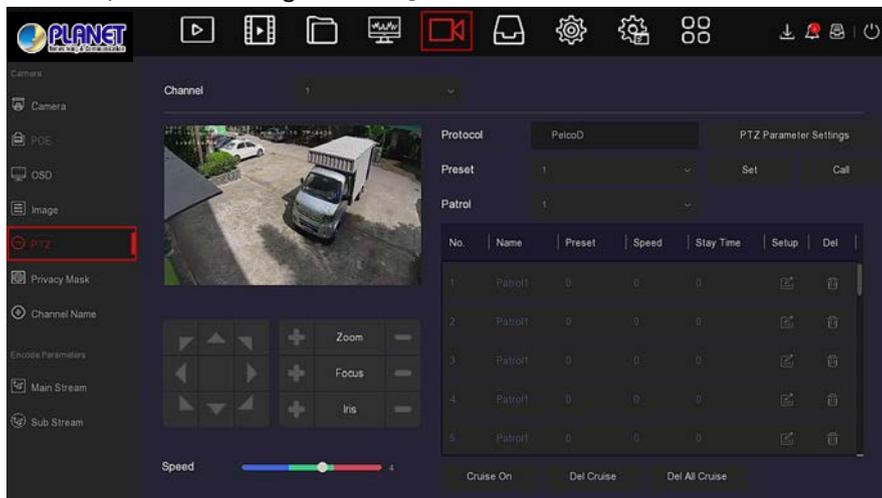


Figure 5-34 ③

Step 2: Select the channel where the PTZ camera is located, click "PTZ parameter setting" to enter the PTZ parameter setting interface, as shown in Figure 5-34④.

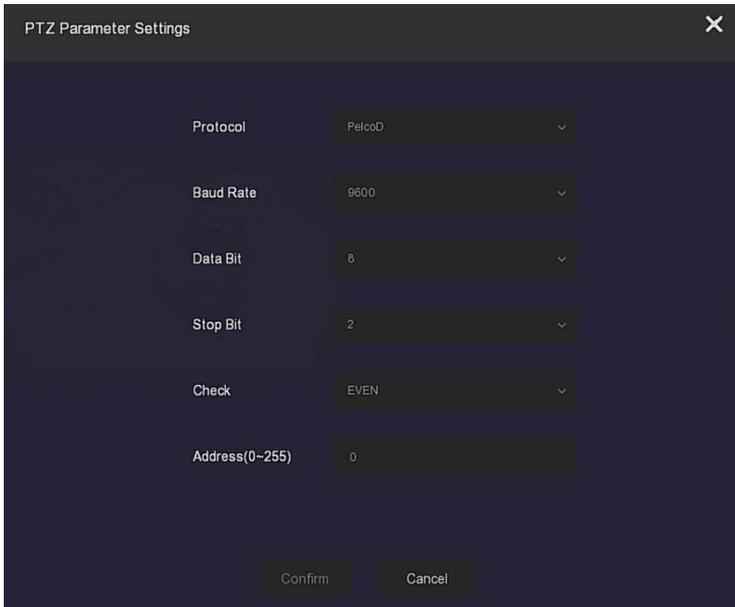


Figure 5-34 ④

Step 3: Set the relevant parameters (protocol, baud rate, data bit, stop bit, parity bit, etc.) of the connected camera as required, and click "Confirm" to complete.

- **Channel:** Select to access the camera channel with pan/tilt function.
- **Protocol:** Select the pan/tilt protocol of the brand and model of the access device (if the channel is connected to a network pan/tilt, select "Private", if the channel is connected to an RS485 pan/tilt, select other options).
- **Baud Rate:** Select the baud rate used to access the PTZ to control the PTZ and camera of the corresponding channel. The default is 2400.
- **Data Bit:** The default value is 8.
- **Stop Bit:** The default value is 2.
- **Check:** The default value is EVEN.
- **Address (0-255):** Set the address to access the PTZ. The default is 0.



● The PTZ setting is used to set the PTZ camera added to the analog channel. All the parameters (protocol, address, baud rate, data bit, stop bit, parity bit) should be consistent with the parameters of the PTZ decoder.

5.3.5.6 Privacy Mask

The function of privacy mask can block certain sensitive or privacy-related areas in the monitoring scene image.

The specific operation steps are as follows:

Step 1: In the main menu, click " → Privacy Mask" to enter Privacy Mask interface, as shown in Figure 5-35 ① below.

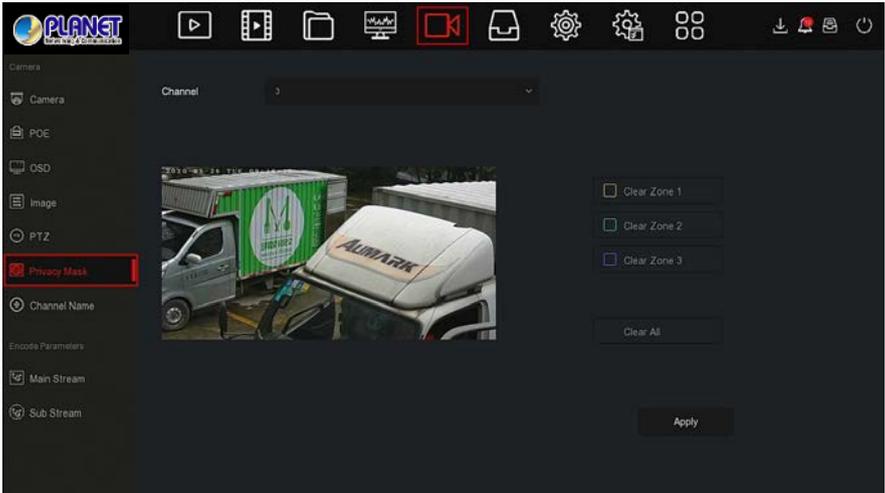


Figure 5-35 ①

Steps 2: Select the channel for video occlusion.

Steps 3: Use the mouse to define the occlusion area in the video, as shown in Figure 5-35 ② below.

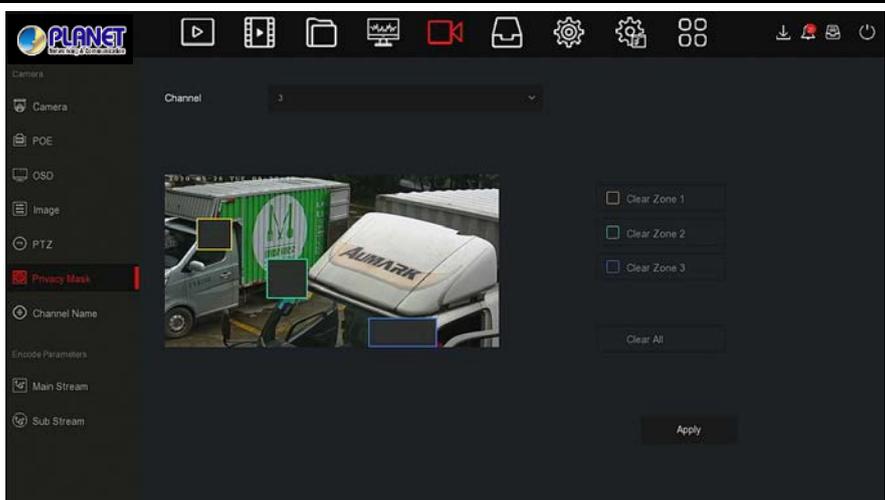


Figure 5-35 ②

Steps 4: Click "Apply" to save the setting.

- **Channel:** Select Set Channel.
- **Clear All:** Clear all selected areas masks.
- **Clear Zoom1, 2, 3:** Clear the selected occlusion area 1, 2, 3.



Up to 3 occlusion areas can be set. Click clear area X to delete this area setting.

5.3.5.7 Channel Name

The specific operation steps are as follows:

Step 1: In the main menu, click " → Channel Name" to enter Channel Name interface, as shown in Figure 5-36 below.

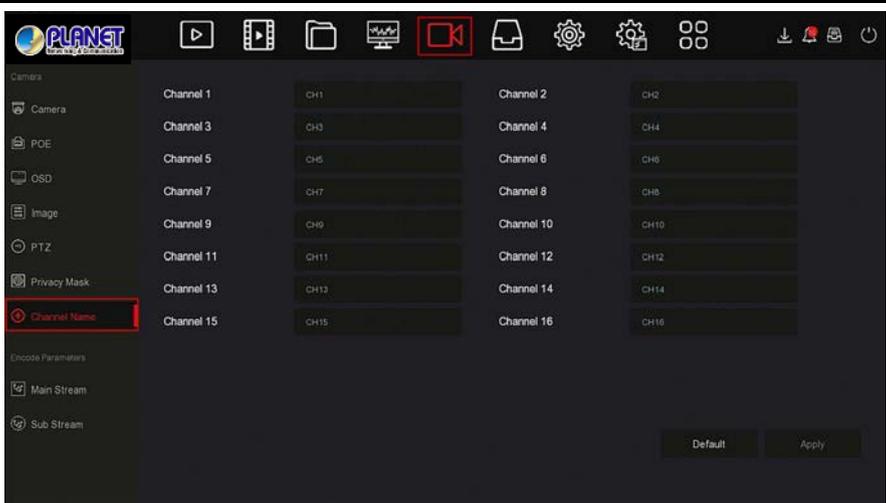


Figure 5-36

Steps 2: Select the channel to be set, modify the channel name.

Steps 3: Click "Apply" to save the setting.

5.3.5.8 Main Stream

Main Stream interface is used for recording parameter configuration, the specific operation steps are as follows:

Step 1: In the main menu, click " → Main Stream" to enter main stream parameter setup interface, as shown in Figure 5-37 below.

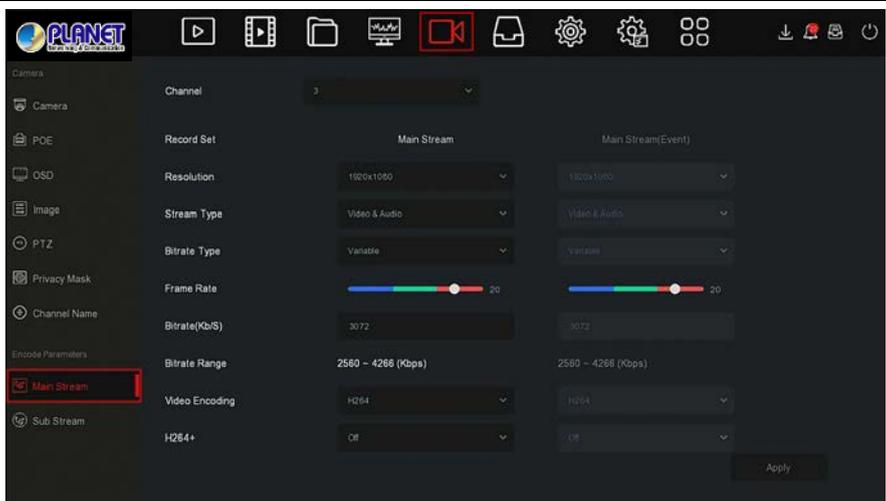


Figure 5-37

Steps 2: To set recording parameters, please refer to Table 5-4 for specific parameter descriptions.

Name	Details	Setting
Channel	Select the channel to set recording parameters	Select through the drop-down box.
Record Set	There are two types of video compression parameters: Main Stream (timing) and Main Stream (Event). Main Stream (timing): Encoding parameters for ordinary recording. Main Stream (Event): encoding parameters for events such as motion detection, alarm input, and smart detection	NOTE: The event parameters cannot be set and are consistent with the timing parameters.
Resolution	Resolution refers to the number of pixels contained in a unit length.	Select through the drop-down box. NOTE:

		The encoding resolution is related to the IP device.
Stream Type	The stream type is Video & Audio (composite stream), and the recording information includes video and audio.	Select through the drop-down box.
Bitrate Type	The code stream mode is divided into variable code rate and constant code rate. Variable bit rate: The bit rate will change according to the scene. Constant bit rate: The bit rate should be encoded according to the upper limit of the bit rate, and the video quality cannot be adjusted.	Select through the drop-down box. NOTE: The bitrate type is related to the IP device
Frame Rate	Video frame rate refers to the number of video frames per second	Adjust via slider.
Bitrate(Kb/S)	Set the code stream value to change the quality of the image quality, the larger the code stream, the better the image quality.	Modify it directly in the input box.
Bitrate Range	6000-12000(Kbps)	
Video Encoding	H264, H265	Select through the drop-down box. NOTE: The encoding type is related to the IP device.
H265+	Enable/Off	

Table 5-4

Steps 3: Click "Apply" to save the setting.

5.3.5.9 Sub Stream

Substream parameters are used for network transmission. When the network environment is poor, users can use substreams for network preview to reduce the transmission bandwidth, and substreams are also used for mobile phone monitoring.

The specific operation steps are as follows:

Step 1: In the main menu, click " → Sub Stream " to enter sub stream param setup interface, as shown in Figure 5-38 below.

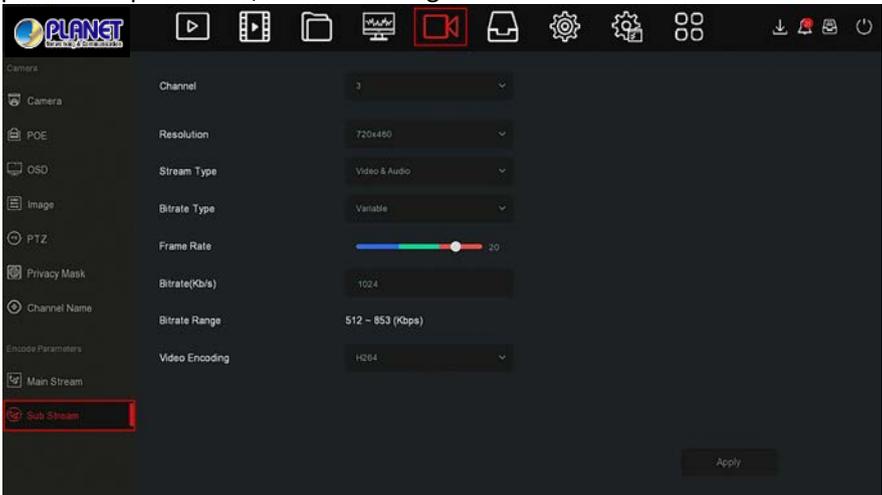


Figure 5-38

Steps 2: To set recording parameters, please refer to Table 5-5 for specific parameter descriptions.

Name	Details	Setting
Channel	Select the channel to set recording parameters.	Select through the drop-down box.
Resolution	Resolution refers to the number of pixels contained in a unit length.	Select through the drop-down box. NOTE:

		The encoding resolution is related to the IP device
Stream Type	The stream type is Video & Audio (composite stream), and the recording information includes video and audio.	Select through the drop-down box.
Bitrate Type	The code stream mode is divided into variable code rate and constant code rate. Variable bit rate: The bit rate will change according to the scene. Constant bit rate: The bit rate should be encoded according to the upper limit of the bit rate, and the video quality cannot be adjusted.	Select through the drop-down box. NOTE: The bitrate type is related to the IP device
Frame Rate	Video frame rate refers to the number of video frames per second	Adjust via slider.
Bitrate(Kb/S)	Set the code stream value to change the quality of the image quality, the larger the code stream, the better the image quality.	Modify it directly in the input box.
Bitrate Range	512-853(Kbps)	
Video Encoding	H264, H265	Select through the drop-down box. NOTE: The encoding type is related to the IP device.

Table 5-5

Steps 3: Click "Apply" to save the setting.

5.3.6 Storage

Storage is composed of Record, Storage Device, Storage Mode, Auto Backup and Advanced.

5.3.6.1 Record

NVR supports two recording plan, drawing method and editing method.

■ **Set the recording plan by drawing method**

The specific operation steps are as follows:

Step 1: In the main menu, click " → Record" to enter Record Setup interface, as shown in Figure 5-39 ① below.



Figure 5-39 ①

Steps 2: According to the needs of recording, enable, select channel, recording type (Normal, Motion, Alarm, M and A, Intelligent), week and other options

Steps 3: Click the left mouse button to locate the starting point of the drawing area, drag the mouse to determine the time of the recording plan, release the left mouse button to save as a recording plan, as shown in Figure 5-37 ② below.



Figure 5-39 ②

Steps 4: Repeat Steps 3 to set up a complete recording plan.

Steps 5: After the recording plan is set, the channel presents the type (color) of the recording plan, as shown in Figure 5-39 ③ below.



Figure 5-39 ③



- There are 6 time periods available for each day, and the device will start the corresponding type of recording within the set time range.
- The smallest unit of the drawing area is 1 hour.
- Select "All" to edit the time period of all week.
- You can select the "
- In the same period of time, either motion video or M&A video can be selected.

■ Set the recording plan by editing method

The specific operation steps are as follows:

Step 1: In the main menu, click " → Record" to enter Record setup interface.

Steps 2: Click "Edit" to enter "Record Schedule" setting interface, as shown in Figure 5-39 ④ below.

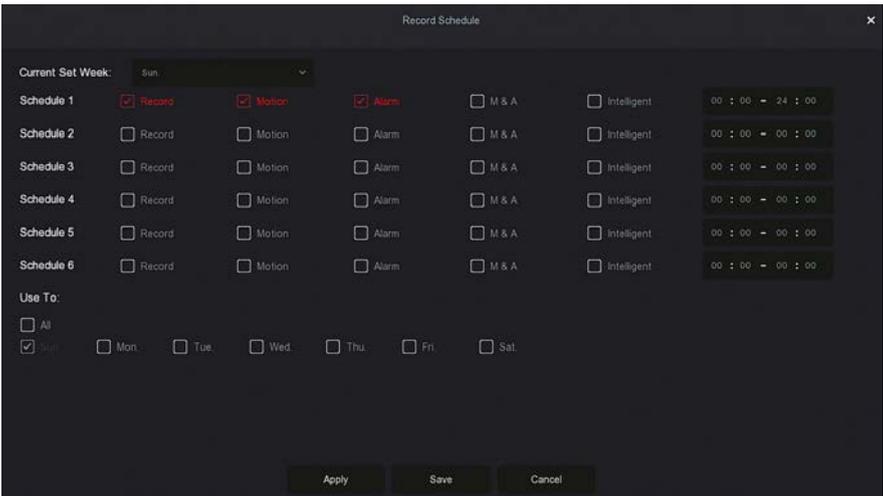


Figure 5-39 ④

Steps 3: Select the "recording type" of each time period. There are six time periods for setting each day. Select the corresponding week in "Apply" to apply to the corresponding week.

Steps 4: Click "Save" to complete the setting, the system will return to "Record" interface.

- **Channel:** Please select the channel number first. You can select "all" if you want to set for the whole channels.
- **Record Type:** Select check the box to select corresponding record type. There are Normal, Motion, Alarm, M and A, Intelligent.
- **Week day:** Select the week number. If you select "All", it means to the entire week, or you can select "" in front of the number of days to set individual days.
- **More Settings:** You can set the prerecord time(s) and post-record(s), as shown in Figure 5-39 ⑤ below.

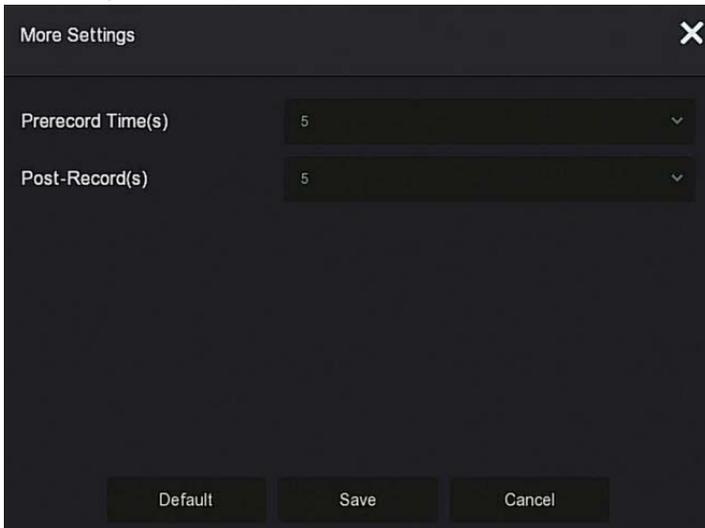


Figure 5-39 ⑤

- **Copy:** After complete the setup, you can click "Copy" button to copy current setup to other channel(s), as shown in Figure 5-39 ⑥.



Figure 5-39 ⑥

5.3.6.2 Storage Device

The storage device is used to format the hard disk and view the hard disk's applicable status and capacity.

■ Formatting the hard drive

Prerequisites:

The user has installed the hard disk correctly. For details of the hard disk installation procedure, please refer to the "NVR Quick Start Guide".

The specific operation steps are as follows:

Step 1: In the main menu, click " →Storage Device" to enter storage device interface, as shown in Figure 5-40 ① below.

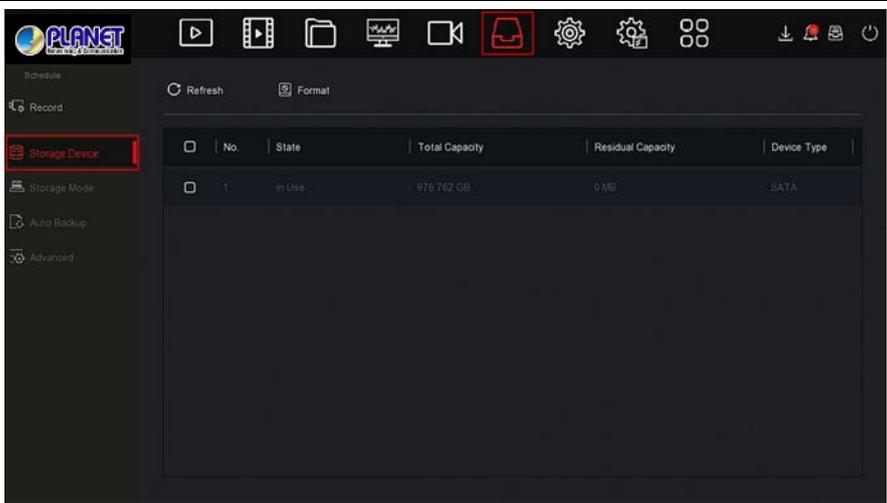


Figure 5-40 ①

Steps 2: Select the hard drive that needs to be formatted, click "Format→Confirm", as shown in Figure 5-40 ② below.

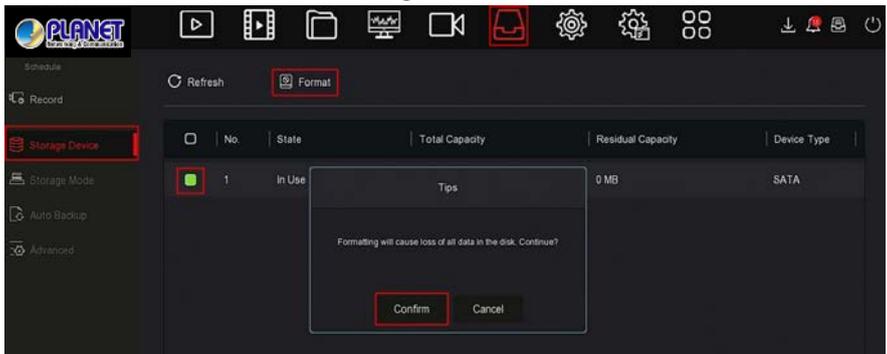


Figure 5-40 ②

Steps 3: Wait for the formatting progress bar to finish, click "Confirm", the NVR will restart and complete the format. The status of the hard disk is "In Use" at this time.

- **No.:** The number of HDD that connect the system.
- **State:** Detect the current working status of HDD, you could use only that displays "In use"; after formatting is completed, you need to restart NVR, the status displays "In use".
- **Total Capacity:** The total available HDD capacity, the single HDD capacity cannot exceed the maximum capacity: 8TB.
- **Residual Capacity:** Display the residual capacity of the current HDD;
- **Device Type:** SATA.
- **Refresh:** Click update disk list information.



- "No Disk" indicates that the device is not connected or the hard disk is not detected.
- The hard disk must be formatted first when the hard disk is connected to the NVR for the first time or when "Not formatted" is displayed.
- The device does not need to format the hard disk when the hard disk status shows "In Use".
- After formatting the hard disk, restart the NVR to take effect.

5.3.7 System

5.3.7.1 General

In General interface, you can view and set the NVR language, recording mode, recording days, video standards, standby time and date settings.

The specific operation steps are as follows:

Step 1: In the main menu, click "  →General" to enter General setup interface, as shown in Figure 5-41 below.

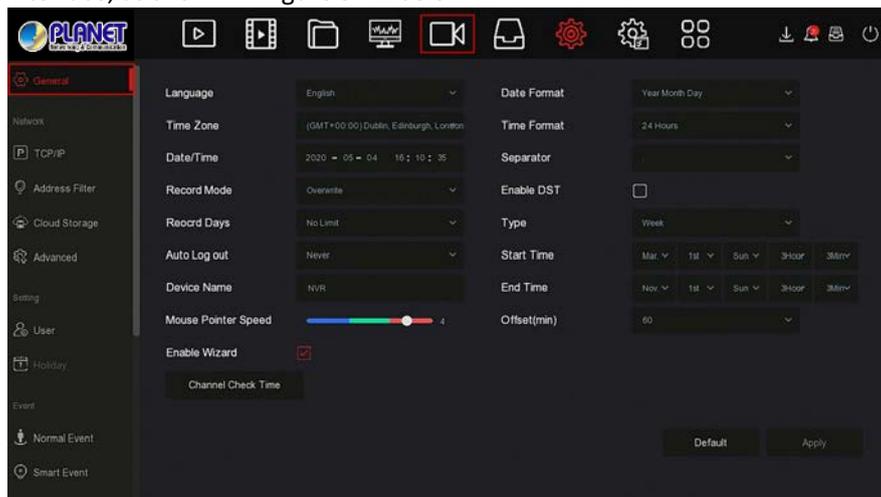


Figure 5-41

Steps 2: Set the language, time zone, recording mode, recording days and other information of the device as needed.

- **Language:** Set the default language of the system, currently supports Simplified Chinese, Traditional Chinese, English, Polish, Czech, Russian, Thai, Hebrew, Bulgarian, Arabic, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Roman, Korean, Dutch, Greek, Vietnamese and Japanese, the default is English.
- **Time Zone:** Select the time zone of the device from the drop-down box. For example: Beijing is GMT+8:00.
- **Date/Time:** Click on the need to modify the location, pop-up keyboard, enter the date and time through the keyboard.

- **Record Mode:** For "Overwrite", when the disk is full, it will automatically overwrite the oldest video; when the disk is not full, but the number of video days reaches the user setting, the oldest video will be automatically overwritten.
- **Record Days:** Set the number of days for NVR recording storage. There are no Limit, 30, 15, 7, 6, 5, 4, 3, 2, 1 options in the drop-down menu.
- **Auto Log Out:** The default is 10 minutes, can be set range: 1 Minute, 2 Minutes, 5 Minutes, 10 Minutes, 20 Minutes, 30 Minutes, 60 Minutes and Never, where "Never" for the permanent standby.
- **Device Name:** Fill in the name of the device according to actual needs, the default is NVR.
- **Mouse Pointer Speed:** Set the mouse movement speed, the larger the value, the faster the mouse response, and the smaller the value, the slower the mouse response, you can set 0-5.
- **Enable Wizard:** Click the "" , open the startup wizards, and then directly enter the "Startup Wizard" interface each time you boot.
- **Date Format:** Select the date display format, including "Day Month Year", "Month Day Year" and "Year Month Day".
- **Time Format:** Choose a 24-Hour or 12-Hour format.
- **Separator:** Select the separator for the date format.
- **Enable DST:** Check "" , open the daylight saving time function, set the relevant parameters, such as Type, Date, Start Time, End Time and so on.
- **Type:** Daylight saving time setting.
- **Start Time:** The start time for daylight saving time
- **End Time:** The end time for daylight saving time
- **Offset(min):** The offset time for daylight saving time
- **Channel Check Time:** Select the channel whose time needs to be checked, set the update interval, and click "Save" to set the channel time to be consistent with the NVR time.

Steps 3: Click "Apply" to save the setting.

5.3.7.2 TCP/IP

Network is composed of TCP/IP, Address Filter, Cloud Storage and Advanced.

■ TCP/IP

TCP/IP is composed of TCP/IP, DDNS, PPPOE, NTP, FTP and UPNP, as shown in Figure 5-42 below.

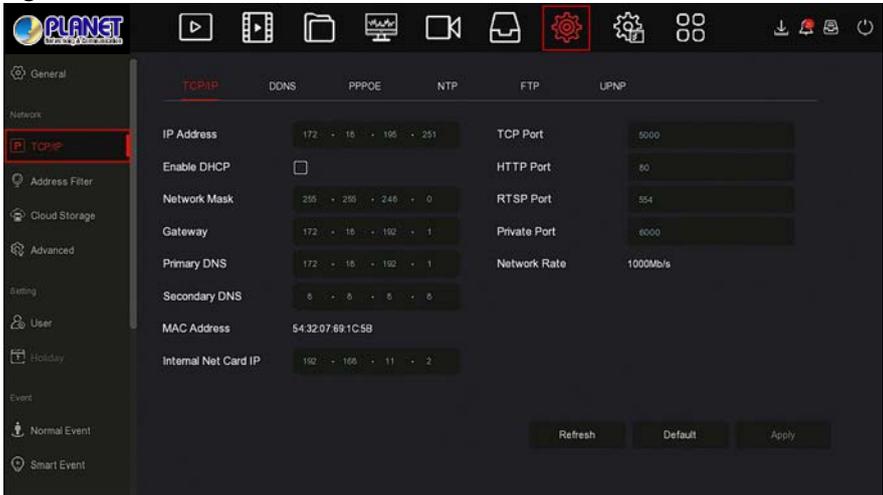


Figure 5-42

❖ TCP/IP

Set the IP address, DNS server and other information of the NVR device to ensure that it can communicate with other devices in the network.



- If the device is used for network monitoring, the network must be set up for normal use.
- Factory default IP: 192.168.0.20

The specific operation steps are as follows:

Step 1: In the main menu, click " →TCP/IP→TCP/IP" to enter TCP/IP to set the interface, as shown in Figure 5-43 below.

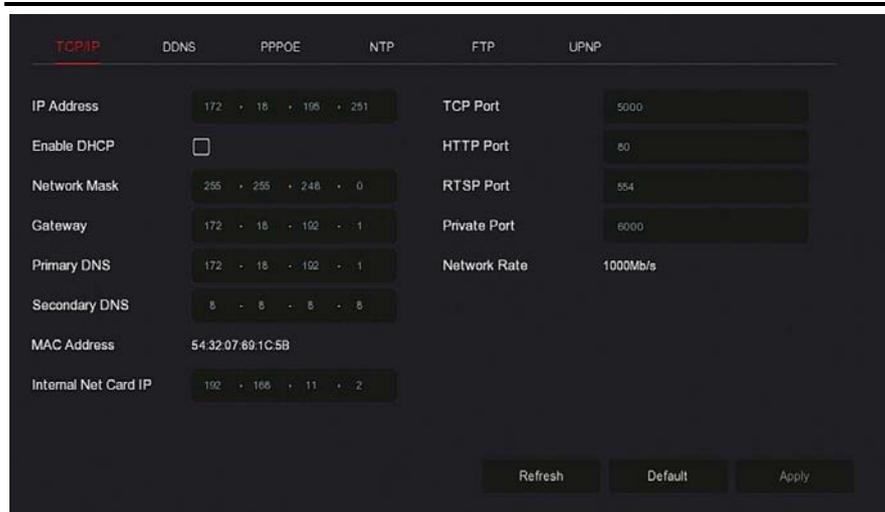


Figure 5-43

Steps 2: Configure IP Address, Network Mask, Gateway, Primary DNS and other related network parameters.

Steps 3: Click "Apply" to save the setting.

- **IP Address:** Enter the IP address of NVR.
- **Enable DHCP:** Enable / disable DHCP (Dynamic Host Configuration Protocol) function. "IP Address", "Network Mask", and "Gateway" cannot be set when DHCP is enabled.
- **Network Mask:** According to the actual situation set.
- **Gateway:** According to the actual situation set, with the IP address in the same network segment.
- **Primary DNS:** This is the DNS server IP address, which is usually provided by the local access point service provider (ISP). Enter the IP address of your domain name server here.
- **Secondary DNS:** Start secondary DNS when the primary one does not work.
- **MAC Address:** Displays the physical address of the NVR.
- **TCP Port:** Default value is 5000, according to the actual needs of users to set the port.

- **HTTP Port:** Default value is 80, according to the actual needs of users to set the port.
- **RTSP Port:** Default value is 554, according to the actual needs of users to set the port.
- **Private Port:** Default value is 6000, according to the actual needs of users to set the port.
- **Network Rate:** Displays the network transmission rate.
- **Internal Net Card IP:** Set the intranet IP address for connecting the POE device of the device.
- **Refresh:** Click to refresh the interface.



- The IP address and the default gateway must be in the same network segment.
- If NVR enabled DHCP is in effect and you turn off DHCP, you cannot display the original IP information. You need to reset the IP address and other parameters.
- Only PoE-capable devices have an internal network card function. Please refer to the actual product.
- The internal network adapter IP and NVR IP address cannot be on the same network segment.

❖ DDNS

After the DDNS (Dynamic Domain Name Server) parameter is set, when the IP address of the NVR device changes frequently, the system can dynamically update the relationship between the domain name and the IP address on the DNS server. You can use the domain name to access the NVR directly without recording the constantly changing IP address.

Prerequisites

Before configuring DDNS, make sure that the device supports the type of domain name resolution server, and log in to the DDNS service provider's website to register user name, password, domain name, and other information on the WAN PC.

The specific operation steps are as follows:

Step 1: On the menu page, select " →TCP/IP →DDNS" to enter the DDNS interface, as shown in Figure 5-44.

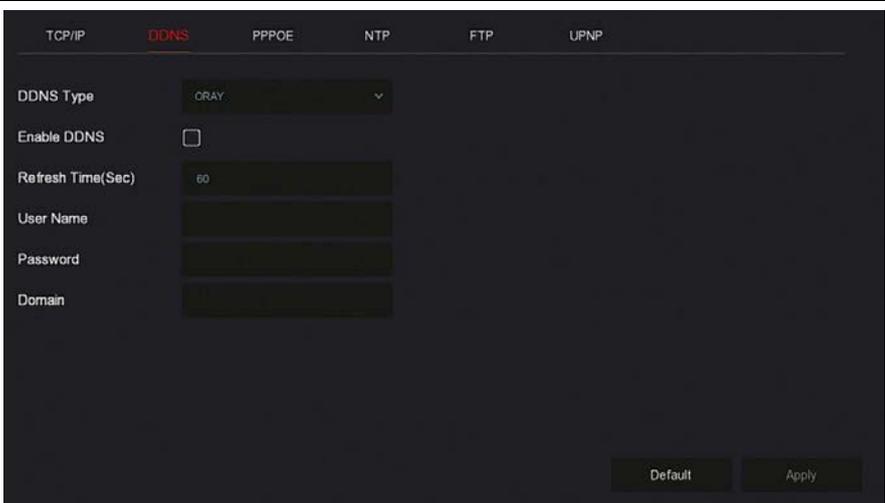


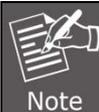
Figure 5-44

Steps 2: Enable DDNS, select the DDNS type, and enter the refresh time (Sec), username, and password.

Steps 3: Click "Apply" to save the DDNS setting.

Steps 4: Enter the domain name in the PC web browser and press "Enter". If you can display the web interface of the device, the configuration is successful. If it is not displayed, the configuration fails.

- **Enable DDNS:** Enabling DDNS domain resolving function.
- **DDNS Type:** Select the DDNS type by dynamic domain name resolution server. (At present, the device supports multiple DDNS, including ORAY, NO-IP, DYN, CHANGEIP, A-PRESS, MYQSEE, SKDDNS, SMART-EYES, ZEBEYE. These multiple DDNSs can coexist at the same time, and the user can select and set them as needed).
- **Refresh Time (Sec):** Do not register frequently. The interval between two registrations shall be more than 60 seconds. Too many registration requests may result in server attack.
- **User Name:** The account registered in the DNS service provider.
- **Password:** The password to the account registered in the DNS service provider.
- **Domain:** The domain name registered in the DNS service provider.



- After setting up DDNS, ensure that the NVR is connected to the WAN to access the device through the DDNS domain name.

❖ PPPOE

PPPoE (Point-to-Point Protocol over Ethernet) is one of the ways in which XVR devices access the network. After obtaining the PPPoE user name and password provided by the Internet Service Provider, you can establish a network connection through PPPoE dialup. After the connection is successful, the XVR device automatically obtains a dynamic IP address of the WAN.

The specific operation steps are as follows:

Step 1: In the main menu, click " →TCP/IP→PPPOE" to enter PPPOE to set the interface, as shown in Figure 5-45 below.

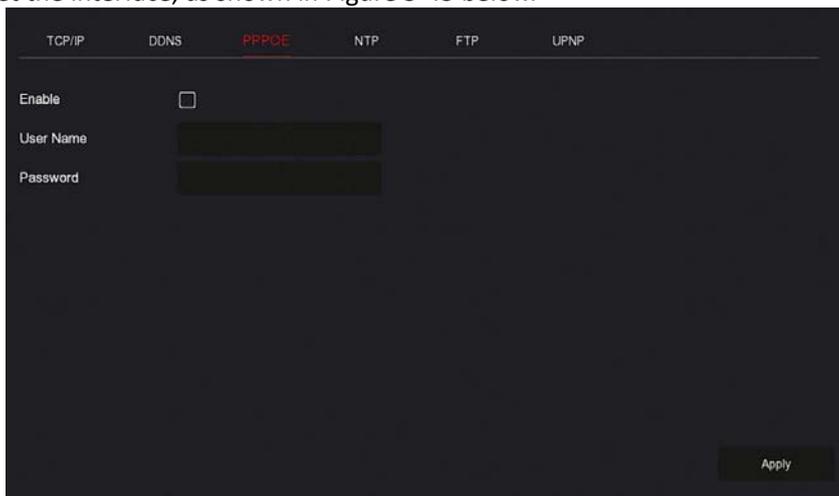


Figure 5-45

Step 2: Select "Enable", input the user name and password of the PPPoE.

Step 3: Click "Apply" to save the configuration.

- **Enable:** Turn on/off the device PPPoE function.
- **User Name:** The PPPoE user name provided by the ISP (Internet Service Provider).
- **Password:** The password corresponding to the user name.


Note

- After setting successfully, you can check the status of the PPPOE from " Maintenance→Network".
- After completing the setting, the device will automatically dial after restarting. After successful dialing, the network information can be displayed in the network status, and users can access the device through the IP address.
- After the configuration is complete, the IP address of the TCP/IP interface cannot be modified.

❖ NTP

After enable NTP (Network Time Protocol), the system can periodically adjust the device time through the NTP server to ensure the accuracy of the device system time.

The specific operation steps are as follows:

Step 1: In the main menu, click " →TCP/IP→NTP" to enter NTP to set the interface, as shown in Figure 5-46 below.

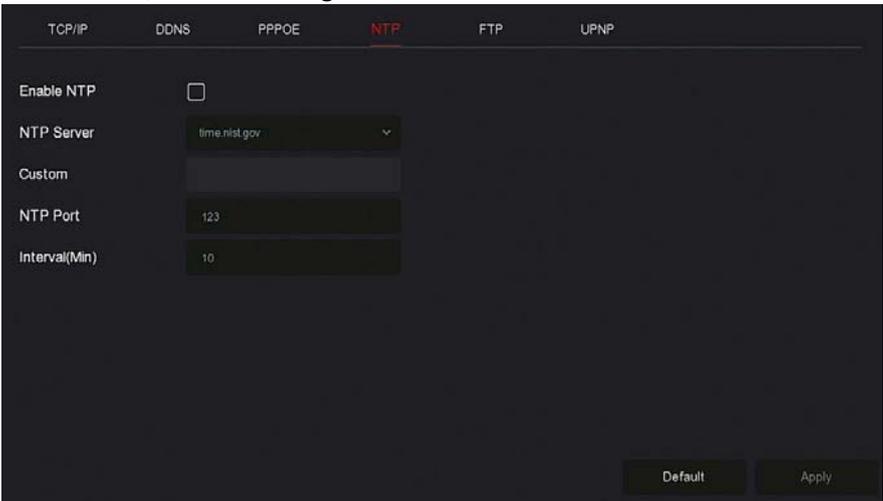


Figure 5-46

- **Steps 2:** Choose "Enable NTP" to set NTP related parameters.
- **NTP Server:** Select the domain name of the server where the NTP service is installed.
- **Custom:** When the NTP server selects "Custom", enter the NTP server domain name manually.
- **NTP Port:** Select the port corresponding to the NTP server.
- **Interval (Min):** The interval of NTP time correction, the default is 720 minutes, and the settable range is 30-1440 minutes.

Steps 3: Click "Apply" to save the setting.

❖ FTP

With FTP (File Transfer Protocol) server, you can store alarm pictures on the FTP server.

Prerequisites

You need to purchase or download the FTP service tool and install the software on your PC.



- To create an FTP user, you must set FTP folder write permission. Otherwise, the picture will not be uploaded successfully.

The specific operation steps are as follows:

Step 1: On the main menu page, click " → Network → FTP" to enter the FTP interface, as shown in Figure 5-47.

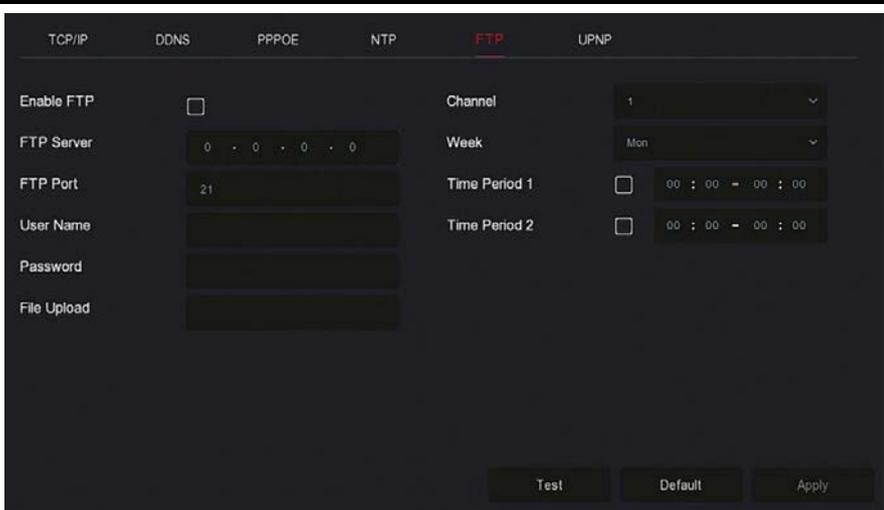


Figure 5-47

Step 2: Select "Enable FTP" and enter parameters such as the FTP Server, FTP Port, User Name, Password, and the File Upload path.

Step 3: Click "Apply" to save the configuration.

Step 4: Click "Test" to determine whether the network connection and FTP configuration are correct.


 Note

- If the test fails, recheck the network or FTP configuration.
- **Enable FTP:** Turn on / off the device FTP function.
- **FTP Server:** Host IP address of the FTP server.
- **FTP Port:** The default FTP port is 21, if your FTP server is different; you need to use the same port name with your FT server.
- **User Name:** Please input the user name to login the FTP server.
- **Password:** Please input the corresponding password here.
- **File Upload:** Create folders according to the rules in the FTP account directory.
 - ✓ When the remote directory is empty, the system

automatically creates different folders according to IP and time.

- ✓ Enter the name of the remote directory, the system will create a folder with the corresponding name in the FTP root directory, and then press IP, time to create a different folder.
- **Channel:** Select the channel to upload the capture file.
- **Week:** Select the time to upload the FTP file according to the week. You can set two time periods each week.
- **Time period 1 & 2:** Set the time period for uploading FTP files in one day.
- **Test:** Click "Test", test NVR can successfully upload files to the FTP server.

❖ UPNP

After the mapping between the internal network and the external network is established through the UPnP protocol, the external network user can use the external network IP address to directly access the NVR device on the intranet.

Prerequisites

- 1) Log in to the router and set the IP address of the router's WAN port to access the external network.
- 2) Make sure that the router is a first-level router (or virtual first-level router) and turn on the UPnP function.
- 3) Connect the device to the LAN port of the router and access the private network.
- 4) In the main menu, select " → TCP/IP → IP/Port", set "IP Address" as the router's private IP (for example: 192.168.1.101) or select "DHCP" to obtain the IP address automatically.

The specific operation steps are as follows:

Step 1: On the main menu page, click " → TCP/IP → UPnP" to enter the UPnP interface, as shown in Figure 5-48.

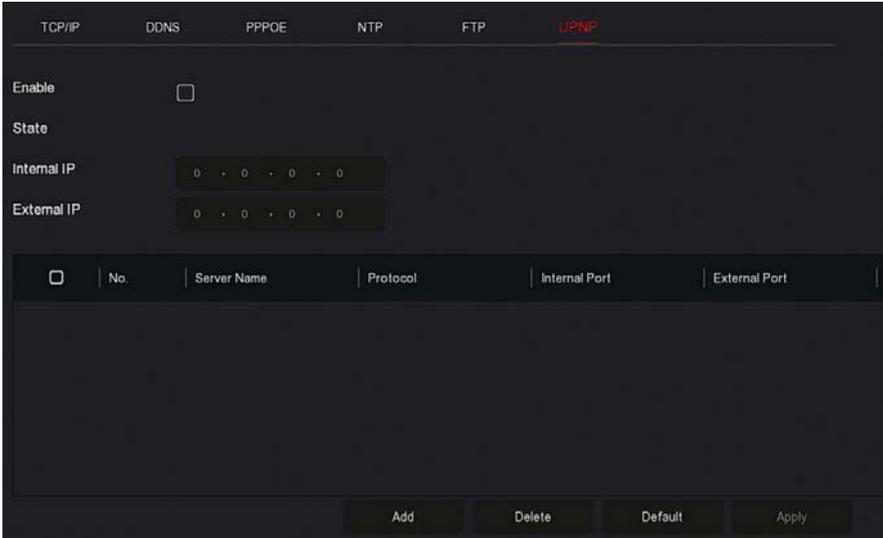


Figure 5-48

Step 2: Enable the UPnP function and configure related parameters such as Internal IP, External IP, and port mapping information of the UPnP route.

Step 3: Click "Apply" to save the configuration.

- **Enable:** Turn on/off the device UPnP function.
- **State:** Displays the mapping status of UPnP.
- **Internal IP:** Enter the router's LAN port address. After the mapping is successful, the IP address will be automatically obtained without setting.
- **External IP:** Enter the router's WAN port address. After the mapping is successful, the IP address will be automatically obtained without setting.
- **Port Mapping Table:** This corresponds to the UPnP mapping table information on the router.

- ✓ **Server Name:** The web server name.
- ✓ **Protocol:** The type of agreement.
- ✓ **Internal Port:** The port that the local machine needs to map.
- ✓ **External Port:** The port mapped on the router.
- **Add:** Click "Add" to increase the mapping, enter the service name, internal port, and external port.
- **Server Name:** Enter the service name and define it yourself.
- **Internal Port:** You need to enter the corresponding HTTP port, RTSP port, TCP port.
- **External Port:** Can be self-defined, and the internal port can be the same, but cannot and NVR other ports repeat.
- **Delete:** Select the mapping information in the port mapping table and delete the mapping relationship.



Note

- When setting the external port of the router mapping port, try to use the port between 1024 and 65535. Avoid using the well-known port 1~255 and the system port 256~1023 to avoid conflict.
- When deploying multiple devices in the same LAN, plan the port mapping to avoid mapping multiple devices to the same external port.
- When performing port mapping, ensure that the mapped port is not occupied or restricted.
- TCP internal and external ports must be consistent and cannot be modified.

■ Address Filter

The black and white list restricts the PC to log in to the NVR web client by filtering the IP address or MAC address. There are two types: black list and white list.

➤ Blacklist:

1. NVR cannot connect to IPC's IP address or MAC address in the blacklist.
2. The computer with the IP or MAC address in the blacklist will not be able to log in to the NVR web page.

➤ **Whitelist:**

1. The device can only connect to the IPC in white list.
2. Only IPCs in the whitelist can access the NVR.

Add blacklist / Whitelist operation steps are shown as below:

Step 1: In the main menu, choose "  →Address Filter" to enter Address Filter setting interface, as shown in Figure 5-49 below.

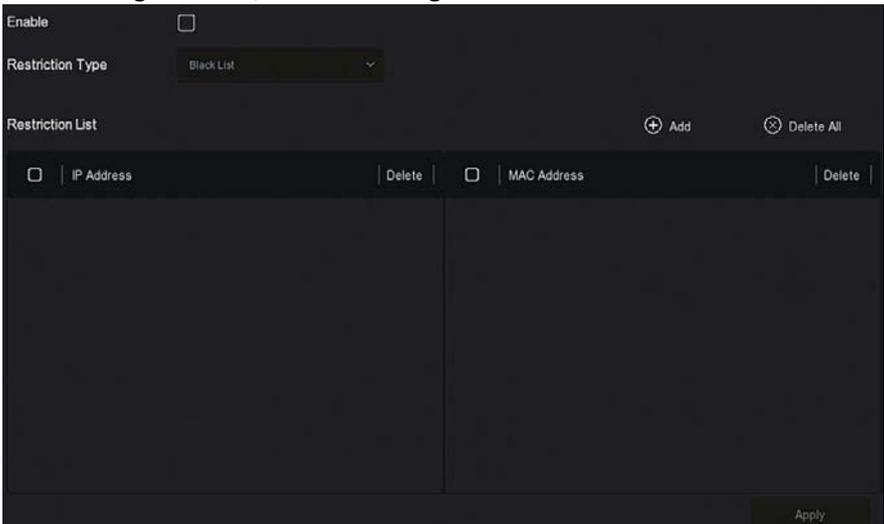


Figure 5-49

Step 2: Choose "Restriction Type ", such as "Blacklist ".

Step 3: Click "Add ", choose IP address (or MAC address), input IP address.

Step 4: Click "Apply", the IP address or MAC address will be added to the Blacklist of the device.

IP address and MAC address filtering steps:

Step 1: In the main menu, choose "  →Address Filter" to enter Address Filter setting interface.

Steps 2: Choose "enable→Restriction Type".

Steps 3: Click "Apply" to save the setting.

➤ **Enable:** Enable / Disable the filtering function of NVR.

- **Restriction Type:** There are two options: "Blacklist" and "Whitelist".
- **Restriction List:** Corresponding to the list of the currently selected type list, display all the added IP address, MAC address and status (Enable / Disable) in the list.
-  **Add:** Add blacklist and whitelist.
-  **Delete:** Delete the list selected in the filter list.
-  **Delete All:** Delete all added lists in the filter list.



CAUTION

- The device supports adding up to 128 whitelists and 128 Blacklists.
- Double-click a list in the filter list to enter the add interface, you can modify the IP address or MAC address.
- When you add the Blacklist / Whitelist, the letters in MAC address can be uppercase or lowercase, and are separated by ":", such as "00: 30: 4F: 00: 11: 22".
- When the IP Restriction Type is Blacklist / Whitelist, only one list is in effect at a time.

■ **Cloud Storage**

❖ **Google**

Set cloud storage. When the device triggers an alarm, it can store the captured alarm image of the device on the cloud server.

Prerequisites

- 1) You need to have a Dropbox or Google Cloud Storage account.
- 2) Using this function, the device must be connected to an external network; otherwise it will not work properly.

The specific operation steps are as follows:

Step 1: On the main menu page, select " → Cloud Storage → Google" to enter the Google setting interface, as shown in Figure 5-50.

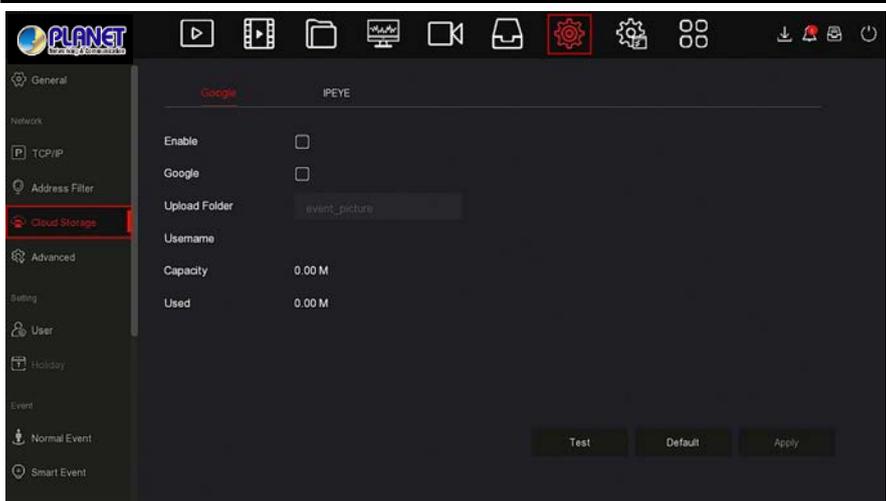


Figure 5-50

Steps 2: Enable cloud storage, click "Google → Bind", follow the prompts to log in to the corresponding website using a browser on the computer, and enter the obtained "Authorization Code" as "Binding" In the "Authorization code" column of the interface, click "Confirm".

Steps 3: Click "Apply".

Steps 4: Click "Test" to test whether the XVR can successfully upload files to the cloud server. After the binding is successful, the cloud storage interface displays the "Google" username, total capacity, and used space.

- **Enable:** Turn on/off the device cloud storage function.
- **Google:** Select a cloud storage Type.
- **Upload Folder:** Set the upload cloud space folder name.
- **Username:** Displays the user name of the Google.
- **Capacity:** After the cloud storage binding is successful, the total capacity of the cloud space is displayed.
- **Used:** Cloud storage binding is successful; the display of cloud space has been used capacity.
- **Test:** After binding, click "Test" to confirm whether the binding is successful. If the test fails, check whether the device is properly connected to the network and the cloud storage configuration.

IPEYE

- After enable the IPEYE for a channel of NVR, you can add the device to the IPEYE account, and view the real-time audio / video of the NVR channel through IPEYE.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Cloud Storage → IPEYE" to enter IPEYE setting interface, as shown in Figure 5-51 ① below.

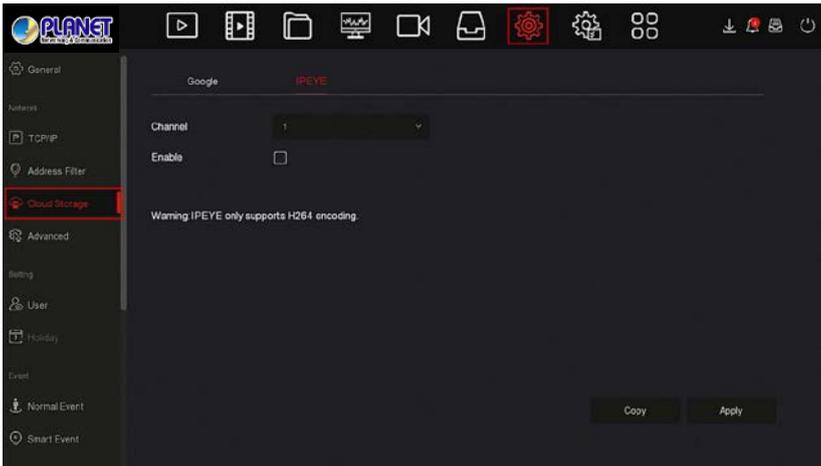


Figure 5-51 ①

Steps 2: choose "Configure channel → Enable", click "Apply", the IPEYE client IP address will be shown on the interface, as shown in Figure 5-51 ② below:



Figure 5-51 ②

Steps 2: Log in to IPEYE Client <http://182.18.195.251:8282>, enter the IPEYE

and XVR accounts and passwords, select the device to enable IPEYE, and click "Add to Cloud" to add the device to the IPEYE account, as shown in Figure 5-51 ③.

Add NVR to the Cloud

Cloud Login	Cloud Password
summer	*****
If you do not have a username and password, you must register at: http://ipeye.ru	
NVR Login	NVR Password
admin	*****

#	Real Chanel	Cloud Chanel	Cloud Status	Action
1	30	Main: db0ecf91-af04-425a-9305-e75d610d836f/30	Wait	Add to Cloud
	31	Second: db0ecf91-af04-425a-9305-e75d610d836f/31		
2	00	Main: db0ecf91-af04-425a-9305-e75d610d836f/00	Wait	Add to Cloud
	01	Second: db0ecf91-af04-425a-9305-e75d610d836f/01		
3	10	Main: db0ecf91-af04-425a-9305-e75d610d836f/10	Wait	Success
	11	Second: db0ecf91-af04-425a-9305-e75d610d836f/11		
4	20	Main: db0ecf91-af04-425a-9305-e75d610d836f/20	Wait	Add to Cloud
	21	Second: db0ecf91-af04-425a-9305-e75d610d836f/21		

Figure 5-51 ③


 Note

- New user please log in <http://www.ipeye.ru/> to register an account.

Steps 3: Log in to <http://www.ipeye.ru/> and enter the IPEYE device list to view the newly added device name as "cloud_xxxxx", and click " " to view the device real-time video.


 Note

- The IPEYE function only supports H264-encoded video streams. When the device channel is not H264-encoded, the real-time video of the channel cannot be previewed through IPEYE.

■ **Advanced**

❖ **E-mail**

After setting the email information and enabling the alarm linkage email function, when the NVR triggers an alarm, the system sends an alarm email to the user mailbox.

The specific operation steps are as follows:

Step 1: On the main menu page, click " → Advanced → E-mail" to enter the E-mail setting interface, as shown in Figure 5-52.

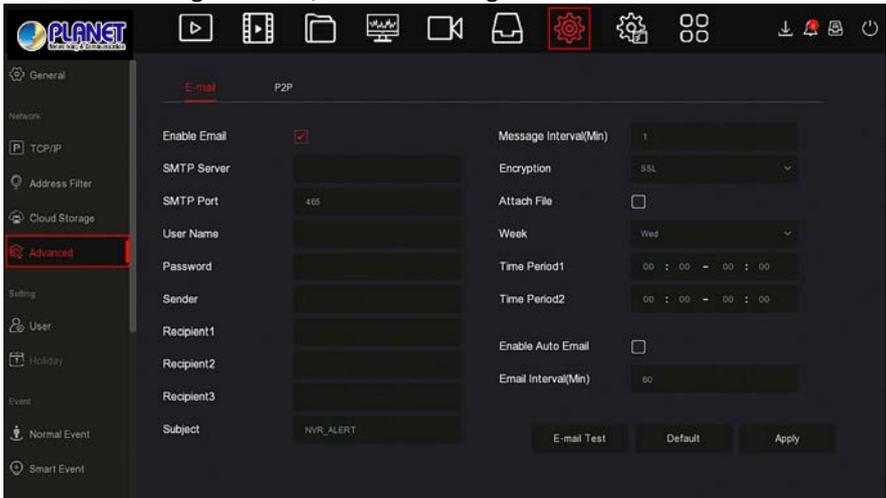


Figure 5-52

Steps 2: Enable e-mail alarm notifications, configure SMTP server, SMTP port, user name, password, sender, subject, message interval, and select encryption type, attach file and other parameters.

Steps 3: Click "E-mail test" and the message "Success. Check the inbox." is displayed. Then the mail configuration is successful. If the message "E-mail can't be delivered!" is displayed, the mail configuration fails.

Steps 4: After the email is sent successfully, click "Apply" to save the email configuration.

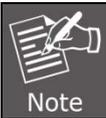
- **Enable E-mail:** Enable / disable mail sending.
- **SMTP Server:** Select the SMTP sever type.
- **SMTP Port:** Please input corresponding port value here.
- **User Name:** Please input the user name to login the sender email box.
- **Password:** Please input the corresponding password here.
- **Sender:** Please input sender email box here.
- **Recipient 1/2/3:** Recipient e-mail address 1/2/3.
- **Subject:** Please input email subject here. System support English character and Arabic number, default "XNVR_ALERT".
- **Message Interval (Min):** The interval between sending emails. After the email sending interval is set, when the alarm is triggered, the system does not trigger the immediate sending of the email according to the alarm signal. Instead, the email is sent according to the interval time of the same type of event email. Avoid frequent alarms and generate a lot of mail, causing the mail server to be overstressed. The time range is 0~600 minutes, and 0 minutes means that the mail is sent without interval.
- **Encryption:** Select the Mailbox server encryption, including NONE, SSL, TLS, and default "SSL".
- **Attach File:** Turn on/off the email attachment function. After the alarm is turned on, the system can send snap shots when the alarm is sent.
- **Week:** Select the time to send emails according to the week, and you can set two time periods per day.
- **Time period (1/2):** Set the time range for sending mail. After setting, send the alarm message at that time; do not send mail at other times.
- **Enable Auto Email:** Enable / disable automatic email sending.
- **Email interval (min):** Mail sending interval.
- **E-mail Test:** Test email sending and receiving functions are normal. In the correct configuration, the receiving email will receive a test email. When the test fails, check the parameters or network status.

❖ **P2P**

P2P is a private network penetration technology. It does not need to apply for a dynamic domain name, perform port mapping, or deploy a transit server. You can directly scan the QR code to download a mobile client. After registering an account, you can add and manage multiple IPC, NVR, XVR devices simultaneously on the mobile client.

You can add devices in the following two ways to manage multiple devices.

- 1) Scan the QR code for the mobile phone system, download the App and register the account. For details, see the App User Manual on the website.
- 2) Log on to the P2P platform, register an account, and add the device via the serial number.



- With this function, the device must be connected to an external network; otherwise it will not work properly.

The specific operation steps are as follows:

Step 1: On the main menu page, click " → Advanced → P2P" to enter the P2P interface, as shown in Figure 5-53.

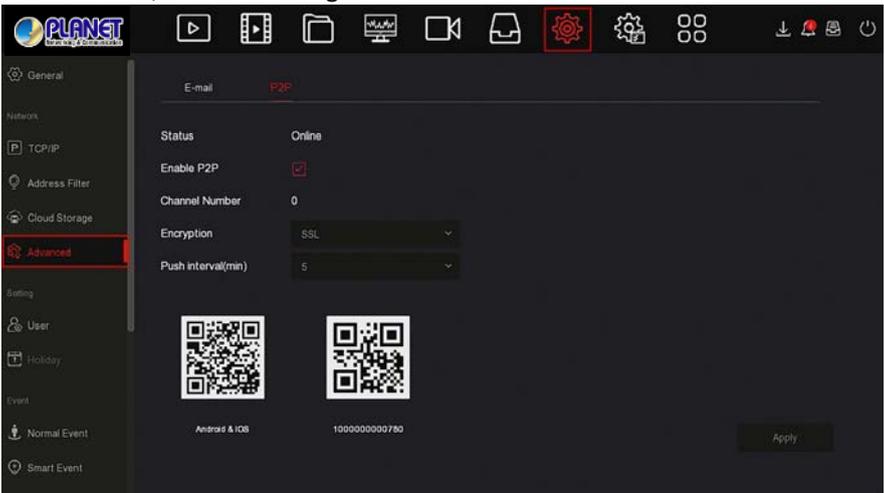


Figure 5-53

Step2: Make sure that the NVR accesses the external network; choose "Enable P2P→ Encryption".

Steps 3: Click "Apply" to save the configuration.

Steps 4: Click "Refresh" and the status shows "Online". This indicates that P2P is enabled and can be used normally.

- **Status:** Display device P2P online status.
- **Enable P2P:** Turn on / off device P2P function. The default is "Online".
- **Channel Number:** Shows the current user viewing the number of NVR channel videos on the App client.
- **Encryption:** Select the encryption type. After the device is enabled, all signaling communication between the device and the server is encrypted.
- **Push interval (min):** Set the time interval for the device to snap the alarm picture to the mobile client, and you can also select "Turn off the push" to stop the device from pushing the picture to the mobile terminal.
- **Android & iOS:** P2P client download link.
- **SN:** Displays the serial number of the device P2P. This serial number is unique.
- **Refresh:** Refresh the P2P interface related information.

BitVision App Client operation example

"BitVision App" provides a micro video service platform for home and business users. Users can easily view real-time video, historical video, alarm service and other services.

The specific operation steps are as follows:

Step 1: Use the Android or iOS phone to scan the corresponding QR code to download and install the BitVision App.

Step 2: Run the client and log in to the account (No account is required to register first).

Step 3: Add devices to the mobile client.

After login, click "Device →  →  Add device → SN Add", Align the QR code on the device body or P2P interface to scan → enter the device user name, password and verification code after scan the QR code (the

verification code printed on the label), click "Add" to set device note and group, click "Send" after add successfully.

Step 4: Real-time preview

In the main interface, click "REAL TIME" →  → choose the device you want to view the preview, click " Done ", choose a channel to play the real time video.

5.3.7.3 Setting

The setting is composed of User and Holiday.

■ User



Note

- The factory default administrator user name is admin and the password is admin.
- Administrators can add and delete users and configure user parameters.
- The user level has two levels, the Operator and the General user.



CAUTION

- In order to improve the security of the product's network use, please update the product password regularly. It is recommended to update and maintain it every 3 months. If you have high security requirements for the product environment, it is recommended to update the password monthly or weekly.
- It is recommended that administrators effectively manage device accounts and user permissions, delete irrelevant users and permissions, and close unnecessary network ports.
- Administrators should configure user rights appropriately, and recommend using custom users for management in daily maintenance.

■ **Add user**

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →User" to enter User interface, as shown in Figure 5-54 ① below.

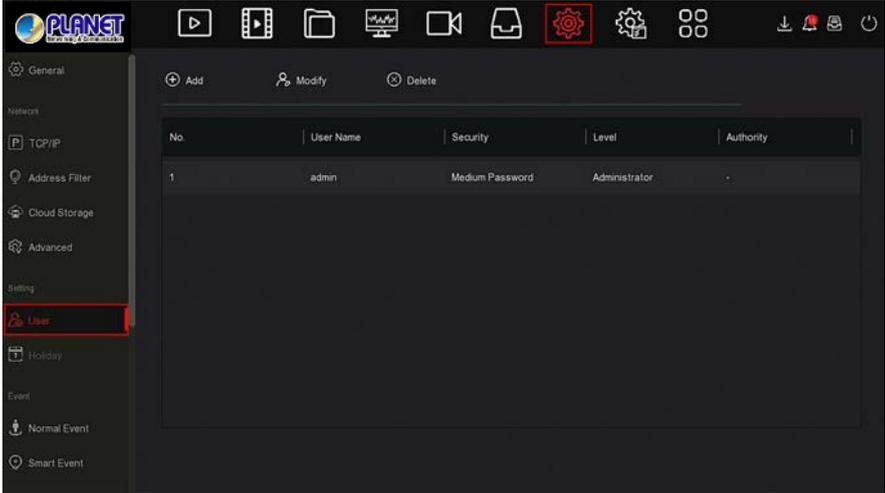


Figure 5-54 ①

➤ **User list:** Displays all current users of the device; the administrator can only change its password, not its permissions.

Step 2: Click "  Add" to enter Confirm Permission interface, confirm the password first, as shown in Figure 5-54 ② below.

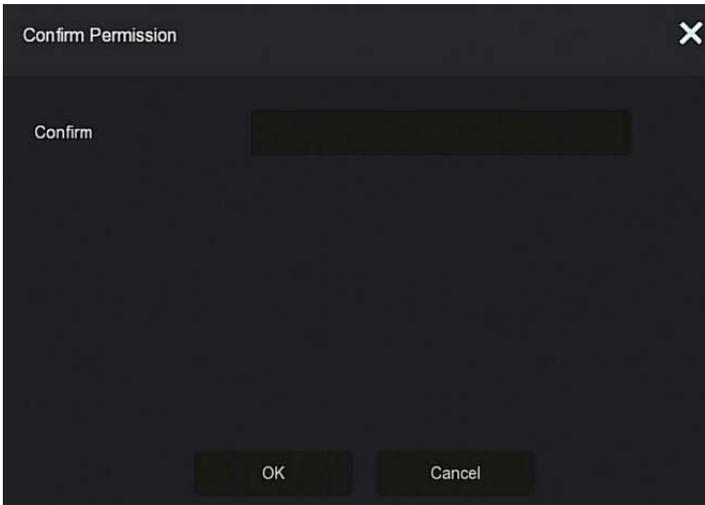


Figure 5-54 ②

Step 3: Enter the administrator password, click "OK", after the permission is confirmed, you can enter the add user interface to add users, as shown in Figure 5-54 ③ below.

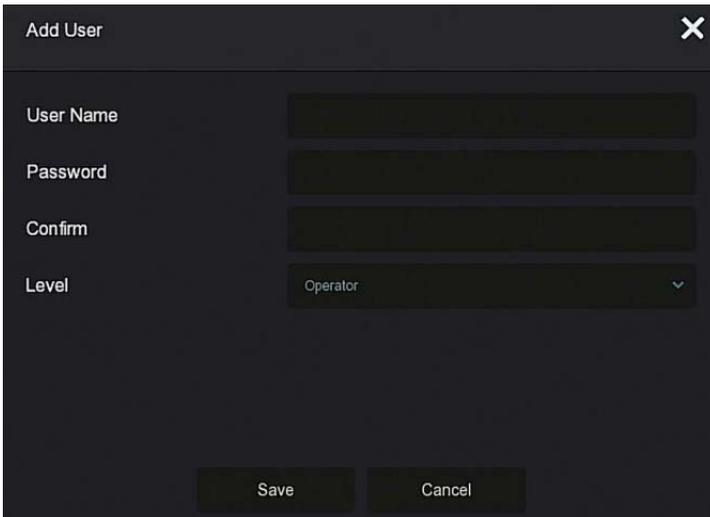


Figure 5-54 ③

Step 4: Enter the new user information (user name, password, confirm password), select the level, click "Save".

Step 5: Setting permissions.

Select the successfully added user, click the corresponding "  " button below the permission to enter the permission interface, and set the user permission.

➤ **Authority NOTE**

Authority are divided into local configuration, remote configuration, channel configuration, administrator users can enable / disable corresponding permissions as needed.

● **Local Config**

- ✓ Local Param Setup: set parameters, restore default parameters, import / export parameters.
- ✓ Local Channel Setup: Add, delete, modify, import and export configuration files for the IP channel.
- ✓ Local User: Check the User Management interface.
- ✓ Local Disk: View and set recording plans, format storage devices.
- ✓ Local Log: View system logs, system information.
- ✓ Local Update: Upgrade the device locally.
- ✓ Local Restore Default: you could restore default parameters.
- ✓ Local Shutdown Reboot: You can shut down and reboot the device.

● **Remote Config**

- ✓ Remote Param Setup: Set parameters remotely, restore default parameters, import / export parameters.
- ✓ Remote Channel Setup: Add, delete, modify IP channels remotely.
- ✓ Remote User: View the User interface remotely.
- ✓ Remote Disk: View and set recording plans, format storage devices remotely.
- ✓ Remote Log: View system logs remotely.
- ✓ Remote Update: Upgrade the device on the web.
- ✓ Remote Restore Default: you could restore default parameters remotely.

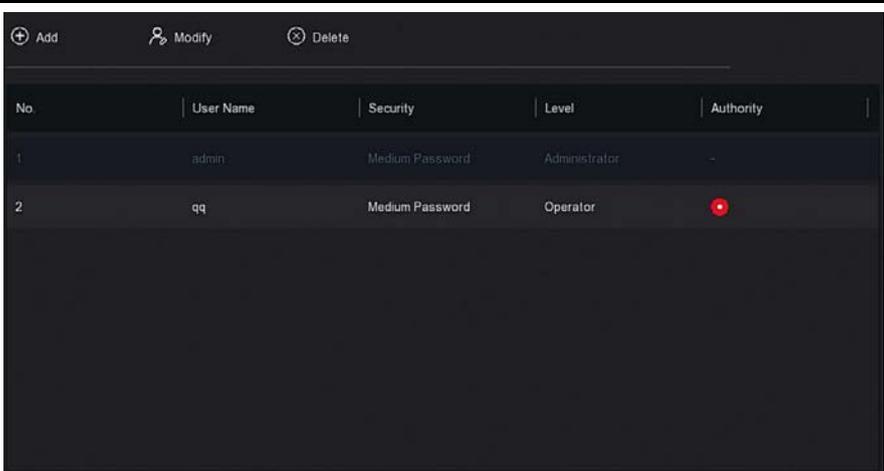
- ✓ Remote Shutdown Reboot: you can shut down and reboot the device remotely.

- **Channel Config**
 - ✓ Local Preview: Preview live video of each channel locally, this permission is detailed for each channel.
 - ✓ Remote Preview: Preview live video of each channel remotely, this permission is detailed for each channel.
 - ✓ Local Record: Set the recording plan of each channel locally, this permission is detailed for each channel.
 - ✓ Remote Record: Set the recording plan of each channel remotely, this permission is detailed for each channel.
 - ✓ Local Playback: Local playback video files are saved on NVR; this permission is detailed for each channel.
 - ✓ Remote Playback: Remote playback, download video files on NVR; this permission is detailed for each channel.
 - ✓ Local PTZ: This permission is detailed for each channel.
 - ✓ Remote PTZ: This permission is detailed for each channel.
 - ✓ Local Backup: Local backup video files are saved on NVR; this permission is detailed for each channel. Channels with local backup authority must have local playback authority.
 - ✓ Remote Backup: Remote backup the video files from NVR; this permission is detailed for each channel. A channel with remote backup authority must have remote playback authority.



- Only the admin administrator has the right to "restore default parameters".
- Channel permissions support individual permission settings for a channel.

Step 6: Click "Save" to save the set permissions and return to the user management interface, as shown in Figure 5-54 (4) below.



No.	User Name	Security	Level	Authority
1	admin	Medium Password	Administrator	-
2	qq	Medium Password	Operator	

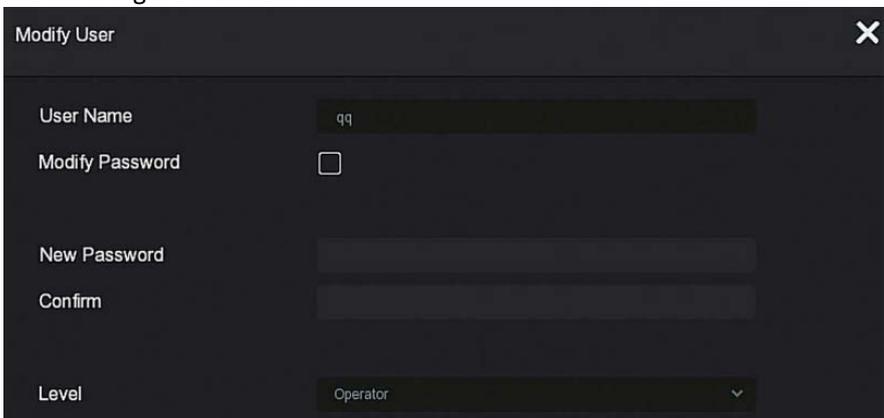
Figure 5-54 ④

■ **Modify the user**

The specific operation steps are as follows:

Step 1: In the main menu, choose " → User" to enter User interface.

Step 2: Choose User, click " Modify" to enter Modify User interface, as shown in Figure 5-55 below.



Modify User ✕

User Name

Modify Password

New Password

Confirm

Level

Figure 5-55

Step 3: Modify users as needed (User name, password), click "Save".

■ **Delete the user**

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →User" to enter User interface.

Step 2: Choose the user you want to delete, click the corresponding "  Delete" below to delete it.

Step 3: Click "Confirm" to complete user deletion.

■ **Modify password**

✓ The operation steps are as follows:

Step 1: In the main menu, choose "  →User" to enter User interface.

Step 2: Select the administrator, click "  Modify" to enter permission confirmation interface, confirm the password first.

Step 3: Enter administrator password, click "Save", after the permission is confirmed, you can enter the password retrieval interface, as shown in Figure 5-56 below.

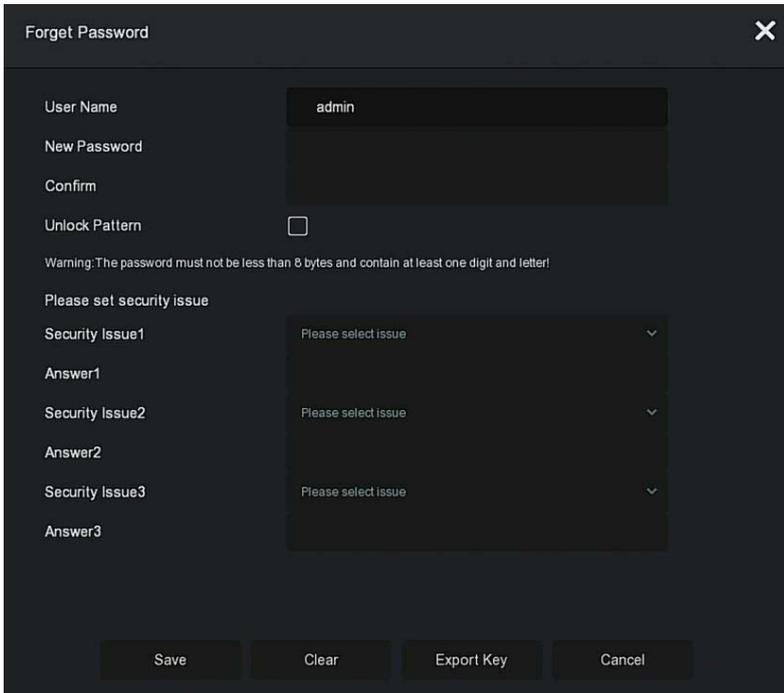


Figure 5-56

Step 4: Enter the new password and confirm the password.

Step 5: Choose security questions 1, 2, 3 and set the corresponding answers, click "Save".

Step 4: Insert the U disk into the device, click "Export Key".



Note

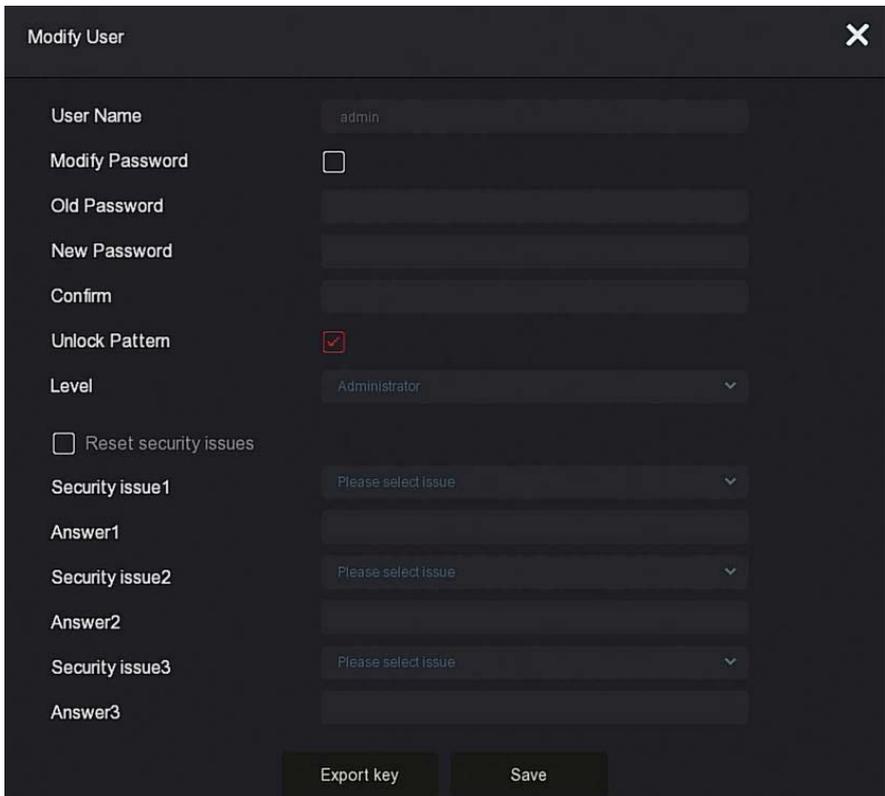
- When the administrator password is changed for the first time, a security question and corresponding answer must be set to successfully change the password.
- When changing the administrator password, the key may not be exported.
- When changing the password, an unlock pattern can be set at the same time, and the user will have one more way to log in to the device.

- ✓ **The procedure for changing the administrator password again is as follows:**

Step 1: In the main menu, choose "  →User" to enter user interface.

Step 2: Select the administrator, click "  Modify" to enter permission confirmation interface, confirm the password first.

Step 3: Enter administrator password, click "Save", after the permission is confirmed, you can enter the password retrieval interface, as shown in Figure 5-57 below.



Modify User ✕

User Name

Modify Password

Old Password

New Password

Confirm

Unlock Pattern

Level

Reset security issues

Security issue1

Answer1

Security issue2

Answer2

Security issue3

Answer3

Figure 5-57

Step 4: Normal Event

Put old password, new password and confirm.

Step 3: Reset the security question and corresponding answer, and export the key.

Step 4: Click "Save" to complete the modification.



Note

- When changing the device password again, it is not necessary to set the security question and export the key.
- When changing the password, an unlock pattern can be set at the same time, and the user will have one more way to log in to the device.

5.3.7.4 Event

Event is composed of Normal Event and Intelligent Event.

■ **Normal Event**

Normal Event is composed of Motion Detection, Video Tampering, Video Loss, Alarm Input, Alarm Output, Exception and Buzzer, as shown in Figure 5-58 below.

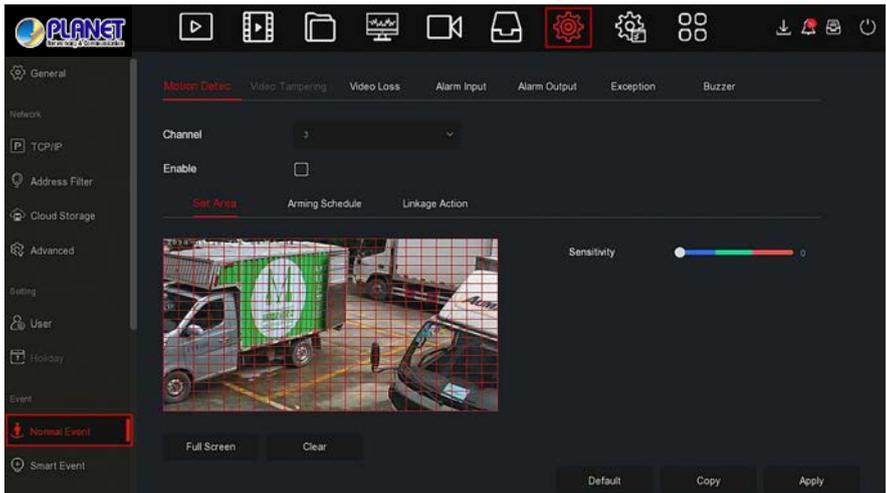


Figure 5-58

❖ Motion Detection

Motion detection uses computer vision and image processing techniques to analyze the video images to see if there are enough changes in the images. When the moving target appears on the monitoring screen and the moving speed reaches the preset sensitivity, the system performs an alarm linkage action.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Normal Event→Motion Detection" to enter Motion Detection interface, as shown in Figure 5-59 ① below.

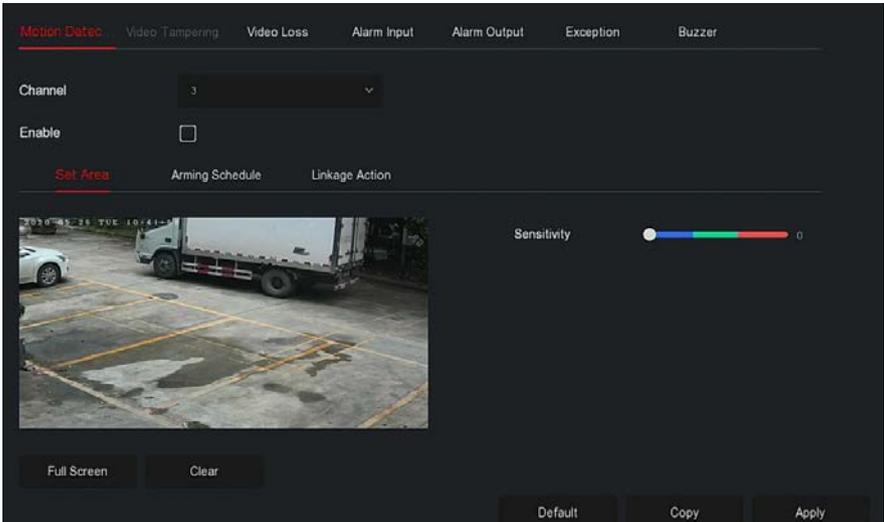


Figure 5-59 ①

Step 2: Turn on motion detection and select a channel.

Step 3: Set area, sensitivity.

- ✓ Use the mouse to draw the area that needs motion detection on the channel video, as shown in Figure 5-59 ② below.

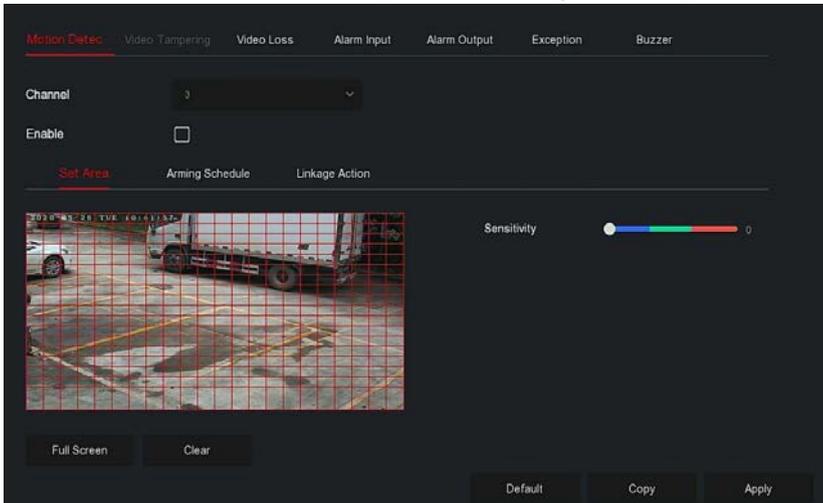


Figure 5-59 ②

- ✓ Slide the sensitivity slider to select the appropriate motion detection sensitivity.

Step 4: Click "Arming Schedule" to enter Arming Schedule interface, as shown in Figure 5-59 ③ below.

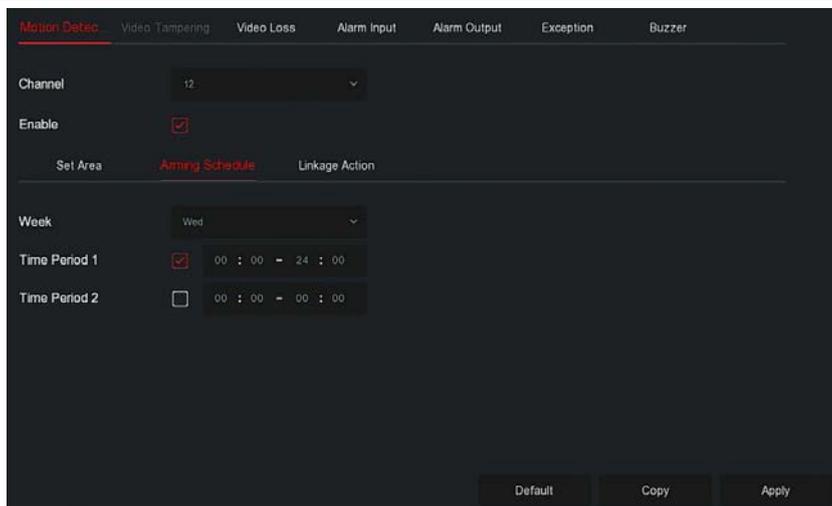


Figure 5-59 ③

Step 5: Click "Linkage Action" to enter Linkage interface, Set normal linkage and alarm output as required, as shown in Figure 5-59 ④ below.

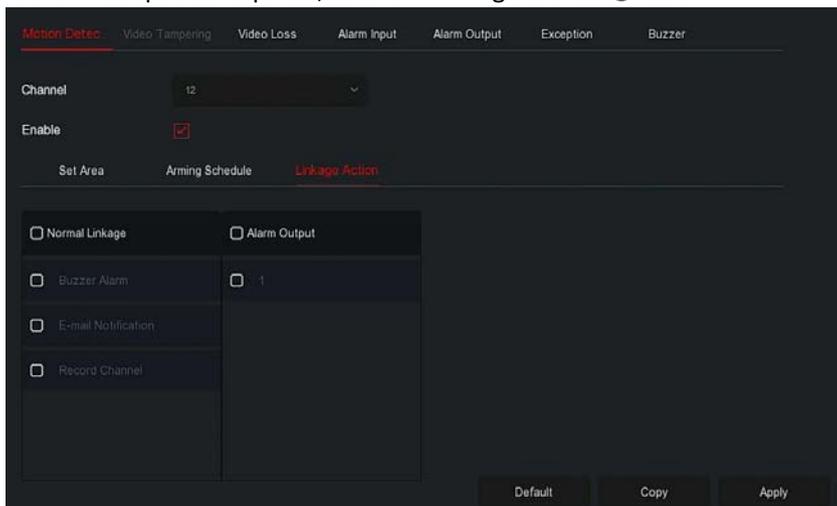


Figure 5-59 ④

Step 6: Click "Apply" to save the setting.



- If you need to set motion detection for other channels, please repeat the above steps.
After setting to enable email notification for motion detection, click "Main menu" →  → "Advanced" → "E-mail" to enter E-mail setting interface to set up the email. When the system sends a linkage alarm within the set time period, the recipient receives the alarm e-mail.
- After enabling email notification, after setting the specific week and time period, only when the alarm is triggered within the set time period, the NVR can send an email to the set mailbox to notify the user.
- If the other channels have the same motion detection settings as that channel, click "Copy", select another channel, and copy the settings of this channel to other channels.

- **Channel:** Select to set the channel.
- **Enable:** Check "" to turn on / off motion detection alarm.
- **Set Area:** Select all areas by default, click to enter the area setting interface, set the range of the dynamic detection area, press and hold the left mouse button to select the alarm area. After selection, the alarm area is replaced by the red grid. Select the red grid again to cancel the alarm area setting.
- **Sensitivity:** According to the need, it can be set 0-10 eleven file sensitivity; the higher the value, the more sensitive the device.
- **Week:** Select "All Week" or "X" according to the day of the week to set the time for sending alarm emails. Up to two time periods can be set each day.
- **Time period1/Time period2:** Set the time for sending alarm emails.
- **E-mail Notification:** Check "" to turn on / off when the device alerts the mail function.
- **Buzzer Alarm:** Check "" to turn on / off the buzzer alarm function.

- **Record Channel:** Check "" to turn on / off the channel recording function.
- **Alarm Output:** Select the alarm output port, it is connected to the alarm device, within the set alarm time range, when the device motion detection alarm, it will trigger an external alarm device to alarm.
- **Copy:** After the channel has been set up, click "Copy" to apply the setting to another channel.

❖ Video Loss

When there is a channel losing video signal, the device will alarm and notify the user.

The specific operation steps are as follows:

Step 1: In the main menu, choose " → Normal Event → Video Loss" to enter Video Loss interface, as shown in Figure 5-60 below.

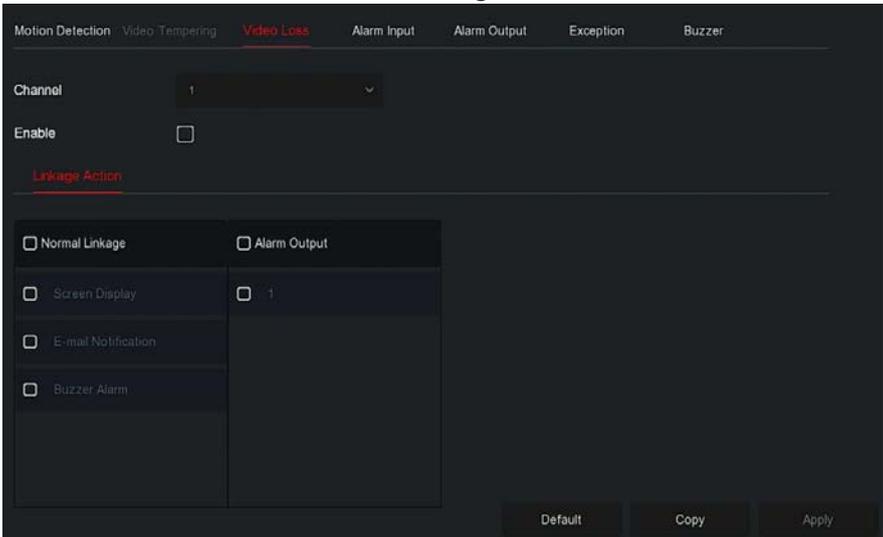


Figure 5-60

- Step 2:** Choose a channel, and enable the video loss.
- Step 3:** Set normal linkage and alarm output as required.
- Step 4:** Click "Apply" to save the setting.

- **Channel:** Select the channel.
- **Enable:** Check "" to turn on / off video loss alarm.
- **Screen Display:** When an alarm occurs, the device pops up an alarm screen to show a warning.
- **E-mail Notification:** When an alarm occurs, the device will send an email as a warning.
- **Buzzer Alarm:** When an alarm occurs, the device will beep to show a warning.
- **Copy:** After the channel has been set up, click "Copy" to apply the setting to another channel.

❖ **Alarm Input**

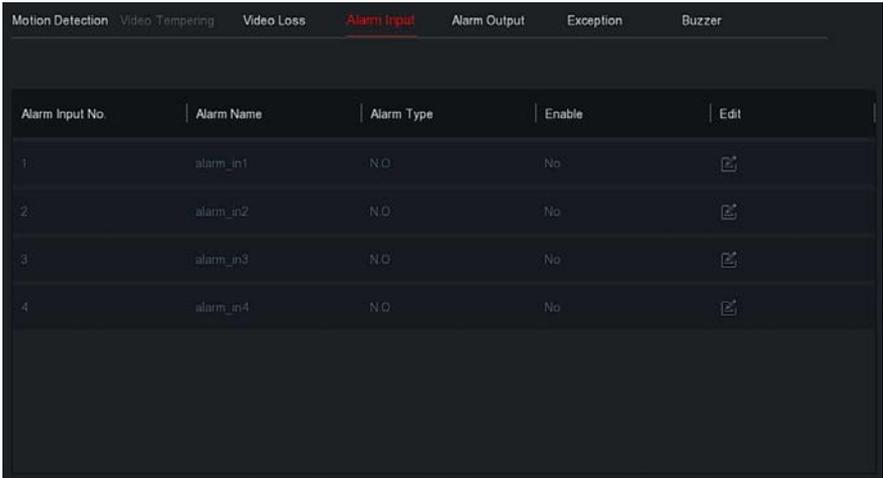
The alarm input is the NVR alarm input port connected to the alarm device. When the alarm signal is transmitted to the NVR through the alarm input port, the system performs the alarm linkage action.

Prerequisites

Make sure the NVR alarm input port is connected to the alarm device.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Normal Event→Alarm Input" to enter Alarm Input interface, as shown in Figure 5-61 ① below.



Alarm Input No.	Alarm Name	Alarm Type	Enable	Edit
1	alarm_in1	N.O	No	
2	alarm_in2	N.O	No	
3	alarm_in3	N.O	No	
4	alarm_in4	N.O	No	

Figure 5-61 ①

Step 2: Select an alarm input channel, click "  " to enter the Alarm Input edit interface, as shown in Figure 5-61 ② below.

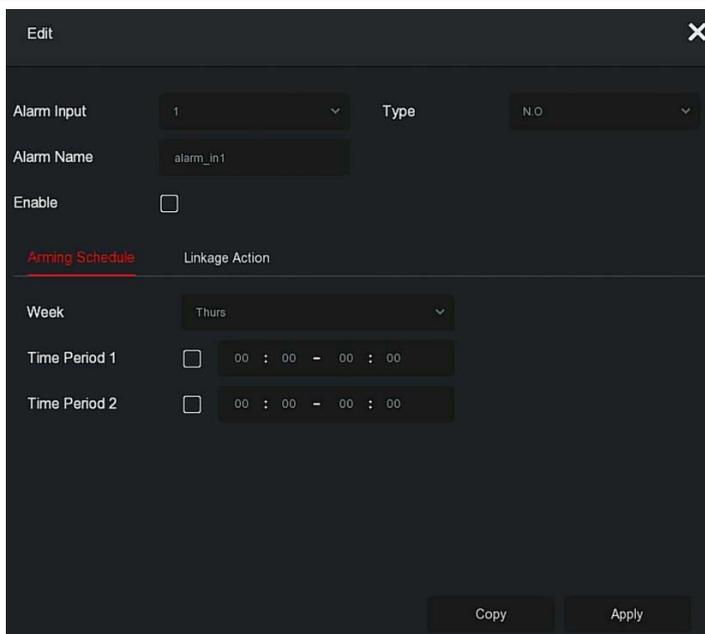


Figure 5-61 ②

Step 3: Select the number, name and type of the alarm input, and enable it.

Step 4: Set the Arming Schedule, as shown in Figure 5-61 ③ below.

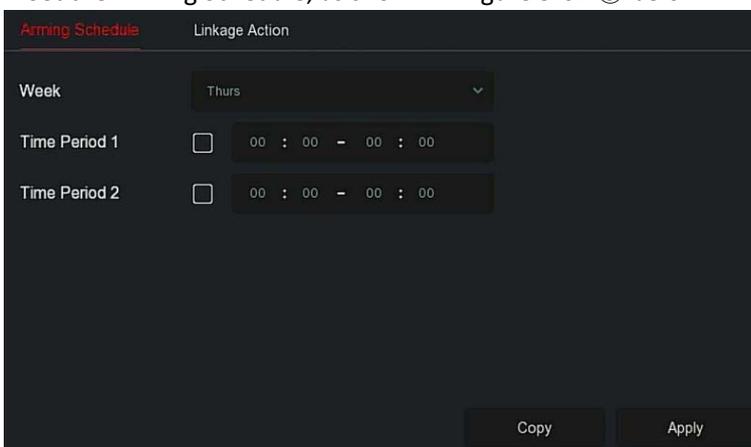


Figure 5-61 ③

Step 5: Set the Arming Schedule, as shown in Figure 5-61 ④ below.

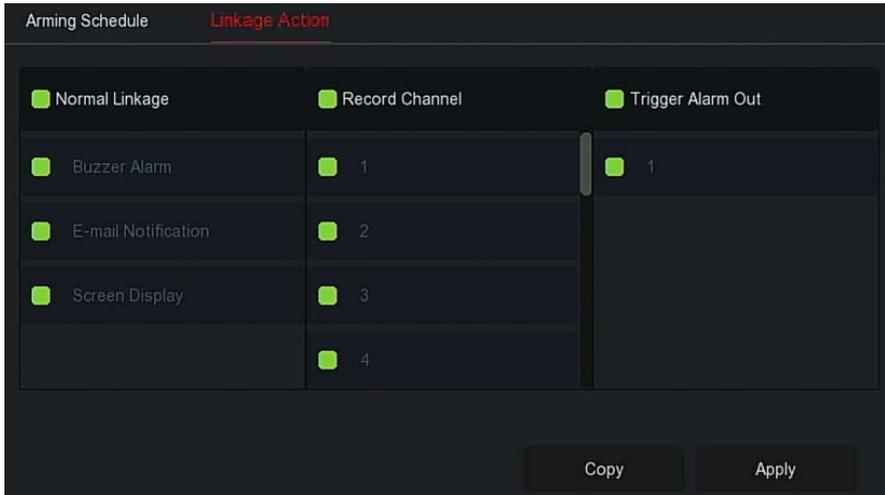


Figure 5-61 ④

Steps 6: Click "Apply" to save the setting.

- **Screen Display:** When an alarm occurs, the device pops up an alarm screen to show a warning.
- **E-mail Notification:** When an alarm occurs, the device will send an email as a warning.
- **Buzzer Alarm:** When an alarm occurs, the device will beep to show a warning.
- **Copy:** After the channel has been set up, click "Copy" to apply the setting to another channel.

❖ Alarm Output

The alarm output is that the NVR connects to the alarm device (such as lights, sirens, etc.) through the alarm output port. When an alarm occurs, the NVR transmits the alarm information to the alarm device.

Prerequisites

Make sure the NVR alarm output port is connected to the alarm.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Normal Event→Alarm Output" to enter Alarm Output interface, as shown in Figure 5-62 ① below.

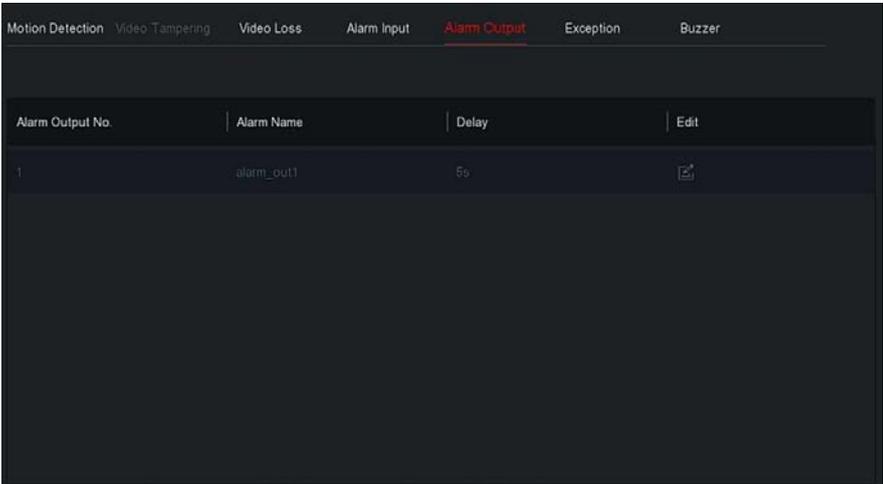


Figure 5-62 ①

Step 2: Select an alarm input channel, click "  "to enter the Alarm Input edit interface, as shown in Figure 5-62 ② below.

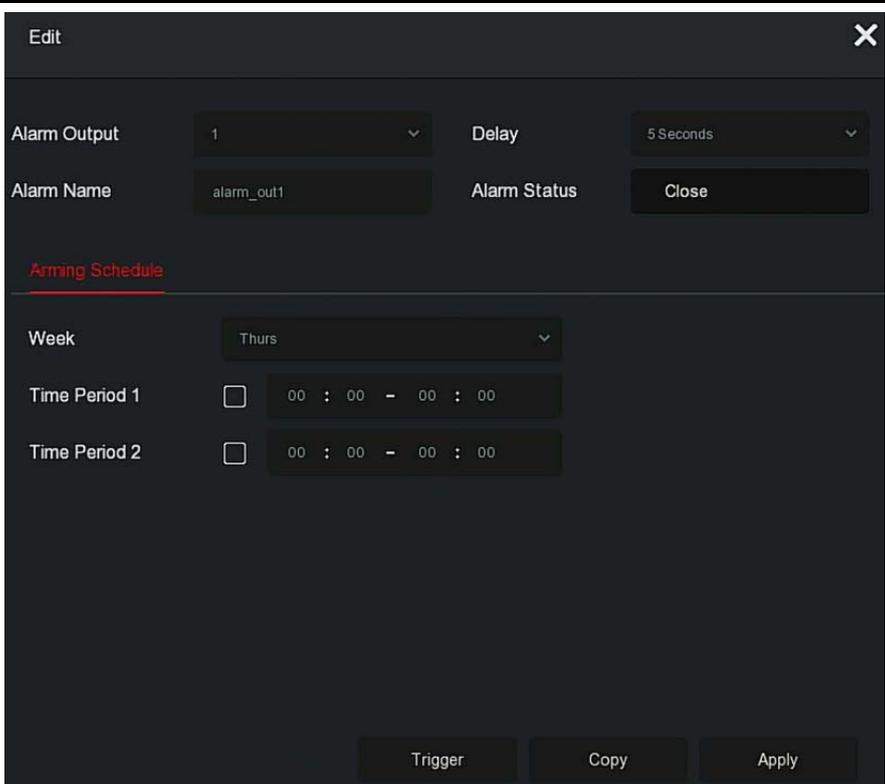


Figure 5-62 ②

Step 3: Select the Alarm Output number, Delay time, Alarm Name and Alarm Status.

Step 4: Set the Arming Schedule.

Step 5: Click "Apply" to save the setting.

➤ **Copy:** Click "Copy" to apply the alarm output port settings to other alarm output ports.

Trigger: Click "Trigger" to start the alarm corresponding to the device connected to the alarm output port. The alarm output device connected to the current channel will alarm.

❖ Exception

Set the alarm mode of abnormal events. When an abnormal event occurs during the operation of the NVR device, the system executes the alarm linkage action. The event types supported by the device are "No Disk", "Disk Error", "Broken Network" and "IP Conflict".

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Normal→Exception" to enter Exceptionsetting interface, as shown in Figure 5-63 below.

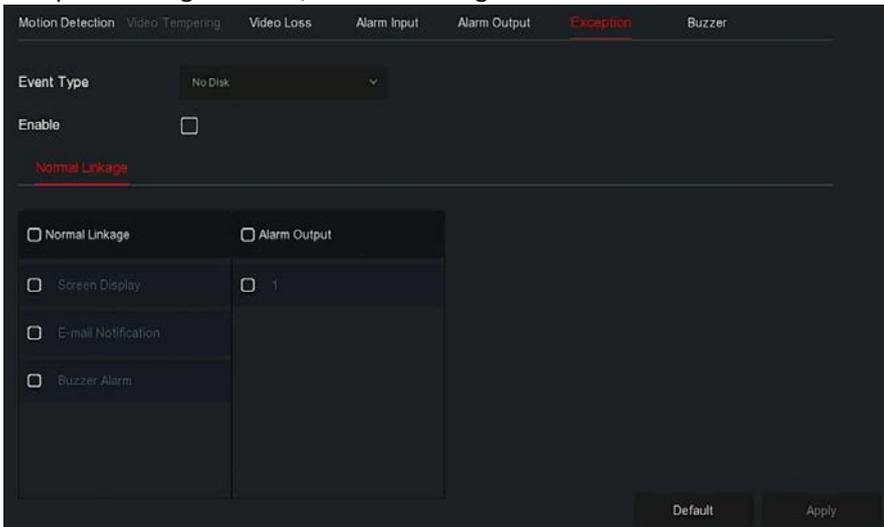


Figure 5-63

Step 2: Select the event type, click "" to enable the exception alarm function, choose the way for linkage (Screen Display, E-mail Notification, Buzzer Alarm) and alarm output port.

Step 3: Click "Apply" to save the setting.

- **Screen Display:** When an alarm occurs, the device pops up an alarm screen to show a warning.
- **E-mail Notification:** When an alarm occurs, the device will send an email as a warning.

- **Buzzer Alarm:** When an alarm occurs, the device will beep to show a warning.

❖ **Buzzer**

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Normal Event→Buzzer" to enter Buzzersetting interface, as shown in Figure 5-64 below.

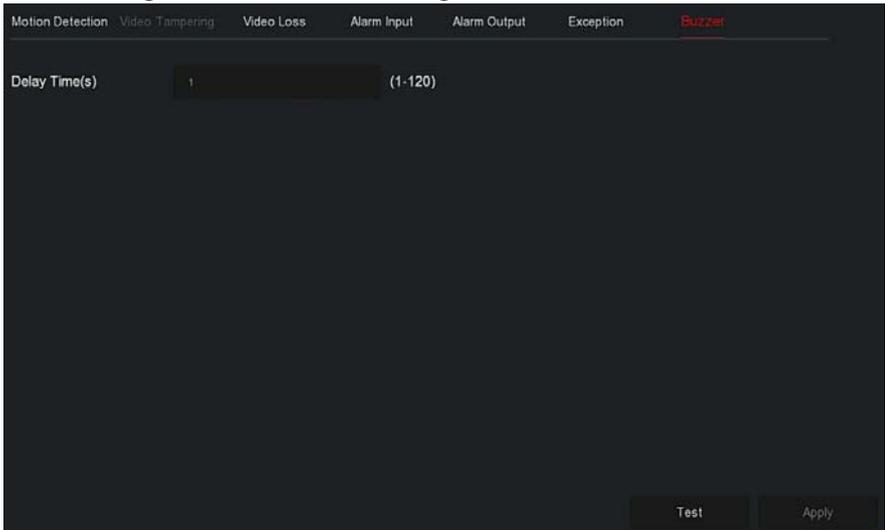


Figure 5-64

Step 2: Set the buzzer time for alarm.

Step 3: Click "Apply" to save the setting.

- **Test:** Click "Test" to confirm the volume and duration of the buzzer alarm.

❖ **Smart Event**

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Smart Event" to enter Smart Eventsetting interface, as shown in Figure 5-65 below.

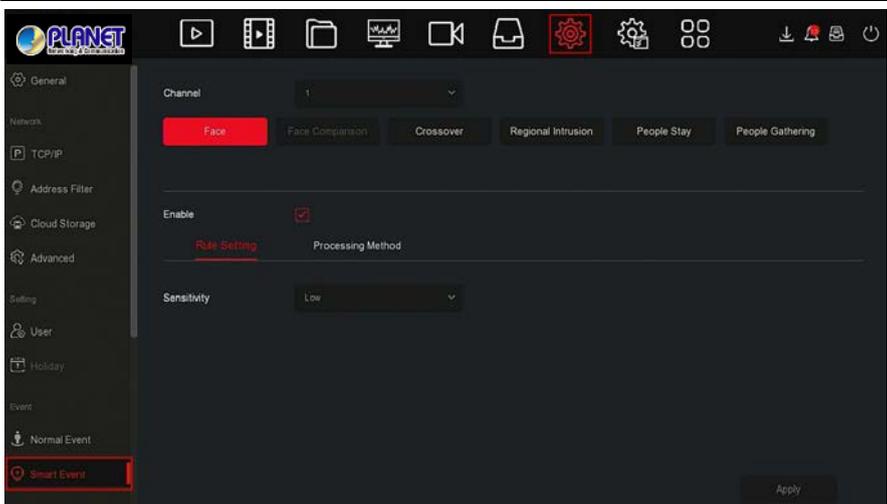


Figure 5-65

Step 2: Set the intelligent detection and alarm mode of the channel. The types of smart detection alarms supported by the device including face detection, face comparison, line crossing detection, regional intrusion, loitering and people gathering.


Note

- All smart detection modes can only be set if the camera supports it.
- Cameras that support smart detection can set up to 1 face detection rule, 4 line crossing detection rules, 4 area intrusion rules, 4 loitering rules, and 4 personnel gathering rules in each channel.

❖ **Face**

- The face detection function can be used to detect faces that appear in the scene.

The specific operation steps are as follows:

Step 1: In the main menu, choose " → Smart Event" to enter Smart Event setting interface.

Step 2: Select the channel you want to set the face detection, click "Face" to enter face detection configuration mode, as shown in Figure 5-66 ① below.

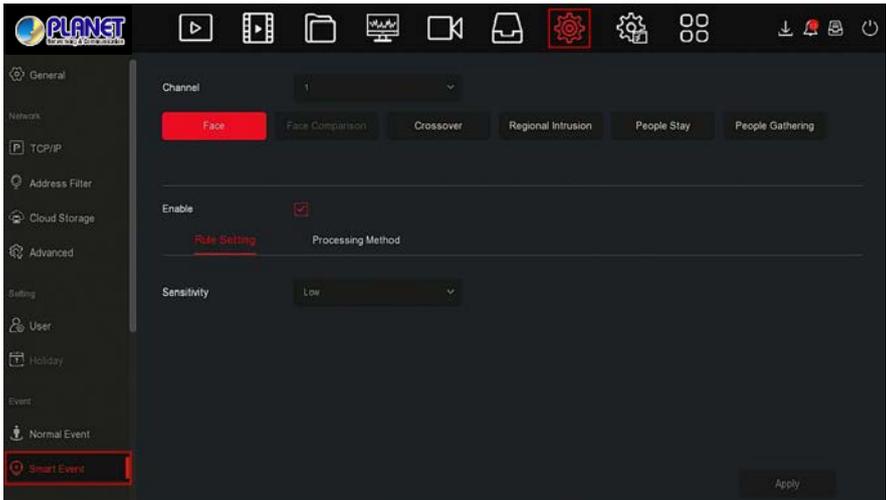


Figure 5-66 ①

Step 3: Click "Enable→Rule Setting", to set the sensibility.

Step 4: Click "Processing Method" to set the alarm linkage as required (Buzzer Alarm, E-mail Notification, Channel Recording) and Trigger Alarm Output, as shown in Figure 5-66 ② below.

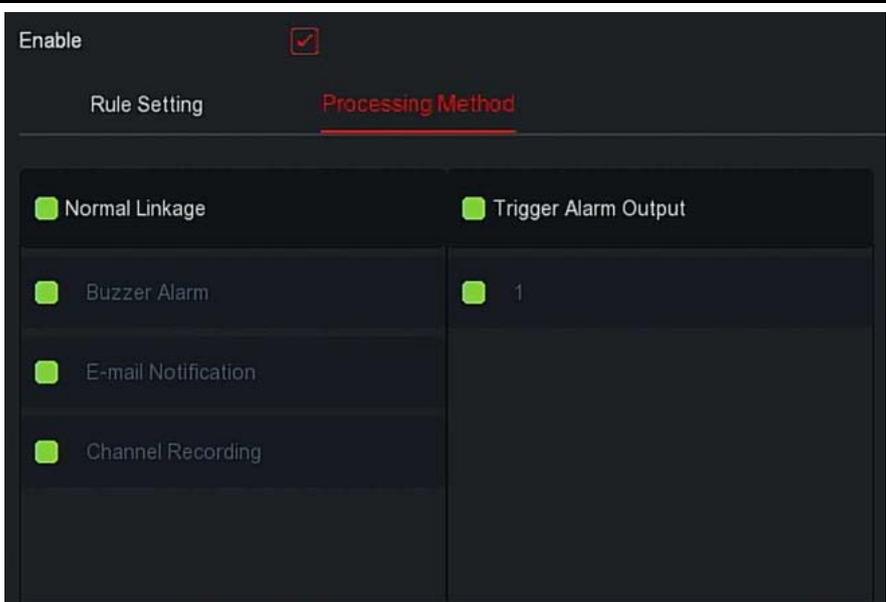


Figure 5-66 ②

Steps 5: Click "Apply" to save the setting.

 <p>Note</p>	<ul style="list-style-type: none">● There are four options for sensitivity, low, medium, high, and highest. The lower the sensitivity, the harder it is to detect a side face or a face that is not clear enough. The user can adjust it according to the actual environment.
--	---

❖ **Face Comparison**

Face comparison is used to compare the detected faces. When a face that has been stored in the face database appears in a channel, the corresponding alarm will be triggered.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Smart Event " to enter Smart Event setting interface.

Step 2: Choose the channel you need to set the face comparison, click "face comparison " to enter face comparison setting mode, as shown in Figure 5-67 ① below.

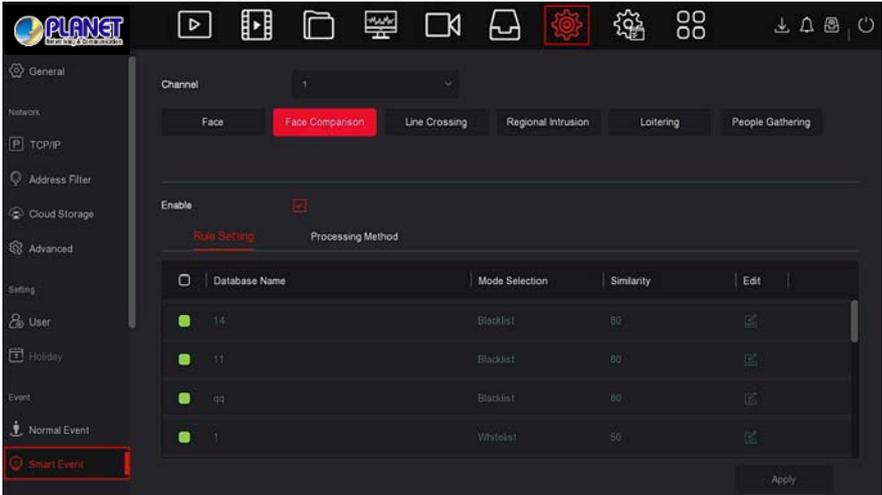


Figure 5-67 ①

Step 3: Click "Enable→Rule Setting ", select the face database, click "[Edit Icon]"to enter the similarity setting interface, as shown in Figure 5-67 ② below.

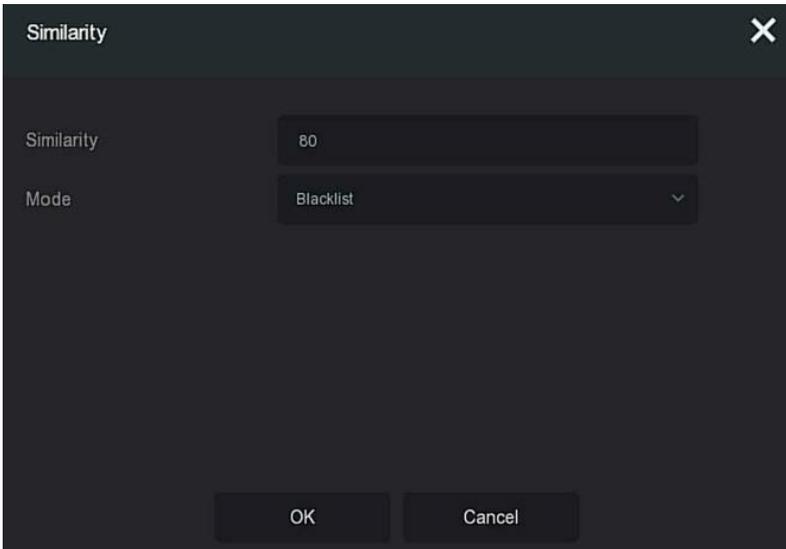


Figure 5-67 ②

Steps 4: Click "OK→Processing Method "set alarm linkage as required (Buzzer Alarm, E-mail Notification, Channel Recording and Trigger Alarm Output), as shown in Figure 5-67 ③ below.

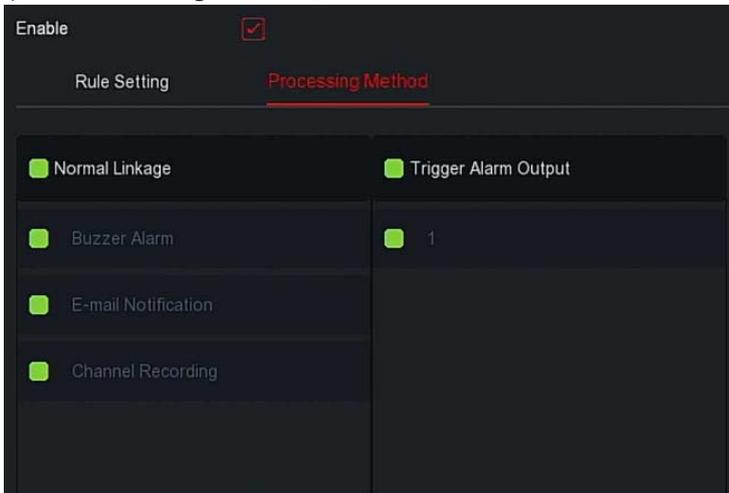
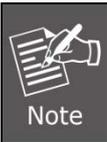


Figure 5-67 ③

Steps 5: Click "Apply" to save the setting.

- **Face Database List:** Used to display and configure all face database of the current device.
- **Database Name:** To display the name of database.
- **Mode:** To display the type of database, blacklist or whitelist.
- **Similarity:** The similarity between the face recognized by the device and the face stored in the face database.
- : Editing, used to set the similarity and mode of the corresponding face database. The higher the similarity value, the more the captured face image looks like the face stored in the face database, and the more accurate the face recognition in the face database. However, the fewer comparison results are displayed.



- The first channel of some NVRs supports the face comparison function. The channels can be connected to ICA-Ax280 model and IPC accessed through any protocol.

❖ Crossover

Line crossing detection can detect whether there is an object crossing the set warning surface in the video, and perform linkage alarm according to the judgment result.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Smart Event" to enter Smart Event setting interface.

Step 2: Choose the channel you need to set the line crossing detection, click "Crossover" to enter line crossing detection setting mode, as shown in Figure 5-68 ① below.

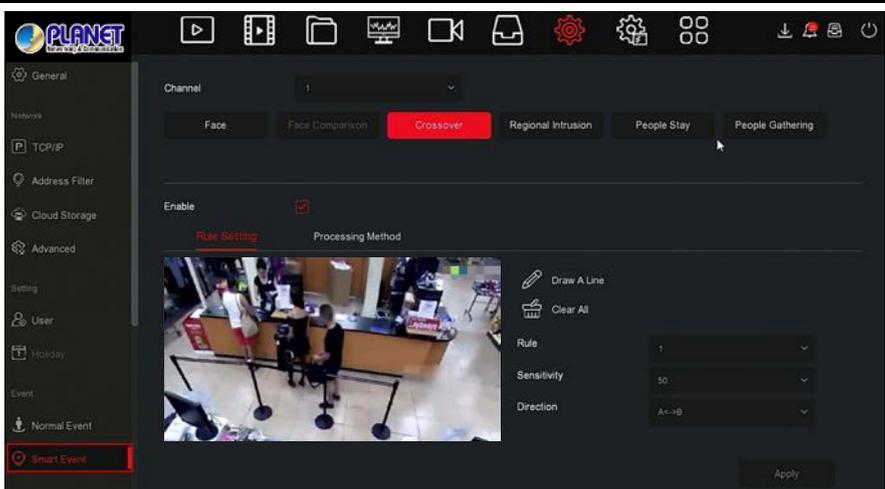


Figure 5-68 ①

Step 3: Click "Enable→Rule Setting ", to set the rule of line crossing detection, the specific steps are shown below:

1. In the "Rules" drop-down list, select any rule as you need. In the "Rules" drop-down list, select any rule as you need.



● Line crossing detection can set 4 rules.

2. Set the Time Threshold (Seconds) and sensitivity of the rule.

- **Sensitivity:** It is used to set the size of the control target object. The higher the sensitivity, the easier the object is judged to be the target object. The lower the sensitivity, the larger the object will be judged as the target object. The sensitivity can be set in the range of 0-100.
- **Direction:** There are three options: "A <-> B (bidirectional)", "A-> B", "B-> A", which refers to the direction in which an object passes through the warning area to trigger an alarm.
 - ✓ "A<->B (Bidirectional) " Indicates that the alarm is triggered in both directions.

- ✓ "A->B" indicates that the object will trigger an alarm when it crosses from A to B.
- ✓ "B->A" indicates that the object will trigger an alarm when it crosses from B to A.

3. Click " Draw A Line", move the mouse to the preview screen and click the left mouse button in sequence to draw the two endpoints of the warning line.



● You can modify the drawn warning line through the " Clear All" and " Draw A Line" button.

Step 4: Click "Processing Method", set alarm linkage as required (Buzzer Alarm, E-mail Notification, Channel Recording and Trigger Alarm Output), as shown in Figure 5-68 ② below.

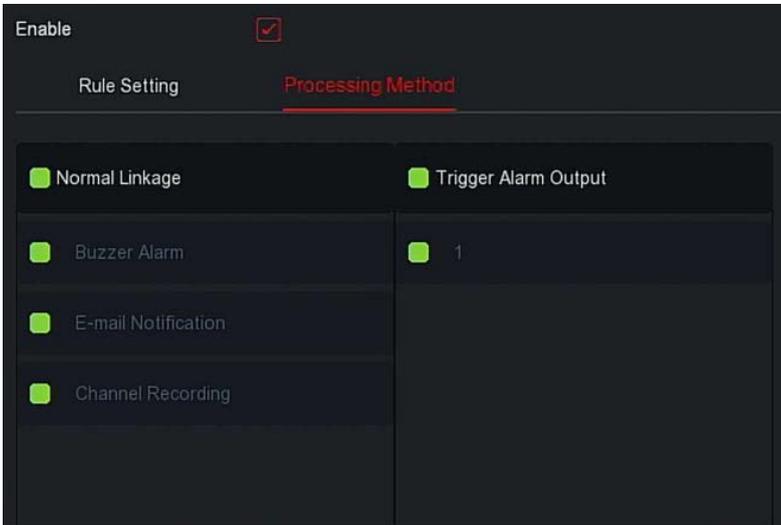


Figure 5-68 ②

Step 5: Click "Apply" to save the setting.

❖ Regional Intrusion

The regional intrusion function can detect whether an object in the video enters the set area, and conduct a linkage alarm based on the judgment result.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Smart Event" to enter Smart Event setting interface.

Step 2: Choose the channel you need to set the regional intrusion, click "Regional Intrusion" to enter regional intrusion setting mode, as shown in Figure 5-69 ① below.

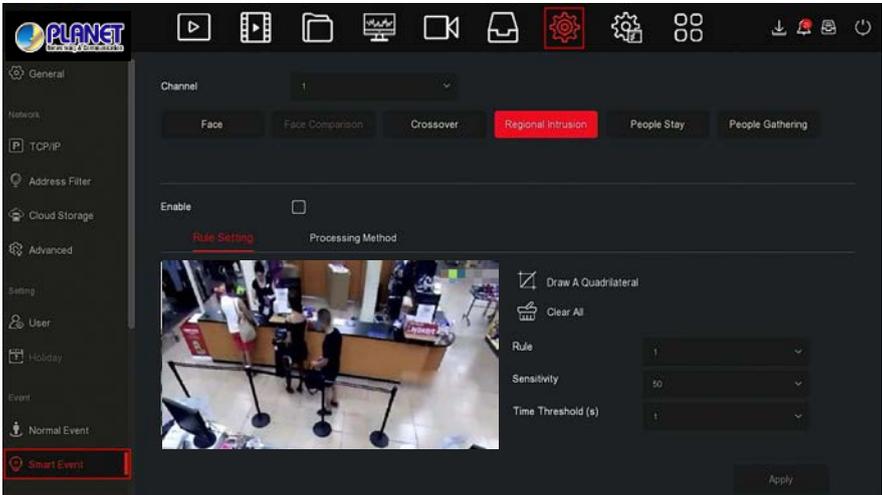


Figure 5-69 ①

Step 3: Click "Enable→Rule Setting", to set the rule of regional intrusion, the specific steps are shown below:

1. In the "Rules" drop-down list, select any rule as you need.



- Regional intrusion can set 4 rules; you can choose any rule.

2. Set the Time Threshold (Seconds) and sensitivity of the rule.
 - **Sensitivity:** It is used to set the size of the control target object. The higher the sensitivity, the easier the object is judged to be the target object. The lower the sensitivity, the larger the object will be judged as the target object. The sensitivity can be set in the range of 0-100.
 - **Time Threshold (s):** An alarm is generated after the target enters the warning zone for a continuous dwell time. If the time threshold is set to 5 seconds, the target intrusion zone is triggered for 5 seconds. The range is 1-10 (seconds).
3. Click " Draw A Quadrilateral", move the mouse to the preview screen and click the left mouse button in sequence to draw the endpoints of the quadrilateral warning zone to complete the zone drawing.

 Note	<ul style="list-style-type: none">● You can modify the drawn warning line through " Clear All" and " Draw A Quadrilateral" buttons
--	--

Step 4: Click "Processing Method", set alarm linkage as required (Buzzer, E-mail Notification, Channel Recording) and Trigger Alarm Output, as shown in Figure 5-69 ② below.

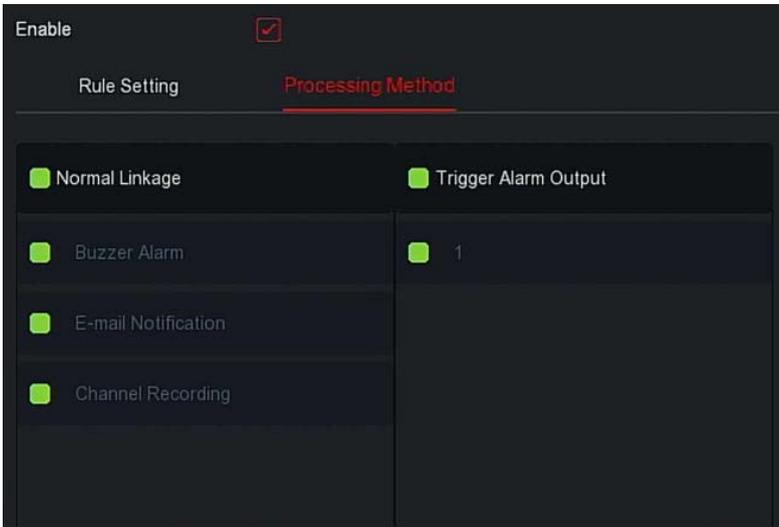


Figure 5-69 ②

Step 5: Click "Apply" to save the setting.

■ People Stay

The loitering function can detect the stay time of the target in the set area. When the stay time exceeds the set time threshold, an alarm linkage will be triggered

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Smart Event" to enter Smart Event setting interface.

Step 2: Choose the channel you need to set the loitering, click "People Stay" to enter loitering setting mode, as shown in Figure 5-70 ① below.

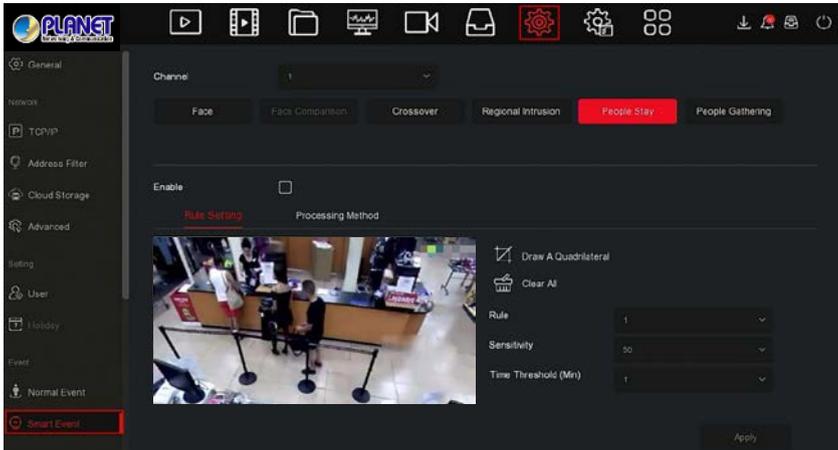


Figure 5-70 ①

Step 3: Click "Enable→Rule Setting", to set the rule of loitering, the specific steps are shown as below:

1. In the "Rules" drop-down list, select any rule as you need.



Note

- Loitering can set 4 rules; you can choose any rule.

2. Set the Time Threshold (Seconds) and sensitivity of the rule.

- **Sensitivity:** It is used to set the size of the control target object. The higher the sensitivity, the easier the object is judged to be the target object. The lower the sensitivity, the larger the object will be judged as the target object. The sensitivity can be set in the range of 0-100.
- **Time Threshold (Min):** An alarm is generated after the target enters the warning zone for a continuous dwell time. If the time threshold is set to 5 seconds, the target intrusion zone is triggered for 5 seconds. The range is 1-10 (seconds).

- Click " Draw A Quadrilateral", move the mouse to the preview screen and click the left mouse button in sequence to draw the endpoints of the quadrilateral warning zone to complete the zone drawing.


Note

- You can modify the drawn warning line through " Clear All" and " Draw A Quadrilateral" buttons

Step 4: Click "Processing Method", set alarm linkage (Buzzer, E-mail Notification, Channel Recording) and Trigger Alarm Output as required, as shown in Figure 5-70 ② below.

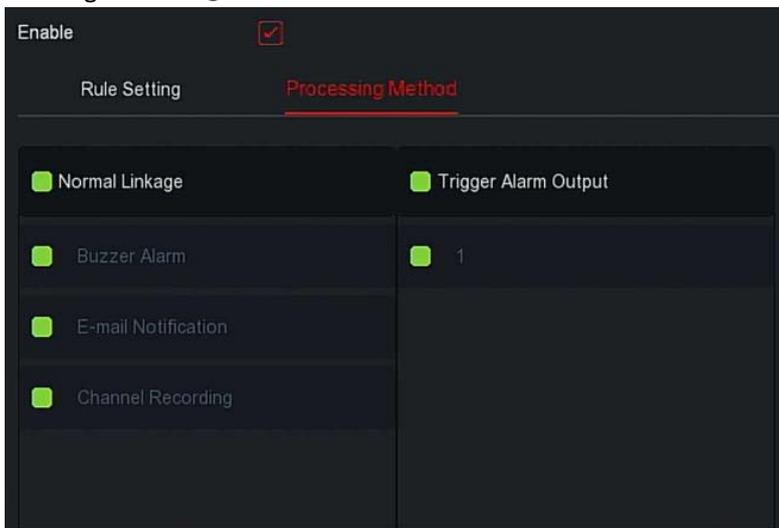


Figure 5-70 ②

Step 5: Click "Apply" to save the setting.

■ People Gathering

The people gathering function can detect the density of the human body in the set area, if it exceeds the set threshold, it will trigger an alarm linkage

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Smart Event" to enter Smart Event setting interface.

Step 2: Choose the channel you need to set the people gathering, click " people gathering " to enter people gathering setting mode, as shown in Figure 5-71 ① below.

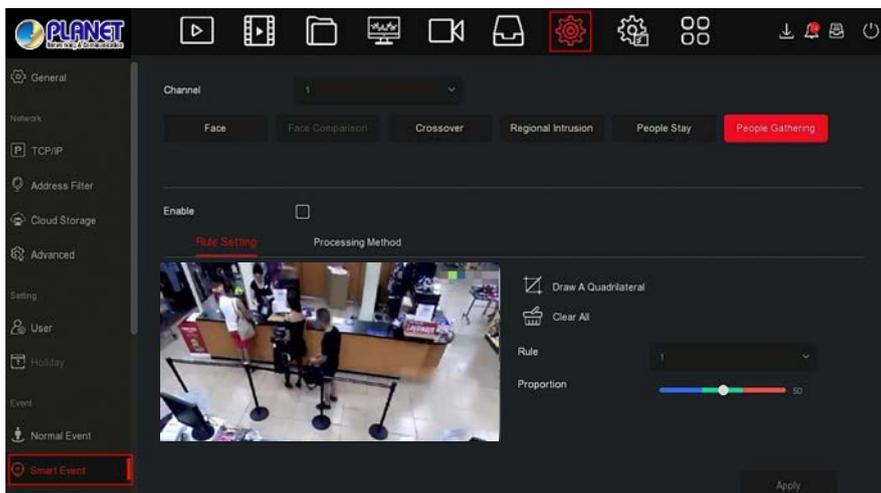


Figure 5-71 ①

Step 3: Click "Enable→Rule Setting",, to set the rule of people gathering, the specific steps are shown as below:

1. In the "Rules" drop-down list, select any rule as you need.



- People gathering can set 4 rules; you can choose any rule.

2. Set the proportion of rules.

- **Proportion:** Represents the proportion of personnel in the entire warning area, when the proportion of personnel exceeds the set proportion value, the system alarm is triggered, otherwise the system does not alarm.
- 3. click " Draw A Quadrilateral", move the mouse to the preview screen and click the left mouse button in sequence to draw the endpoints of the quadrilateral warning zone to complete the zone drawing.

 Note	<ul style="list-style-type: none">● You can modify the drawn warning line through " Clear All" and " Draw A Quadrilateral" buttons
---	--

Step 4: Click "Processing Method", set alarm linkage as required (Buzzer, E-mail Notification, Channel Recording) and Trigger Alarm Output, as shown in Figure 5-71 ② below.

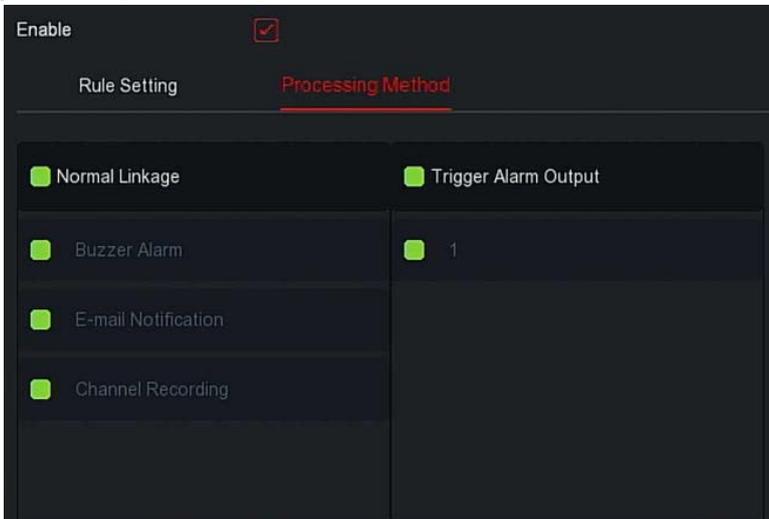
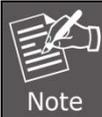


Figure 5-71 ②

Step 5: Click "Apply" to save the setting.



- When the device supports an external alarm device, the alarm processing method can trigger the alarm output.

5.3.7.5 Live View

The Live View is composed of Display and View.

■ Display

Display output is used to set the display effect of the device preview interface, including resolution, UI Transparency, Show OSD Time and Show After Boot.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Display" to enter display setting interface, as shown in Figure 5-72 below.

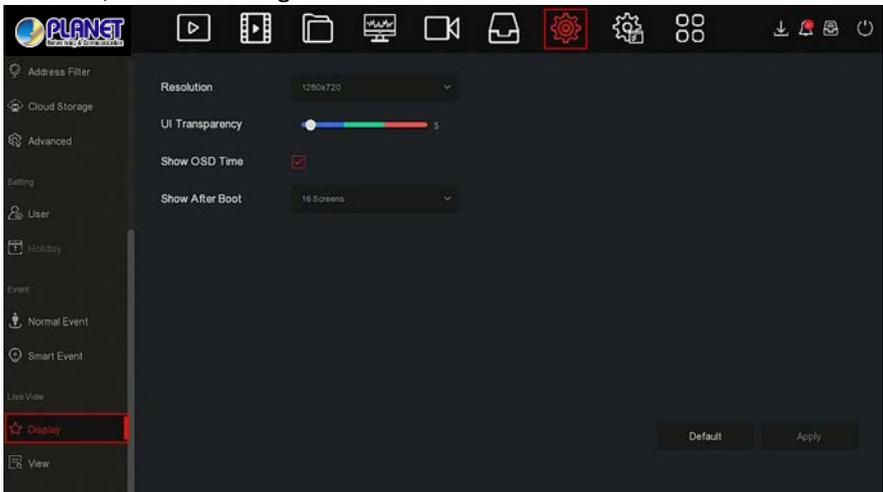


Figure 5-72

Step 2: Set the Configure resolution, transparency and other related parameters.

Step 3: Click "Apply" to save the setting.

- **Resolution:** The selectable values are 1024 x 768, 1280 x 720, 1280 x 1024, 1920 x 1080. The 4K NVR HD interface supports up to 4K resolution output.
- **Sub screen Resolution:** Set the sub screen preview resolution. The selectable values are 1280×720, 1280×1024, and 1920×1080.
- **UI Transparency:** The higher the percentage, the more transparent device local menu.
- **Show OSD Time:** Turns on / off the device time information displayed on the monitor screen.
- **Show After Boot:** Select (Main Screen) to display the screen split screen number.
- **Show After Boot (Sub):** Select the sub-screen boot display screen split screen number.



- After the configuration resolution is saved, restart the device to configure it successfully.
- Only systems that support dual screens have the ability to sub screen Resolutions and Show after boot (Sub) configurations.

■ View

Some devices support simultaneous access to multiple monitors, and the local interface of the device can be displayed on multiple monitors at the same time.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →View" to enter the view setting interface, as shown in Figure 5-73 below.

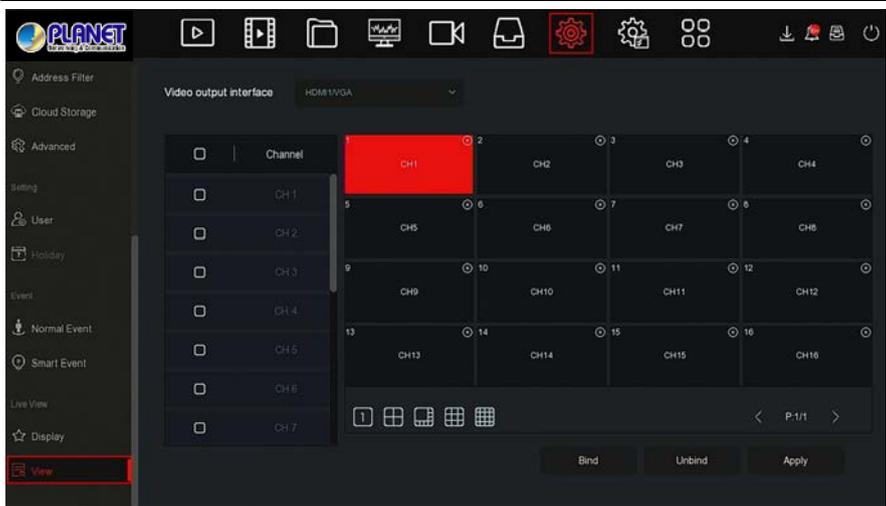


Figure 5-73

Step 2: Select video output interface, channel and picture split icon.

Step 3: Click "Bind→Apply", save the setting.

- **Video Output Interface:** NVR external monitor port.
- **Channel:** Channel. Show all channels of the NVR for user configuration.
- **Picture Segmentation:** According to the number of roads supported by the NVR, there are generally single screen, 4 screens, 6 screens, 8 screens, 9 screens, 16 screens, and 36 screens.
- **Bind:** Once clicked, the existing configuration can be bound to the device video output port.
- **Unbind:** Click to unbind the bound video output port.



- The number of monitors that can be accessed by different devices is different, and the number of screen splits will be different. Please refer to the actual one.

5.3.8 Maintenance

The Maintenance is composed of System Information, Upgrade, Network, System Service, HDD Operation and Network Information, as shown in Figure 5-74 below.

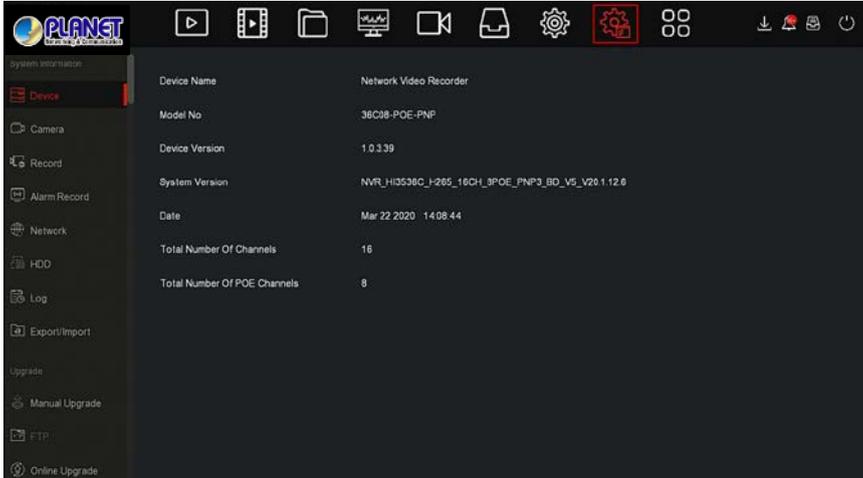


Figure 5-74

5.3.8.1 System Information

■ Device

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Device" to enter device interface, as shown in Figure 5-75 below.

Device Name	Network Video Recorder
Model No	36C08-POE-PNP
Device Version	1.0.3.39
System Version	NVR_HI3536C_H265_16CH_8POE_PNP3_BD_V5_V20.1.12.6
Date	Mar 22 2020 14:08:44
Total Number Of Channels	16
Total Number Of POE Channels	8

Figure 5-75

Step 2: View NVR Model No., Device Version, System Version, release date and other information.

■ Camera

The specific operation steps are as follows:

Step 1: In the main menu, choose " → Camera" to enter camera interface, as shown in Figure 5-76 below.

CH	Channel name	Status	Motion Detection	Video Loss
1	IPCamera 1	Connected	Not Support	Not Support
2	IPCamera 2	Connected	Support	Not Support
3	IPCamera 3	Connected	Support	Not Support
4	IPCamera 4	Connected	Support	Not Support
5	IPCamera 5	Connected	Support	Not Support
6	IPCamera 6	Connected	Support	Not Support
7	IPCamera 7	Disconnected	Support	Not Support
8	IPCamera 8	Connected	Support	Not Support
9	IPCamera 9	Connected	Not Support	Not Support

Figure 5-76

Step 2: View the status information of NVR channels.

■ **Record**

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Record" to enter record interface, as shown in Figure 5-77 below.

CH	Record Status	Stream Type	Bitrate(Mbps)	Record Type	Disk No.
1	Open	Composite Stream	2.31	Record	1
2	Open	Video Stream	0.29	Record	1
3	Open	Video Stream	0.25	Record	1
4	Open	Video Stream	3.51	Record	1
5	Open	Video Stream	3.25	Record	1
6	Open	Video Stream	0.24	Record	1
7	Close	Video Stream	0.00	-	1
8	Open	Composite Stream	3.12	Record	1
9	Open	Video Stream	3.30	Record	1

Figure 5-77

Step 2: View the recording status and encoding parameters of each NVR channel.

■ **Alarm Record**

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Alarm Record" to enter alarm record interface, as shown in Figure 5-78 below.

Alarm Input No.	Alarm Name	Alarm Type	Alarm Status	Trigger Record Channel
1	alarm_in1	N.O	Close	
2	alarm_in2	N.O	Close	
3	alarm_in3	N.O	Close	
4	alarm_in4	N.O	Close	

Figure 5-78

Step 2: View the alarm input status and linkage information of each channel of NVR.

■ **Network**

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Network" to enter network interface, as shown in Figure 5-79 below.

NIC	LAN1
IP Address	172.18.195.251
Network Mask	255.255.248.0
Gateway	172.18.192.1
Primary DNS	172.18.192.1
Secondary DNS	8.8.8.8
MAC Address	54.32.07.69.1C.5B
Enable DHCP	Disable
PPPoE Address	
PPPoE Subnet Mask	

Figure 5-79

Step 2: Check the network connection and configuration of the NVR.

■ **HDD**

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → HDD " to enter HDD interface, as shown in Figure 5-80 below.

No.	State	Total Capacity	Residual Capacity	Device Type
1	In Use	976.762 GB	3.906 GB	SATA

Total Capacity:	976.762 GB
Remain Capacity:	3.906 GB

Figure 5-80

Step 2: View the status and attribute information of the hard disk connected to the device.

■ Log

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Log" to enter log interface, as shown in Figure 5-81 below.

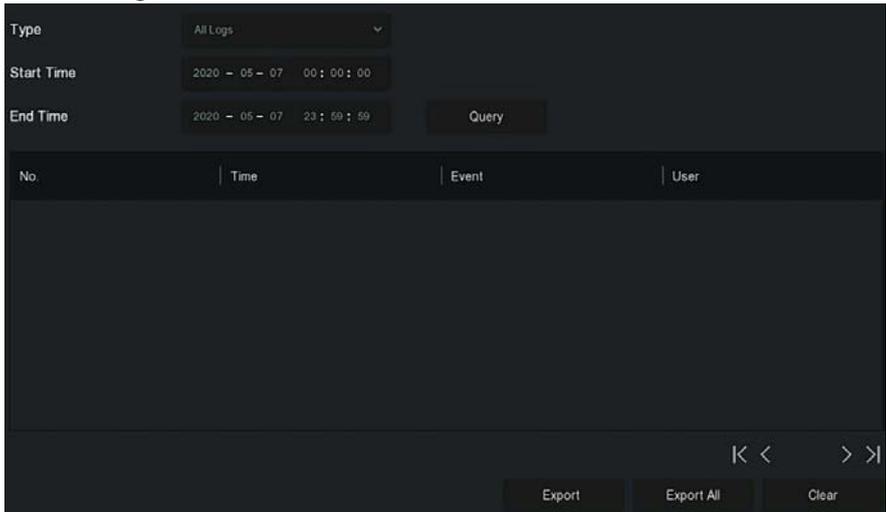


Figure 5-81

Step 2: Set search criteria (Type, time range).

Step 3: Click "Query" to check the log.

Step 4: Export the log, insert U disk into NVR, click "Export", and wait for the export progress to complete; you can export the searched logs to a USB flash drive.

- **Type:** Select the type of log to find.
- **Start/ End Time:** Enter the time range of the log to find.
- **Export:** Export the searched log information and store it on the U disk of the connected device.
- **Export All:** Export and store all log information on the U disk connected to the device.

- **Query:** Search logs by setting search criteria and display them in the log list.
- **Prev Page /Next Page:** Page turning function, when there are many logs in the query period, click to view other log information.
- **Clear:** Clear all the information for the log.

■ **Export/Import**

If multiple devices need to adopt the same configuration, one device can be configured first, and the configuration file of the device can be "exported" and backed up, and then through the "import" operation, the configuration can be applied to other devices to save more Configure the time.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Export/Import" to enter export/import interface, as shown in Figure 5-82 below.

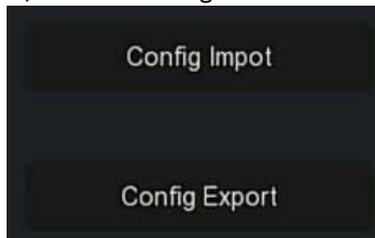


Figure 5-82

Step 2: Export/ import the configuration files.

- ✓ **Config Export:** Insert U disk into NVR, click "Config Export" and wait for the export progress to complete, click "Confirm".
- ✓ **Config Import:** Insert the U disk that stores the configuration file into the NVR, click "Config Import → Confirm" and wait for the import progress to complete, the device will restart.

5.3.8.2 Upgrade

■ Manual Upgrade

Insert the USB device with the upgrade file into the NVR to upgrade the version of the NVR. If the device detects the upgrade file in the U disk, the information about the upgrade package (serial number, name, size, date) will be displayed in the list.

The specific operation steps are as follows:

Step 1: Insert the USB device with the upgrade file (named xx_BD_V5_update_Vx.x.x.x.bin) into the NVR.

Step 2: In the main menu, choose "  →Manual Upgrade" to enter manual upgrade interface, as shown in Figure 5-83 below.

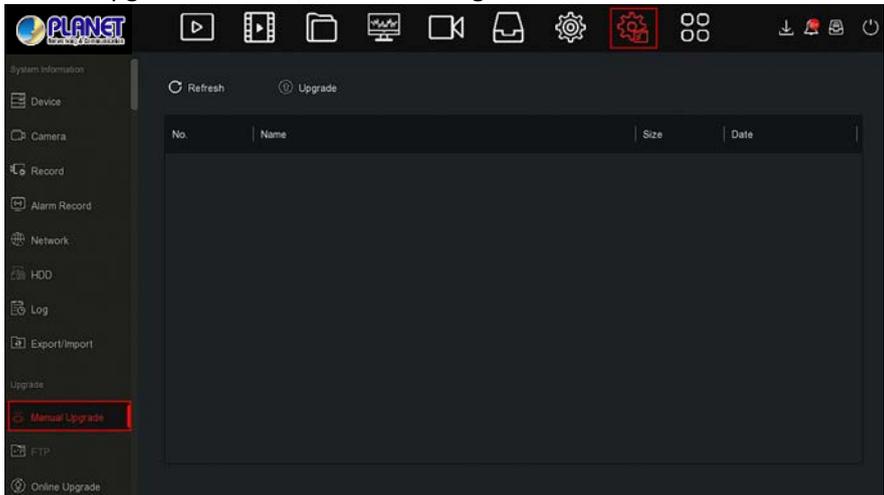


Figure 5-83

Step 3: Click "  Refresh", choose the upgrade file, click "  Upgrade→Confirm", wait for the interface to finish the progress bar, and the device will automatically restart to complete the upgrade.



Note

- After several attempts to refresh, the device still cannot detect the upgrade package. Please check whether the USB disk is in good contact with the USB interface of the device, and the upgrade file name is correct.
- During the upgrade process, do not disconnect the power supply or unplug the USB drive. The system will automatically restart after the upgrade is completed. This process takes about 1-6 minutes. It is recommended to restore the factory settings after the upgrade is completed before using the NVR.

❖ Manual Online Upgrade

The specific operation steps are as follows:

Step 1: In the main menu, choose " → Online Upgrade" to enter manual online upgrade interface.

Step 2: Click "Check", a prompt interface pops up, if a new version is detected, the system will prompt information about the new version.

Step 3: Click "Update" and wait for the device to download the upgraded file. After the device is upgraded, the device will automatically restart.

- **Status:** The current version of device.
- **Auto update:** Click "" to enable the system automatic upgrade function. When the device detects the new online version, it will automatically upgrade according to the set upgrade time.
- **Update time:** Set the automatic update time.
- **Check:** Detect the latest online version.



Note

- Before testing a new online version, make sure that the NVR is properly connected to the network.
- During the upgrading process, please do not cut off the power or take off your U disk. After the upgrading, your system will restart automatically. (This process will take about 1 to 6 minutes.) Here, we advise you to restore factory settings after the upgrading.

■ Default

When the NVR device runs slowly or the configuration is wrong, you can try to solve the problem by restoring the default.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →Default" to enter default interface, as shown in Figure 5-85 below.

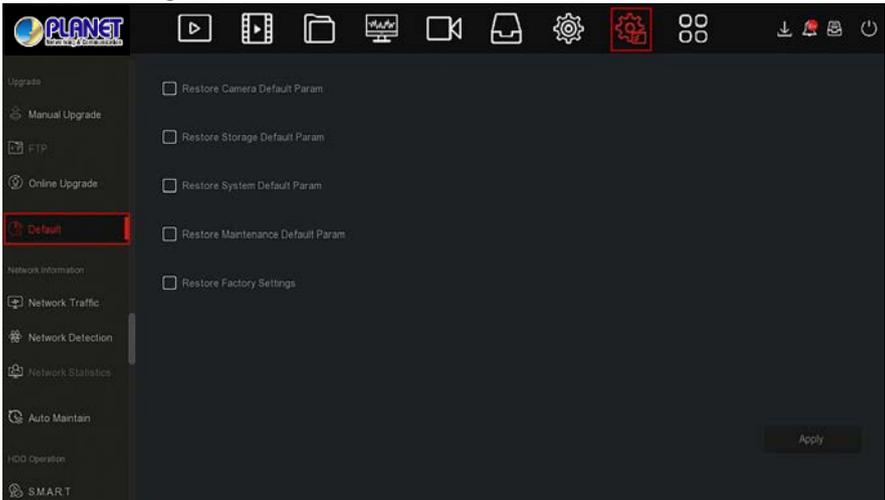


Figure 5-85

Step 2: Select the configuration items that need to be restored to factory settings.

Step 3: Click "Apply→OK".

- **Restore Storage Default Param:** Select / Cancel to restore all storage configuration parameters to default values.
- **Restore Camera Default Param:** Select / Cancel to restore all cameras configuration parameters to default values.
- **Restore System Default Param:** Select / Cancel to restore all system configuration parameters to default values.
- **Restore Maintenance Default Param:** Select / Cancel Resume Maintenance all interface configuration parameters to the default values.

- **Restore Factory Settings:** Select / Cancel all NVR configuration parameters to the default.



- After restoring the factory settings, the corresponding functions will be restored to the factory settings. The user's existing configuration may be lost. Please proceed with CAUTION.

5.3.8.3 Network Information

■ Network Traffic

Network traffic refers to the data traffic used by video files in a unit of time. Through network traffic monitoring, you can view the real-time code stream and code stream waveform changes of each channel in real time.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Network Traffic" to enter network traffic interface, as shown in Figure 5-86 below.

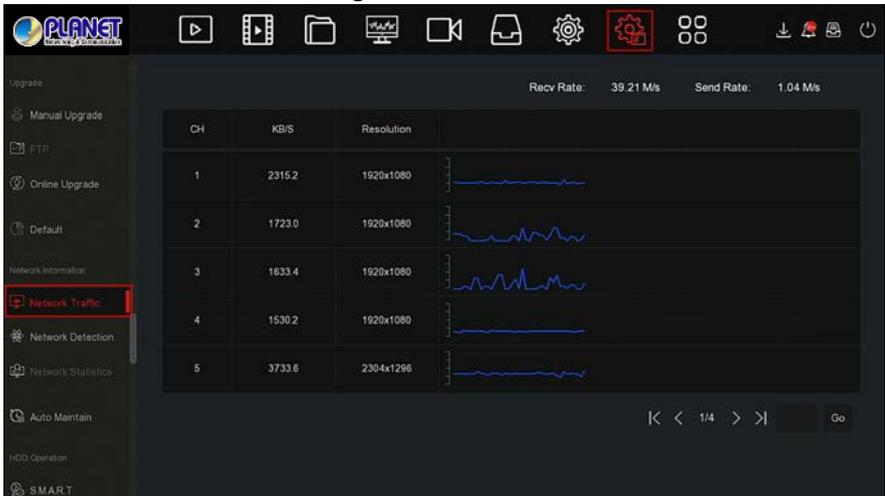


Figure 5-86

Step 2: View the network traffic of each channel in real time.

■ Network Detection

Network Detection is to test the network delay and packet loss.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Network Detection" to enter network detection interface, as shown in Figure 5-87 below.

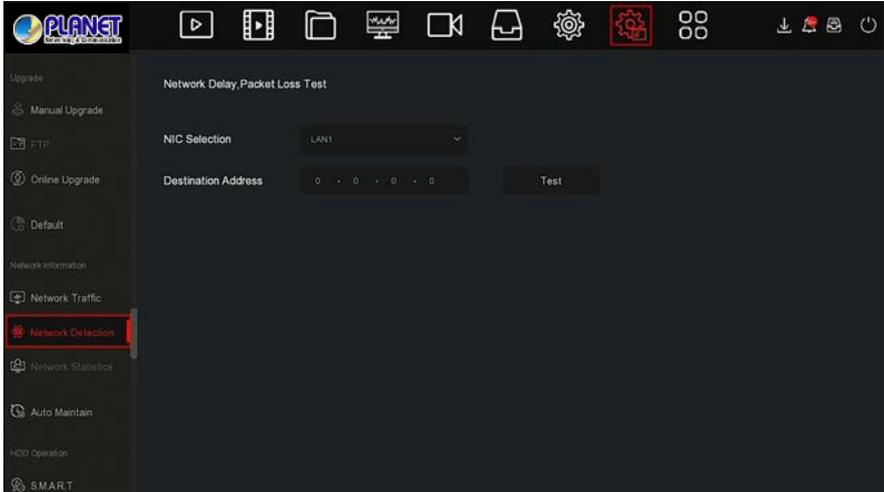


Figure 5-87

Step 2: Select the NIC, enter the test address in the destination address bar.

Step 3: Click "Test", to do the Network Delay and Packet Loss test, after test the system will display the test results, including packet loss rate and average delay.

■ Network Statistics

Coming soon!

■ Auto Maintain

When the device runs for a long time, you can set the device to restart within an idle time to increase the device's running speed.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  → Auto Maintain" to enter auto maintain interface, as shown in Figure 5-88 below.

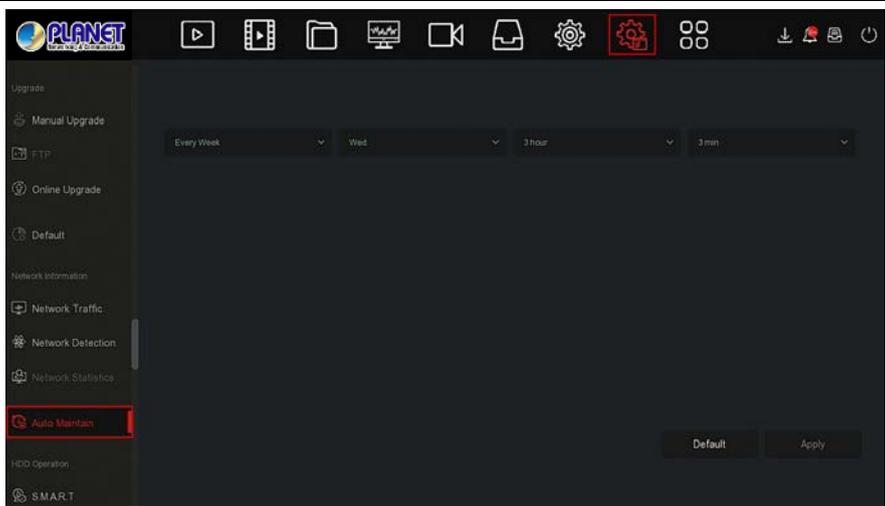


Figure 5-88

Step 2: Select the time for "Auto Maintain".

Step 3: Click "Apply" to save the setting.

 <p>Note</p>	<ul style="list-style-type: none">● Automatic restart the system can be in accordance with the cycle at a fixed time (Every Month, Every Week, Every Day); set to restart the device and you can also choose "Never"; equipment is not automatically maintained.
---	--

5.3.8.4 HDD Operation

■ S.M.A.R.T

S.M.A.R.T is used to monitor the temperature of the hard disk, the surface material of the disk, the motor and its drive system, and analyze and predict the possible problems of the hard disk.

The specific operation steps are as follows:

Step 1: In the main menu, choose "  →S.M.A.R.T" to enter S.M.A.R.T interface, as shown in Figure 5-89 below.

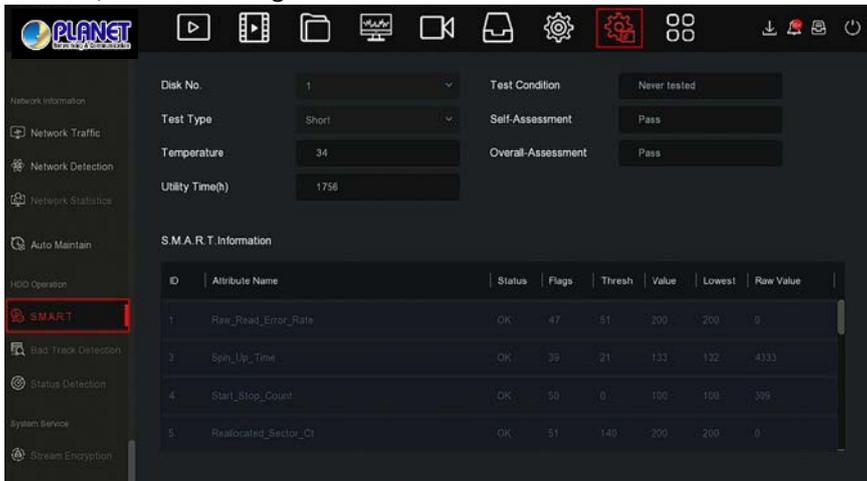


Figure 5-89

Step 2: Select the hard disk to be tested and set "Self-Test Type".

Step 3: The device starts to detect the hard disk.

Step 4: After the hard disk is detected, the hard disk details will be displayed in the S.M.A.R.T. information list.

➤ S.M.A.R.T Configuration:

- ✓ Disk No: Pull down to select the drive number.
- ✓ Test condition: Shows whether the hard disk has been detected.
- ✓ Test type: Short and extended.
- ✓ Temperature: Display hard disk temperature.
- ✓ Utility time (h): Shows how long the hard disk is used (hours).
- ✓ Self-assessment: Show whether the hard disk is passed.

- ✓ Overall-assessment: Show whether the whole hard disk through.
- **S.M.A.R.T information:** Display the hard disk information.
- **Self test:** Click "Self test" to detect the hard disk information.


 Note

- Only some devices support hard disk detection. Please refer to the actual situation.
- When the self-assessment or overall evaluation results are "not passed", the hard disk must be replaced to avoid data loss.
- Through the S.M.A.R.T. self-test function, the user can use the S.M.A.R.T. command to perform a self-test on the hard disk to detect the overall status of the hard disk.

5.3.9 Alarm Information

The specific operation steps are as follows:

Step 1: In the main menu, choose " " to enter Alarm Information interface, as shown in Figure 5-90 below.

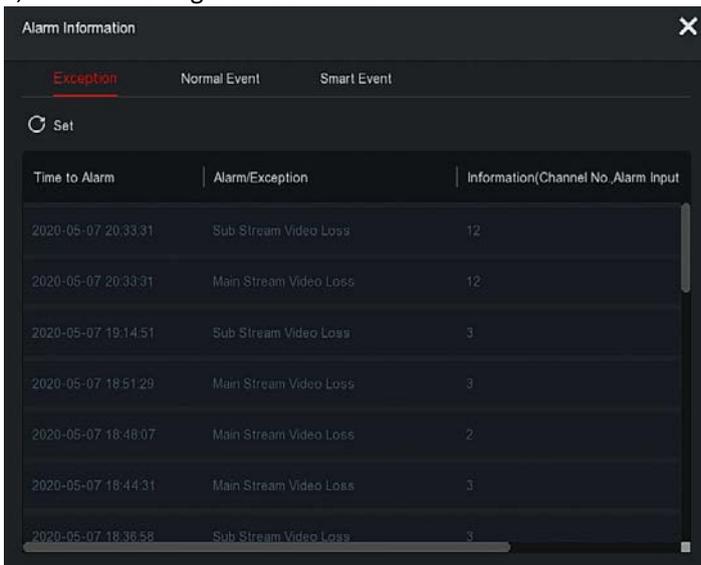


Figure 5-90

Step 2: View abnormal information and various alarms of the device.

Step 3: Click " Set" to enter "Event Hint Setting" interface, abnormal event information and various alarms displayed on the interface, as shown in Figure 5-91 below.

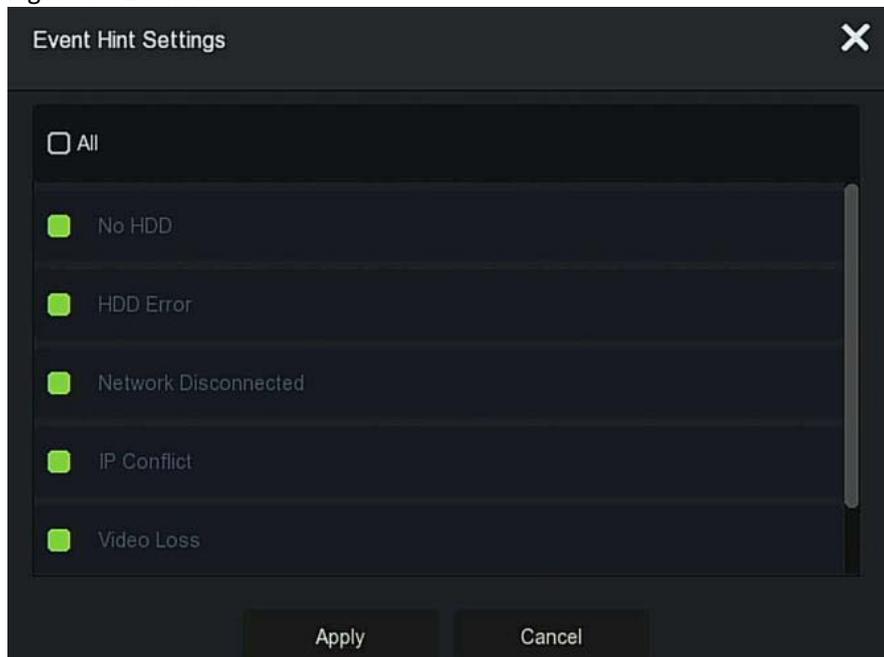


Figure 5-91

Step 4: Click "Apply" to save the setting.

5.3.10 Backup Process

In the main menu, click " " to enter the backup process interface, during file backup, you can view the backup progress of the file, pause and delete the backup file, as shown in Figure 5-7 below.

The specific operation steps are as follows:

Step 1: In the main menu, click "" to enter the Backup process interface, as shown in Figure 5-92 below.

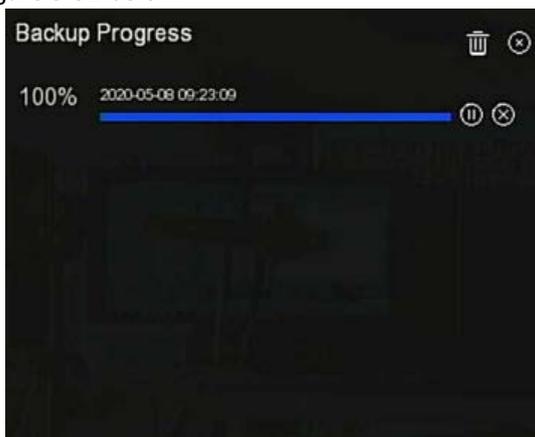


Figure 5-92

Step 2: View the backup progress of the file, pause and delete the backup file.



Note

- The USB disk has been inserted into the device, and the backup file has been selected for backup. And then you can view the backup-related information on the backup progress interface.

5.3.11 Shutdown

The specific operation steps are as follows:

Step 1: In the main menu, click "" to enter the shutdown interface, as shown in Figure 5-93 below.

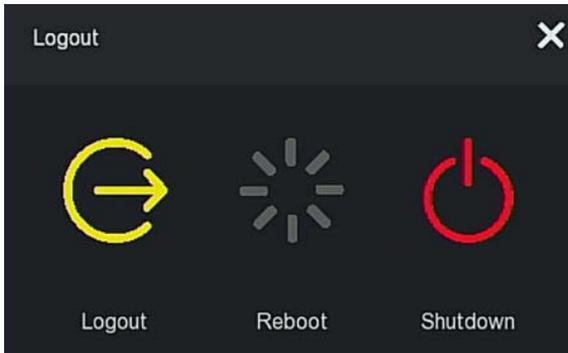


Figure 5-93

Step 2: Do the corresponding operation as needed (Logout, Reboot, Shutdown).

Chapter 6 Web Operation



Note

- Different types of devices have different interface displays. The following pictures are for reference only. Please refer to the actual ones.
- The NVR supports accessing and managing devices on the PC through the Web.
- The Web page provides application modules such as real-time preview, playback, configuration, and logout.
- The device supports a variety of browser monitoring, such as IE browser, 360 browser, Firefox browser (52 or less version), Google Chrome (Chrome45 or less version).
- Users can access the device's Web control interface through multiple PCs at the same time.

6.1 Internet connection

Before using the browser to log in to the web interface, check whether the network between the PC and the NVR is normal.

Step 1: Confirm that the NVR device is properly connected to the network.

Step 2: Set the IP address, subnet mask, and gateway for the PC and NVR devices, respectively.

- ✓ If there is no routing device on the network, allocate the IP address of the same network segment: If there is a routing device on the network, you need to set the corresponding gateway and subnet mask.
- ✓ The default IP address of the NVR device is 192.168.1.88.

Step 3: Check whether the network between the PC and the NVR device is normal. The method is as follows: When the network between the PC and the NVR device is normal, you can log in to the web interface of the NVR through the PC.

- ✓ On the PC, ping***.***.***.*** (NVR IP address) verifies that the network is connected and the returned TTL value is generally equal to 255.
- ✓ Log in to the local interface of the NVR device, and fill in the IP address of the PC on the "Network Test" interface to test whether

the network is connected. For details, see 5.3.7.7 Network Detection.

6.2 Browser Login

To make sure NVR connects to Internet successfully, open Browser, input required IP address, the default setting is 192.168.0.20, and enter the login interface, as below Figure 6-1.



Figure 6-1

Select the system language in the upper right corner of the interface (currently supports Chinese Simplified, Chinese Traditional, English, Polish, Czech, Russian, Thai, Hebrew, Arabic, Bulgarian, German, French, Portuguese, Turkish, Spanish, Italian, Hungarian, Romance, Korean, Dutch, Greek, Vietnamese, and Japanese, the default is English), enter the user name and password, the default user name is "**admin**", the password is "**admin**", click "**Login**" Remote login.

 <p>Note</p>	<ul style="list-style-type: none">● Modify Password: After logging in to the webpage, the system prompts "The current password is too simple, please modify the password!", click "Modify", enter the new password, confirm the password, set the security question, export the key, click "OK", and complete the password modification.● Forgot password: On the Web login interface, click "Forgot", select a verification method such as "Answer the question", select the question set when changing the password, enter the corresponding answer, and
---	---

click "Next" to reset the new password as prompted. Click "Re-login" to return to the login interface.

- If the HTTP port is set to a port other than 80, enter "http: // IP address + :(colon) + port number" in the address bar of your browser, such as "http://192.168.0.20:96"

6.3 Active X download, installation

The browser plug-in needs to be downloaded and installed when logging in to the device for the first time, as shown in Figure 6-2 below, click "Please click here to download the browser plug-in, please close the browser when the download is finished" and install it, and follow the prompts to complete the installation.

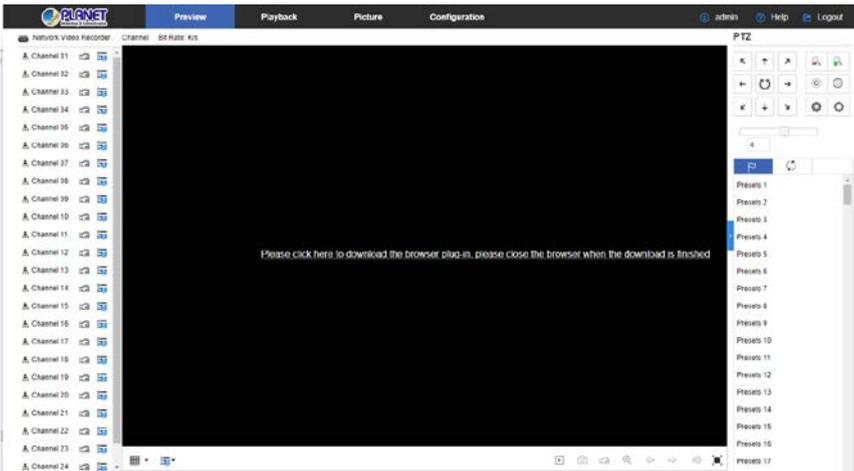
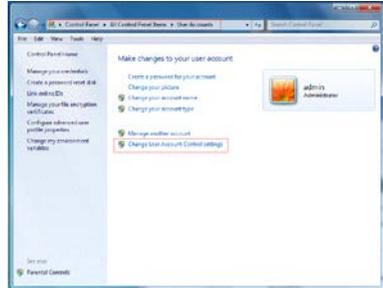
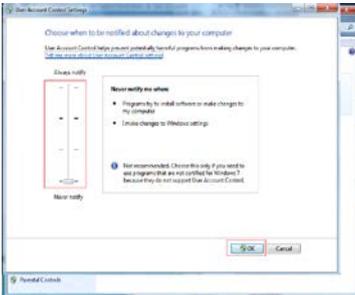


Figure 6-2


Note

- After the NVR upgrades to a new version, you need to delete the original control and download and install the control again.
- With WIN 7 you could have problems for backup and recording; if so, please check the Admin setting, procedure as follows:



WIN7-1 WIN7-2

- The Active X can't be loaded. Please adjust the security level and firewall setting to the lowest, and make some adjustment to IE as well:
 Tool-Internet Option- Custom level-ActiveX- enables all the options below ActiveX and click "OK", the Active X will be downloaded and installed automatically, please refer to the Figure 6-3.

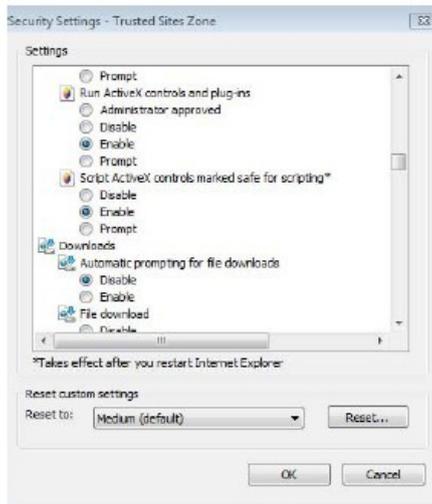


Figure 6-3

6.4 Live View

After login the client successfully, entering live preview interface. The interface as below Figure 6-4:

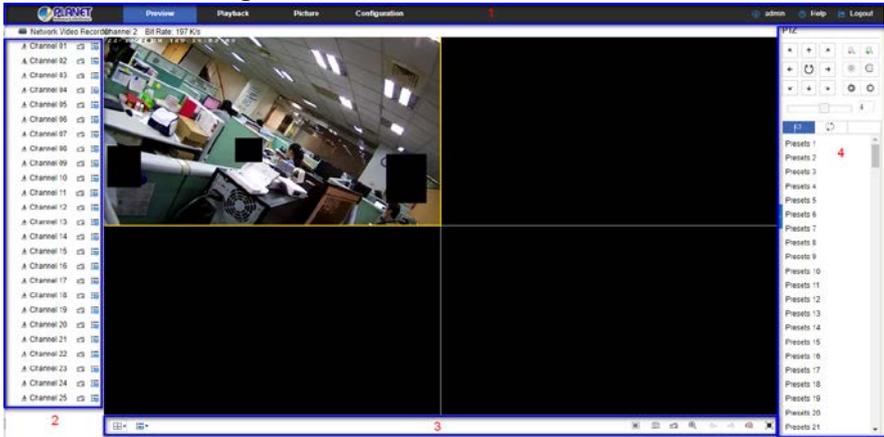


Figure 6-4

- 1. System Menu.** Including Live View, Playback, Picture, Configuration, Help, Logout, and show login user name.
- 2. Real-time Monitoring Channel.** Open/Close Preview, record and stream switching.

Mark	Specification
 Channel 01	Open / close corresponding preview channel.
	Start/stop recording, save video on local computer hard drive.
	Main and sub bit stream switching

Table 6-1

3. Preview channel shortcut button

Mark	Specification
	<p>Preview window toggle. From left to right are: 1 split screen, 4 split screen, 9 split screen. According to the number of channels supported by the device, the preview window will be different. Please refer to the actual situation.</p>
	<p>Switch all preview channel master, sub streams, and open preview</p>
	<p>Open / Close all preview channels.</p>
	<p>Click this icon to take a picture. The default storage path of the picture is C:\Record. You can enter the Configuration → Local Config interface to modify it.</p>
	<p>Click this icon to start recording on all channels; click the icon again to stop recording. The default storage path of the recording is C:\Record. You can enter the Configuration → Local Config interface to modify it.</p>
	<p>Local electronic zoom, click this icon to open the electronic zoom function, select to enlarge the channel, hold down the left mouse button to select the area to be zoomed in, release the left button, and select the area to be enlarged; in the zoom channel, click the right mouse button to restore the original status.</p>
	<p>1 Split screen preview, click to switch channels</p>
	<p>Turn on / off the speaker. If the audio is not turned on, there is no sound when listening.</p>
	<p>Full-screen playback, press the keyboard Esc to exit the full screen.</p>

Table 6-2

4. PTZ setting operation window

Mark	Specification
	PTZ control direction button
	PTZ self-test
	Zoom button
	Focus button
	Aperture control button
	The step size is mainly used for speed control. The larger the value, the faster the rotation speed. For example, the rotational speed of step 7 is much larger than the rotational speed of step 1.
	Preset point setting
	Call presets
	Settings
	Delete settings
	Cruise path setting
	Turn on / off cruise

Table 6-3

6.5 Configuration

6.5.1 Local Config

In the main interface, click "Configuration → Local Config → Local Config" to enter the local configuration interface, as shown in Figure 6-5 below. Here you can set the device video file, capture and clip corresponding to the local computer's save path, click "Browse" to select the path to save, click "Save" to complete the path settings.

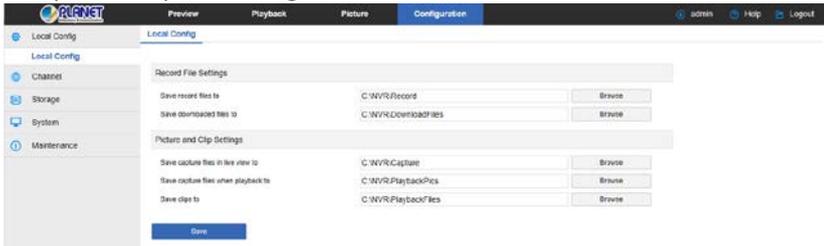


Figure 6-5

6.5.2 Camera

6.5.2.1 Add Camera

■ Add Camera

In the main interface, click "Configuration → Camera → Add Camera" to enter the add camera interface, as shown in Figure 6-6 below. Here you can add, edit, and delete devices to the device as needed. The relevant parameters are consistent with the NVR-side settings.

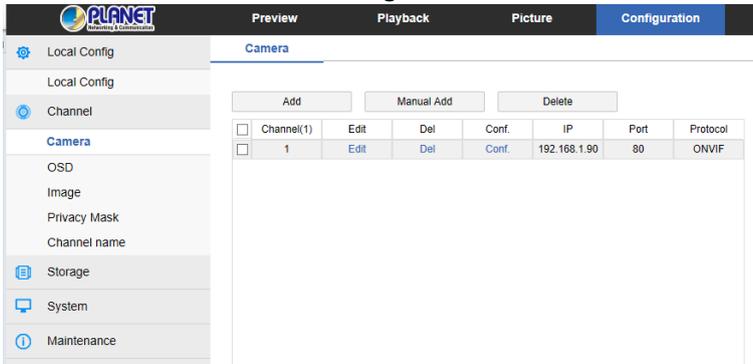


Figure 6-6

■ **PoE Power Configuration (NVR-2516P)**

In the main interface, click "Configuration → Camera →Add Camera →PoE Power Configuration" to enter the PoE Power Configuration interface. Here you can set according to the distance of the network camera connected to the actual PoE channel, and check the connection status of the channel, as shown in Figure 6-7 below.

Add Camera **PoE Power Configuration** PoE Bonding Configuration

Channel	<input type="checkbox"/> Long Distance	<input type="checkbox"/> Short Distance	Channel Status	Actual Power
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Disconnected	0.00w
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Disconnected	0.00w
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Disconnected	0.00w
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Disconnected	0.00w
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Disconnected	0.00w
6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Disconnected	0.00w
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Disconnected	0.00w
8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Disconnected	0.00w



Note:

1. PoE port rated power is 100.0W.

2. The normal power range of each PoE port is 0W-30.0W.

Figure 6-7

■ **PoE Bonding (NVR-2516P)**

In the main interface, click "Configuration → Camera →Add Camera →PoE Binding Configuration" to enter the PoE Power Configuration interface. Here you can set each PoE port to bind with the camera.

Add Camera PoE Power Configuration **PoE Bonding Configuration**

<input type="checkbox"/> Enable	Channel name
<input type="checkbox"/>	IPCamera 1
<input type="checkbox"/>	IPCamera 2
<input type="checkbox"/>	IPCamera 3
<input type="checkbox"/>	IPCamera 4
<input type="checkbox"/>	IPCamera 5
<input type="checkbox"/>	IPCamera 6
<input type="checkbox"/>	IPCamera 7
<input type="checkbox"/>	IPCamera 8

Figure 6-8

6.5.2.2 OSD

In the main interface, click "Configuration → Camera → OSD" to enter the OSD setting interface, as shown in Figure 6-9 below. Here you can view and set the device text, date and other related information, the relevant parameters are consistent with the NVR-side settings.



Figure 6-9

6.5.2.3 Image

In the main interface, click "Configuration → Camera → Image" to enter the Image setting interface, as shown in Figure 6-10 below. Here you can view and set the channel image (brightness, contrast, saturation and sharpness), fill light, exposure, backlight, white balance, video adjustment, image enhancement and defogging, etc. The relevant parameters are consistent with the local settings of the NVR.

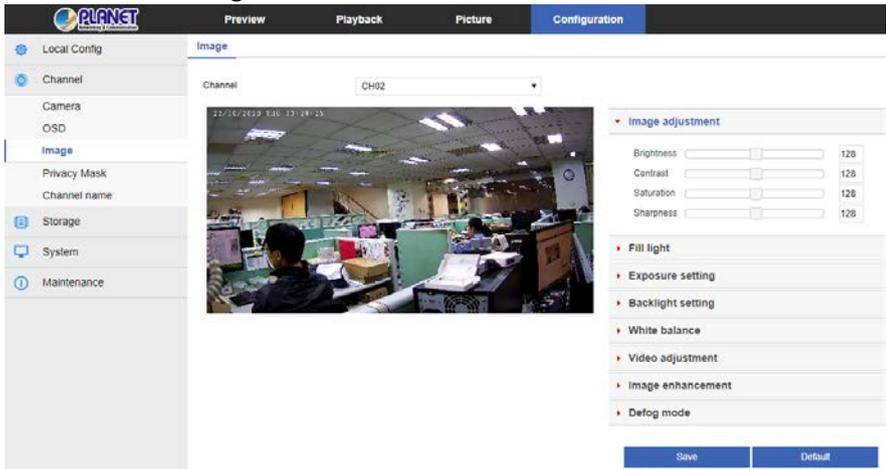


Figure 6-10

6.5.2.4 PTZ Setup (NVR-2516P)

In the main interface, click "Configuration → Channel → PTZ Setup" to enter the video PTZ Setup interface, as shown in Figure 6-11. Here you can view and set the PTZ channel connected to RS485 such as protocol, address, baud rate, etc. of the PTZ channel connected to RS485. All parameters (baud rate, data bit, stop bit, check, protocol, address) should be connected to the cloud. The parameters of the decoders are the same. The relevant parameters are consistent with the NVR-side settings.

PTZ

Channel	CH01	▼
Protocol	PelcoD	▼
Address	0	
Baud Rate	9600	▼
Data Bit	8	▼
Stop Bit	2	▼
Check	EVEN	▼

Save

Figure 6-11



- When setting the protocol, if the connection is a network PTZ, select "Private", and the connection is an RS485 PTZ, select other options.

6.5.2.5 Privacy Mask

In the main interface, click "Configuration →Camera →Privacy Mask" to enter the privacy mask setting interface, as shown in Figure 6-12 below. Here you can set three shielding areas, and the relevant parameters are consistent with the NVR-side settings.

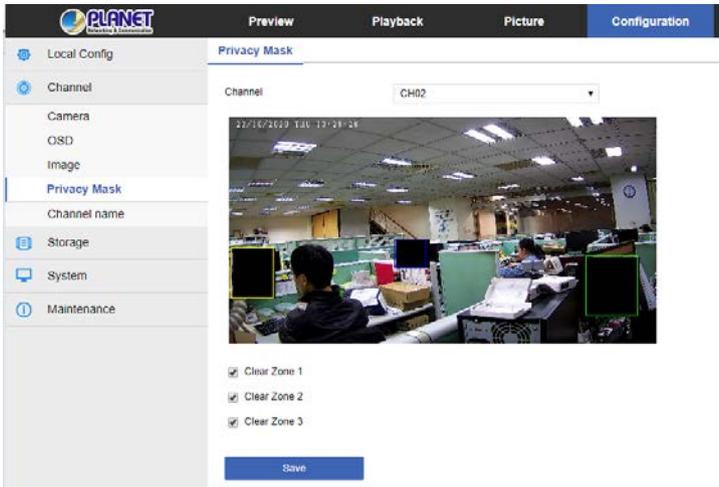


Figure 6-12

6.5.2.6 Channel Name

In the main interface, click "Configuration → Camera → Channel Name" to enter the channel name setting interface, as shown in Figure 6-13 below. Here you can view and modify the names of all channels of the NVR. The relevant parameters and NVR-side settings consistent.

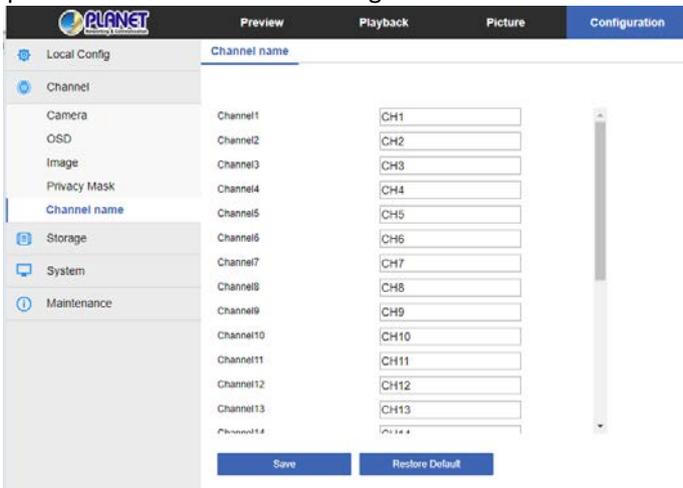


Figure 6-13

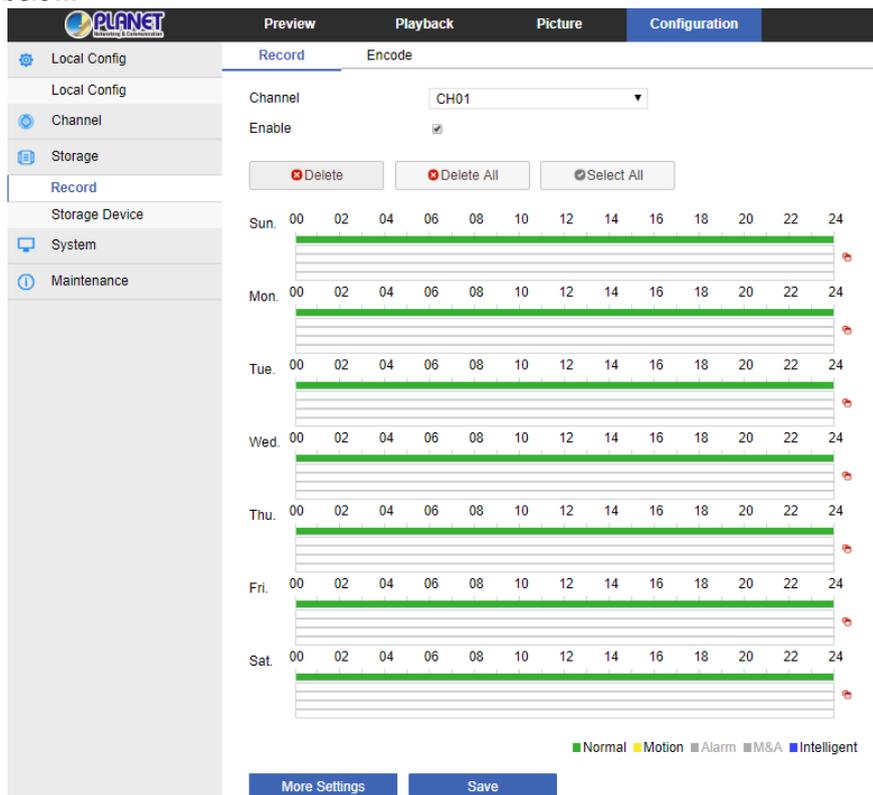
6.5.3 Storage

6.5.3.1 Channel Recording

■ Channel Recording

The video setting steps are as follows:

Step 1: In the main interface, click "Configuration → Storage → Channel Recording" to enter the recording setting interface, as shown in Figure 6-14 below.



The screenshot shows the 'Channel Recording' configuration page. On the left is a navigation menu with options: Local Config, Channel, Storage, Record (selected), Storage Device, System, and Maintenance. The main area has tabs for 'Preview', 'Playback', 'Picture', and 'Configuration'. Under 'Configuration', there are sub-tabs for 'Record' and 'Encode'. The 'Record' sub-tab is active, showing a 'Channel' dropdown menu set to 'CH01' and an 'Enable' checkbox checked. Below these are three buttons: 'Delete' (with a red trash icon), 'Delete All' (with a red trash icon), and 'Select All' (with a grey trash icon). The main part of the page is a recording schedule grid. The grid has columns for days of the week (Sun., Mon., Tue., Wed., Thu., Fri., Sat.) and time slots (00, 02, 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24). Each cell in the grid contains a horizontal bar representing the recording schedule. A legend at the bottom right identifies the recording types: Normal (green), Motion (yellow), Alarm (grey), M&A (dark grey), and Intelligent (blue). At the bottom of the page are two buttons: 'More Settings' and 'Save'.

Figure 6-14

Step 2: Set parameters, see the table below.

Parameter	Description
Channel	Select the channel number for setting the recording, and you can set different recording plans for different channels. If you set the same for all channels, select "All".
Enable	Enable / Disable the current channel recording function.
Del	Delete the selected recording time period.
Delete All	Click to delete all recording settings.
Selected All	Click to set all channels to normal video and motion detection recording from Monday to Sunday.
	Copy to. After setting the video for a certain day, click "  " to apply the settings of that day to other times.
Time period setting	Click one of the set recording time periods, pop up the time period setting, select the recording type, set the time period, and click "Save" to complete the setting. When you click "Del", the selected time period is deleted.
More Settings	Click to enter the pre-record time setting interface, set the prerecord action status 0 seconds to 30 seconds before the recording, click "OK".

Table 6-1

Step 3: Click "Save" to complete configuration.

■ **Encode**

In the main interface, click "Configuration →Record →Encode" to enter the encoding setting interface, as shown in Figure 6-15 below. Here you can view and set the encoding parameter values for accessing the IPC. The relevant parameters and NVR-side settings consistent.

PLANET Networking & Communication		Preview	Playback	Picture	Configuration
Local Config	Record	Encode			
Channel	Channel	CH02			
Storage	Stream Type	Main Stream			
Record	Video Encoding	H265			
Storage Device	Main Stream				
System	Resolution	2560x1440			
Maintenance	Stream Type	Video&Audio			
	Bitrate Type	Variable			
	Bitrate(Kb/S)	2560			
	Bitrate Range(Kbps)	5760-9600			
	Frame Rate	25			
	H264+/H265+				
	H265+	Disable			
	Save				

Figure 6-15

6.5.3.2 Storage Manage

■ HDD

In the main interface, click "Configuration →Storage →Storage Manage" to enter the HDD interface, as shown in Figure 6-16 below. Here you can view the HDD information of the connected device and format the hard disk. The operation steps of formatting the hard disk are consistent with the local settings of the NVR.

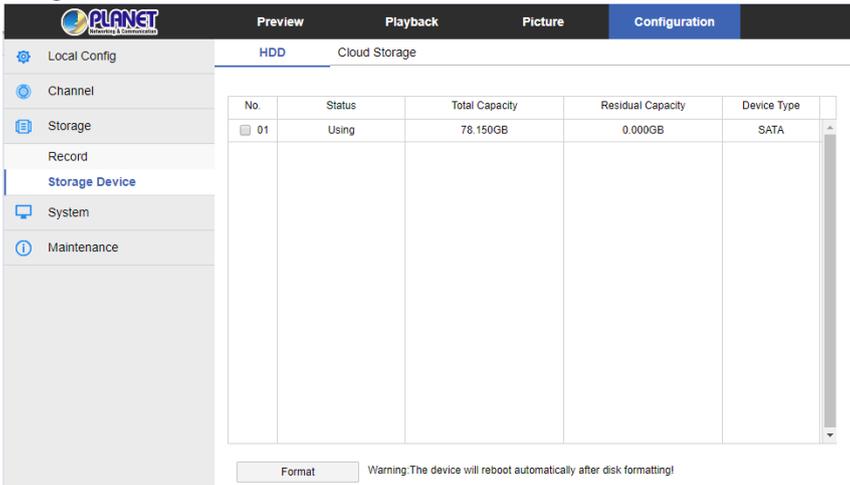


Figure 6-16

■ Cloud Storage

In the main interface, click "Configuration →System →Network →Cloud Storage" to enter Cloud Storage and IPEYE setting interface, as shown in Figure 6-17 below. Here you could enable and set the function of Cloud Storage and IPEYE, the specific setting steps are consistent with the NVR local settings.

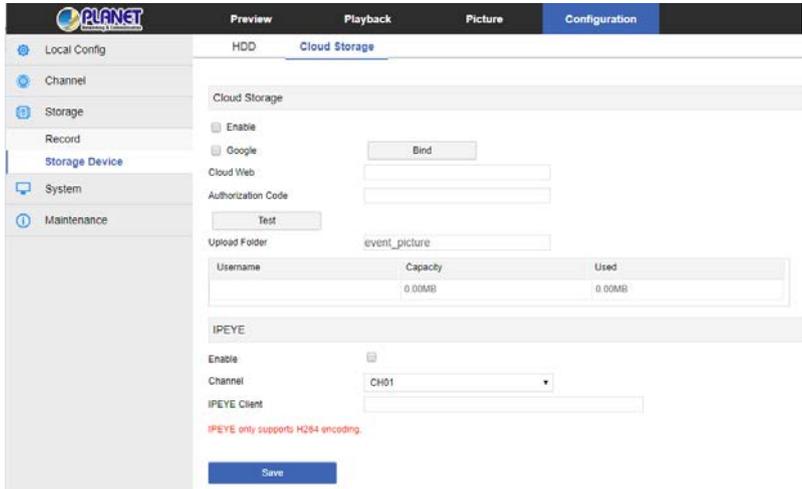


Figure 6-17

6.5.4 System

6.5.4.1 General

■ Device Setting

In the main interface, click "Configuration → System → General" to enter the device setting interface, as shown in Figure 6-18 below. Here you could view and check the language, record mode, record days, video standard, resolution and other information, click "Save" to complete the setting.

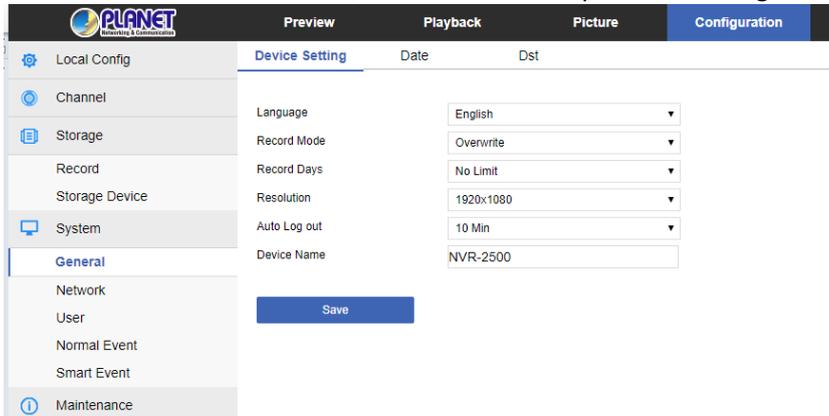


Figure 6-18

■ Date

Set the system date of the device, and manually set the system time, synchronize with the computer, or set the system date using the Network Time Protocol (NTP) function as required.

Set the system date as follows:

Step 1: In the main interface, click "Configuration →System →General →Date" to enter the date setting interface, as shown in Figure 6-19 below.

Step 2: Select the setting date type, there are the following three ways.

- ✓ Enable "Set Date/Time Manually", select the date and time manually, click "Save", the system will automatically synchronize with the manually set time.
- ✓ Enable "Synchronize with the computer", click "Save"; the system automatically synchronizes the time to the computer that logs into the Web page.
- ✓ Enable "receive Date/Time from NTP", select the NTP server (or select a custom server, enter the custom server domain name), select the time zone where the device is located, enter the NTP port, set the NTP update interval, date format, date separator, time format, click "Save", system time and NTP server time will be synchronized.

- ✓ Turn on the Set Date/Time Manually; manually select the date and time, click "Save", the system automatically synchronizes with the manual setting time.
- ✓ Turn on synchronize with the computer, click "Save", the system automatically synchronizes the time to the computer that logs in to the WEB page.
- ✓ Turn on the Receive date/time from NTP, select NTP server (or select custom server, enter custom server domain name), select the device's time zone, enter NTP port, set NTP interval, date format, date separator, time format, single Click "Save" to synchronize the system time with the NTP server time.

The date setting parameters are described in the following table:

Parameter	Description
NTP Server	Select the server domain name where the NTP service is installed.
Custom NTP server	When the NTP server selects "Custom", enter the NTP server domain name.
NTP Port	Enter NTP server port.
Date Format	Set the date display format for NVR devices, including Year Month Day, Month Day Year, Day Month Year, Day Month Year.
Time Format	Set the time format of NVR devices, including 24-hour and 12-hour.
Date Separator	Set the separator between year, month, and day.
Time Zone	Set the time zone of the NVR device.
Channel Check Time	Select the NVR channel.

Table 6-2

Set the channel check time as follows:

Step 1: In the main interface, click "Configuration → System → General → Date" to enter the date setting interface, as shown in Figure 6-19 below.

Step 2: Select the channel you want to use, or select "All" and click "Save" to complete the configuration.

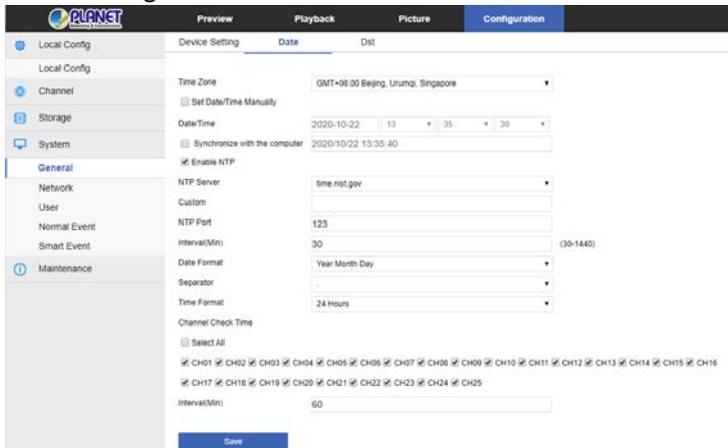


Figure 6-19

■ **Dst**

Set the Dst as follows:

Step 1: In the main interface, click "Configuration → System → General → Dst" to enter the Dst setting interface, as shown in Figure 6-20 below.

Step 2: Turn on daylight-saving time, set the type, start time, end time, and offset.

Step 3: Click "Save" to complete the configuration.

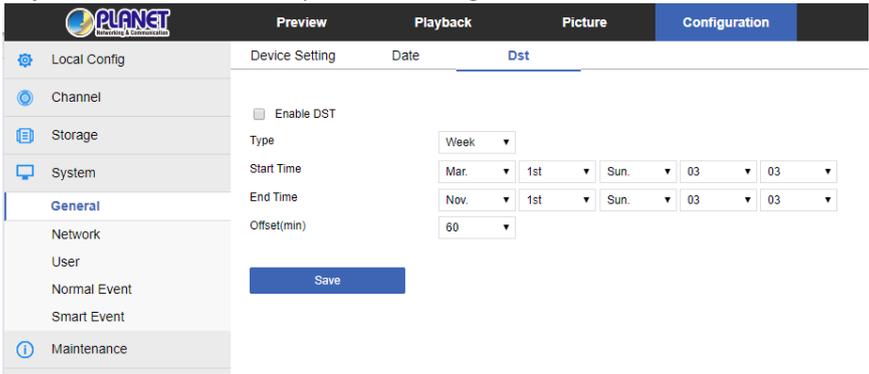


Figure 6-20

6.5.4.2 Network

■ IP/Port

In the main interface, click "Configuration → System → Network" to enter the IP/Port setting interface, as shown in Figure 6-21 below. Here you can set the IP Address, Network Mask, Gateway, Port, DNS and other network information, IP / Port and NVR settings consistency.

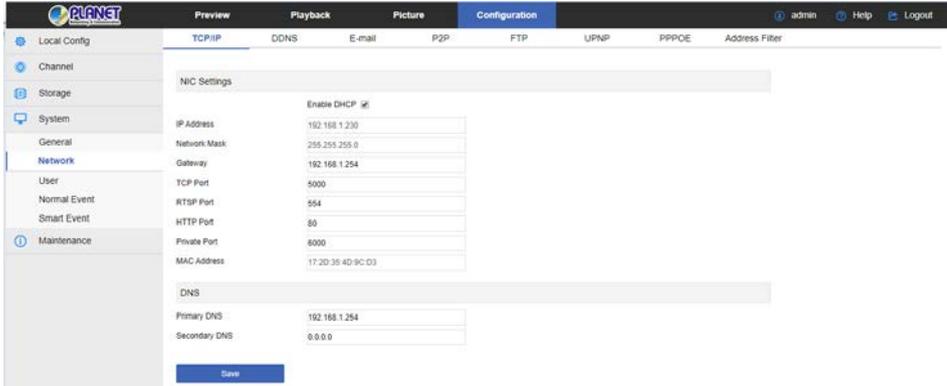
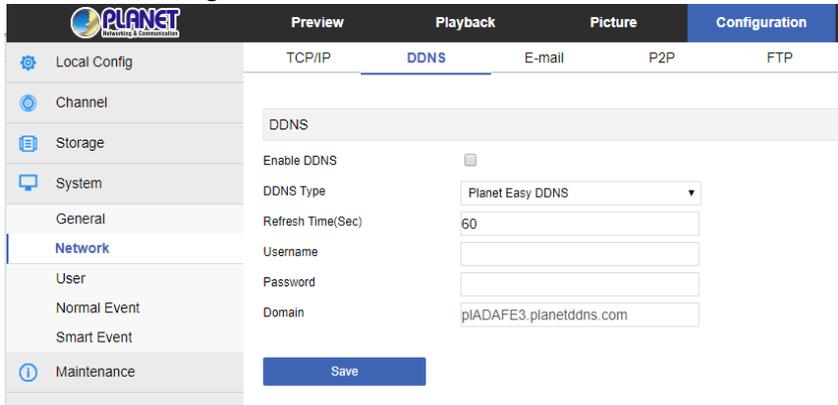


Figure 6-21

■ DDNS

In the main interface, click "Configuration → System → Network → DDNS" to enter the DDNS setting interface, as shown in Figure 6-22 below. Here you can enable and set the DDNS function, the DDNS setting is consistent with the NVR local setting.



	Preview	Playback	Picture	Configuration	
Local Config	TCP/IP	DDNS	E-mail	P2P	FTP
Channel	DDNS				
Storage	Enable DDNS <input type="checkbox"/>				
System	DDNS Type <input type="text" value="Planet Easy DDNS"/>				
General	Refresh Time(Sec) <input type="text" value="60"/>				
Network	Username <input type="text"/>				
User	Password <input type="text"/>				
Normal Event	Domain <input type="text" value="plADAFE3.planetddns.com"/>				
Smart Event	<input type="button" value="Save"/>				
Maintenance					

Figure 6-22

■ Email

In the main interface, click "Configuration → System → Network → Email" to enter the email setting interface, as shown in Figure 6-23 below. Here you can open and set the mail function, mail settings and NVR settings consistent.

PLANET Networking & Communication	Preview	Playback	Picture	Configuration
	TCP/IP	DDNS	E-mail	FTP
Local Config	<input type="checkbox"/> Enable Email Sender's Address SMTP Server: smtp.MailServer.com SMTP Port: 465 <input type="checkbox"/> Attach File Subject: NVR_ALERT Message Interval(Min): 1 Encryption: SSL Username Password Confirm Recipient1 Recipient2 Recipient3			
Channel				
Storage				
System				
General				
Network				
User				
Normal Event				
Smart Event				
Maintenance				
	Time Period Week: Thu. Time Period1: 00:00 ~ 00:00 Time Period2: 00:00 ~ 00:00 <input type="checkbox"/> Enable Auto Email Email Interval(Min): 60			
	E-mail Test			
	Save			

Figure 6-23

■ P2P

In the main interface, click "Configuration→System→Network→P2P" to enter the P2P setting interface, as shown in Figure 6-24 below. Here you can enable / disable the P2P function, check the serial number of the device, use the mobile phone to scan the QR code to download the App, and the settings of the P2P are consistent with the local settings of the NVR.

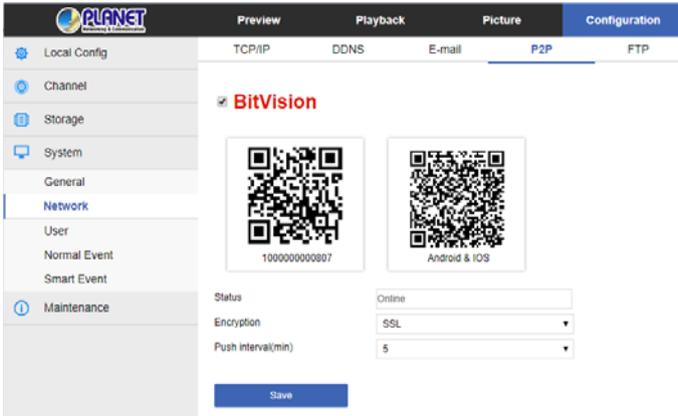


Figure 6-24

■ FTP

In the main interface, click "Configuration →System →Network →FTP" to enter the FTP setting interface, as shown in Figure 6-25 below. Here you can enable and set the FTP server function. The FTP settings are the same as the NVR local settings.

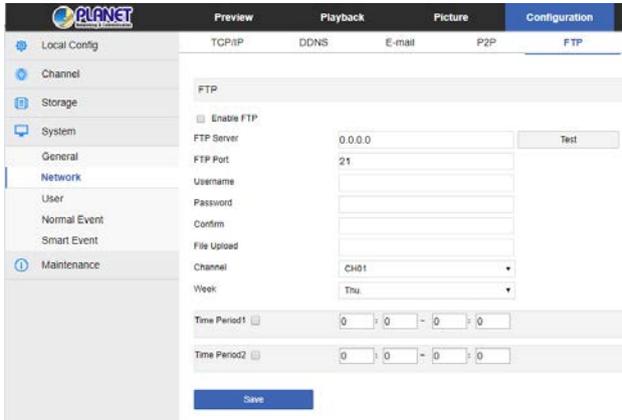


Figure 6-25

■ **UPNP**

In the main interface, click "Configuration → System → Network → UPNP" to enter the UPNP setting interface, as shown in Figure 6-26 below. Here you can enable and set the UPNP function, UPNP settings are consistent with the NVR local settings.

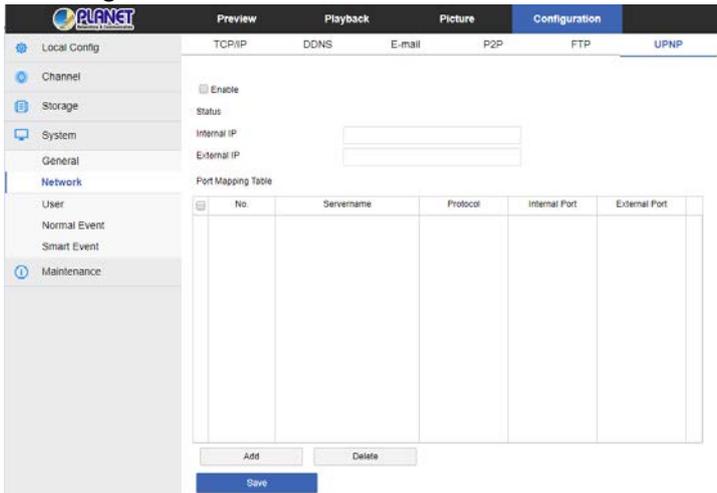


Figure 6-26

■ **PPPOE**

In the main interface, click "Configuration →System →Network →PPPOE" to enter the PPPOE setting interface, as shown in Figure 6-27 below. Here you can enable and set the PPPOE function, the PPPOE setting is consistent with the local settings of NVR.

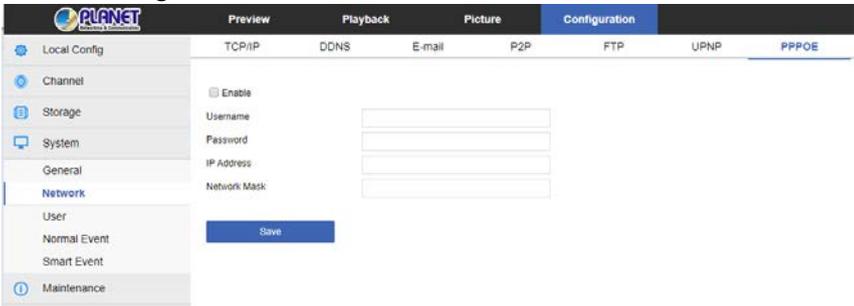


Figure 6-27

■ Address Filter

In the main interface, click "Configuration →System →Network →Address Filter" to enter the Address Filter setting interface, as shown in Figure 6-28 below. Here you can enable and set the Address Filter function of the NVR, the specific Address Filter settings are consistent with the NVR's local settings.

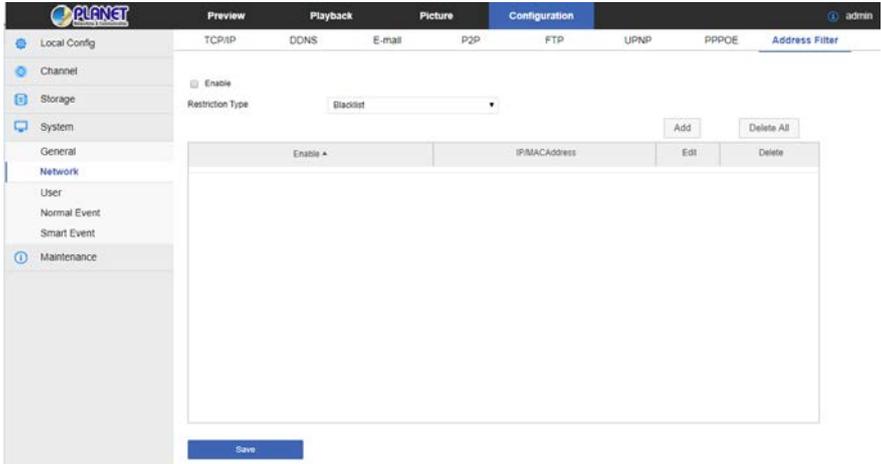


Figure 6-28

6.5.4.3 User

In the main interface, click "Configuration →System →User" to enter the User management interface, as shown in Figure 6-29 below. Here you can add, delete, edit users, user settings are consistent with the local settings of NVR.

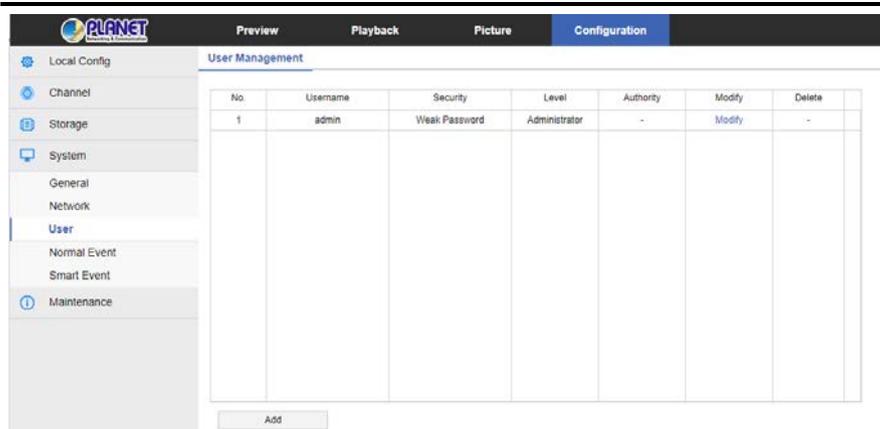


Figure 6-29

6.5.4.4 Local Alarm (NVR-2516P)

■ Alarm Input

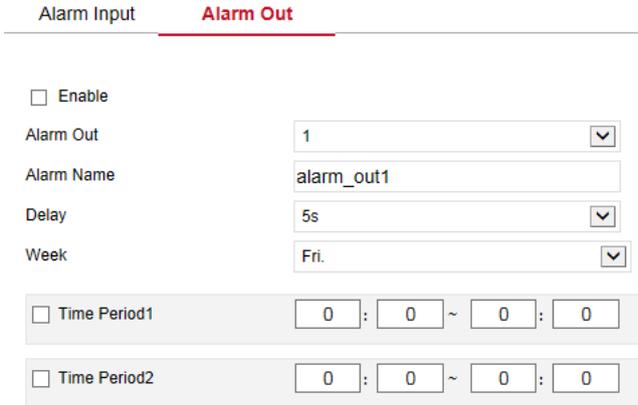
In the main interface, click "Configuration → System → Local Alarm → Alarm Input" to enter the Alarm Input interface, as shown in Figure 6-30 below. Here you can set the alarm input of the device to the alarm of the external alarm device. The alarm input setting is consistent with the local setting of the NVR.



Figure 6-30

■ Alarm Output

In the main interface, click "Configuration → System → Local Alarm → Alarm Output" to enter the Alarm Output interface, as shown in Figure 6-31 below. Here you can set the alarm output of the device to the alarm of the external alarm device. The alarm output setting is consistent with the local setting of the NVR.



Alarm Input	Alarm Out
<input type="checkbox"/> Enable	
Alarm Out	1
Alarm Name	alarm_out1
Delay	5s
Week	Fri.
<input type="checkbox"/> Time Period1	0 : 0 ~ 0 : 0
<input type="checkbox"/> Time Period2	0 : 0 ~ 0 : 0

Figure 6-31

6.5.4.5 Normal Event

■ Motion Detection

In the main interface, click "Configuration → System → Normal Event → Motion Detection" to enter the motion detection setting interface, as shown in Figure 6-32 below. Here you can view and set device motion detection related information. The relevant parameters are consistent with the local settings of the NVR.

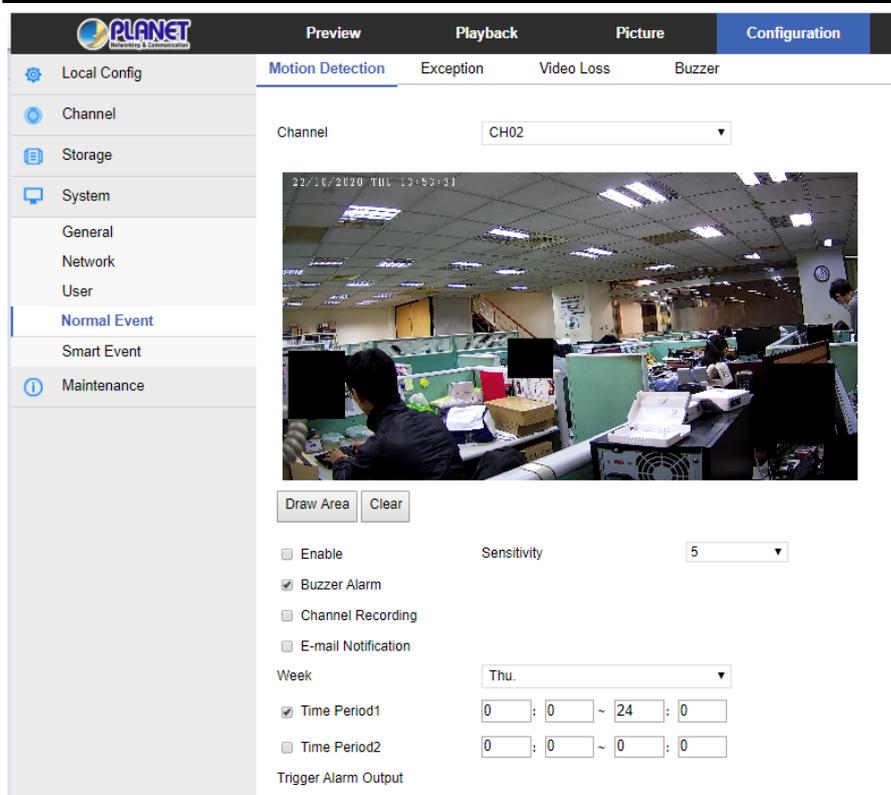


Figure 6-32

■ Exception

In the main interface, click "Configuration → System → Normal Event → Exception" to enter the exception setting interface, as shown in Figure 6-33 below. Here you could set the abnormal alarm (No Disk, Disk Error, Broken Network, IP Conflict). The abnormal alarm is consistent with the local setting of NVR.

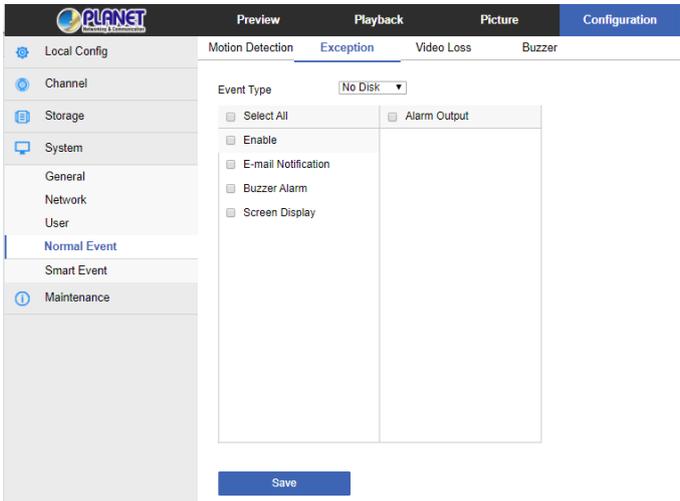


Figure 6-33

■ Video Loss

In the main interface, click "Configuration → System → Normal Event → Video Loss" to enter the video loss setting interface, as shown in Figure 6-34 below. Here you could enable channel video loss and set the corresponding alarm when the video is lost. The relevant parameters are consistent with the local settings of the NVR.

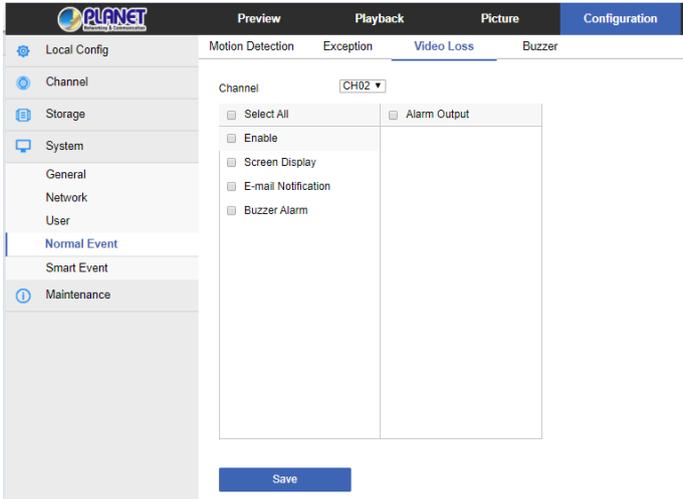


Figure 6-34

■ Buzzer Alarm

In the main interface, click "Configuration → System → Normal Event → Buzzer Alarm" to enter the buzzer alarm setting interface, as shown in Figure 6-35 below. Here you could set the duration of the buzzer alarm. The related parameters are consistent with the local settings of the NVR.

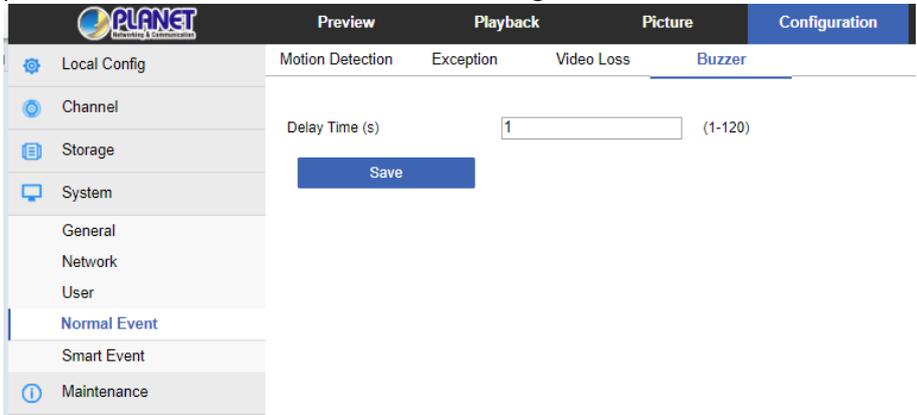


Figure 6-35

6.5.4.6 Intelligent

Intelligent detection includes face detection, crossover detection, regional intrusion detection, people stay and people gathering detection.

■ Face detection

In the main interface, click "Configuration → System → Smart Event → Face" to enter the Face detection setting interface, as shown in Figure 6-36 below. Here you could set the alarm for face detection. The relevant parameters are consistent with the local settings of the NVR.

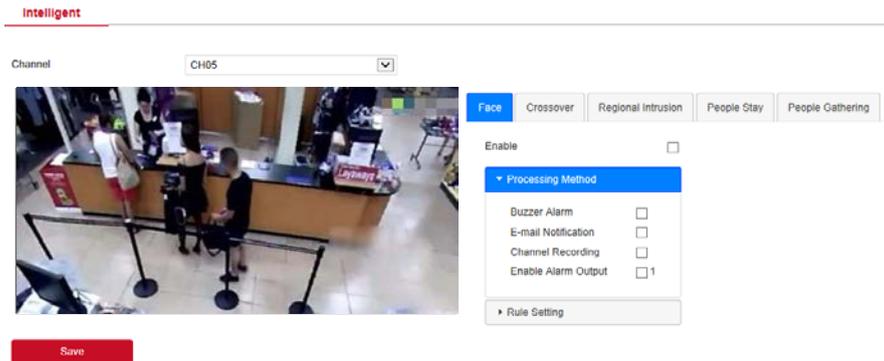


Figure 6-36

■ Crossover

In the main interface, click "Configuration → System → Smart Event → Crossover" to enter the Crossover detection setting interface, as shown in Figure 6-37 below. Here you could set the alarm for crossover detection. The relevant parameters are consistent with the local settings of the NVR.

Intelligent

Channel: CH05

Face Crossover Regional Intrusion People Stay People Gathering

Enable

Draw A Line

Clear All

Processing Method

Buzzer Alarm

E-mail Notification

Channel Recording

Enable Alarm Output 1

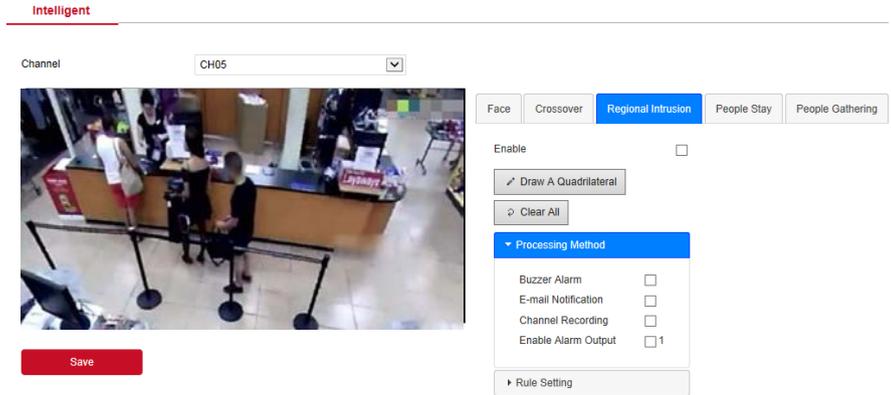
Rule Setting

Save

Figure 6-37

Regional Intrusion

In the main interface, click "Configuration → System → Smart Event → Regional Intrusion" to enter the regional intrusion detection setting interface, as shown in Figure 6-38 below. Here you could set the alarm for regional intrusion detection. The relevant parameters are consistent with the local



settings of the NVR.

Figure 6-38

■ People Stay

In the main interface, click "Configuration → System → Smart Event → People Stay" to enter the Wandering detection setting interface, as shown in Figure 6-39 below. Here you could set the alarm for people stay detection. The relevant parameters are consistent with the local settings of the NVR.

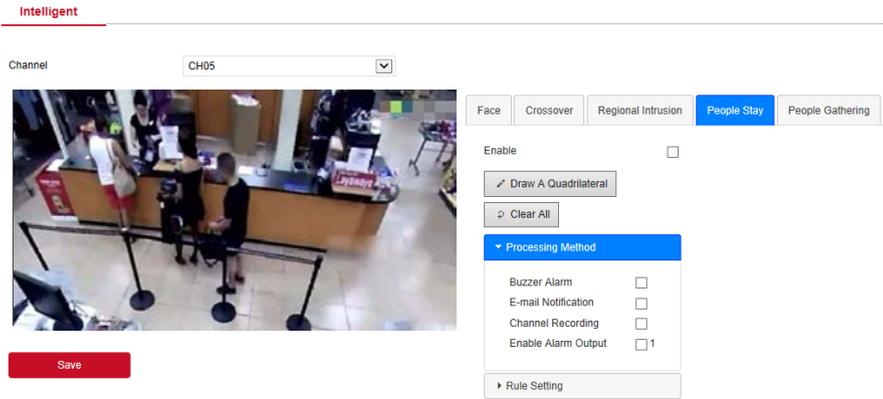


Figure 6-39

■ **People Gathering**

In the main interface, click "Configuration → System → Smart Event → People Gathering" to enter the people gathering detection setting interface, as shown in Figure 6-40 below. Here you could set the personnel gathering detection alarm, the relevant parameters are consistent with the local settings of the NVR.

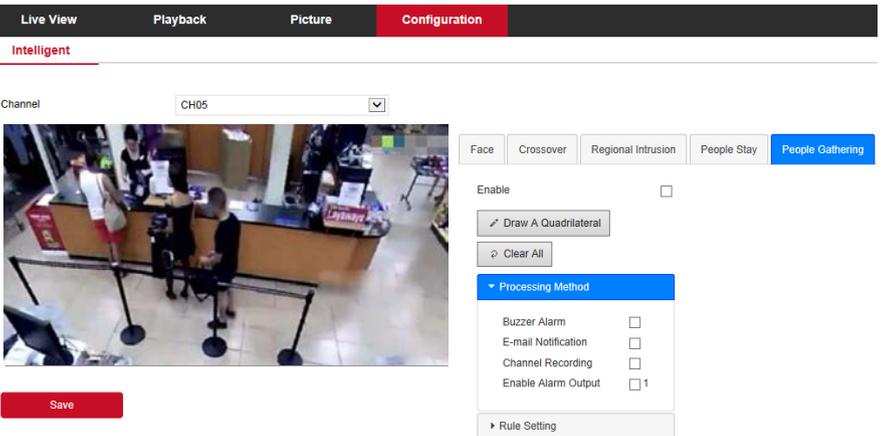


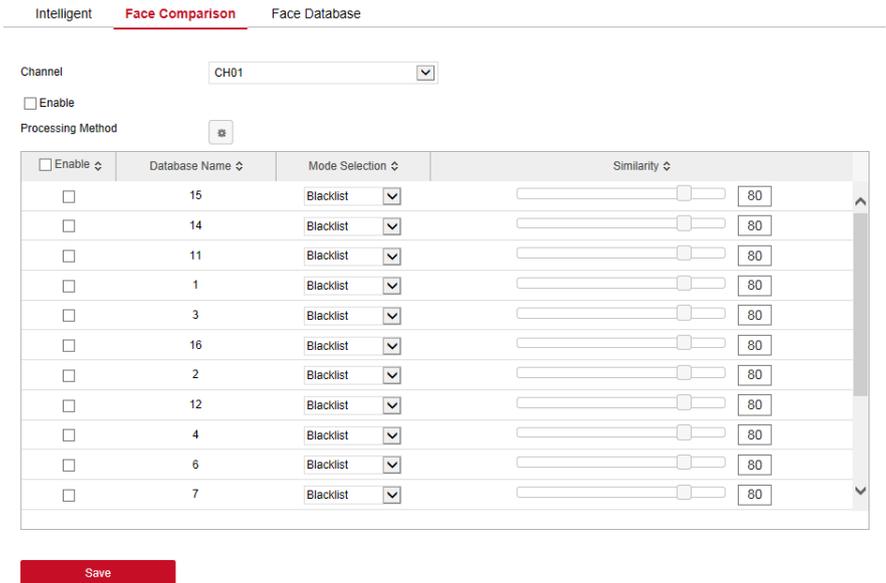
Figure 6-40

■ Face Comparison

Face comparison is used to set the face comparison function of NVR CH01-CH04.

The specific operation steps are as follows:

Step 1: In the main interface, click "Configuration → System → Smart Event → Face Comparison" to enter the face comparison setting interface, as shown in Figure 6-41 below.



Intelligent **Face Comparison** Face Database

Channel: CH01

Enable

Processing Method: 

<input type="checkbox"/> Enable	Database Name	Mode Selection	Similarity
<input type="checkbox"/>	15	Blacklist	80
<input type="checkbox"/>	14	Blacklist	80
<input type="checkbox"/>	11	Blacklist	80
<input type="checkbox"/>	1	Blacklist	80
<input type="checkbox"/>	3	Blacklist	80
<input type="checkbox"/>	16	Blacklist	80
<input type="checkbox"/>	2	Blacklist	80
<input type="checkbox"/>	12	Blacklist	80
<input type="checkbox"/>	4	Blacklist	80
<input type="checkbox"/>	6	Blacklist	80
<input type="checkbox"/>	7	Blacklist	80

Save

Figure 6-41

Step 2: Select the configuration channel, enable the face comparison function, set the comparison face database and processing method.

- ✓ Face comparison library settings: select face library and mode, set similarity.

- ✓ Processing method settings: Click "" to enter the processing method interface, select "buzzer alarm", "email notification", "channel recording" and "alarm output" ports as required.

Step 3: Click "Save" to save the settings.

■ Face Database

In the main interface, click "Configuration → System → Smart Event → Face Database" to enter the face database setting interface, as shown in Figure 6-42 below. Here you can add and delete the face database, and the related operation steps are the same as the local NVR.

Here you can perform operations such as adding, deleting, and ice machine face database. The relevant operation steps are the same as those of the NVR.

Intelligent
Face Comparison
Face Database

Database Name ▲	Number ↕	Event	Delete
1	31	☒	✖
2	33	☒	✖
3	208	☒	✖
4	209	☒	✖
5	31	☒	✖
6	31	☒	✖
7	31	☒	✖
0	31	☒	✖

Face Database Details

No. ▲	Name ↕	Coding ↕	Delete
1	444	205DB11B-6862-9D45-A51E-EB810ABCACAF	✖
2	ww	D9F9D5FB-59AF-4E4A-A50C-C02D8014ECD1	✖
3	vv	F4A279CF-CFBC-0F41-9F4E-0FAE50B84863	✖
4	tt	FE87E2BE-3ED0-6944-96BC-D39D9D1865C1	✖
5	ss	E88667E5-7620-8A40-9928-72BB298B47EF	✖
6	ad - 副本	C4460C94-B6F8-3245-AD56-AE854857645B	✖
7	nn	A9B368E1-54EE-2142-99E5-E3574803AFC4	✖
0	...	E107A0A 1ADA 0AE 0AE1 7D07540EED00	✖

Face Template



Figure 6-42

6.5.5 Maintain

6.5.5.1 Device Info

In the main interface, click "Configuration →Maintain →Version Info" to enter the version information interface, as shown in Figure 6-43 below. You can view the system's hardware features, software version, and release date on the version information interface.

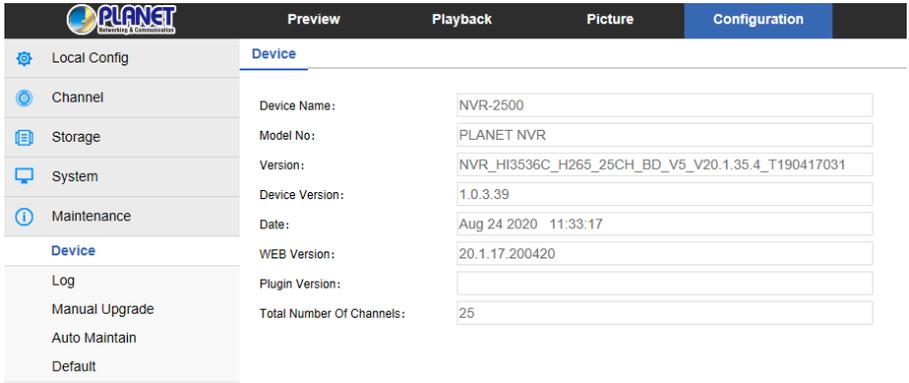
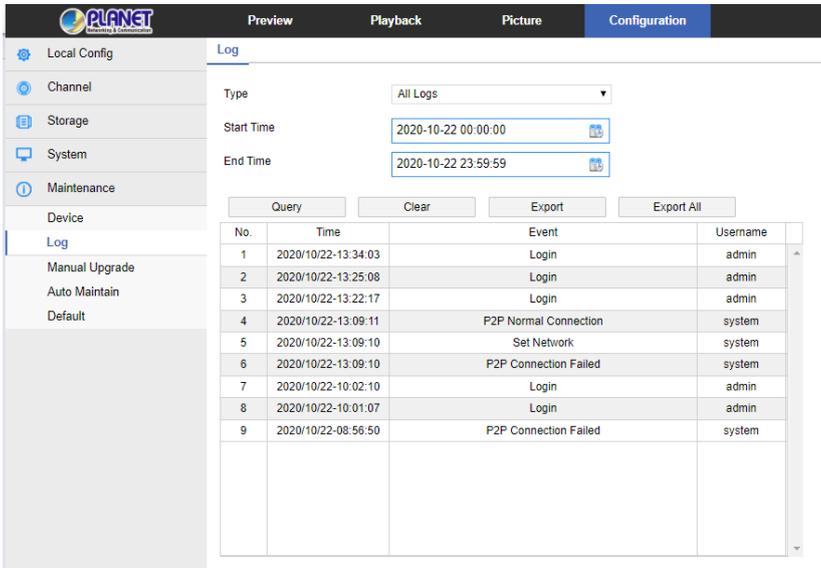


Figure 6-43

6.5.5.2 Log

In the main interface, click "Configuration →Maintain →Log" to enter the log interface, as shown in Figure 6-44 below. Here you can search and clear the device logs. The log search settings are consistent with the NVR local settings.



No.	Time	Event	Username
1	2020/10/22-13:34:03	Login	admin
2	2020/10/22-13:25:08	Login	admin
3	2020/10/22-13:22:17	Login	admin
4	2020/10/22-13:09:11	P2P Normal Connection	system
5	2020/10/22-13:09:10	Set Network	system
6	2020/10/22-13:09:10	P2P Connection Failed	system
7	2020/10/22-10:02:10	Login	admin
8	2020/10/22-10:01:07	Login	admin
9	2020/10/22-08:56:50	P2P Connection Failed	system

Figure 6-44

6.5.5.3 Manual Upgrade

In the manual upgrade interface, you can reboot and upgrade your device.

The device system restart and upgrade steps are as follows:

Step 1: In the main interface, click "Configuration → Maintain → Manual Upgrade" to enter the manual upgrade interface, as shown in Figure 6-45 below.

Step 2:

- ✓ **System Reboot:** Click "Reboot → OK", WEB enters the device restart interface, wait for the device to restart, enter the login interface and log in again.
- ✓ **Upgrade:** Click "Browse" to open the folder where the device upgrade file is located, select the upgrade file, click "Upgrade", the device starts to upgrade, and the WEB enters the device upgrade interface. After the device is upgraded and restarted, log in to the login page.

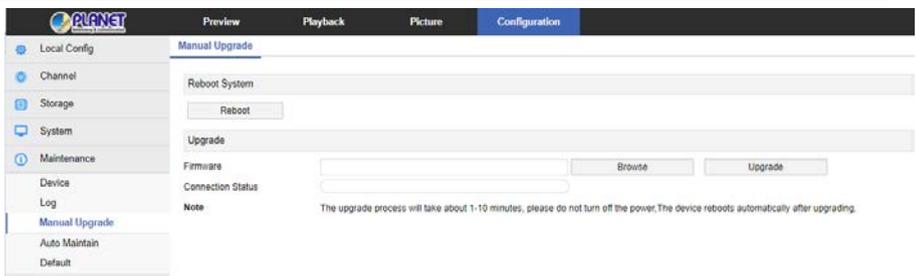


Figure 6-45

6.5.5.4 Auto Maintain

In the main interface, click "Configuration →Maintain →Auto Maintain" to enter the auto maintain interface, as shown in Figure 6-46 below. Here you can set the device reboot time, the auto maintenance settings and NVR settings consistent.

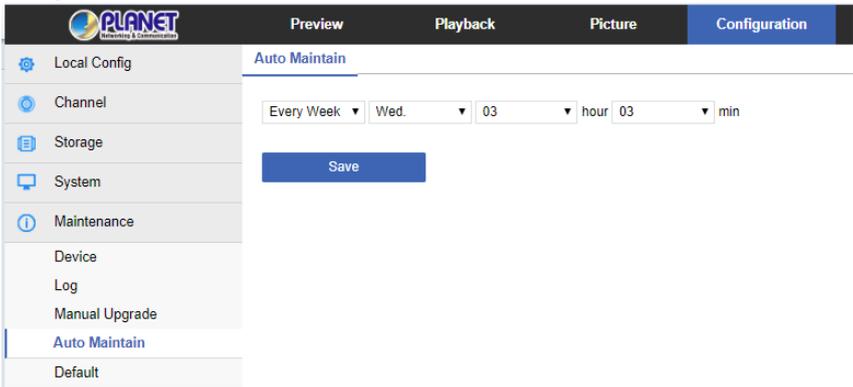


Figure 6-46

6.5.5.5 Restore Default

Set the restore default to restore the device default parameters to the factory defaults.

The default steps to restore are as follows:

Step 1: In the main interface, click "Configuration → Maintain → Restore Default" to enter the restore default interface, as shown in Figure 6-47 below.

Step 2: Select the parameters you want to restore, such as "Record".

Step 3: Click "Save" and the selected parameters are restored to the factory defaults.

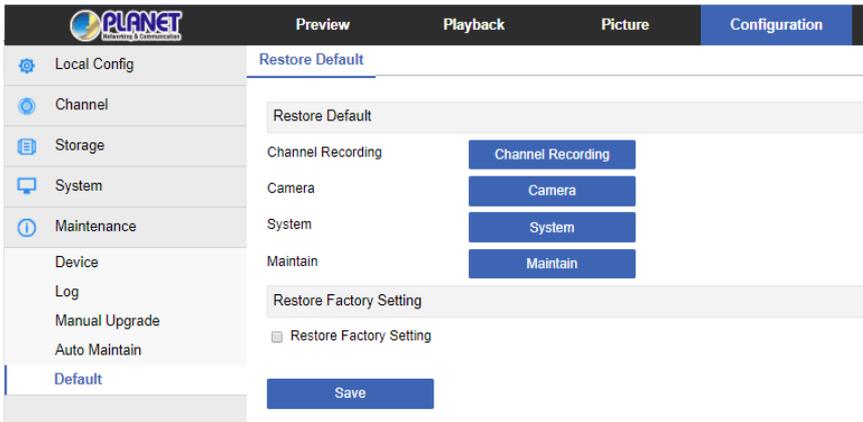


Figure 6-47

6.6 Playback

In the main interface, click "Playback" to enter the playback interface, as shown in Figure 6-48 below. Here you can view the equipment video, capture, download and other actions, the settings and NVR settings consistent.

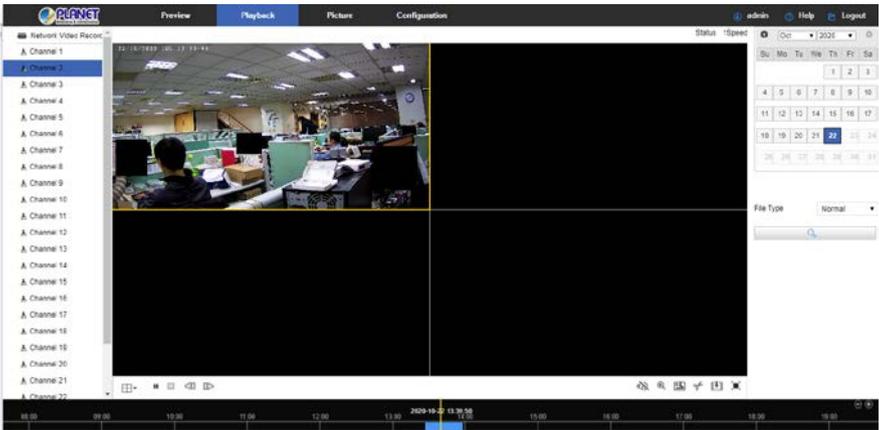


Figure 6-48

- **Timeline:** Displays the type of recording under the current conditions and the time period in which it is located. In the four-picture playback mode, four playback time axes corresponding to the selected four channels can be displayed. In the other single-screen playback modes, only one time axis is displayed. Use the mouse to click a point in the blue area and drag to the yellow line position, that is, playback from that point in time.
- **Layout:** Click " /  to toggle the video playback window.
- **Play/Pause:** After querying the video file, click " /  to start / pause playback of the searched video.
- **Stop:** When the video is played, press " " to stop playing the video.
- **Slow Forward:** When the video is played, click " " video will play slowly, the specific speed of choice 1/2, 1/4, 1/8. After switching, you can check the current playback speed in the current status of the upper right corner of the preview interface.

- **Fast Forward:** When the video is played, click "  " video will be slow to play, the specific speed of choice 2, 4, 8. After switching, you can check the current playback speed in the current status of the upper right corner of the preview interface.
- **Mute/Open the Sound:** When the video is played, click "  /  " to turn on / off the sound of the recorded video.
- **Enable Electronic Zoom:** When the video is played, click "  /  " to turn on / off the electronic zoom function of the recorded video. Turn on the electronic zoom function, hold down the left mouse button, select the position to zoom in on the playback screen, release the mouse, select the location screen is placed, click "  ", the magnification screen is restored.
- **Snapshot:** When the video is played, click "  " to capture the settings to the local configuration settings.
- **Clip:** When the video is played, click "  " to start recording, and then click Save Clip File again, which is stored in the local configuration settings.
- **Download:** After querying the video file, click "  " to enter the video file list, select the download file, click "Download", the video file starts to download in order, stored in the local configuration settings location. The file download interface is shown in Figure 6-49. The "First Page", "Prev Page", "Next Page" and "Last Page" are used to scroll through all video files. You can use "Edit" under "Set date / time manually" to intercept and download the video file.

<input type="checkbox"/>	Index	File Name	Start Time	Stop Time	File Size	Set Date/Time	Manualy	Progress
<input type="checkbox"/>	1	record_0000_0004_20200511160958_20200511161021.avi	2020-05-11 16:09:58	2020-05-11 16:10:21	8.000 MB		Edit	
<input type="checkbox"/>	2	record_0000_0004_20200511161029_20200511161046.avi	2020-05-11 16:10:29	2020-05-11 16:10:46	5.913 MB		Edit	
<input type="checkbox"/>	3	record_0000_0004_20200511161058_20200511161101.avi	2020-05-11 16:10:58	2020-05-11 16:11:01	1.043 MB		Edit	
<input type="checkbox"/>	4	record_0000_0004_20200511161116_20200511161117.avi	2020-05-11 16:11:16	2020-05-11 16:11:17	0.348 MB		Edit	
<input type="checkbox"/>	5	record_0000_0004_20200511161126_20200511161216.avi	2020-05-11 16:11:26	2020-05-11 16:12:16	17.300 MB		Edit	
<input type="checkbox"/>	6	record_0000_0004_20200511161224_20200511161225.avi	2020-05-11 16:12:24	2020-05-11 16:12:25	0.348 MB		Edit	
<input type="checkbox"/>	7	record_0000_0004_20200511161233_20200511161240.avi	2020-05-11 16:12:33	2020-05-11 16:12:40	2.435 MB		Edit	
<input type="checkbox"/>	8	record_0000_0004_20200511161251_20200511161339.avi	2020-05-11 16:12:51	2020-05-11 16:13:39	16.695 MB		Edit	
<input type="checkbox"/>	9	record_0000_0004_20200511161353_20200511161357.avi	2020-05-11 16:13:53	2020-05-11 16:13:57	1.391 MB		Edit	
<input type="checkbox"/>	10	record_0000_0004_20200511161406_20200511161413.avi	2020-05-11 16:14:06	2020-05-11 16:14:13	2.435 MB		Edit	
<input type="checkbox"/>	11	record_0000_0004_20200511161437_20200511161450.avi	2020-05-11 16:14:37	2020-05-11 16:14:50	4.522 MB		Edit	
<input type="checkbox"/>	12	record_0000_0004_20200511161459_20200511161549.avi	2020-05-11 16:14:59	2020-05-11 16:15:49	17.300 MB		Edit	
<input type="checkbox"/>	13	record_0000_0004_20200511161558_20200511161604.avi	2020-05-11 16:15:58	2020-05-11 16:16:04	2.087 MB		Edit	
<input type="checkbox"/>	14	record_0000_0004_20200511161613_20200511161623.avi	2020-05-11 16:16:13	2020-05-11 16:16:23	3.478 MB		Edit	
<input type="checkbox"/>	15	record_0000_0004_20200511161645_20200511161654.avi	2020-05-11 16:16:45	2020-05-11 16:16:54	3.130 MB		Edit	
<input type="checkbox"/>	16	record_0000_0004_20200511161705_20200511161714.avi	2020-05-11 16:17:05	2020-05-11 16:17:14	3.130 MB		Edit	
<input type="checkbox"/>	17	record_0000_0004_20200511161725_20200511161729.avi	2020-05-11 16:17:25	2020-05-11 16:17:29	1.391 MB		Edit	
<input type="checkbox"/>	18	record_0000_0004_20200511161742_20200511161800.avi	2020-05-11 16:17:42	2020-05-11 16:18:00	6.261 MB		Edit	
<input type="checkbox"/>	19	record_0000_0004_20200511161808_20200511161824.avi	2020-05-11 16:18:08	2020-05-11 16:18:24	5.565 MB		Edit	
<input type="checkbox"/>	20	record_0000_0004_20200511161832_20200511161841.avi	2020-05-11 16:18:32	2020-05-11 16:18:41	3.130 MB		Edit	

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Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

File Type:

Channel:

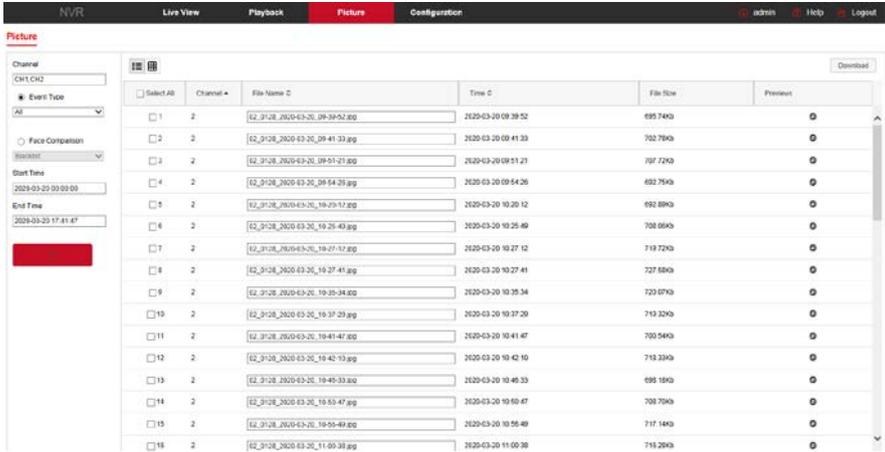
Figure 6-49

- **Full Screen:** When the video is played, click "  " the full-screen playback video. Press "Esc" on the keyboard to exit the full-screen playback interface.
- **Drag and drop:** the video playback, the left mouse button click on the time axis to play the position, drag left and right, drag it to the middle of the yellow time point position, playback channel to play the point in time recording.

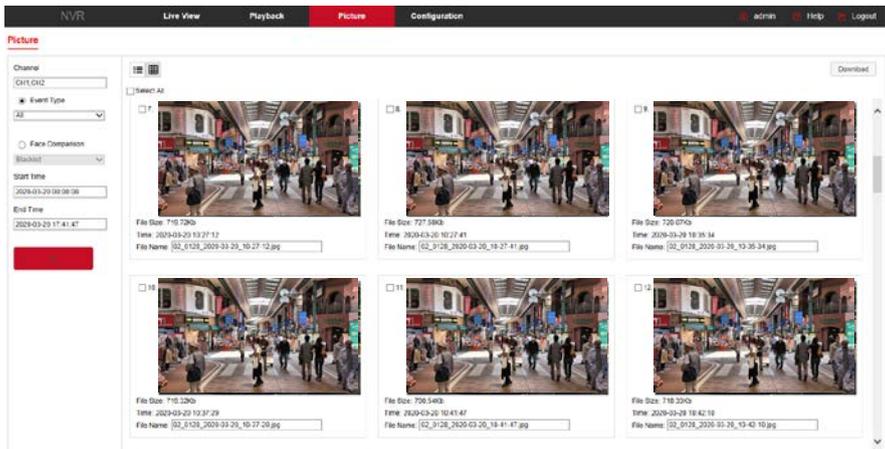
6.7 Picture

In the picture interface, you can view and download all the pictures captured on the device side. The steps are as follows:

Step 1: In the main interface, click "Picture" to enter the picture interface, as shown in Figure 6-50①② below.



6-50 ①



6-50 ②

Step 2: Select the channel, click "OK", select the event type, and set the search time range.

Step 3: Click "", the searched image is displayed on the right side of the interface.

Step 4: Select the picture, click "Download" to select the storage path, click "Ok", select the image to download to the specified folder. Click on the

"" corresponding to the preview position to view the image.

- **Channel:** Select the channel to which you want to search for image files. You can select one channel individually or multiple channels or "Select All" at the same time.
- **Event Type:** Capture image type, the drop-down box option consists of All, Manual capture, Motion capture, Face detection, Regional Intrusion, Crossover, Wandering and Staff Gathering.
- **Start/End Time:** The time range for capturing image files.
- **Query:** Click "", the system will query the corresponding picture file according to the set channel, event type and time range, and display it in the file list.
- **Details:** The image searched by clicking "" is displayed in the list as detailed information, as shown in Figure 6-51 below:

<input type="checkbox"/> Select All	Channel	File Name	Time	File Size	Preview
<input type="checkbox"/> 1	2	02_0128_2020-03-20_09-39-52.jpg	2020-03-20 09:39:52	695.74Kb	
<input type="checkbox"/> 2	2	02_0128_2020-03-20_09-41-33.jpg	2020-03-20 09:41:33	702.78Kb	
<input type="checkbox"/> 3	2	02_0128_2020-03-20_09-51-21.jpg	2020-03-20 09:51:21	707.72Kb	
<input type="checkbox"/> 4	2	02_0128_2020-03-20_09-54-26.jpg	2020-03-20 09:54:26	692.75Kb	
<input type="checkbox"/> 5	2	02_0128_2020-03-20_10-20-12.jpg	2020-03-20 10:20:12	692.89Kb	
<input type="checkbox"/> 6	2	02_0128_2020-03-20_10-25-49.jpg	2020-03-20 10:25:49	708.06Kb	
<input type="checkbox"/> 7	2	02_0128_2020-03-20_10-27-12.jpg	2020-03-20 10:27:12	719.72Kb	
<input type="checkbox"/> 8	2	02_0128_2020-03-20_10-27-41.jpg	2020-03-20 10:27:41	727.58Kb	
<input type="checkbox"/> 9	2	02_0128_2020-03-20_10-35-34.jpg	2020-03-20 10:35:34	729.87Kb	
<input type="checkbox"/> 10	2	02_0128_2020-03-20_10-37-29.jpg	2020-03-20 10:37:29	719.32Kb	
<input type="checkbox"/> 11	2	02_0128_2020-03-20_10-41-47.jpg	2020-03-20 10:41:47	700.54Kb	
<input type="checkbox"/> 12	2	02_0128_2020-03-20_10-42-10.jpg	2020-03-20 10:42:10	718.33Kb	
<input type="checkbox"/> 13	2	02_0128_2020-03-20_10-46-33.jpg	2020-03-20 10:46:33	698.18Kb	
<input type="checkbox"/> 14	2	02_0128_2020-03-20_10-50-47.jpg	2020-03-20 10:50:47	708.70Kb	
<input type="checkbox"/> 15	2	02_0128_2020-03-20_10-56-49.jpg	2020-03-20 10:56:49	717.14Kb	
<input type="checkbox"/> 16	2	02_0128_2020-03-20_11-00-38.jpg	2020-03-20 11:00:38	716.28Kb	

Figure 6-51

- **Big icon:** The image searched by clicking "🗄️" is displayed in the list as a large icon, as shown in Figure 6-52 below:

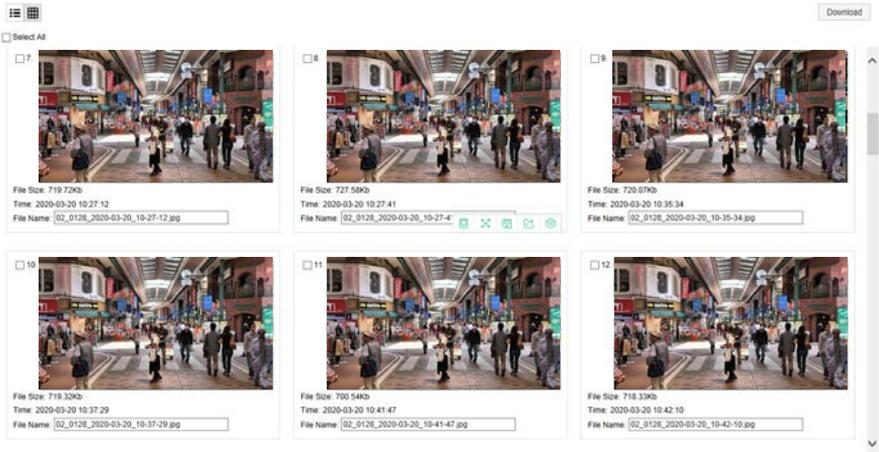


Figure 6-53

- **Download:** Select the picture, click "Download", select the storage path, click "Ok", select the picture to download to the specified folder.

Chapter 7 Appendix

7.1 Q&A

1. What to do when the hard disk cannot be detected?

Answer: If the system does not detect the hard disk, kindly please check the data line and the power line of hard disk whether are connected well, whether there is a problem about the interface of hard disk on the motherboard, or kindly please check hard disk whether is supported by the NVR in specification.

2. After modifying password, what can you do when you forget the password?

Answer: When the administrator forget password, kindly please get in touch with our technical staff. The easy to remember and relatively safe password is recommended when you set the password (if you have security needs, kindly please don't try to set simple passwords such as 123).

3. What may happen when there is heat when NVR is working?

Answer: It will produce some heat when NVR is working. Place the NVR in a location where it is safe and has good ventilation to prevent the heat from affecting the operation.

4. Is it possible to install the hard disk drive of computer in NVR?

Answer: If the hard disk you use can be supported by the system of NVR, it can work, but you need to note that if the NVR begins to work, all data in your hard disk will be lost.

5. Can we have a playback while recording?

Answer: Yes.

6. Can we remove a part of video recordings from hard disk of NVR?

Answer: Considering the security of document, you can't remove a part of video recording; if you need to remove all video recordings, you can format the hard disk.

7. Why can't we log in to NVR client?

Answer: Check whether configuration of network connection is right, and connection of RJ45 interface is fine. If it can't still work, check whether the user name and password are right.

8. Why can't we find any recording information when playing back?

Answer: Check whether the connection of data line of hard disk is good, whether the time of system is changed, or whether the query condition is not set to save video files. If all these do not, check whether the hard disk is damaged.

7.2 Maintenance

1. When NVR shutdowns, don't turn off the power switch directly to avoid data loss or damage of the hard disk.

2 Make sure NVR is placed in a good ventilated location.

3 Remove the dust deposited in the body timing, and keep the good ventilation around chassis

4. Regarding the audio/video signal line and RS485 interfaces, don't hot swap, or these ports will be damaged easily.

5. Check the HDD power cable and data cable of the NVR regularly and look whether they are aging.

6. Avoid the audio/video signal affected by other circuits and devices as much as possible. Prevent the hard disk from damage via electrostatic or induced voltage.