Honeywell

Honeywell 35 Series

Network Video Recorder

HN35160400R	HN35160408R	HN35160416R	HN35160491R
HN35160492R	HN35320400NR	HN35320408NR	HN35320416NR
HN35320491NR	HN35320492NR	HN35640400NR	HN35640492NR
HN35320800NR	HN35320808NR	HN35320816NR	HN35320832NR
HN35320891NR	HN35320892NR	HN35320893NR	HN35640800NR
HN35640892NR	HN35640893NR	HN35640894NR	HN35640800DR
HN35640893DR	HN35640894DR		

User Guide

Recommended

Find the latest version of this and other Honeywell 35 Series NVR documents on our website: https://buildings.honeywell.com/security.

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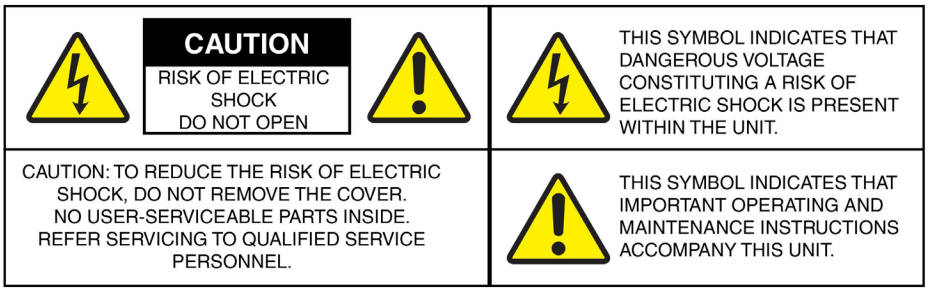
Revision

Issue	Date	Revisions
A	08/2023	New document.

Cautions and Warnings



Warning: **Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.**

Warning: **Use only with the supplied power cable.**

Caution: **The Honeywell product uses a 3.3V CR2032 lithium battery as the power supply for its internal real-time clock (RTC). Low battery power affects the operation of the RTC, causing it to reset at every power-up.**
Risk of explosion if the battery is incorrectly replaced.
Dispose of used batteries according to local regulations or the battery manufacturer's instructions.
Make sure the product is power-down before removal. Then carefully remove the battery.
Replace only with an identical battery or a battery which is recommended by Honeywell.

Regulatory Statements

FCC Compliance Statement

Information to the User: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely

to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class A digital apparatus complies with Canadian ICES-003.

Manufacturer's Declaration of Conformance

North America

The equipment supplied with this guide conforms to UL 62368-1 and CSA C22.2 No. 62368-1.

Europe

The manufacturer declares that the equipment supplied is compliant with the European Parliament and Council Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (2015/863/EU), the Low Voltage Directive (2014/35/EU) and the essential requirements of the EMC directive (2014/30/EU),conforming to the requirements of standards EN 55032/EN 61000-3-2/EN 61000-3-3/EN 61000-6-4 for emissions, EN 50130-4/EN 55024/EN 55035 for immunity, and EN 62368-1 for electrical equipment safety.

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

Waste Electrical and Electronic Equipment (WEEE)

Correct Disposal of this Product (applicable in the European Union and other European countries with separate collection systems).

This product should be disposed of, at the end of its useful life, as per applicable local laws, regulations, and procedures.

Check Local Waste Guidelines

Components of this product require separate waste collection. Check local waste guidelines for sorting rules.

General Data Protection Regulation

Please be aware that this product can store personal data.

Personal data is protected by the General Data Protection Regulation (2016/679) in Europe and therefore the owners of personal data have obtained certain rights thanks to this regulation.

We strongly advise you to be fully aware of these owner ("data subjects") rights as well as which limitations you have to obey regarding the use and distribution of this data.

Further details can be found on the GDPR website of the EU: https://ec.europa.eu/commission/priorities/justice-and-fundamental-rights/data-protection/2018-reform-eu-data-protection-rules_en

Safety Instructions

Before installing or operating the unit, read and follow all instructions. After installation, retain the safety and operating instructions for future reference.

HEED WARNINGS - Adhere to all warnings on the unit and in the operating instructions.

INSTALLATION

- Install in accordance with the manufacturer's instructions.
- Installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.
- Any wall or ceiling mounting of the product should follow the manufacturer's instructions and use a mounting kit approved or recommended by the manufacturer.

OPERATION REQUIREMENT

- Install the PoE front-end device indoors.
- The device does not support wall mount.
- Do not place and install the device in an area exposed to direct sunlight or near heat generating device.
- Do not install the device in a humid, dusty or fuliginous area.
- Keep its horizontal installation, or install it at stable places, and prevent it from falling.
- Do not drip or splash liquids onto the device; do not put on the device anything filled with liquids, to prevent liquids from flowing into the device.
- Install the device at well-ventilated places; do not block its ventilation opening.

- Use the device only within rated input and output range.
- Do not dismantle the device arbitrarily.
- Transport, use and store the device within allowed humidity and temperature range.

POWER SOURCES - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your facility, consult your product dealer or local power company.

MOUNTING SYSTEM - Use only with a mounting system recommended by the manufacturer, or sold with the product.

ATTACHMENTS/ACCESSORIES - Do not use attachments/accessories not recommended by the product manufacturer as they may result in the risk of fire, electric shock, or injury to persons.

CLEANING - Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

SERVICING - Do not attempt to service this unit yourself. Refer all servicing to qualified service personnel.

REPLACEMENT PARTS - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards. Using replacement parts or accessories other than the original manufacturers may invalidate the warranty.

WASTE- Components of this product require separate waste collection. Check local waste guidelines for sorting rules.

Warranty and Service

Subject to the terms and conditions listed on the product warranty, during the warranty period Honeywell will repair or replace, at its sole option, free of charge, any defective products returned prepaid.

In the event you have a problem with any Honeywell product, please call Customer Service at 1.800.323.4576 for assistance or to request a **Return Merchandise Authorization (RMA)** number.

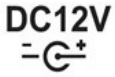
Be sure to have the model number, serial number, and the nature of the problem available for the technical service representative.

Prior authorization must be obtained for all returns, exchanges, or credits. **Items shipped to Honeywell without a clearly identified Return Merchandise Authorization (RMA) number may be refused.**

List of Symbols

The following is a list of symbols that might appear on the NVR.

Table 1 List of Symbols

Symbol	Explanation
	The WEEE symbol. This symbol indicates that when the end-user wishes to discard this product, it must be sent to separate collection facilities for recovery and recycling. By separating this product from other household-type waste, the volume of waste sent to incinerators or landfills will be reduced, and thus natural resources will be conserved.
	The UL compliance logo. This logo indicates that the product has been tested and is listed by UL (formerly Underwriters Laboratories).
	The FCC compliance logo. This logo indicates that the product conforms to Federal Communications Commission compliance standards.
	The direct current symbol. This symbol indicates that the power input/output for the product is direct current.
	The alternating current symbol. This symbol indicates that the power input/output for the product is alternating current.
	The LDPE symbol. This symbol indicates that this product is made of Low-Density Polyethylene (LDPE).
	The Direct Current symbol. This symbol indicates that the product operates from a 12 V direct current.
	The Lead-free symbol. This symbol indicates that the product does not contain lead (Pb).
	The CCC compliance logo. This logo indicates that the product conforms with the China Compulsory Certification guidelines.
	The Environment Friendly Use-period symbol. This symbol indicates the length of time that this electronic product can used without harming the environment.
	The RCM Compliance symbol. This symbol indicates that the product conforms with the Australian RCM guidelines.

	The TVU Lab symbol. This symbol indicates that the product has been safety tested by the TUV Lab.
	The Direct Current symbol. This Direct Current symbol indicates that the product operates direct current.
	This symbol indicates that the product is to be used indoors.
	The CE Compliance logo. This logo indicates that the product conforms to the relevant guidelines/standards for the European Union harmonization legislation.
	The Protective Earth symbol. This symbol indicates that the marked terminal is intended for connection to the protective earth/grounding conductor.
	This symbol is used to direct attention to important information.
	This symbol warns that the corresponding action could result in an electric shock.
	This symbol indicates On/Standby functionality of the corresponding control/button/switch.

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ABOUT THIS DOCUMENT

This document introduces the Honeywell 35 Series Network Video Recorder. It explains how to install and operate the 35 Series Network Video Recorder.

This document is intended for installers and users.

Overview of Contents

This document contains the following chapters and appendixes:

Chapter 1 Introduction, describes the front and rear panel layout of the NVR.

Chapter 2 Getting Started, describes how to connect the NVR and log on to its user interface.

Chapter 3 Local Basic Operation, describes the NVR's local operations.

Chapter 4 Web Operation, describes how to configure the web operations.

Chapter 5 FAQ, describes Q&A for resolving issues that you may encounter when operating the NVR.

CHAPTER

1 INTRODUCTION

Overview

The 35 Series NVR is a high-performance network video recorder. This series product supports local live view, multiple-window display, recorded file local storage, remote control and mouse shortcut menu operation, and remote management and control function.

The 35 Series NVR supports center storage, front-end recording and client-end recording. The monitor zone in the front-end can be set in anywhere. Working with other front-end devices such as IPC, NVR, this series product can establish a strong surveillance network through the HSV. In the network system, there is only one network cable from the monitor center to the monitor zone in the whole network. There is no audio/video cable from the monitor center to the monitor zone. The whole project is featured by simple connection, low-cost, low maintenance work.

The 35 Series NVR can be widely used in areas such as public security, water conservancy transportation and education.

Key Features

Real-Time Surveillance

- VGA, HDMI port: Connect to monitor to realize real-time surveillance. Support VGA/HDMI output at the same time.
- Shortcut menu for preview.
- Support multiple popular PTZ decoder control protocols. Support preset and patrol.

Playback

- Support independent real-time recording for each channel. At the same time, it supports functions such as network monitor, record search and download.
- Support various playback modes: slow play, fast play, backward play and frame-by-frame play.

- Support time title overlay so that you can view the event accurate occurred time.
- Support specified zone enlargement.

User Management

Users can be added to user groups for management. Each group has a set of permissions that can be individually edited.

Storage

- With corresponding settings (such as alarm settings and schedule settings), you can back up related audio/video data in the network video recorder.
- You can take records via the web and the record files are saved on the PC in which the client locates.
- RAID 1/5/6 external storage compatibility supports a wide range of high capacity storage options.

Alarm

- Respond to external alarm simultaneously (within 200 ms). Based on user's pre-defined relay settings, the system can process the alarm input correctly and sends user screen or voice prompts (supporting pre-recorded audio).
- Support settings of the central alarm server, so that the system can automatically notify users of the alarm information. Alarm input can be derived from various connected peripheral devices.
- Alert you of alarm information via email.

Network Surveillance

- Send audio/video data compressed by IPC or HSV to client-ends through the network, and then the data will be decompressed and displayed.
- Transmit audio/video data by protocols such as HTTP, TCP, UDP, MULTICAST and RTP/RTCP.
- Transmit some alarm data or alarm info by SNMP.
- Support web access in WAN/LAN.

Window Split

Adopt video compression and digital processing to display several windows in one monitor. Support 1/4/9/16/32/64 window split for 64channels models in preview. Support 1/4/9/16/32 split for 32 channels models in preview. And support 1/4/9/16 split for 16 channels models in preview. All models support 1/4/9/16 window split in playback.

Record

Support schedule record, manual record and event record. Save the recorded files in the HDD, USB device, client-end PC or network storage server and you can search or playback the saved files at the local-end or via the Web/USB devices.

Backup

Support network backup and USB record backup. You can back up the record files in devices such as network storage server, peripheral USB2.0 device and USB 3.0 device.

Network Management

- Supervise NVR configuration and control power via Ethernet.
- Support web management.
- Support redundancy Failover N+1(Maximum N =10).

Peripheral Equipment Management

- Support peripheral device control and you can freely set the control protocol and connection port.

Auxiliary

- Support real-time display of system resources information and running status.
- Support log record.
- Local GUI output. Shortcut menu operation with the mouse.
- Support to play the video/audio files from remote IPC.

People Counter

- Support people counter feature to accurately automate the gathering of data relating to people entering and exiting a certain area.

Network Video Recorder Components

Front Panel and Rear Panel

Note: The following front panel and rear panel figures are for reference only. The actual product shall prevail.

HN351604xxR

Figure 1 Front Panel (HN351604xxR)

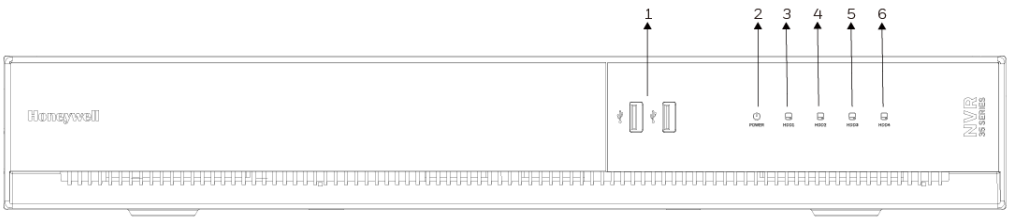


Table 2 NVR Front Panel Description (HN351604xxR)

No.	Name	Description
1	USB port	Connect to peripheral USB 2.0 storage device, mouse and so on.
2	POWER	The light is on when the power connection is OK.
3~6	HDD1/HDD2/ HDD3/HDD4	The green light is flash when the device is recording, if the disks are not working, lights are always bright. The light is off without disk.

Figure 2 Rear Panel (HN351604xxR)

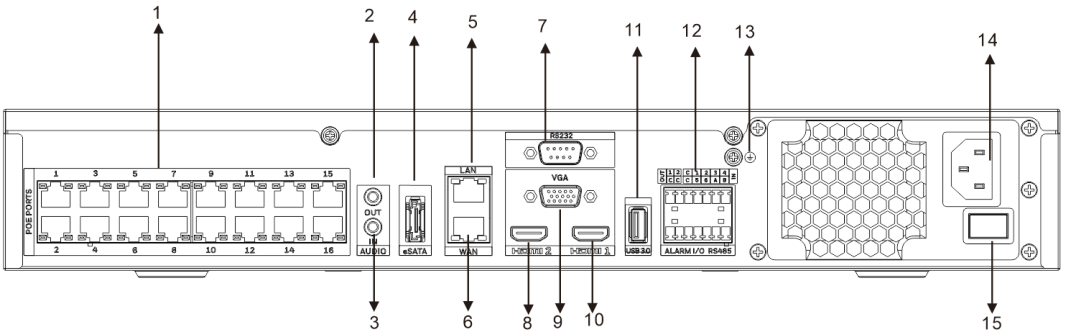


Table 3 NVR Rear Panel Description (HN351604xxR)

No.	Name	Description
1	PoE port	Built-in switch Support PoE function For PoE series product, you can use this port to provide power to the network camera.
2	AUDIO OUT	Audio output port It is the output for the analog audio signal to the devices such as the sound box. • Bidirectional talk output • Audio output on 1-window video monitor Audio output on 1-window video playback
3	AUDIO IN	Bidirectional talk input port It is to receive the analog audio signal output from the devices such as microphone, pickup.
4	eSATA	Hard disk port
5~6	Network port	10M/100Mbps self-adaptive Ethernet port Connect to the network cable.
7	RS232	RS232 port
8	HDMI 2	High-definition audio and video signal output port It transmits uncompressed high-definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
9	VGA	VGA video output port Output analog video signal It can connect to the monitor to view analog video.
10	HDMI 1	High-definition audio and video signal output port

No.	Name	Description
		It transmits uncompressed high-definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
11	USB port	USB port Connect to mouse or USB storage device
12	Alarm Input/Output /RS458	Receive signals from external alarm source. C is COM port. There is one channel of alarm in; There are eight channels of alarm out. When your alarm input device is using external power, make sure the device and the NVR have the same GND. A is RS485+, B is RS485-.
13	⏚	GND
14	Power input port	Power socket
15	Power switch	Power on/off button

HN353204xxNR

Figure 3 Front Panel (HN353204xxNR)

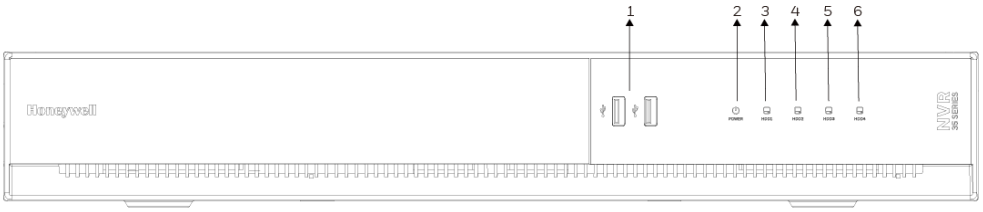


Table 4 NVR Front Panel Description (HN353204xxNR

No.	Name	Description
1	USB port	Connect to peripheral USB 2.0 storage device, mouse and so on.
2	POWER	The light is on when the power connection is OK.
3~6	HDD1/HDD2/ HDD3/HDD4	The green light is flash when the device is recording, if the disks are not working, lights are always bright. The light is off without disk.

Figure 4 Rear Panel (HN353204xxNR)

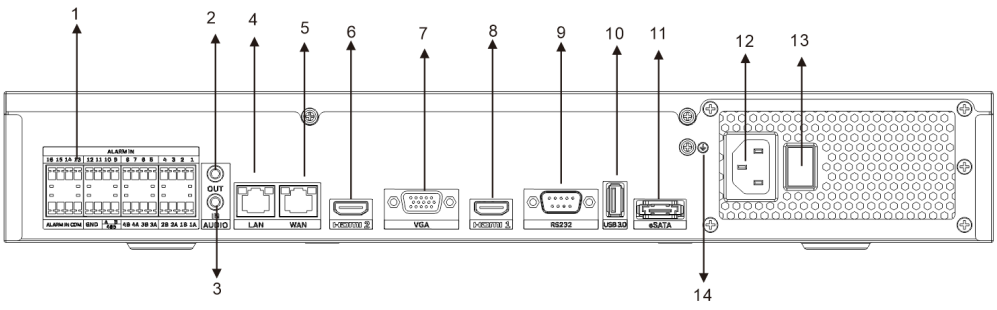


Table 5 NVR Rear Panel Description (HN353204xxNR)

No.	Name	Description
1	Alarm Input/Output /RS485	Receive signals from external alarm source. C is COM port. There is one channel of alarm in and eight channels of alarm out. When your alarm input device is using external power, make sure the device and the NVR use the same GND.
2	AUDIO OUT	Audio output port It is the output for the analog audio signal to the devices such as the sound box. • Bidirectional talk output. • Audio output on 1-window video monitor. Audio output on 1-window video playback
3	AUDIO IN	Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as microphone, pickup.
4~5	Network port	10M/100Mbps self-adaptive Ethernet port Connect to the network cable.
6	HDMI 2	High-definition audio and video signal output port It transmits uncompressed high-definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
7	VGA	VGA video output port Output analog video signal. It can connect to the monitor to view analog video.
8	HDMI 1	High-definition audio and video signal output port It transmits uncompressed high-definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
9	RS232	RS232 port
10	USB port	USB port. Connect to mouse or USB storage device.
11	eSATA	Hard disk port
12	Power input port	Power socket.
13	Power switch	Power on/off button.
14	⏚	GND

Figure 5 Front Panel (HN356404xxNR)

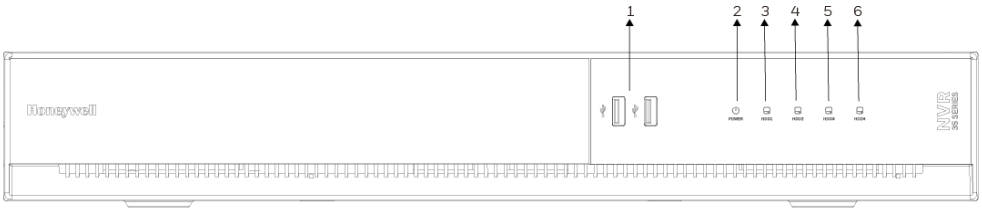


Table 6 NVR Front Panel Description (356404xxNR)

No.	Name	Description
1	USB port	Connect to peripheral USB 2.0 storage device, mouse and so on.
2	POWER	The light is on when the power connection is OK.
3~6	HDD1/HDD2/ HDD3/HDD4	The green light is flash when the device is recording, if the disks are not working, lights are always bright. The light is off without disk.

Figure 6 Rear Panel (HN356404xxNR)

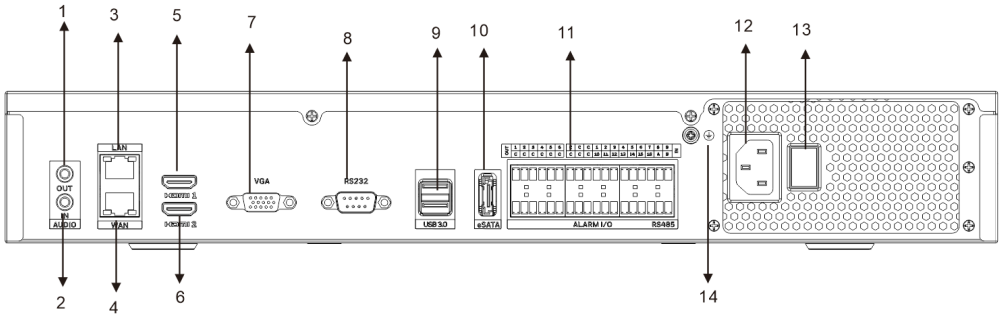


Table 7 NVR Rear Panel Description (356404xxNR)

No.	Name	Description
1	AUDIO OUT	Audio output port It is the output for the analog audio signal to the devices such as the sound box. • Bidirectional talk output. • Audio output on 1-window video monitor. Audio output on 1-window video playback.
2	AUDIO IN	Bidirectional talk input port It is to receive the analog audio signal output from the devices such as microphone, pickup.
3~4	Network port	10M/100Mbps self-adaptive Ethernet port Connect to the network cable.
5~6	HDMI 1/2	High-definition audio and video signal output port It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
7	VGA	VGA video output port

No.	Name	Description
		Output analog video signal. It can connect to the monitor to view analog video.
8	RS232	RS232 port
9	USB port	USB port Connect to mouse or USB storage device.
10	eSATA	Hard disk port
11	Alarm Input/Output RS485	Receive signals from external alarm source C is COM port. There is one channel of alarm in and eight channels of alarm out. When your alarm input device is using external power, make sure the device and the NVR have the same GND. A is RS485 +, B is RS485 -.
12	Power input port	Power socket The redundant powers
13	Power switch	Power on/off button
14	⏚	GND

HN356408xxNR/HN353208xxNR

Figure 7 Front Panel (N356408xxNR/ HN353208xxNR)

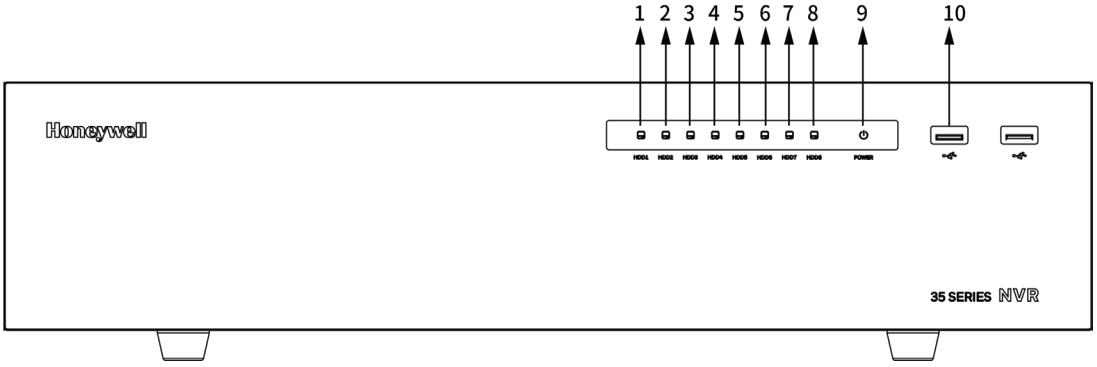


Table 8 NVR Front Panel Description (N356408xxNR/ HN353208xxNR)

No.	Name	Description
1~8	HDD1/HDD2/ HDD3/HDD4/ HDD5/HDD6/ HDD7/HDD8	The green light is flash when the device is recording, but the disks are not working, lights are always on. The light is off if there's no disk.
9	POWER	The light is on when the power connection is OK.
10	USB port	Connect to peripheral USB 2.0 storage device, mouse and so on.

Figure 8 Rear Panel (N356408xxNR/ HN353208xxNR)

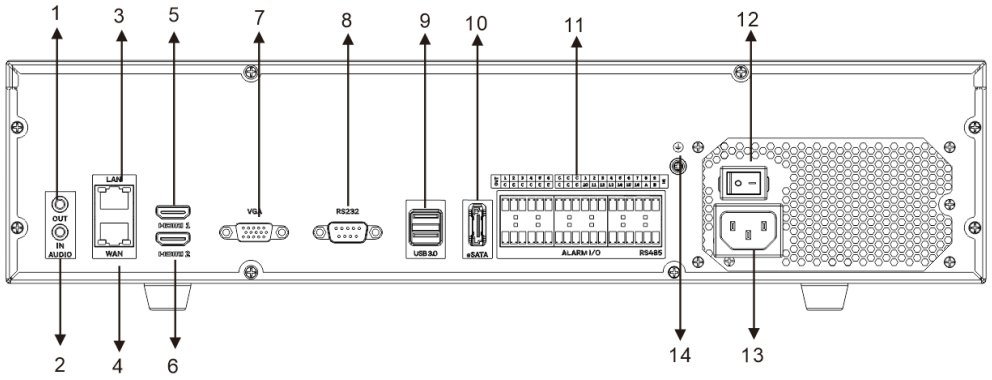


Table 9 NVR Rear Panel Description (N356408xxNR/ HN353208xxNR)

No.	Name	Description
1	AUDIO OUT	Audio output port It is the output for the analog audio signal to the devices such as the sound box. • Bidirectional talk output. • Audio output on 1-window video monitor. Audio output on 1-window video playback.
2	AUDIO IN	Bidirectional talk input port It is to receive the analog audio signal output from the devices such as microphone, pickup.
3~4	Network port	10M/100Mbps self-adaptive Ethernet port Connect to the network cable
5~6	HDMI 1/2	High-definition audio and video signal output port It transmits uncompressed high-definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
7	VGA	VGA video output port Output analog video signal It can connect to the monitor to view analog video.
8	RS232	RS232 port
9	USB port	USB port Connect to mouse or USB storage device
10	eSATA	Hard disk port
11	Alarm Input/Output RS485	Receive signals from external alarm source C is COM port. There is one channel of alarm in; There are eight channels of alarm out. When your alarm input device is using external power, make sure the device and the NVR have the same GND. A is RS485 +, B is RS485 -.
12	Power switch	Power on/off button.
13	Power input port	Power socket. The redundant powers.

No.	Name	Description
14	⏚	GND

HN356408xxDR

Figure 9 Front Panel (HN356408xxDR)

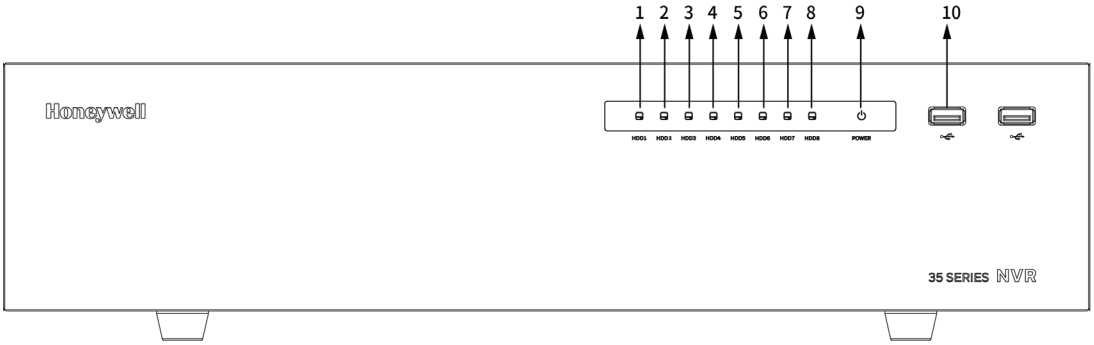


Table 10 NVR Front Panel Description (HN356408xxDR)

No.	Name	Description
1~8	HDD1/HDD2/ HDD3/HDD4/ HDD5/HDD6/ HDD7/HDD8	The green light is flash when the device is recording, if the disks are not working, lights are always bright. The light is off without disk.
9	POWER	The light is on when the power connection is OK.
10	USB port	Connect to peripheral USB 2.0 storage device, mouse and so on.

Figure 10 Rear Panel (HN356408xxDR)

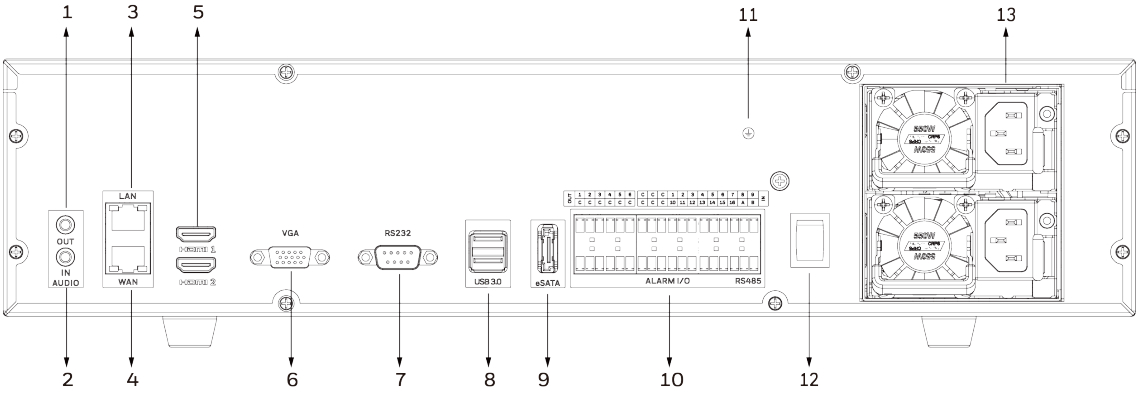


Table 11 NVR Rear Panel Description (HN356408xxDR)

No.	Name	Description
1	AUDIO OUT	Audio output port It is to output the analog audio signal to the devices such as the sound box. • Bidirectional talk output. • Audio output on 1-window video monitor. Audio output on 1-window video playback.

No.	Name	Description
2	AUDIO IN	Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as microphone, pickup.
3~4	Network port	10M/100Mbps self-adaptive Ethernet port Connect to the network cable.
5	HDMI 1/2	High-definition audio and video signal output port It transmits uncompressed high-definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
6	VGA	VGA video output port Output analog video signal It can connect to the monitor to view analog video.
7	RS232	RS232 port
8	USB port	USB port Connect to mouse or USB storage device
9	eSATA	Hard disk port
10	Alarm Input/Output RS485	Receive signals from external alarm source C is COM port. There is one channel of alarm in; There are eight channels of alarm out. When your alarm input device is using external power, make sure the device and the NVR have the same GND. A is RS485 +, B is RS485 -.
11	⏚	GND
12	Power switch	Power on/off button.
13	Power input port	Power socket. The redundant powers.

Mouse Operation

Refer to the following sheet for mouse operation instruction.

Table 12 Mouse Operation Instruction

Operation	Description
Left click mouse	When you have selected one menu item, left click mouse to view menu content.
	Modify checkbox or motion detection status.
	Click combo box to pop up drop-down list
	In input box, you can select input methods. Left click the corresponding button on the panel you can input numeral/English character (lower case/upper case). ␣ stands for space button, ← stands for deleting the previous character. ⇧ switch the case and special character, as shown in figure.

Operation	Description
Double left click mouse	Implement special control operation such as double click one item in the file list to playback the video.
	In multiple-window mode, double left clicks one channel to view in full-window. Double left clicks current video again to go back to previous multiple-window mode.
Right click mouse	In real-time monitor mode, goes back to home menu.
	Exit current menu without saving the modification.
Slide middle button	Switch the items in the check box, such as switch languages.
	Page up or page down, such as add cameras.
Move mouse	Select current control or move control.
Drag mouse	Select motion detection zone/ intelligent analysis zone.
	Select schedule manually.
	Select privacy mask zone.

CHAPTER

2 GETTING STARTED

This chapter contains the following sections:

- Unpacking the NVR, page 13
- Connecting External Devices, page 13
- Starting and Shutting Down the NVR, page 17
- Device Initialization, page 19
- Device Wizard, page 21
- Resetting Password, page 26
- Home Page, page 28
- Mute Buzzer, page 28
- Two-way Talk, page 29

Unpacking the NVR

Before you set up the NVR, make sure that you have received the following items:

- Quick Installation Guide
- Quick Certificate Installation Guide
- Mouse
- Power adapter and cable
- Terminal block connectors (The actual product shall prevail.)
- Screws

If any of the items listed above are missing or damaged, contact your Honeywell dealer immediately.

Connecting External Devices

1. Connect the cameras

Connect the network cables from the cameras to the PoE port (The NVR need to support PoE port) or router.

Note: *The router cannot be directly connected to the PoE port.*

2. Connect the monitor

Connect a VGA cable (not supplied) to the VGA interface and/or an HDMI cable (not supplied) to the HDMI interface. Connect the other end to a monitor (do not use a TV). Simultaneous VGA and HDMI output is supported.

3. Connect the mouse

Connect the supplied USB mouse to the USB 2.0 interface.

4. Connect the Ethernet cable

Connect the supplied CAT5e Ethernet cable to the network port. Connect the other end to a router on your network.

5. Connect audio devices (if applicable)

To record audio, connect the audio sources to the AUDIO IN connectors. To play audio, connect an audio output device (low-impedance headphones, speaker, or amplifier) to the AUDIO OUT connector.

6. Connect alarm devices (if applicable)

Connect alarm devices to the alarm in/out interface. If the alarm inputs use external power, the device must have the same ground as the NVR.

7. Connect a PTZ camera (if applicable)

Your embedded NVR communicates with PTZ cameras through the Network. Ensure that your camera is correctly connected to the Network.

8. Connect the power cable

Connect the supplied 12 V DC (Depend on models, DC12V(3A) /DC 52V /AC 220V please refer to actual product) power adapter to the power input. Use of an uninterruptible power supply (UPS) is strongly recommended.

Devices Connection

The following diagram shows a typical NVR connection:

Figure 11 Devices Connection (HN351604xxR)

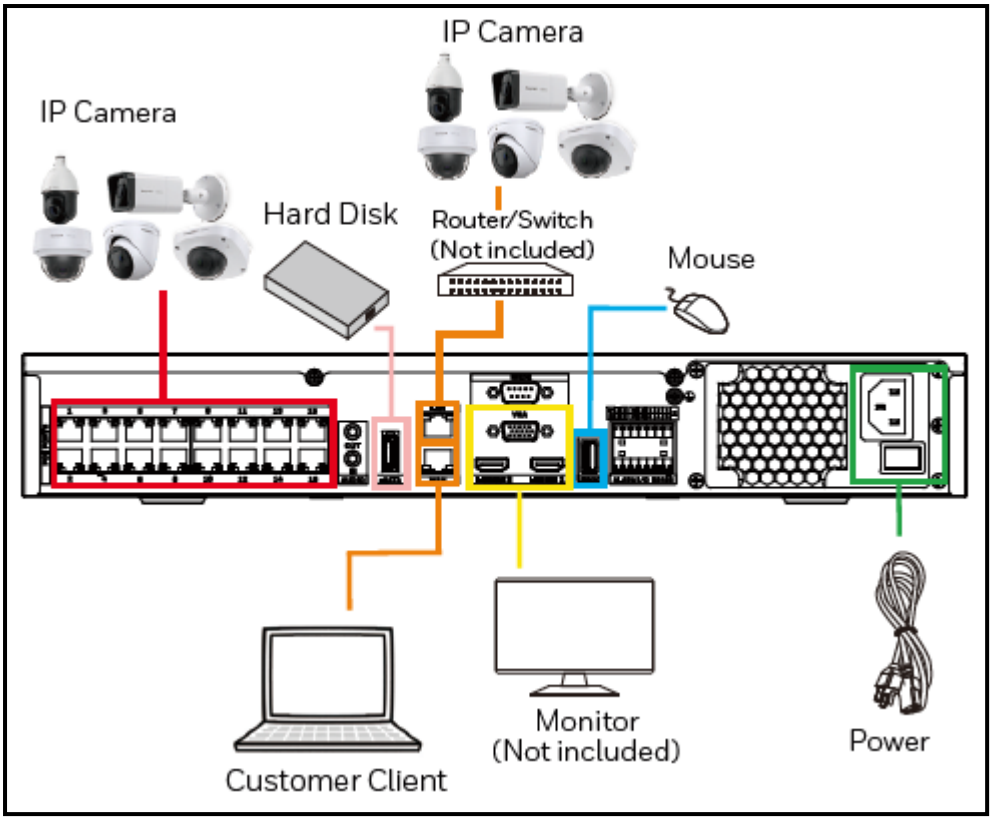


Figure 12 Devices Connection (HN353204xxNR)

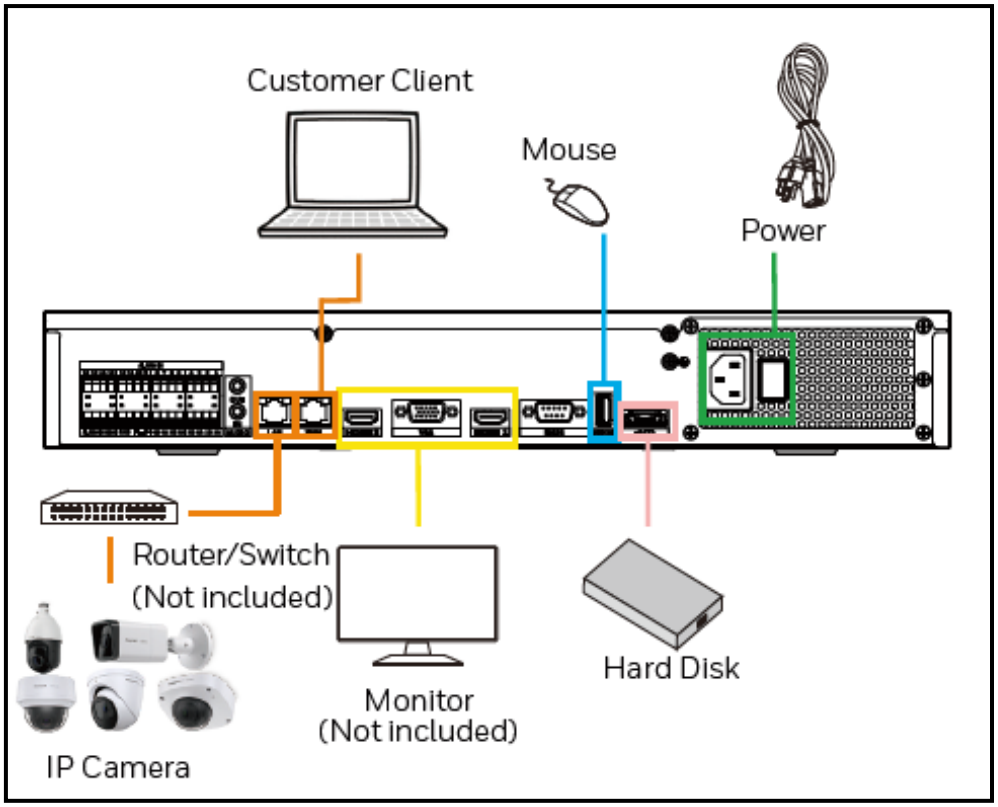


Figure 13 Devices Connection (HN353204xxNR)

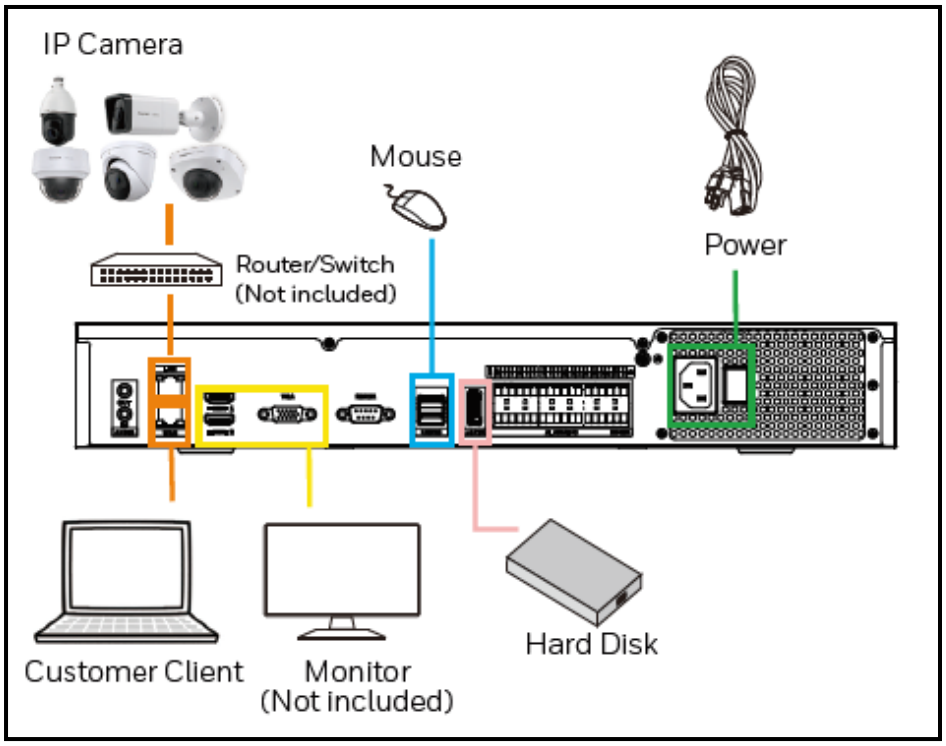


Figure 14 Devices Connection (HN356408xxNR/HN353208xxNR)

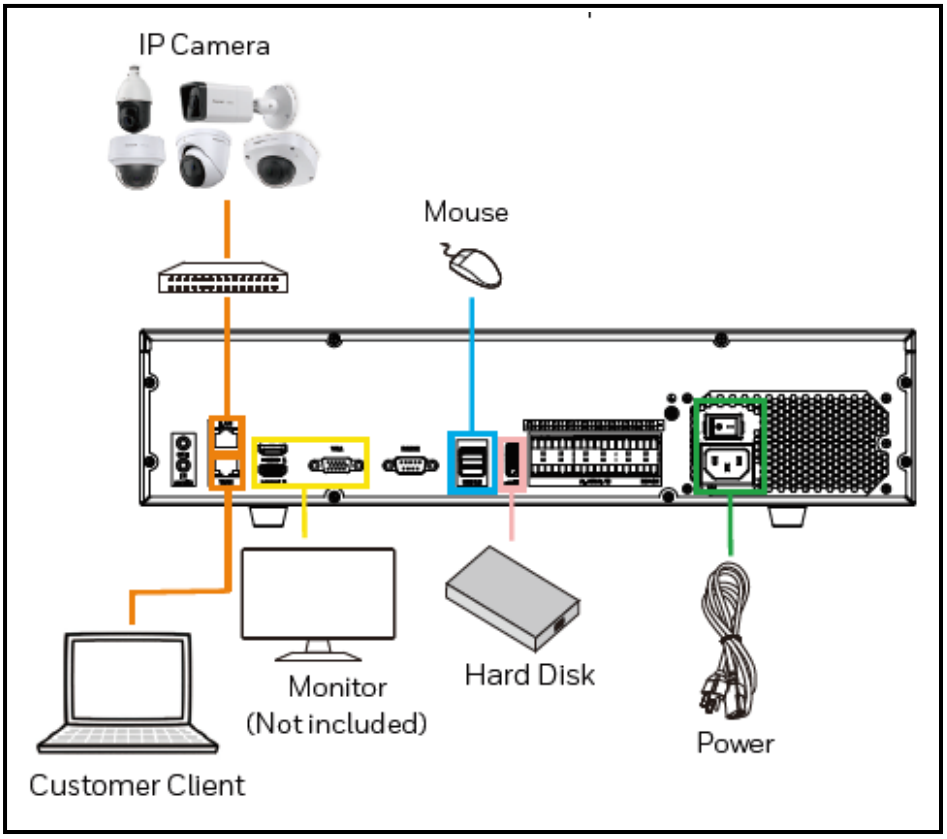
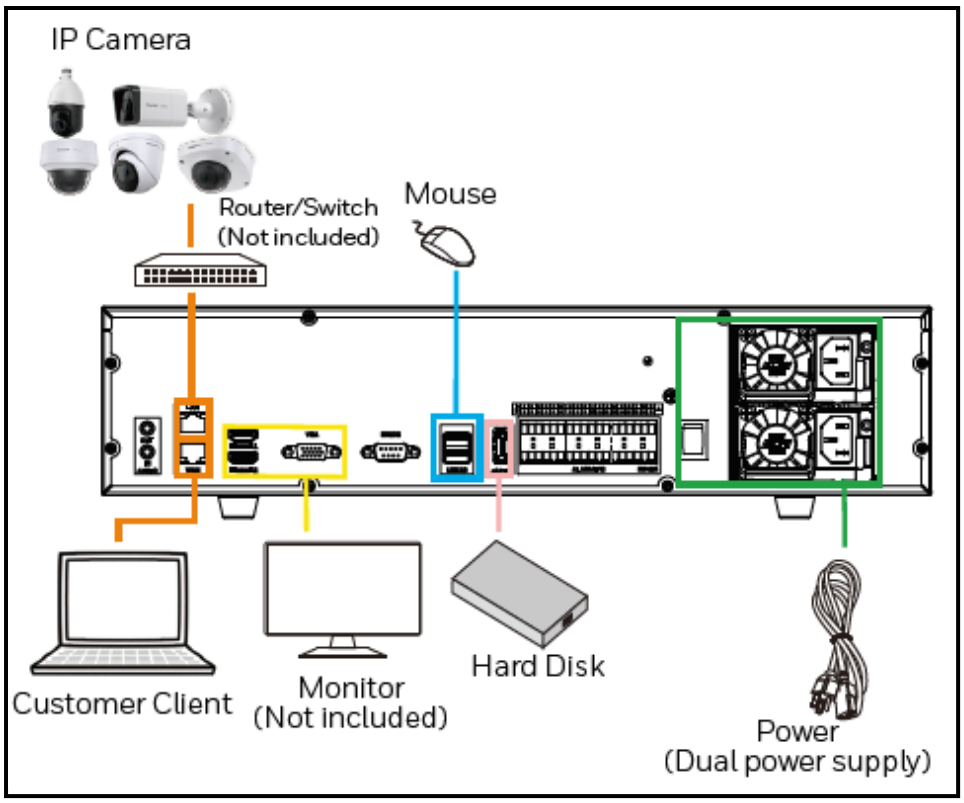


Figure 15 Devices Connection (HN356408xxDR)



Starting and Shutting Down the NVR

Starting the NVR

1. Make sure that the NVR is connected to an appropriate power source.
2. Turn on the power switch on the rear panel to start the NVR.

Note: The beep at startup is normal.

Shutting Down the NVR

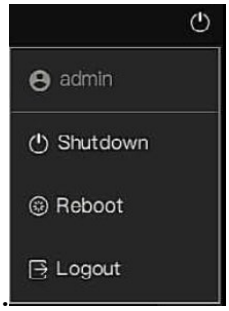
Note: To shut down the NVR, you must be logged in as the admin user or have shutdown privileges assigned to you.

To prevent damage to the hard drive, follow these steps to shut down the NVR:

1. In live view mode, right-click anywhere on the screen to display Main Menu. Or click home menu icon at bottom of live view page to enter

the Main Menu page.

2. Go to Main Menu > System > Maintenance, click Shutdown. Or click in the upper right corner and click Shutdown.



3. In the Shutdown window, click OK.

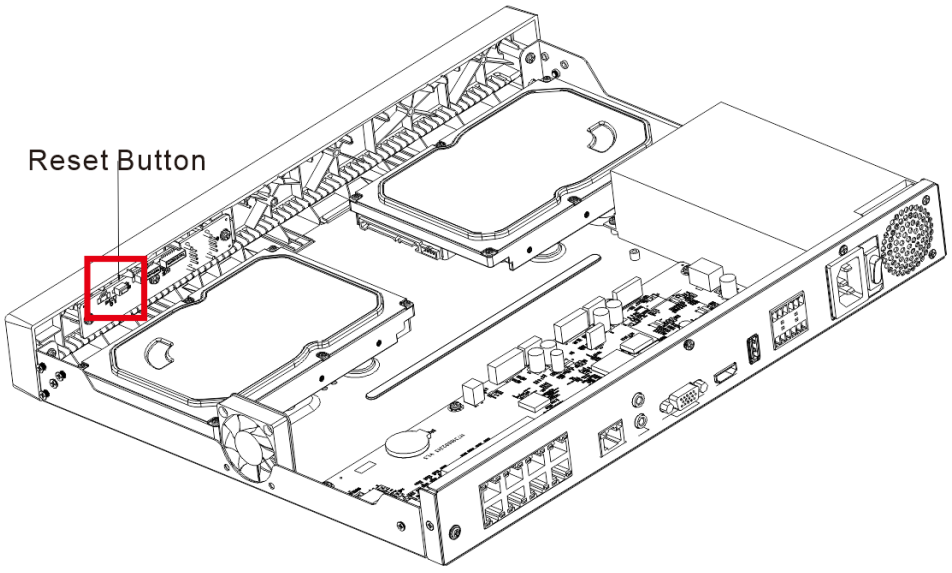
Reset Button

You can use the reset button on the light PCB board to reset the device to the factory default settings.

1. Disconnect the device from power source, and then remove the cover panel.
2. Find the reset button on the light PCB board.
3. Connect the device to the power source again and long press the reset button for 5 to 10 seconds.

   The device restarts automatically.

Figure 16 Reset Button



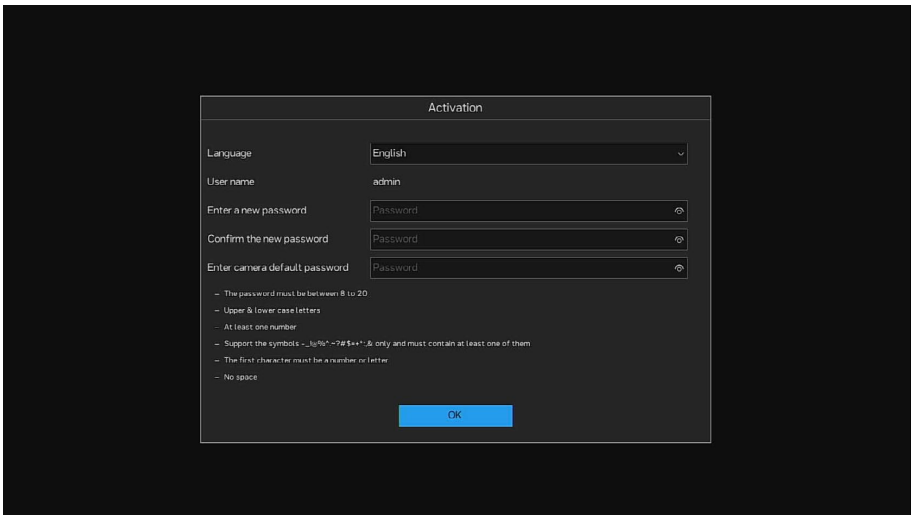
After the device is restarted, the settings have been restored to the factory default. You can start resetting the password.

Device Initialization

- If it is your first time to use the device, set a login password of admin (system default user) and a channel default password. You can select to use unlock pattern to login as needed.
- Input the ask to recovery the password, there are many questions you can choose three questions to ask.
- For your device safety, keep your login password of admin well after the initialization steps, and change the password regularly.

1. Activate NVR.

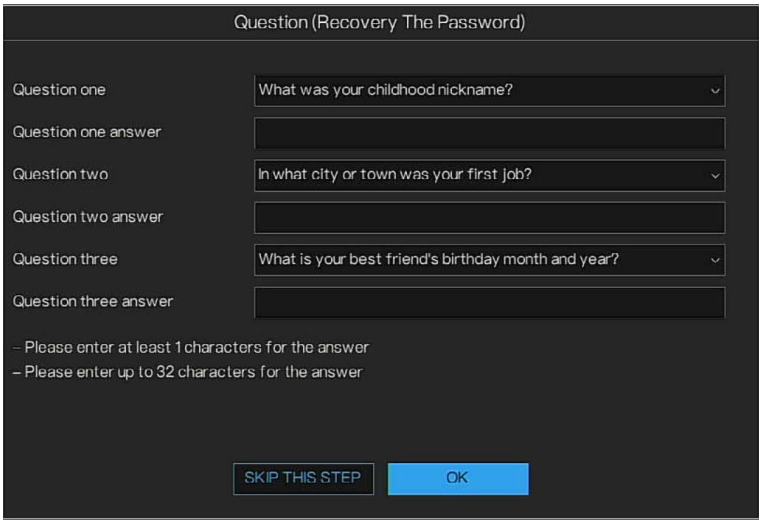
Figure 17 Device Activation



2. Answer question to recover password. When you forget the password, answer the setting question to enter the password resetting page.

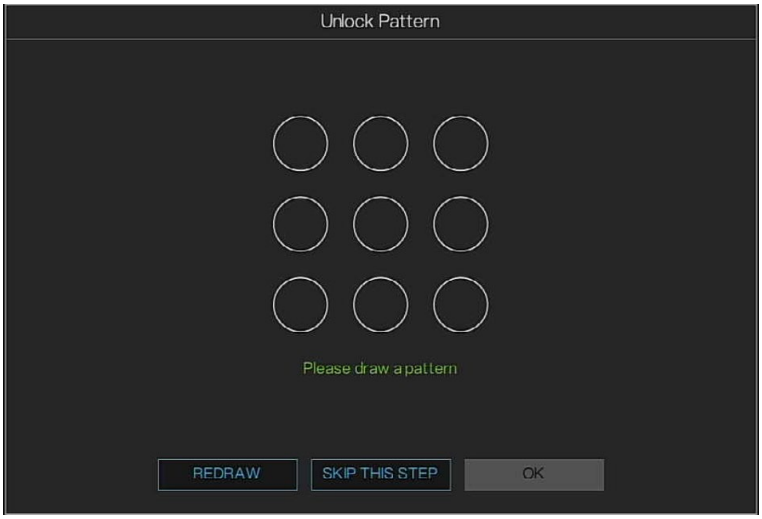
Note: *If you don't want to set the question, you can skip the steps and the login window will not show the Forget password button. Honeywell recommends user to set the questions in case you forget the password.*

Figure 18 Question (Recovery the Password)



3. Set the Unlock Pattern.

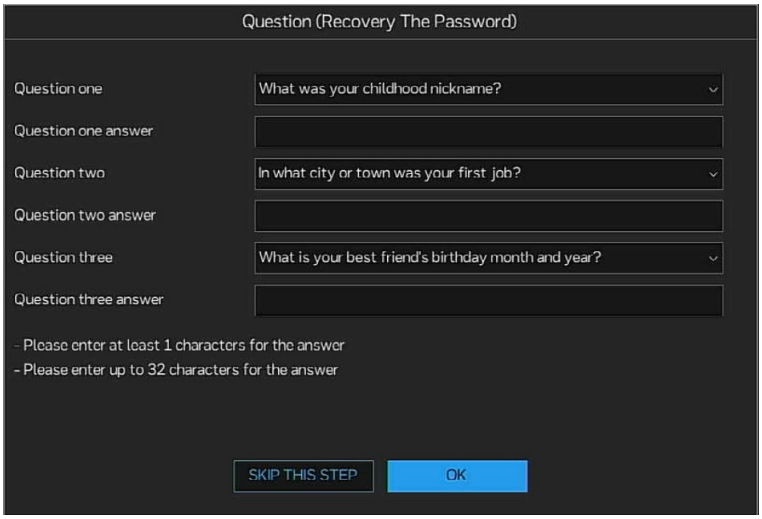
Figure 19 Set Unlock Pattern



After setting **Question (Recovery Password)**, the **Unlock Pattern** interface is displayed

- If you do not want to configure the unlock pattern, click **SKIP THIS STEP**.
- Once you have configured the unlock pattern, the system will require the unlock pattern as the default login method. The unlock pattern requires at least 5 points. If you skip this setting, enter the password for login.

Figure 20 Recover the Password



After answering three questions correctly, you can enter the reset password window.

Device Wizard

After the device initialization, the **Setup Wizard** opens.

Figure 21 Startup Wizard

Using the wizard, you can:

- Configure the network settings
- Configure date and time, time zone DST
- Configure P2P
- Search for and add IP cameras
- Configure Disk Manager

- Set resolution

1. Click SETUP WIZARD in the Setup Wizard window. Set Network according to the actual environment on the Network page, and then click Next.

- If the device has WAN and LAN port, you can set the both ports at **Setup Wizard** window.

Figure 22 Network --WAN

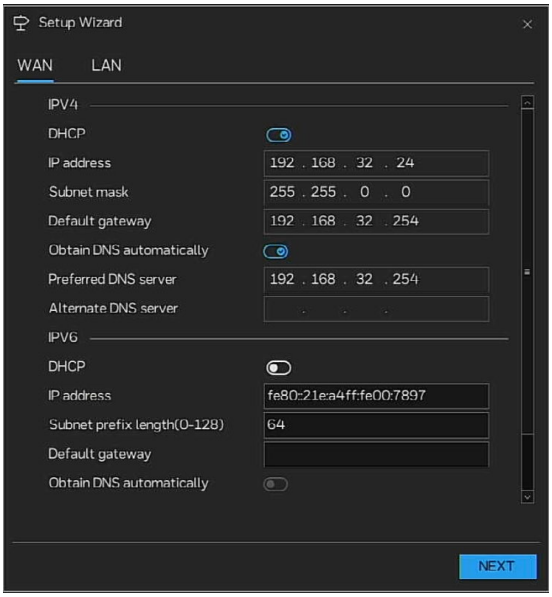
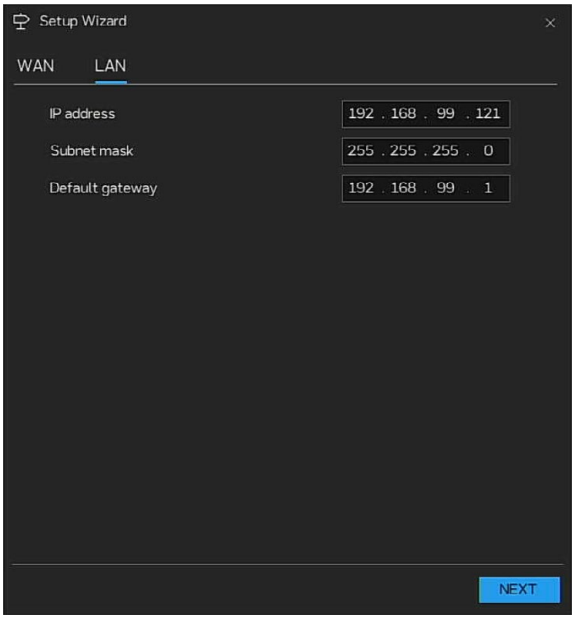


Figure 23 Network --LAN



2. Set Date and Time, Time Zone, DST according to actual environment, and then click Next.

Figure 24 Setup Wizard – Date and Time

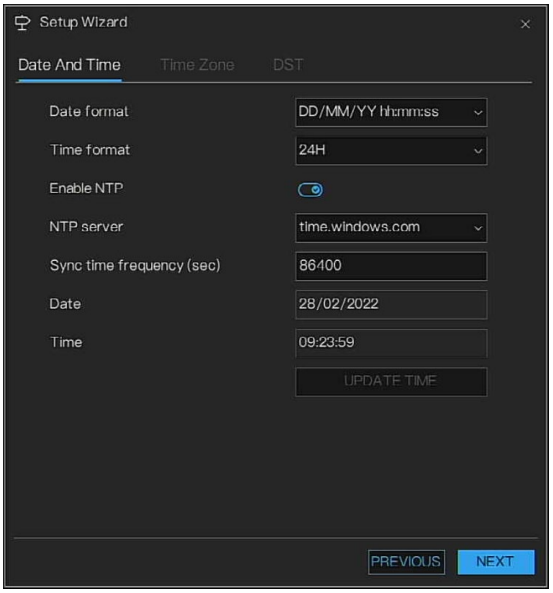


Figure 25 Setup Wizard –Time Zone

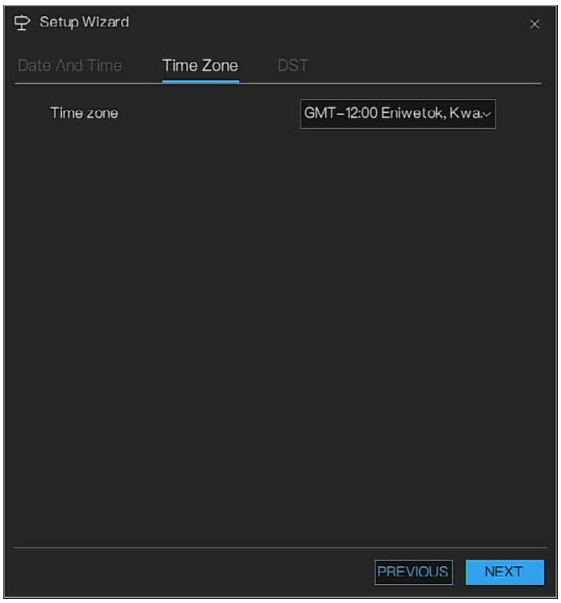
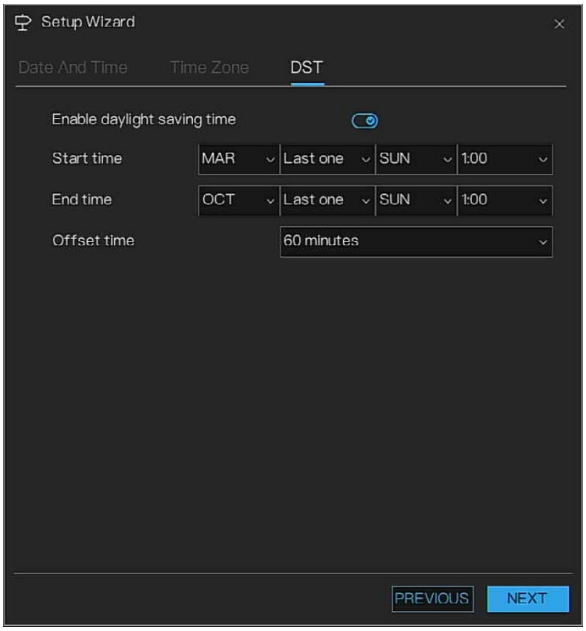
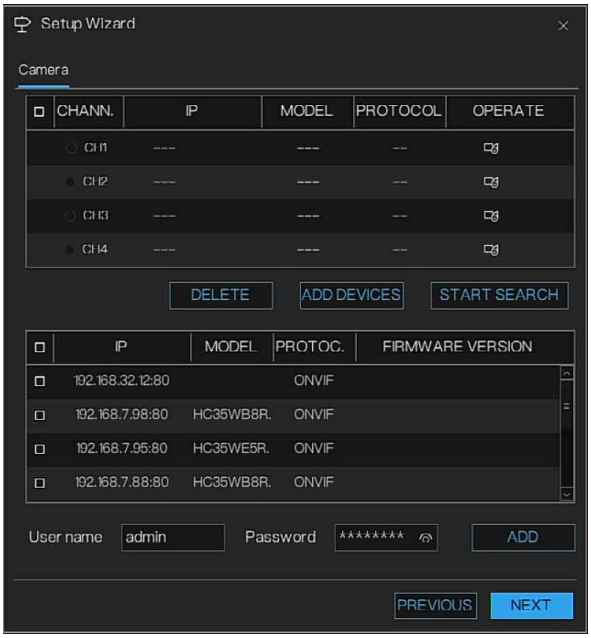


Figure 26 Setup Wizard –DST



3. Set Camera information.

Figure 27 Setup Wizard –Camera

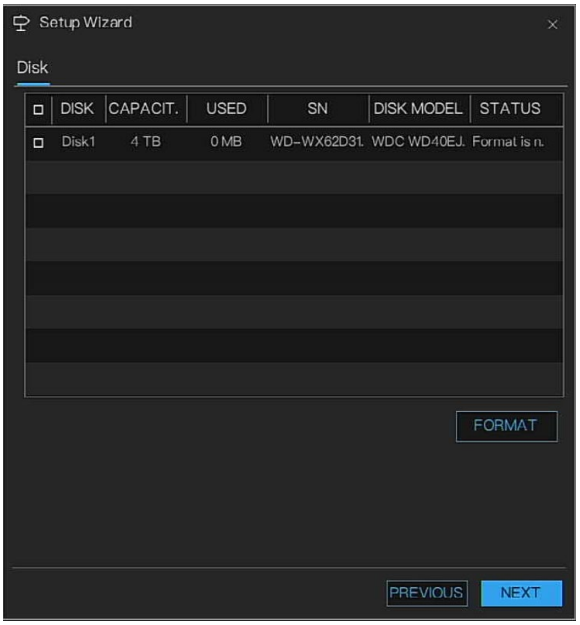


Click **NEXT** directly if camera is connected to NVR with plug and play.

Or click **STRAT SEARCH** to search cameras. Select the searched cameras and enter the user name and password to add cameras. Set the TLS mode. Click **NEXT**.

4. Format the disk.

Figure 28 Setup Wizard – Disk

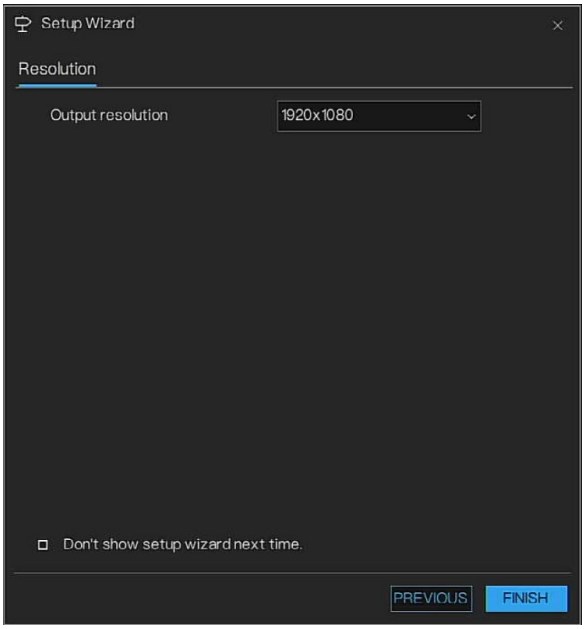


5. Click NEXT to view the P2P information. If the NVR is online, you can add the NVR to HSV by scanning the P2P ID.

Figure 29 Setup Wizard – P2P

6. Click NEXT. Set Resolution.

Figure 30 Setup Wizard – Resolution



Note: *Check the checkbox for Don't show setup wizard next time, when users turn on the NVR enter Live view interface directly.*

7. Click FINISH to save settings.

Resetting Password

If you forgot the admin password, you can reset the password by answering the security questions.

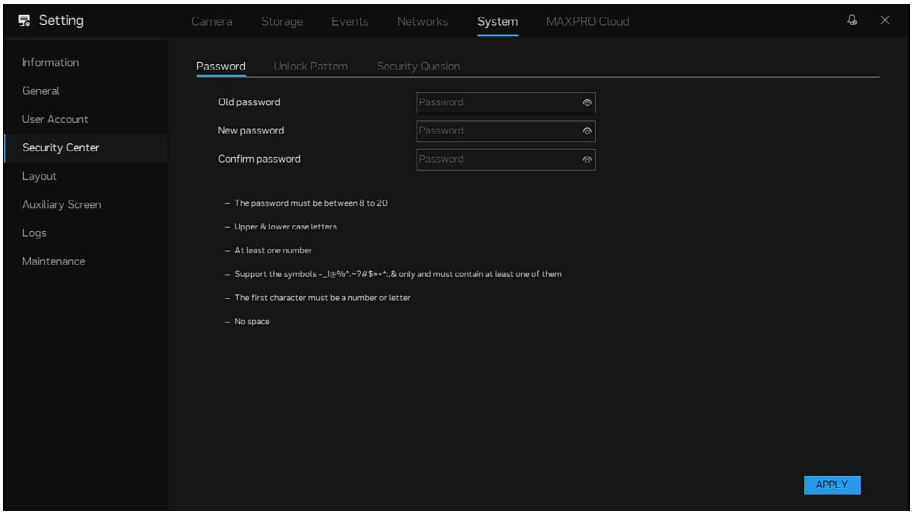
Note: *To reset password by answering the security questions, you need configure this password resetting function in advance. Refer to Device Initialization or Security Question.*

Enabling Password Reset Function

1. Go to Main Menu > System > Security Center > Password.

   The password reset interface is displayed.

Figure 31 Reset Password



2. Input the old password, and create a new password and confirm it.
3. Click APPLY to set settings.

Resetting Password on Local Interface

1. Enter the Login interface.

- If you have configured unlock pattern, the unlock pattern login interface is displayed. Click **Password**, the password login interface is displayed.
- If you did not configure unlock pattern, the password login interface is displayed.

2. Click Forgot Password. Set the parameters according to the instruction on the pages.

Figure 32 Password Reset 1

3. Set new password.

   In the New Password box, enter the new password and enter it again in the Confirm Password box.

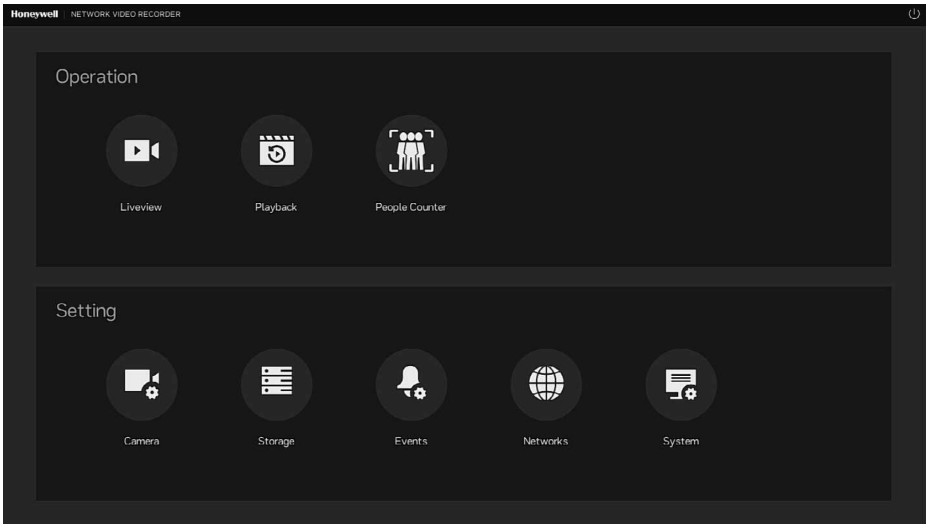
Figure 33 Password Reset 2

4. Click Modify password. The password resetting is complete.

Home Page

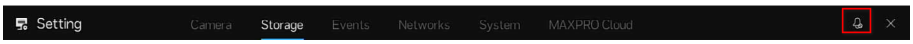
On live page, click to enter home page, or right-click to enter home page directly.

Figure 34 Home Page (With People Counter)



Mute Buzzer

On Setting interface, users can click to mute the buzzer quickly when the buzzer is working.



Two-way Talk

Device-end to IPC

Please connect the speaker or the pickup to the first audio input port on the device rear panel. Then connect the earphone or the sound box to the audio output port in the IPC.

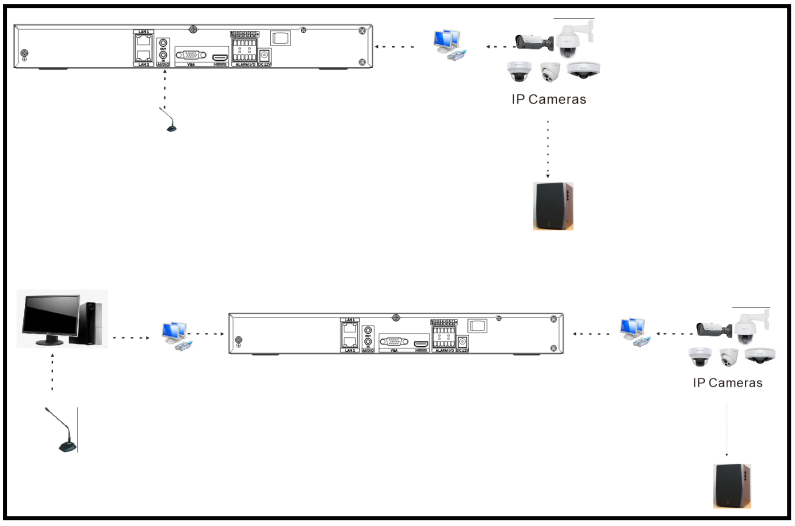
Click-left on live video, quick menu shows.

Figure 35 Enable Two-way Talk

Please refer to the following interface to enable two-way talk.

At the device end, speak by the speaker or the pickup, and then you can get the audio from the earphone or sound box at the IPC-end.

Figure 36 Device to IPC



IPC-end to the Device-end

Device Connection

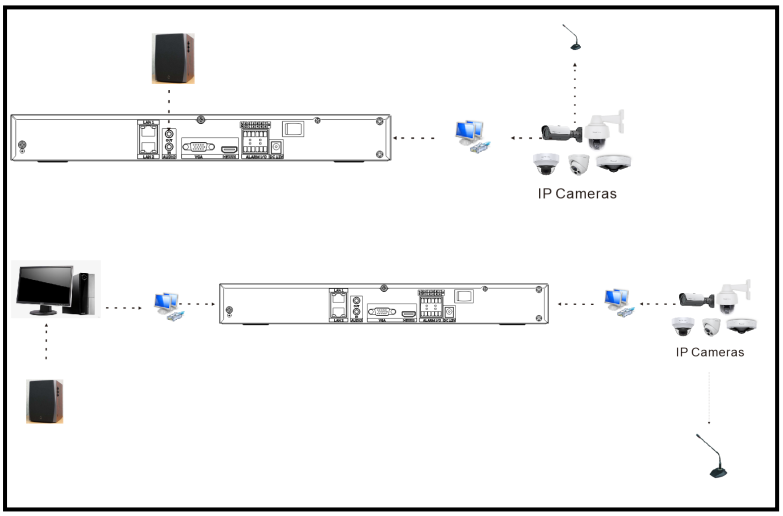
Connect the speaker or the pickup to the audio output port in the IPC and then connect the earphone or the sound box to the first audio input port in the device rear panel.

Login the Web and then enable the corresponding channel real-time monitor.

Listening Operation

At the IPC-end, speak by the speaker or the pickup, and then you can get the audio from the earphone or sound box at the device-end.

Figure 37 IPC to Device



CHAPTER

3 LOCAL BASIC OPERATION

Note: Slight difference may be found on the user interface. The following figures are for reference only.

This chapter contains the following sections:

- Configuring Camera, page 31
- Configuring Storage Settings, page 41
- Configuring Events Settings, page 52
- Configuring Network Settings, page 70
- Configuring System Settings, page 87
- Configuring Live View Settings, page 105
- Playback, page 111
- Configuring People Counter, page 116

Configuring Camera

Camera

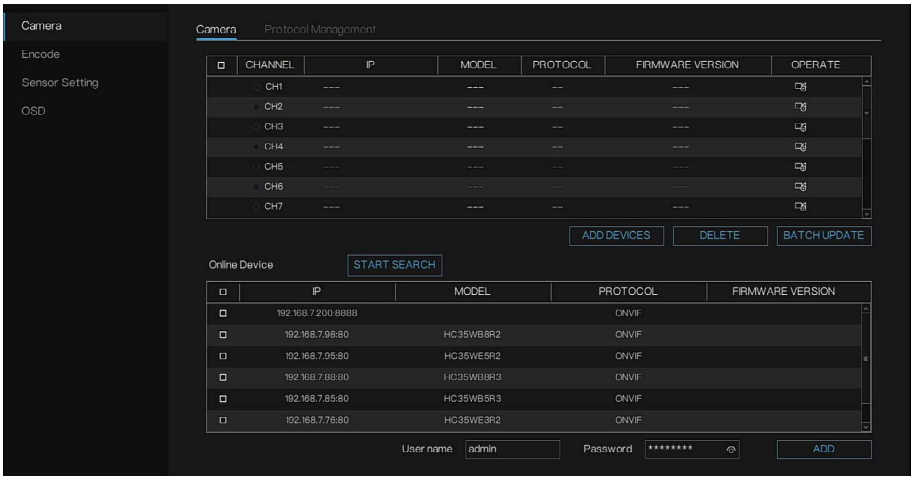
Adding Camera

When you connect a camera to the NVR via PoE port, NVR automatically initializes the camera. The NVR can activate and create new passwords for new cameras, the password is the same as the created channel password (Figure 17 Device Activation)

By adding remote devices to the NVR, you can view the video on the NVR, and manage and storage the video file. Different series products support different remote device amount.

1. Go to Main Menu > Camera > Camera.

Figure 38 Add Camera



2. Add cameras.

   a. Click START SEARCH.

      The devices found are displayed at the upper pane. Devices already added do not show in the searched results.

   b. Select the devices and click ADD Devices to register cameras on the online device list directly.

      On the pop-up window, select YES/NO to use TLS connection or not for adding devices. If you use TLS connection, the total bitrate of all channels should be less than 40M. If the total bitrate exceeds 40M, the system will reminder “TLS bitrate exceeded” and you should choose NO for not using TLS on the pop-up window.

Note:

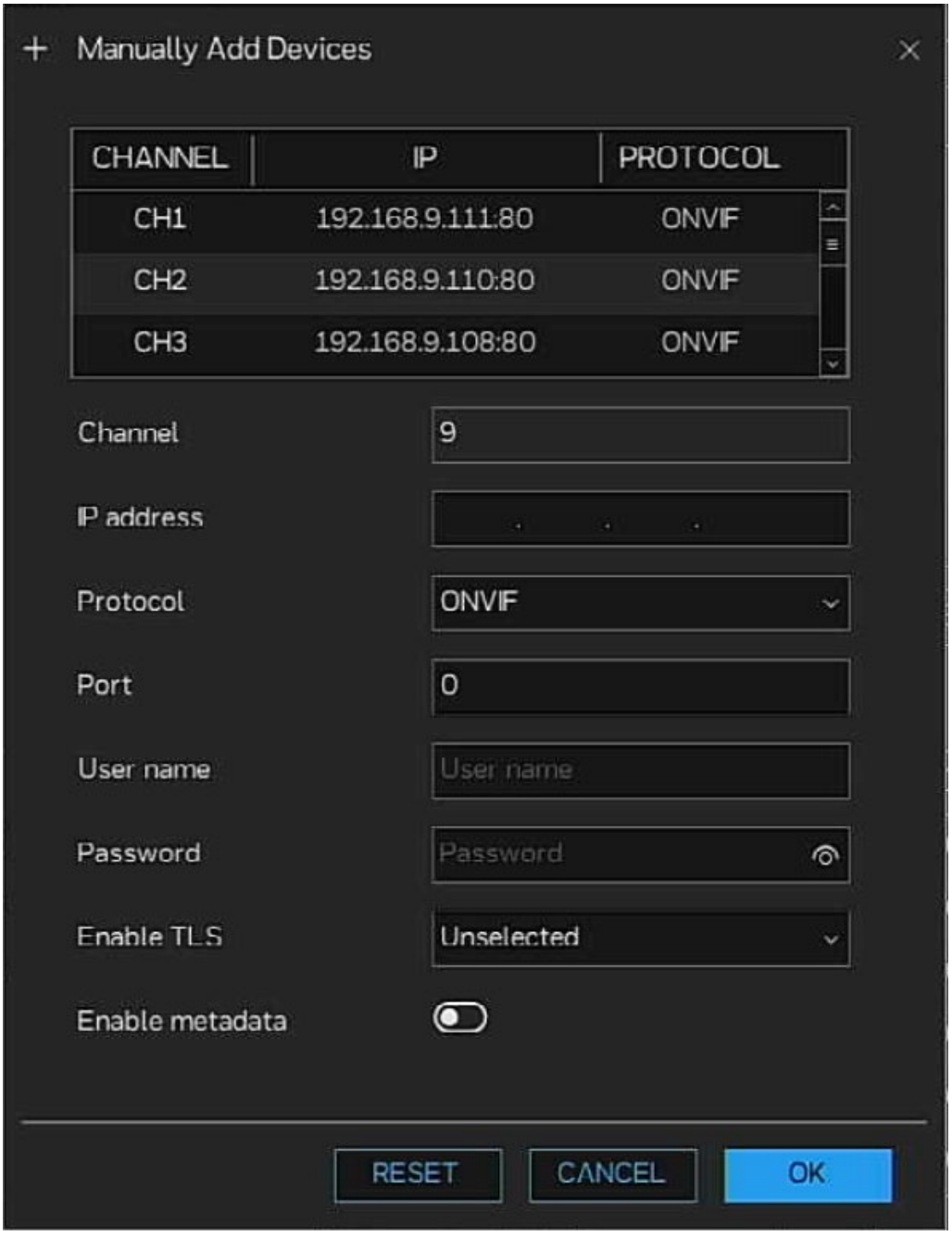
- *The number of adding cameras should meet the captivity of NVR. When the cameras exceed the captivity, the channels will not be added.*
- *The encrypted connection can support up to 40 Mbps. If the encrypted connection reaches 40 Mbps, the unencrypted connection can only support up to 40 Mbps.*
- *The 30/60 series IP cameras cannot be connected to PoE port directly, you should set the password at IP cameras’ web interface, and the password should be same as channel password of NVR.*
- *Once the PoE cameras are added, they cannot be deleted manually at NVR UI interface. You can unplug the PoE network cables to delete.*
- *At Network > Failover interface, the mode is set redundant, the camera management, record schedule and storage mode modules are disabled.*

Manually Add Devices

a. On the Channel list, click .

   The Manually Add Devices interface is displayed.

Figure 39 Manually Add Devices



b. Configure parameters.

Table 13 Remote Channel Parameters

Parameter	Description
Channel	-
IP address	In the **IP address** box, enter the IP address of the remote device. The user can click the added channel to copy the channel information and then modify information, such as the remote channel.
Protocol	ONVIF /RTSP1-16
RTSP Port	The default value setting is 554. You can select the value according to your actual situation.

Parameter	Description
HTTP Port	The default value setting is 80. You can enter the value according to your actual situation. If you enter other value, for example 70, you should enter 70 after the IP address when logging in the device by browser.
User name	Enter the user name of the remote device.
Password	Enter the password of the user for the remote device.
Remote CH No.	Enter the remote channel number of the remote device that you want to add.
Enable TLS	If the remote device is added through the ONVIF protocol, enabling **TLS** will provide encryption protection to the data transmitted. Choose **YES**, the port will be 443; Choose **NO**, the port will be 80. To use this function, the HTTPS function should be enabled for the remote IP camera.
Enable metadata	This function is used when the device is connected to platform of Honeywell; When the channel camera is enable, the live video will show capturing human face boxes.

Note: Choose the protocol from the drop-down list, the protocol is set at protocol management interface. The cameras should be confirmed to the protocols.

c. Click OK.

The remote device information is displayed on the **Added Device** list.

You can click to change the remote device information. Click to delete remote device.

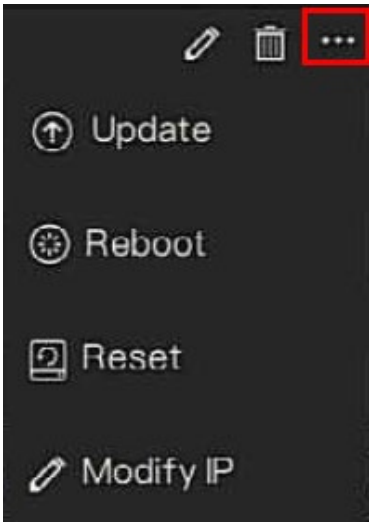
You can also add cameras on the live view interface by clicking on the channel window.

UI local Update

You can upgrade the connected network camera firmware.

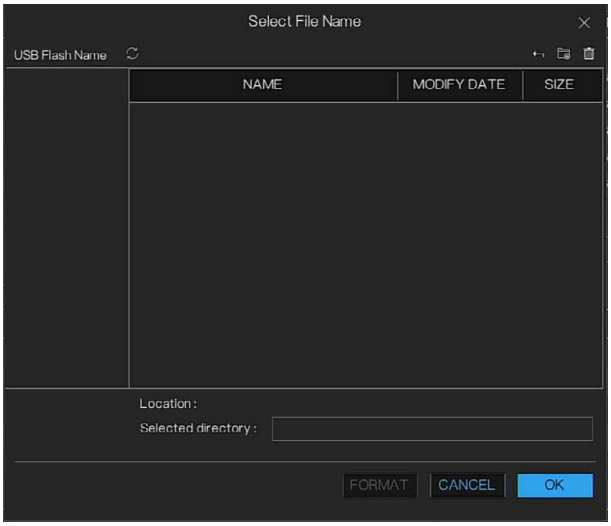
1. Plug in USB disk with the camera firmware.
2. Go to Main Menu > Camera > Camera. When the camera is online, click .

Figure 40 Update Interface



3. Update the firmware of the connected cameras.
   a. Select update file on the pop-up interface.

Figure 41 Select File



   b. Select the update file and then click OK.

After successful operation, system prompts update successful dialogue box.

If there are too many same model cameras, select the cameras as needed, and click **BATCH UPDATE**. Choose firmware file in the pop-up interface.

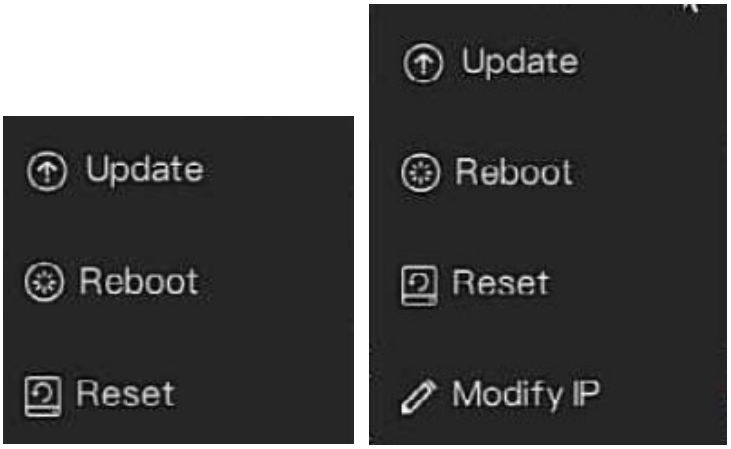
If you want to update the cameras remotely and the NVR can be accessed by Web, you can update cameras at remote port.

For cameras connected with NVR by non-PoE port, select the camera(s) on channel list and click **DELETE** to delete cameras in batch. Or click to delete the selected cameras. Cameras added by PoE port of NVR cannot be delete here.

Operating online channel

1. Go to Main Menu > Camera > Camera. When the camera is online, click ....
2. Click Update/Reboot/Reset to configure the cameras. For remote network added cameras, you can click Modify IP to set the IP information.

Figure 42 Operating Online Channel



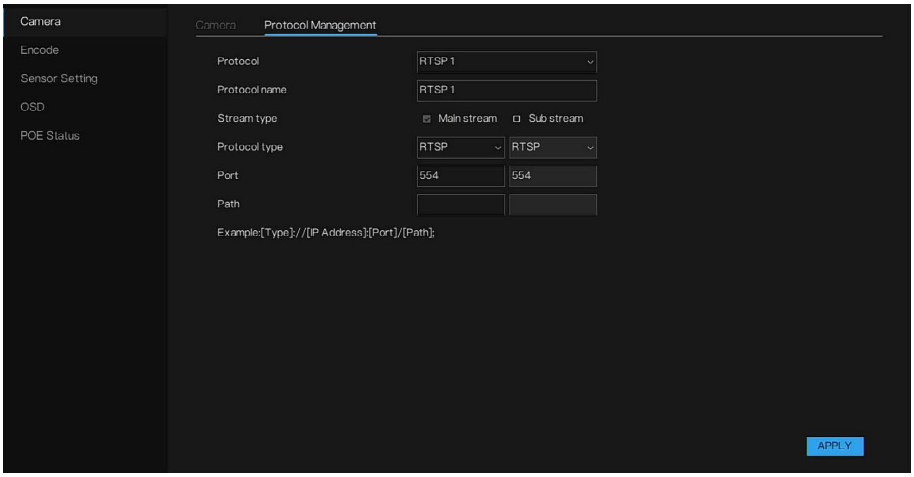
- Click Update to update the camera information.
- Click Reboot. In the pop-up window “Are you sure reboot”, click OK to reboot the camera.
- Click Reset. Enable or disable Reserve IP address. Click OK to reboot the camera.
- Click Modify IP. Enter the IP address and Subnet mask Click OK.

Protocol Management

If the user wants to add the different protocol cameras to NVR, you can set the protocol management, and add cameras one by one.

1. Go to Main Menu > Camera > Camera > Protocol Management. The Protocol Management interface is displayed.

Figure 43 Protocol Management



2. Choose the custom protocol from the drop-down list.
3. Input the protocol name.
4. Select main stream and sub stream. The main stream shows image on full screen live video. The sub stream shows image on split screen. If you only select main stream, the channel will not show image on split screen.
5. Choose the type of protocol. The default value is RTSP. Input the port which depends on the IP camera.
6. Input the path, it depends on the manufacturer of cameras.
7. Click APPLY to save the settings.

Encode

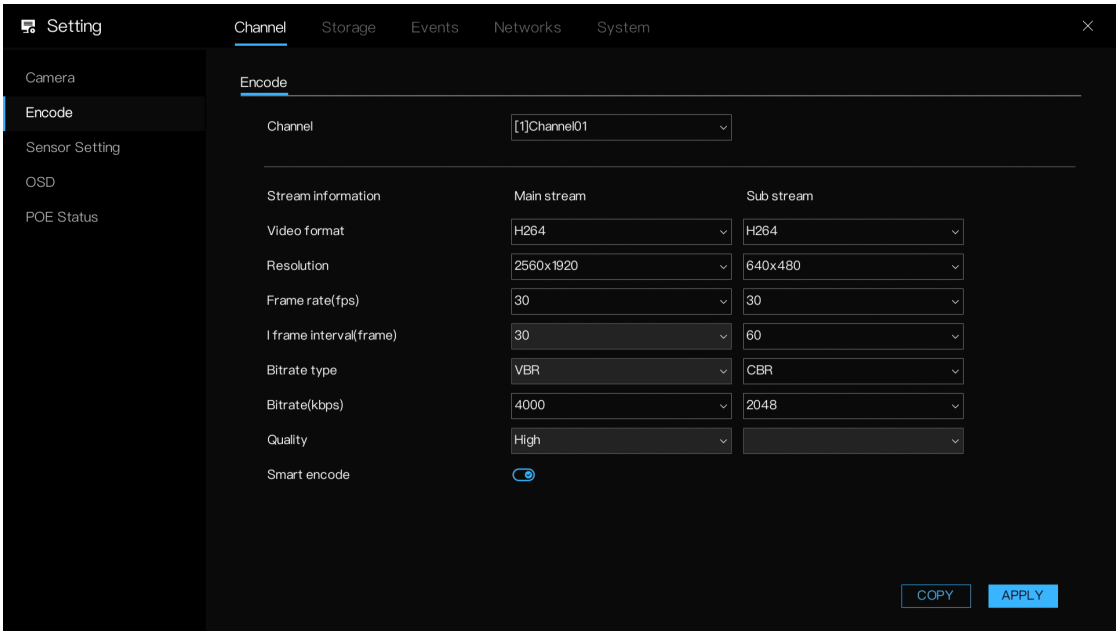
You can set video bit stream parameters such as video format, resolution, frame rate(fps), and so on.

Note: All models support two streams: main stream and sub stream. The sub stream maximally supports D1.

1. Go to Main Menu > Camera > Encode.

   The Encode interface is displayed.

Figure 44 Encode



2. Configure parameters.

Note: If you modify the Video format and Resolution, the device needs about 10 seconds to go online again and other operations during this period may result in failure for getting parameters.

Table 14 Audio/Video Parameters

Parameter	Description
Channel	In the **Channel** list, select the channel that you want to configure the settings for.
Smart encode	Enable the smart encode function to reduce the video bit stream for non-important recorded video to maximize the storage space. For some models, smart encode can be set for sub stream.
Video format	In the **Compression** list, select the encode mode. H.265: Main profile encoding. This setting is recommended. H.264: Main profile encoding.
Resolution	In the Resolution list, select resolution for the video. The maximum video resolution might be different dependent on your device model.
Frame rate (fps)	Configure the frames per second for the video. The higher the value is, the clearer and smoother the image will become. Frame rate changes along with the resolution. Generally, in PAL format, you can select the value from 1 through 25; in NTSC format, you can select the value from 1 through 30. However, the actual range of frame rate that you can select depends on the capability of the device. The NVR supports up to 30 fps, if the adding cameras' capability are over 30 fps, the NVR will degrade them to 30 fps.
I frame interval(frame)	The interval between two reference frames.

Parameter	Description
Bitrate type	In the **Bit Rate Type** list, select **CBR** (Constant Bit Rate) or **VBR** (Variable Bit Rate). If you select **CBR**, the image quality cannot be configured; if you select **VBR**, the image quality can be configured.
Bitrate(kbps)	Indicates the maximum value of the bit rate. You can input the value which can't be bigger than the biggest value from drop-down list), otherwise the value is invalid. Or you can choose value from drop-down list.
Quality	This function is available if you select **VBR** in the **Bit Rate** List. The bigger the value is, the better the image will become.

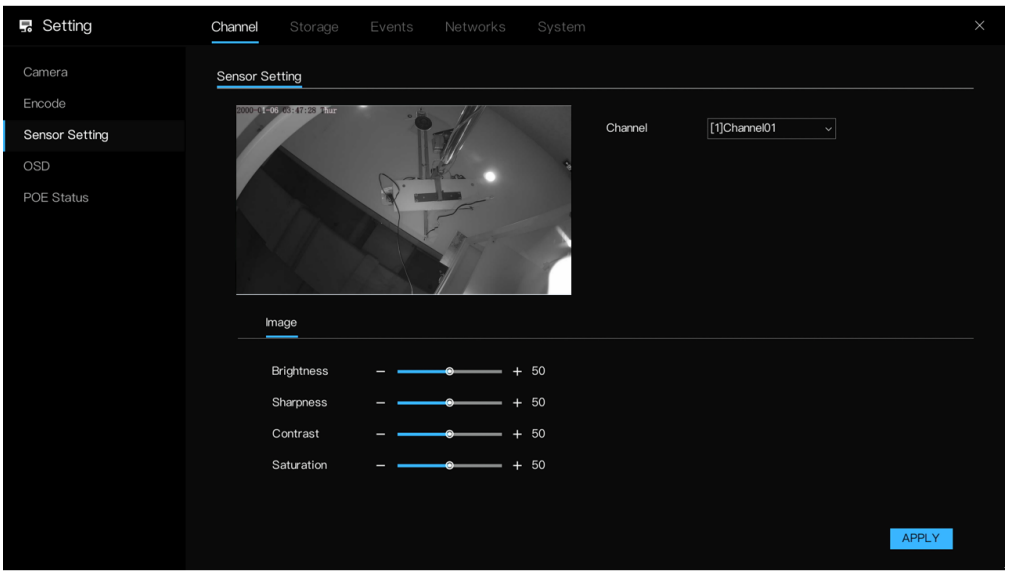
3. Click APPLY to complete settings.

Sensor Setting

1. Go to Main Menu > Camera > Sensor Setting.

The **Sensor Setting** interface is displayed

Figure 45 Image



2. Configure parameters.

Note: Different series network camera displays different parameters. The actual product shall prevail.

Table 15 Image Parameters

Parameter	Description
Channel	In the Channel list, select the channel that you want to configure.
Brightness	Adjusts the brightness according to actual environment.
Sharpness	Adjusts the sharpness according to actual environment.
Contrast	Adjusts the contrast according to actual environment.

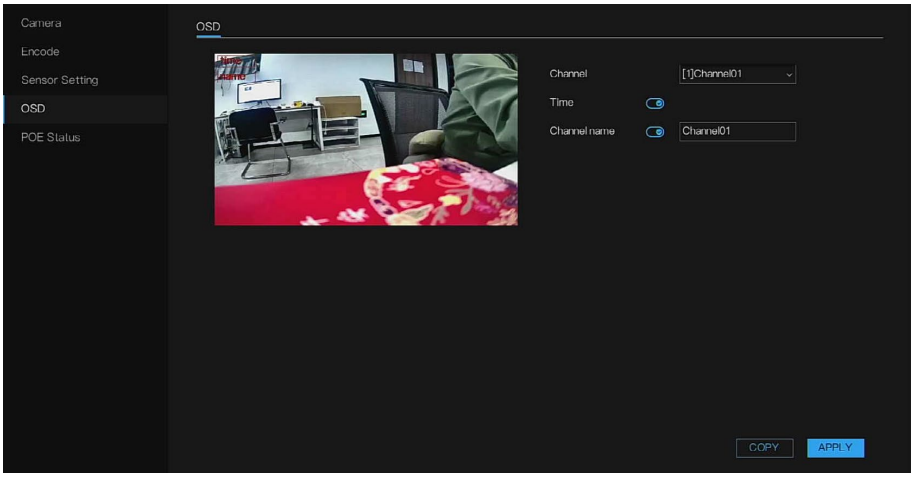
Parameter	Description
Saturation	Adjusts the color shades. The bigger the value, the lighter the color will become. Adjusts the saturation according to actual environment.

3. Click APPLY.

OSD

1. Go to Main Menu > Camera > OSD. The OSD interface is displayed.

Figure 46 OSD



2. In the Channel list, select a channel to set OSD.
3. Enable Time to display. Enable Channel name to display and input the channel name to distinguish different locations' cameras.

   The display box is displaying at top left of screen. Click and drag display box of time(channel) to move to a specified location.

Note: To modify the format of displaying time, go to Main Menu > SYSTEM > General > Date and Time to set. Refer to Date And Time for detailed information.
The channel name supports up to 32 characters

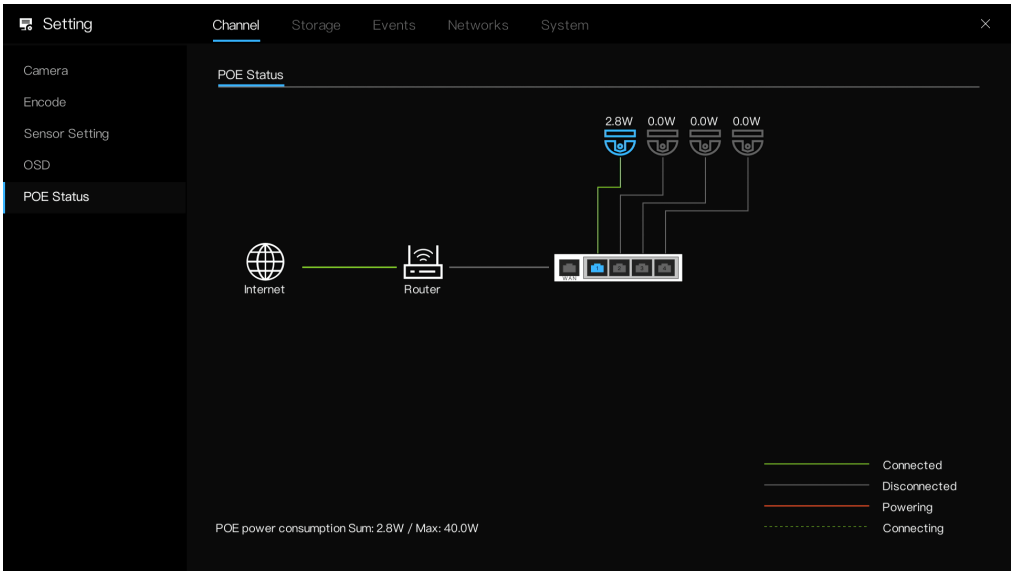
4. Click APPLY to complete settings.

POE Status

This function is only applicable for the PoE NVR.

1. Go to Main Menu > Camera > POE Status.
2. Check the status of POE. The POE Status interface is displayed.

Figure 47 PoE Status



Configuring Storage Settings

You can manage the storage resources (such as storage mode) and storage space. So that it is easy for you to use and enhance storage space usage.

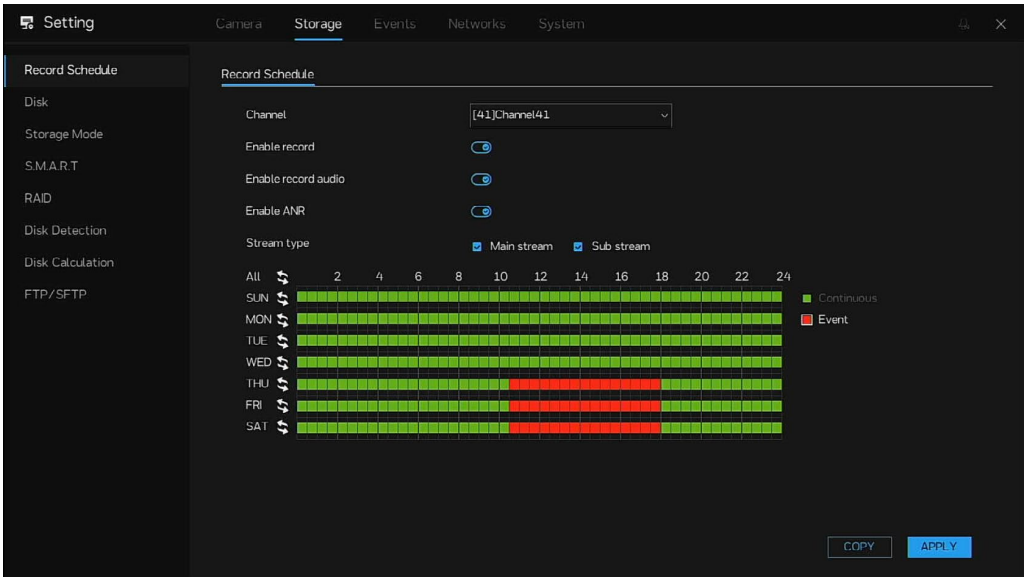
Record Schedule

After set schedule record, device can record video file according to the period you set here. For example, the alarm record period is from 6:00–18:00 Monday, device can record alarm video files during 6:00–18:00.

All channels are record continuously by default. You can set customized record period and record type.

1. Go to Main Menu > Storage > Record Schedule.

Figure 48 Record Schedule



2. Select a channel from the drop-down list, you can set different record plans for different channels. Select COPY to copy settings for other channels.
3. Enable record and record audio.
4. Enable ANR (Auto Network Recording). If the camera is installed with an SD card and is disconnected from the network, the NVR can read the recording of camera and copy the lost video form the SD card when the network is recovered.
5. Tick to choose main stream or sub stream.
6. Set the schedule of recording.

Figure 49 Record Type

Define the period by drawing.

a. Select a corresponding date to set.

b. On the timeline, left click mouse and then drag to define a period.

In Set Period by Drawing, users can set the continuous record or event record.

- Blue stands for continuous record.
- Red stands for event record.
- Select a record type and then left-click to set or click to set all day or all week. Left-click again to clear the corresponding period.

Note: The color schedule is only for view, the recording of disk cannot show these colors; There are only two types of recording.

Figure 50 Set Period by Drawing

Method 1: Hold down the left mouse button, drag and release mouse to select the arming time within 00:00-24:00 from Monday to Sunday.

Method 2: Click in the record schedule page to select the whole day or whole week.

Deleting record schedule: Click again or inverse selection to delete the selected record schedule.

- When you select time by dragging the cursor, the cursor cannot move out of the time area. Otherwise, no time would be selected.
- The selected area is blue. The default is all week.
- User can choose alarm type to record, if the chosen alarm is happening at the setting time, it will record. So that it will using the disk effectively to avoid repeating useless recording.
- The ANR function can be used only for the cameras with supplementary recording function.
- User can set different alarms to record.

7. Click APPLY to complete the settings.
   Enable auto record function so that the record plan can become activated. Refer to Storage for detailed information.

Disk

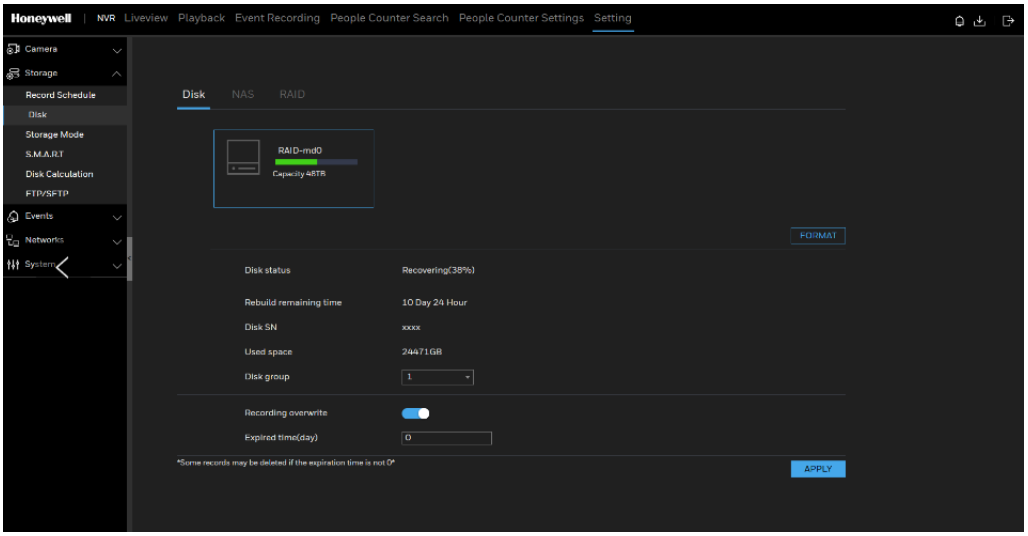
You can view and set HDD properties, format HDD and view current HDD type, status, capacity etc. The operation includes format HDD, and change HDD property (read and write/read-only/redundancy).

To backup recorded video file, you can set HDD as redundant HDD.

1. Go to Main Menu > Storage > Disk.

   The Disk interface is displayed.

Figure 51 Disk Interface



2. Select an HDD (For RAID, it is used for an HDD) and then select disk group the drop-down list.
3. (Optional) Format an HDD.
   a. Select an HDD and then click FORMAT.

Note: This operation will erase all data in the HDD. Proceed with caution. If you format the HDD, the data will be lost.

   b. Click OK.
4. Enable Recording overwrite, when the disk is full, it will overwrite.
5. Set Expired time(day), the expired time is not 0, the records will be deleted when the time is over the setting value.
6. Click APPLY to complete the setup.

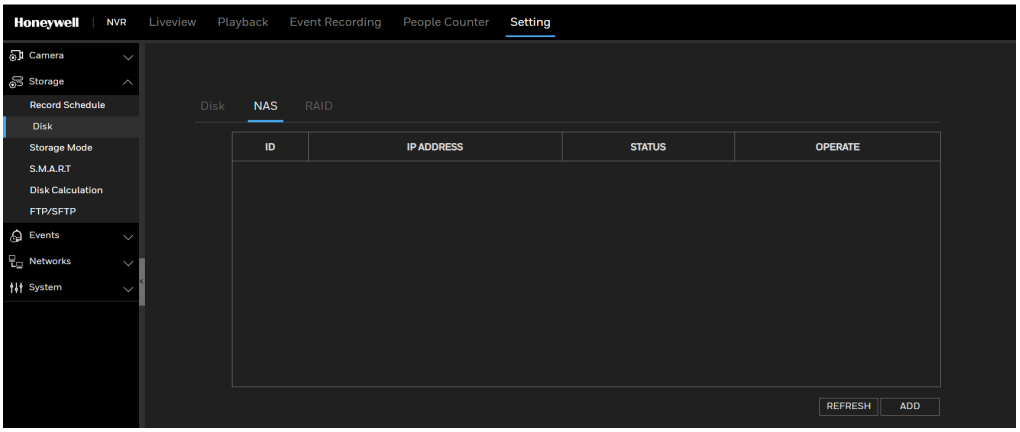
NAS

Users can add NAS path for backup the recording.

1. Go to Main Menu > Storage > Disk > NAS.

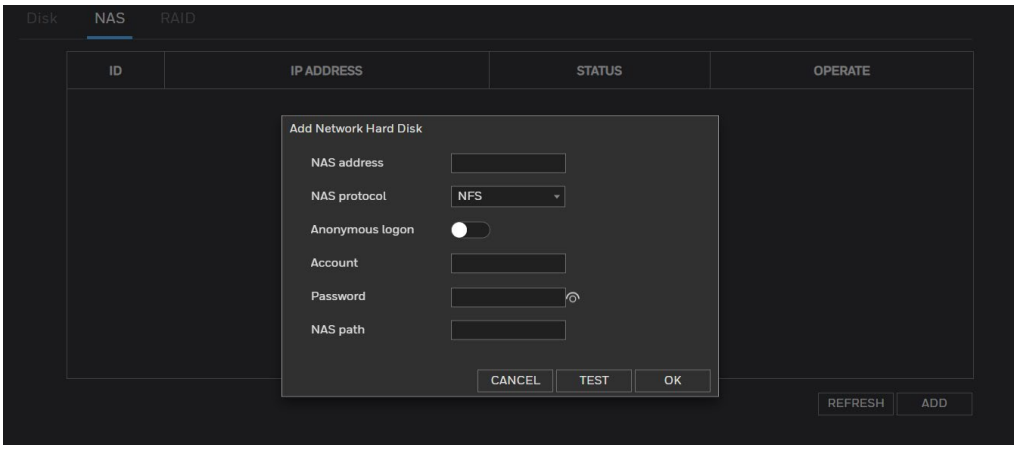
   The NAS interface is displayed.

Figure 52 NAS Interface



2. Click ADD to add NAS account for Network hard disk. The NAS backup cannot ensure safety of the files, users should confirm again.

Figure 53 Add NAS Interface



3. Configure the settings for the NAS settings parameters.

Table 16 NAS Parameters

Parameter	Description
NAS address	IP address of NAS server.
NAS protocol	The default is NFS
Anonymous login	Enable or disable to login the NAS server.
Account	Enter the account and password to log in to the NAS server.
Password	
NAS path	The path of NAS.

4. Click TEST.

   The system pops up a message to indicate success or failure. If failed, check the network connection or configurations.

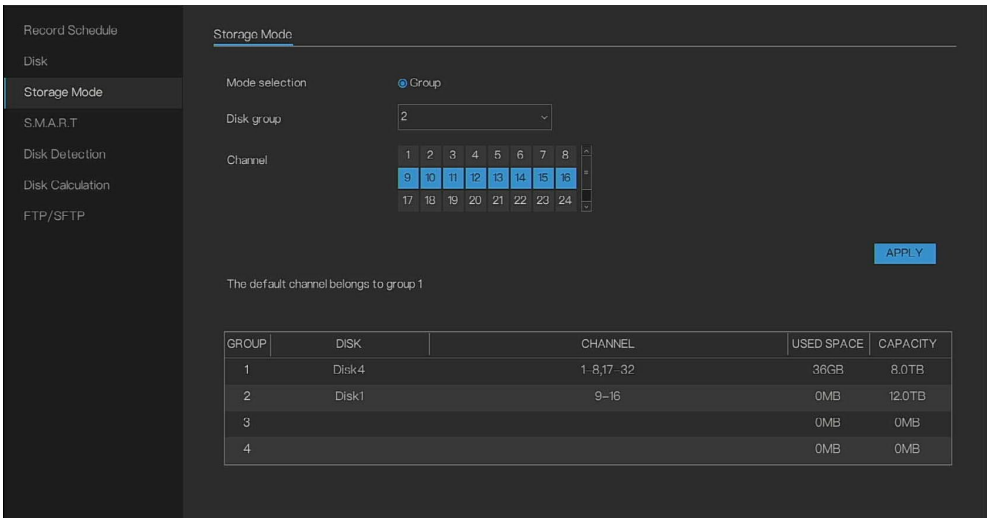
5. Click OK to save the settings.

Storage Mode

When the NVR is installed with several HDDs, you can configure the HDDs in different groups, and different HDDs can record different channels, so that users can access HDDs quickly and use the HDDs efficiently.

1. Go to Main Menu > Storage > Storage Mode.

Figure 54 Storage Mode



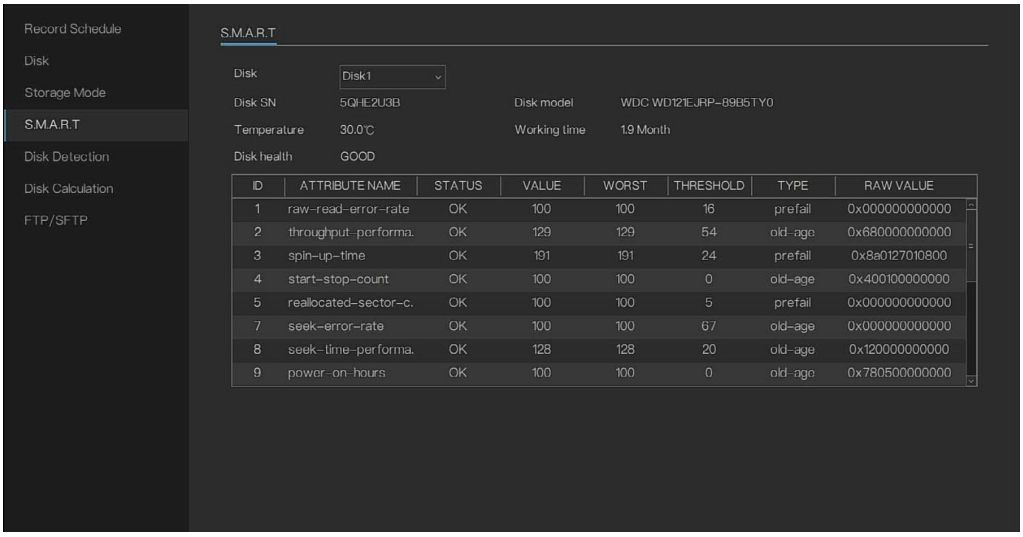
2. Choose the Disk group and Channels, the details of configuration are shown in list.
3. Click APPLY to complete settings.

Note: If the total bit rate for the channels in one group is more than 200 M, the channels need to be distributed to more than one group. For example, if the main stream rate for one channel is 8 M and sub stream rate (non-encrypted) is 2 M, the total bit rate for 32 channels is 320 M, and the 32 channels need to be distributed to 2 groups. The channels can be distributed to groups randomly.

S.M.A.R.T

S.M.A.R.T is Self-Monitoring Analysis and Reporting Technology with which user can view corresponding information. Replace the malfunction HDD in case there is data loss

Figure 55 S.M.A.R.T Interface

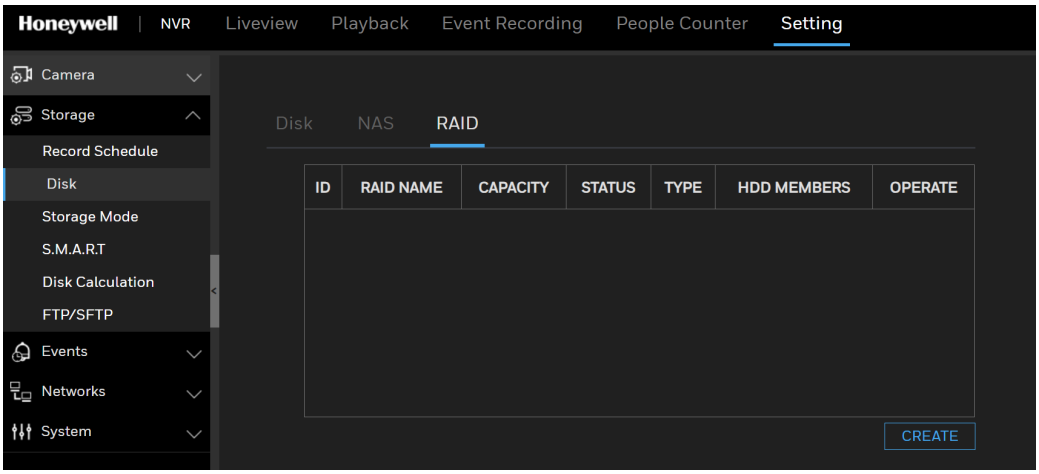


RAID

All models support to build/ edit/ delete the RAID. Users can choose the type of RAID according to the importance of recording

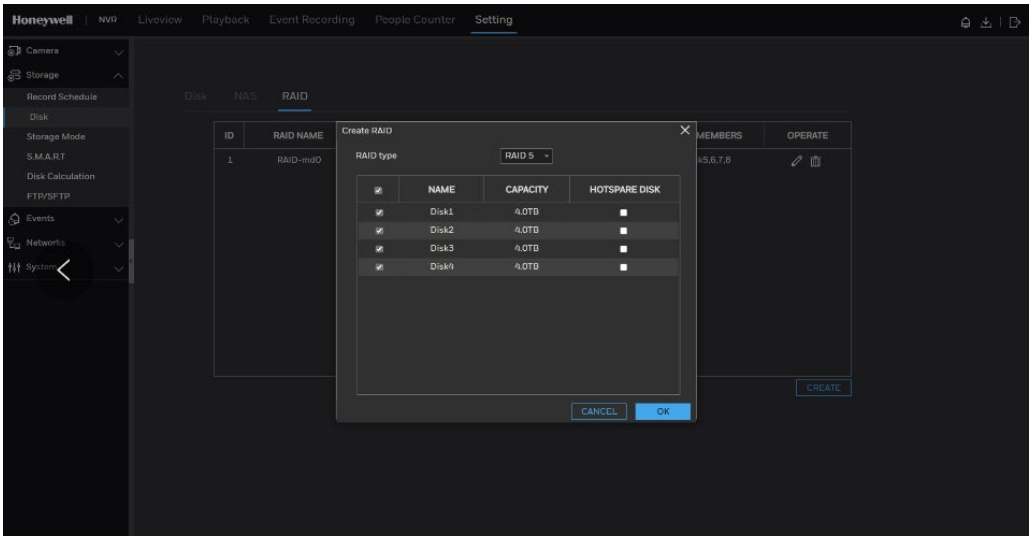
Go to **Main Menu > Storage > RAID**

Figure 56 RAID Interface



Click **CREATE** to create RAID (RAID1/RAID5/RAID6).

Figure 57 Creating RAID Interface



Users choose the disks to create RAID, choose one or more disks to act as hot space disk.

Note:

- *The disks used to create RAID must be enterprise level disks. The capacity of disks should be same for efficient using.*
- *After the RAID is created successfully, the RAID should be formatted.*
- *The maximum capacity of RAID cannot exceed 100T.*
- *RAID1 needs at least 2 disks.*
  RAID5 needs at least 3 disks.
  RAID6 needs at least 4 disks.
- *Creating hot spare disk needs one more disk or double basic disks.*
- *Support to configure RAID function on web & local GUI. For throughput setting with RAID, refer to the table below:*

Channel	SATA Number	Throughput （Mbps)	RAID1/5/6	Non-RAID
64	4	400	NA	1. both camera and NVR non-encryption 2. separate to at least 2 groups
	8	400	1.2 RAID 2. both camera and NVR non-encryption 3. separate to at least 2 groups	1. both camera and NVR non-encryption 2. separate to at least 2 groups
64	4	320	1. if input is 320Mbps http, then output need to be within 85Mbps https.	
	8	320		

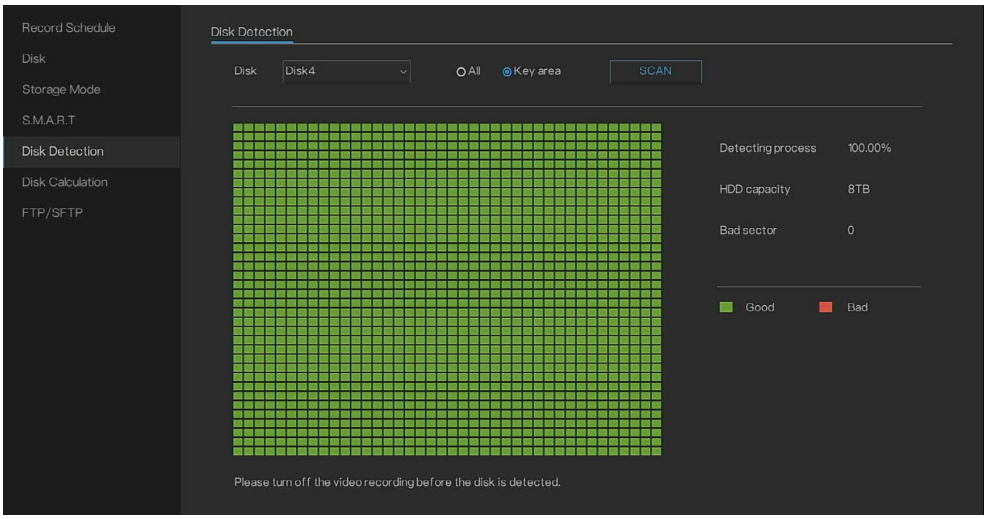
Disk Detection

HDD detect function can detect HDD status to clearly understand the HDD performance and replace the malfunction HDD.

1. Go to Main Menu > Storage > Disk Detection.

   The Disk Detection interface is displayed.

Figure 58 Disk Detection Interface



2. Choose Disk that you want to detect. Select All or Key area. Detecting All needs some time because it detects carefully and comprehensively; Detecting key section may need a few minutes.
3. Click SCAN.

   The system starts detecting the HDD and displays the detection information.

   - The green block means good, the red block means bad, if the red blocks are too much or at key section, please change the disk immediately
   - Please turn off the video recording before the disk is detected, otherwise the recording of video maybe lost.

Note: When the system is detecting HDD, click CANCEL to stop current detection. When pop-up window shows "Would you like to stop disk detection?", click OK to end detecting.

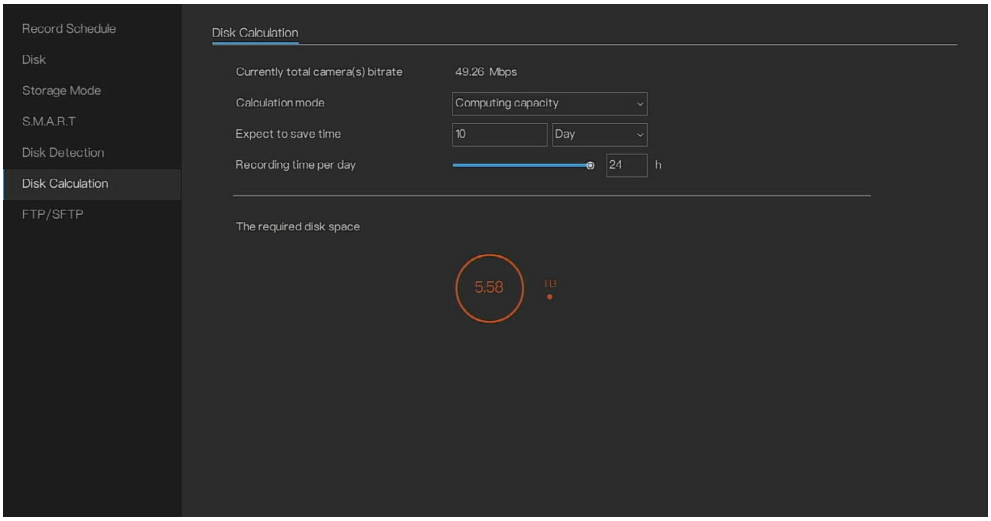
Disk Calculation

Record estimate function can calculate how long you can record video according to the HDD capacity, and calculate the required HDD capacity according to the record period.

1. Go to Main Menu > Storage > Disk Calculation.

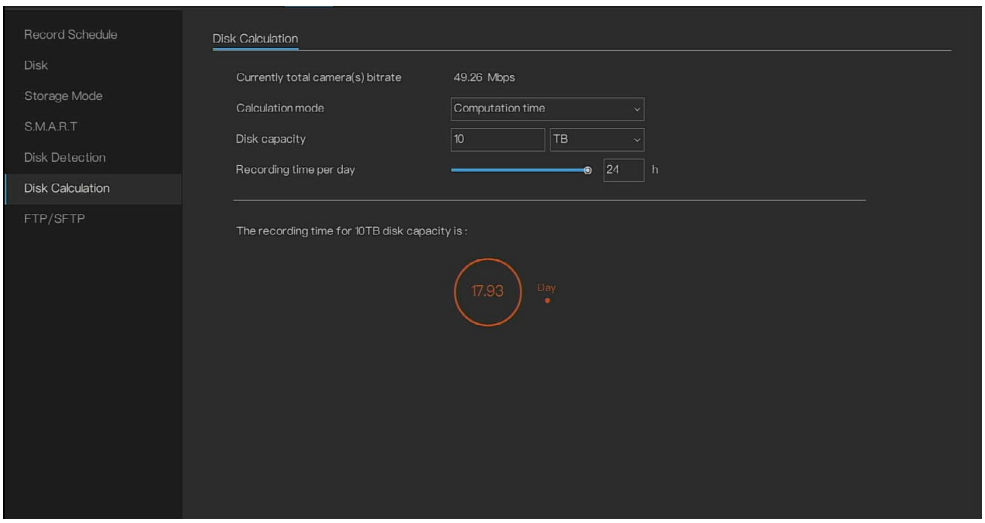
   The Disk Calculation interface is displayed.

Figure 59 Disk Calculation



2. Choose the calculation mode for Computing capacity or Computation time.
3. Input value for Expect to save time.
4. Set the Recording time per day, the result is shown in figure.

Figure 60 Computation time



Note: The computation is based on the currently online cameras bitrate (includes main stream and sub stream).

FTP/SFTP

You can store and view the recorded videos and snapshots on the FTP server.

Purchase or download an FTP (File Transfer Protocol) or SFTP (Secret File Transfer Protocol) server and install it on your PC.

Note: For the created FTP user, you need to set the write permission; otherwise the uploading for recorded videos and snapshots will be failed.

1. Go to Main Menu > Storage > FTP/SFTP.
2. Select Mode as FTP or SFTP.

Figure 61 FTP

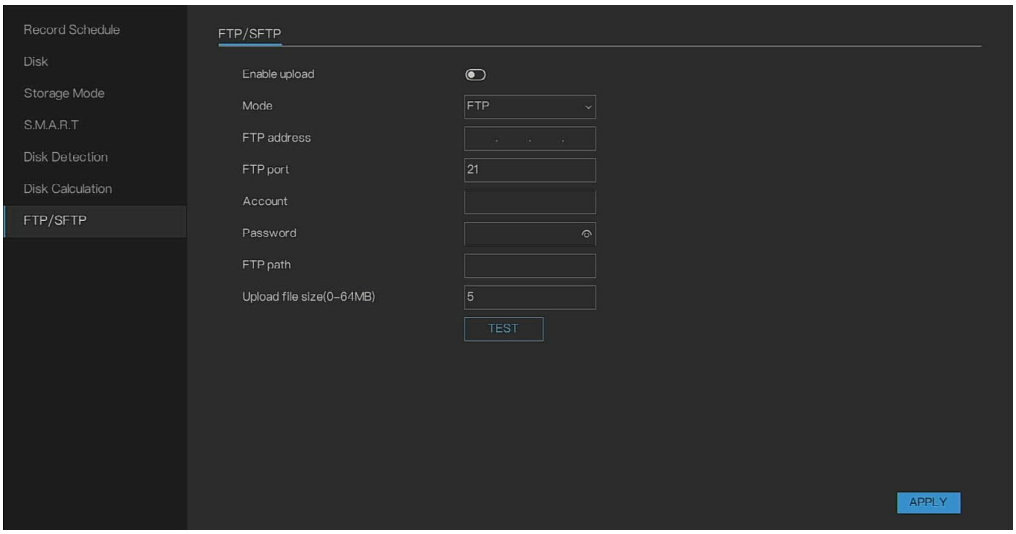
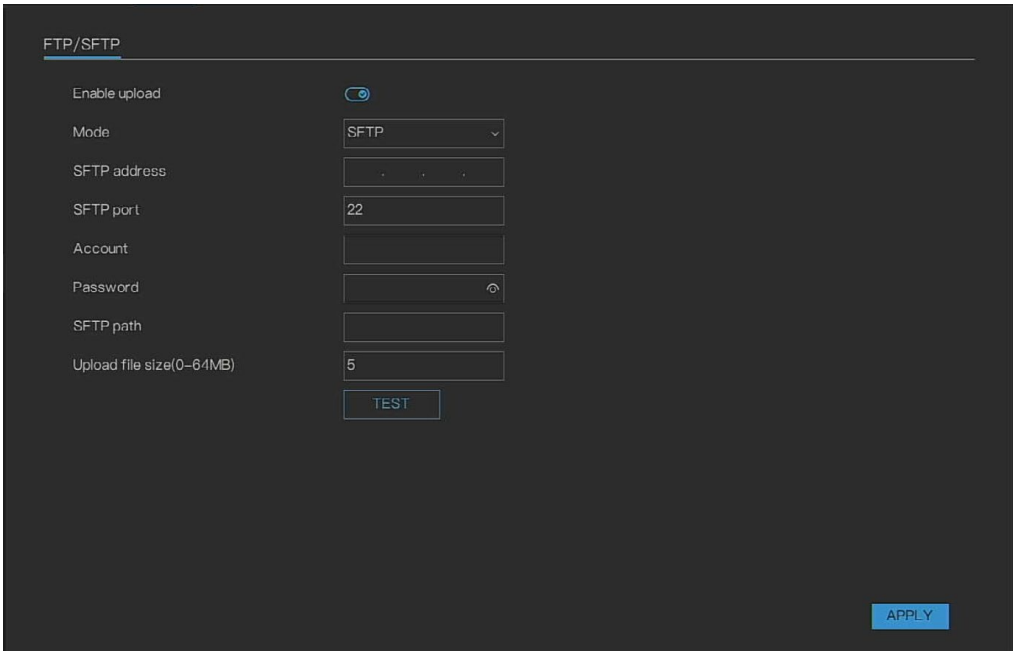


Figure 62 SFTP



3. Configure the settings for the FTP/SFTP settings parameters.

Table 17 FTP/SFTP Parameters

Parameter	Description
Enable upload	Enable the FTP/SFTP upload function.
FTP address/SFTP address	IP address of FTP/SFTP server.
FTP Port/SFTP Port	The default is 21/22.

Parameter	Description
Account	Enter the account and password to log in to the FTP server.
Password	
FTP path/SFTP path	Create folder on FTP/SFTP server. • If you do not enter the name of remote directory, system automatically creates the folders according to the IP and time. • If you enter the name of remote directory, the system creates the folder with the entered name under the FTP/SFTP root directory first, and then automatically creates the folders according to the IP and time.
Upload file size(0-64MB)	Enter the length of the uploaded recorded video. • If the entered length is less than the recorded video length, only a section of the recorded video can be uploaded. • If the entered length is more than the recorded video length, the whole recorded video can be uploaded. • If the entered length is 0, the whole recorded video will be uploaded.

4. Click TEST.

   The system pops up a message to indicate success or failure. If failed, check the network connection or configurations.

5. Click APPLY to complete the settings.

Configuring Events Settings

Note: An NVR can support up to 5 apps to receive push messages. To use the event message notification in app, go to Me > Settings > Event notification and enable the device below New event message notification.

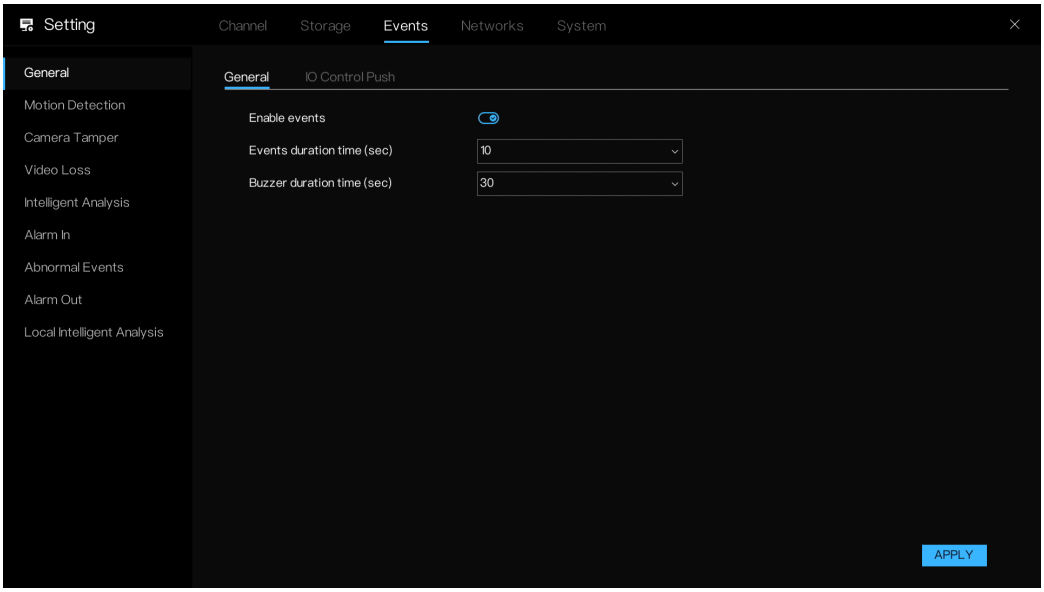
General

You can enable general event and IO Control Push.

1. Go to Main Menu > Events > General > General.

   The General interface is displayed.

Figure 63 General Page



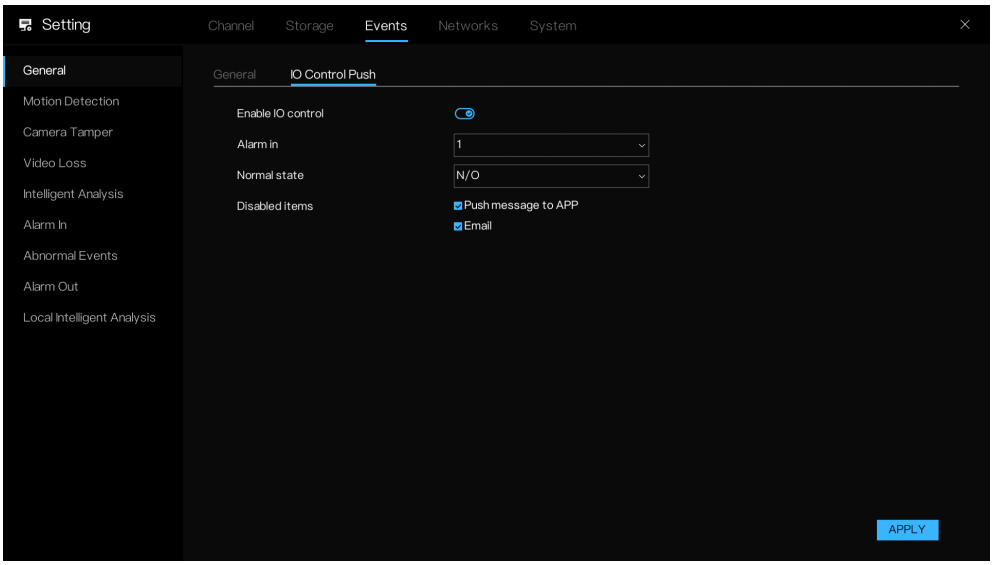
2. Enable events, set Events duration time(sec) and Buzzer duration time(sec).
3. Click APPLY to save the settings.

IO Control Push

1. Go to Main Menu > Events > General > IO Control Push.

   The IO Control Push interface is displayed.

Figure 64 IO Control Push



2. Enable IO Control Push, choose the Alarm in from drop-down list.
3. Choose Normal state from drop-down list (N/C or N/O).
4. Select Disable items (Push message to APP and Email)

Note: If you select normally open and select the disabled items, the alarm input 1 will not push message in the normally open state. Only when the alarm in 1 is in the normally closed, it can push alarm message.

5. Click APPLY to save the settings.

Motion Detection

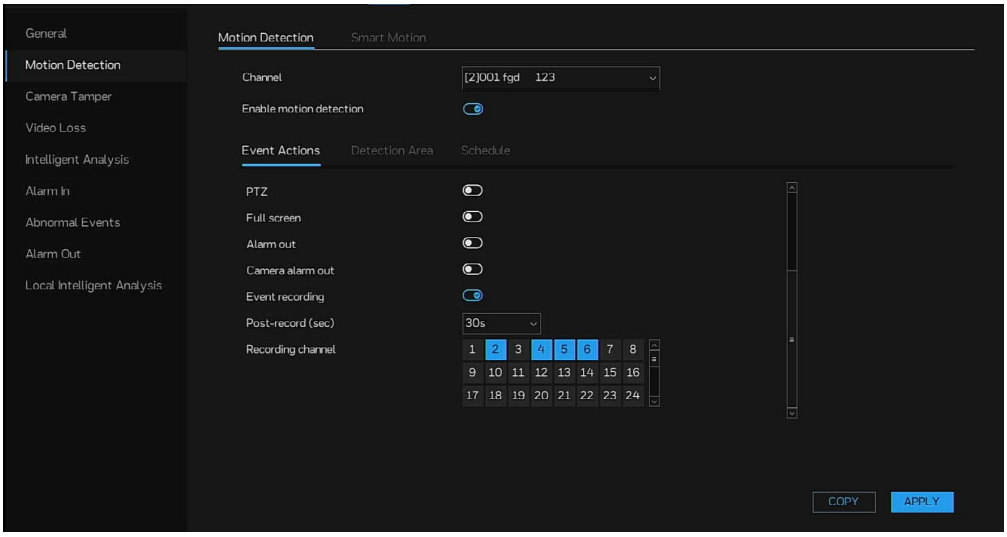
Motion Detection Settings

When the moving object appears and moves fast enough to reach the preset sensitivity value, the system activates the alarm.

1. Go to Main Menu > Events >Motion Detection.

   The Motion Detection interface is displayed.

Figure 65 Motion Detection



2. Configure the settings for the motion detection parameters.

Table 18 Motion Detection Parameters

Parameter	Description
Channel	In the Channel list, select a channel to set the motion detection.
Enable	Enable or disable the motion detection function. When enable the function, the NVR is modified and the result can be synced to camera.

Parameter	Description
Event Actions	**Push message to APP**: enable a pop-up message to App which is managing the NVR **Pop up message to monitor**: enable a pop-up message in your UI monitor. **Email**: When an alarm occurs, the NVR device sends an email to the set mailbox to notify the user. You need to set the email first. For details, refer to Email. **Buzzer**: activate the buzzer when an alarm occurs. The duration is set in **Event > General**. **FTP**: enable it to send snapshot to FTP path. Set FTP in **Storage > FTP** interface. **PTZ**: enable it and select the **Channel** and **Preset**. When an alarm occurs, the NVR device associates the channel to perform the corresponding PTZ action. For example, activate the PTZ in channel one to turn to the preset point X. •Tripwire alarm supports to activate PTZ preset point only. •You need to set the corresponding PTZ actions first, see PTZ Control. **Full Screen**: enable to show the live video of channel by full screen when alarming. **Alarm out**: enable to linkage alarm out, the parameters should be set in **Event > Alarm out** interface. The alarm device (such as lights, sirens, etc.) is connected to the alarm output port. When an alarm occurs, the NVR device transmits the alarm information to the alarm device. **Camera alarm out**: enable to linkage the alarm out port of camera. **Event recording:** enable to record when the alarm is occurred. **Post-record(sec)**: choose the duration of other channels to record the alarm video. **Recording channel**: choose the channels to record.
Detection Area	After a motion detection area is selected, double-click it to delete the selected area. **Sensitivity**: there are four level can be chosen, **Low/Medium/High/Highest**, it is not consistent with IPC. The highest the chosen is, the easier the alarms can be activated.
Schedule	Define a period during which the motion detection is active.

3. Click APPLY to save the settings.

   Click COPY. In the Copy dialog box, select the additional channel(s) that you want to copy the motion detection settings to, and then click APPLY.

Figure 66 Copy Dialog Box

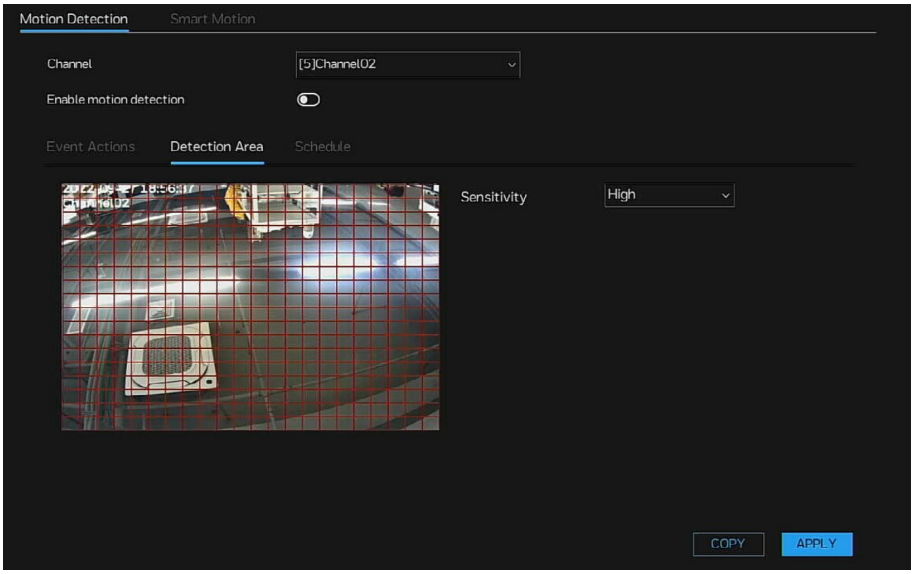
Setting the Motion Detection Area

1. On the live video screen, draw areas to arm.

   You can configure several regions. Hold down and drag the left mouse button to draw a motion detection area, the default area is full screen.

Note:
- *Drag on the screen to select the region that you want to detect. When anyone of the several regions activates motion detect alarm, the channel where this region belongs to will activate motion detect alarm.*
- *When the NVR is modified, the result can be synced to camera.*
- *For PTZ cameras, the VA function are only available on home position.*

Figure 67 Region Setting

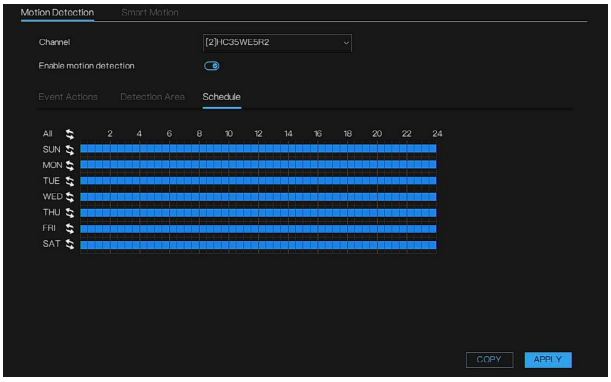


2. Click APPLY to complete the settings.

Setting Schedule

Note: *The system only activates the alarm in the defined period.*

Figure 68 Schedule Setting



1. Set Schedule.

- Hold down the left mouse button, drag and release mouse to select the arming time within 00:00-24:00 from Monday to Sunday.
- Click in the record schedule page to select the whole day or whole week.
- click the time grids to choose one by one.

Click again or inverse selection to delete the selected record schedule.

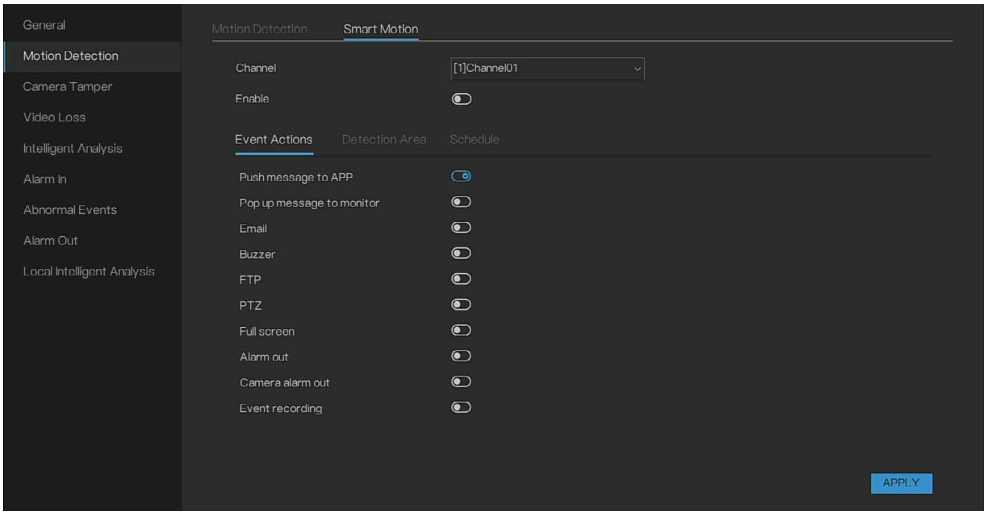
2. Click APPLY to complete the settings.

Smart Motion

For some cameras can detect person or car, you can set the smart motion parameter in NVR that manage convenient the cameras.

Go to **Main Menu > Events > Motion Detection > Smart Motion**, the **Smart Motion** interface is displayed.

Figure 69 Smart Motion



To configure the linkage event actions of smart motion's, see Table 18 Motion Detection Parameters

Setting Smart Motion Area

Move the cursor to the drawing interface and click to generate a point. Move the cursor to draw a line, and then click to generate another point. This is how a line is generated. In this way, continue to draw lines to form any shape, and right-click to finish line drawing.

Click **REMOVRE ALL** to remove detection area.

Figure 70 Smart Motion – Detection Area

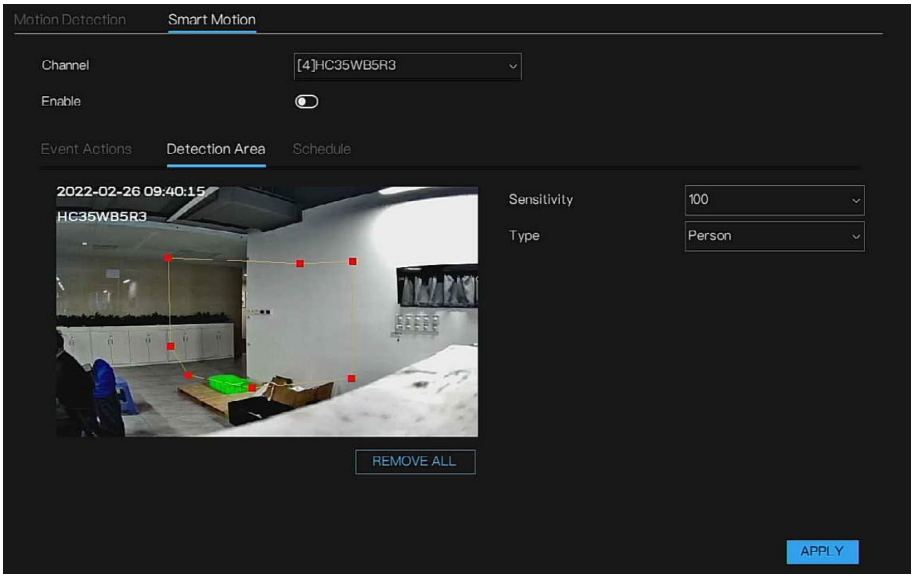


Table 19 Detection Area Setting Parameters

Parameter	Description
Sensitivity	Every region of every channel has an individual sensitivity value. The range is 0-100.The bigger the value is, the easier the alarms can be activated.
Type	Person: only detects people Car: only detects cars Person or car: detects person and car at the same time

Setting Smart Motion Schedule

To configure the schedule of smart motion's, refer to Setting Schedule.

Figure 71 Smart Motion – Schedule

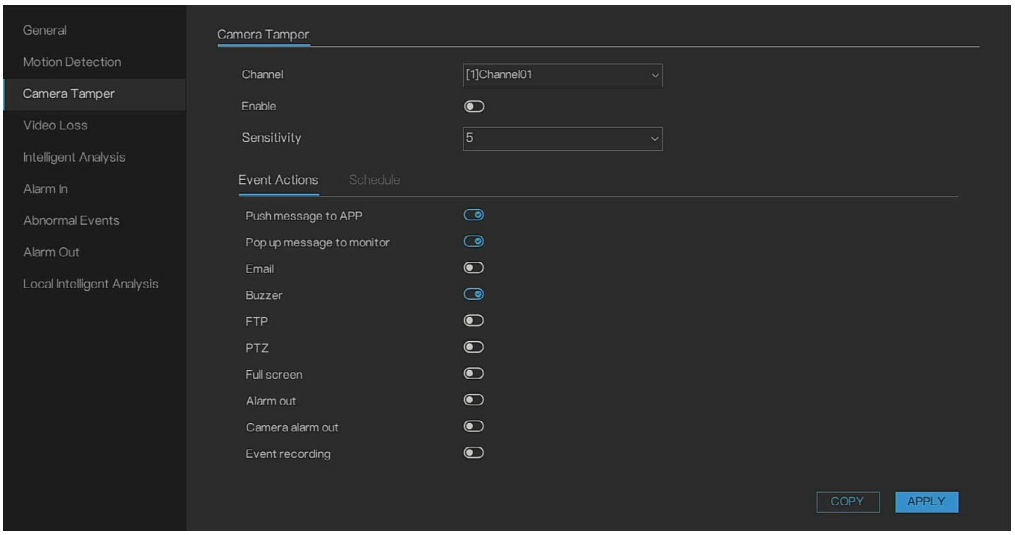
Camera Tampering

When the camera lens is covered, or the video is displayed in a single color because of sunlight status, the monitoring cannot be continued normally. To avoid such situations, you can configure the tamper alarm settings.

1. Go to Main Menu > Events > Camera Tamper.

   The Camera Tamper interface is displayed.

Figure 72 Camera Tamper



2. To configure the settings for the tampering detection parameters, refer to Motion Detection.

Note: The tampering function does not have detection area and sensitivity items.
Every channel has an individual sensitivity value. The range is from 1 to 5. The bigger the value is, the easier the alarms can be activated.

3. Click APPLY to complete the settings.

   Click COPY, in the Copy to dialog box, select the additional channel(s) that you want to copy the motion detection settings to, and then click OK.

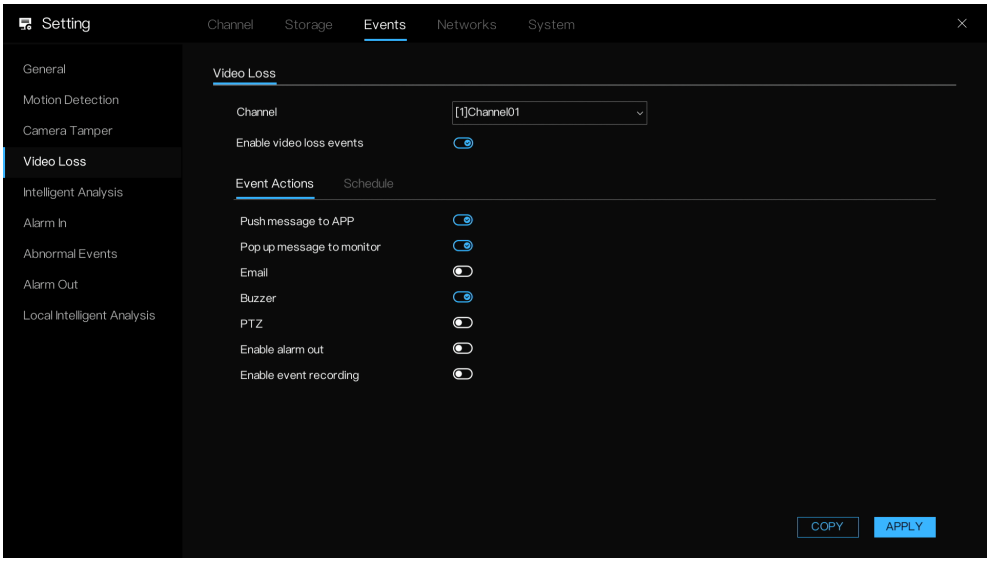
Video Loss

When the video loss occurs, the system activates the alarm.

1. Go to Main Menu > Events > Video Loss.

   The Video Loss interface is displayed.

Figure 73 Video Loss



2. To configure the settings for the video loss detection parameters, refer to Motion Detection.

   The video loss function does not have detection area and sensitivity items.

3. Click APPLY to complete the settings.

   Click COPY, in the Copy to dialog box, select the additional channel(s) that you want to copy the motion detection settings to, and then click OK.

Intelligent Analysis

Intelligent analysis includes Intrusion, Line crossing, Multi Loitering, People Counter and Face Detection.

Note: When the Intelligent Analysis functions are set as Enable by NVR to receive the signals from channel cameras, some model cameras may not support remote configuration and the result may not be synced to cameras when the parameters are modified only by NVR. Therefore, Honeywell recommends you modify the setting by the camera web client at the same time.

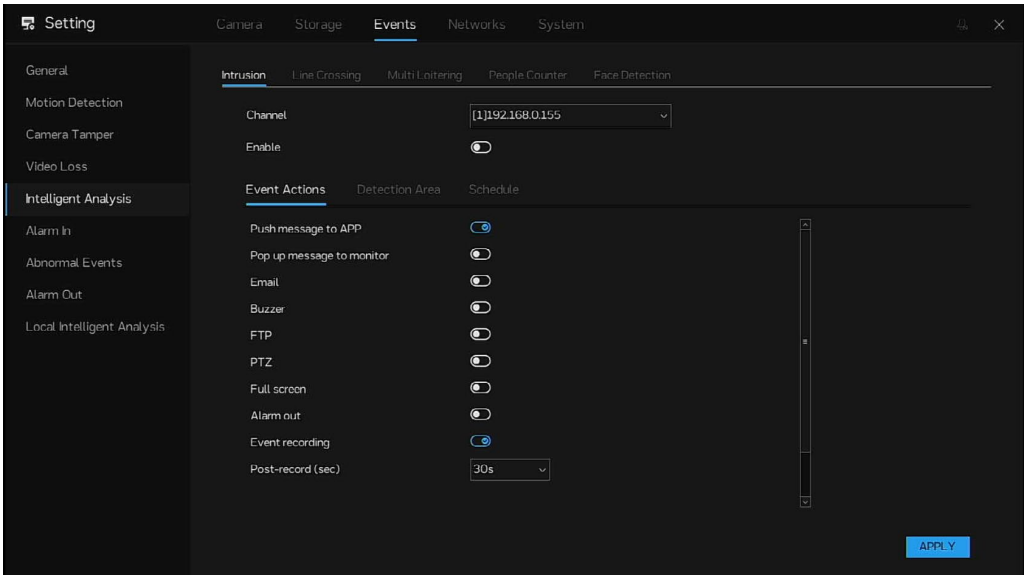
Intrusion

When channel camera captures someone is intruding to the setting area, it will trigger the intelligent analysis intrusion alarm of NVR

1. Go to Main Menu > Events > Intelligent Analysis > Intrusion.

   The Intrusion interface is displayed.

Figure 74 Intrusion



2. To configure the settings for the intrusion parameters, see Motion Detection.

   The detection area is configured in cameras interface, so the parameters cannot be copied.

3. Click APPLY to complete the settings.

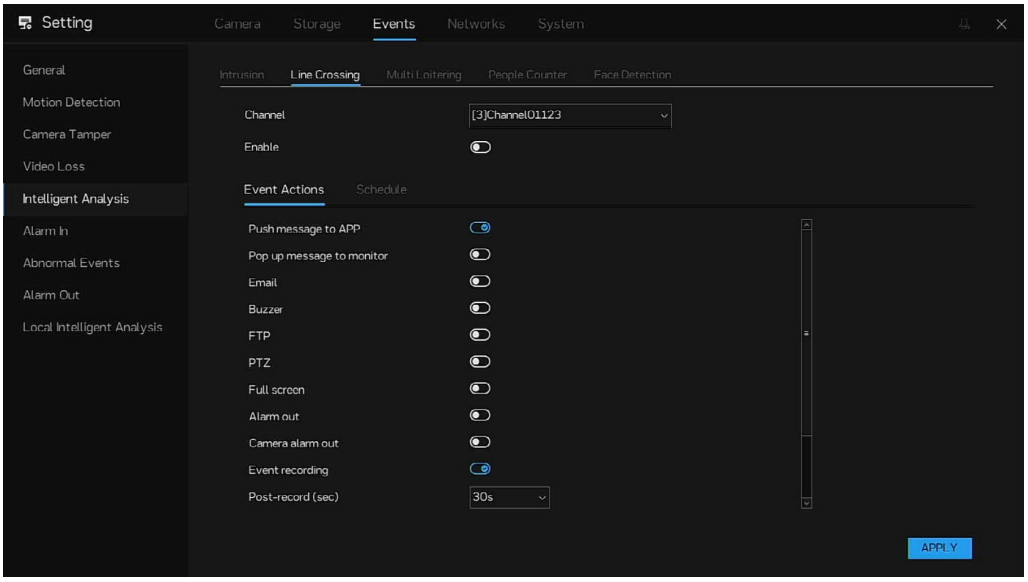
Line Crossing

When channel camera is capture someone cross the setting line, it will trigger the intelligent analysis line crossing alarm of NVR

1. Go to Main Menu > Events > Intelligent Analysis > Line Crossing.

   The Line Crossing interface is displayed.

Figure 75 Line Crossing



2. To configure the settings for the Line Crossing parameters, see Motion Detection.

   The Line Crossing function does not have detection area and sensitivity items. The detection area is configured in cameras interface, so the parameters cannot be copied.

3. Click APPLY to complete the settings.

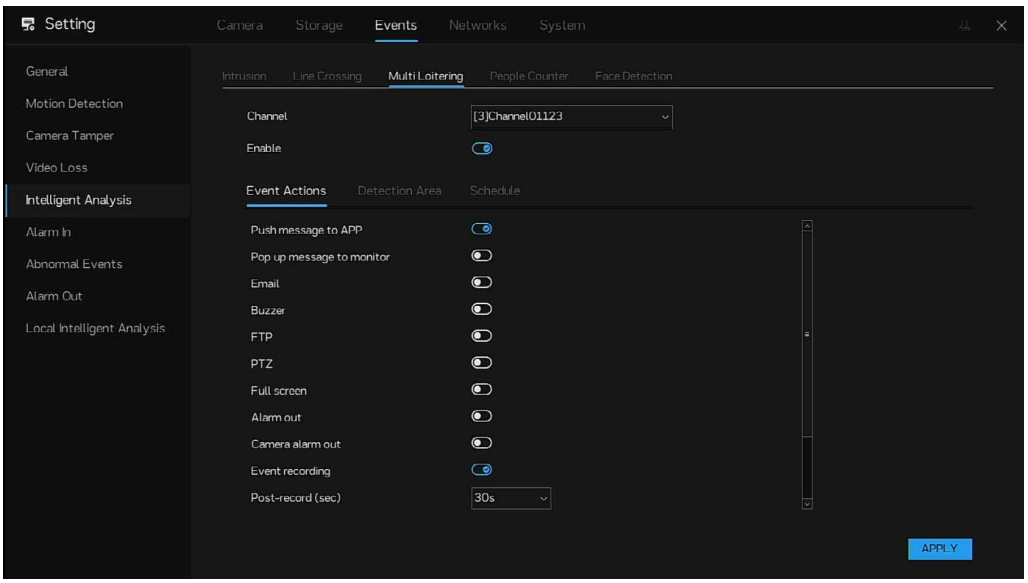
Multi Loitering

When channel camera is capture someone stay in the setting area, it will trigger the intelligent analysis multi loitering alarm of NVR

4. Go to Main Menu > Events > Intelligent Analysis > Multi Loitering.

   The Multi Loitering interface is displayed.

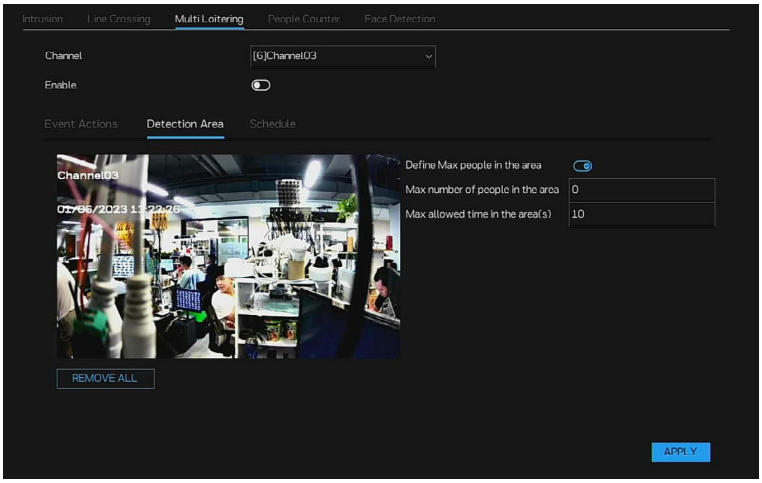
Figure 76 Multi Loitering



5. To configure the settings for the multi loitering parameters, see Motion Detection.

   The multi loitering function does not have sensitivity items. The detection area is configured in cameras interface, so the parameters cannot be copied. Enable the define max people in the area, set the max number of people in the area and max allowed time in the area (s).

Figure 77 Multi Loitering



6. Click APPLY to complete the settings.

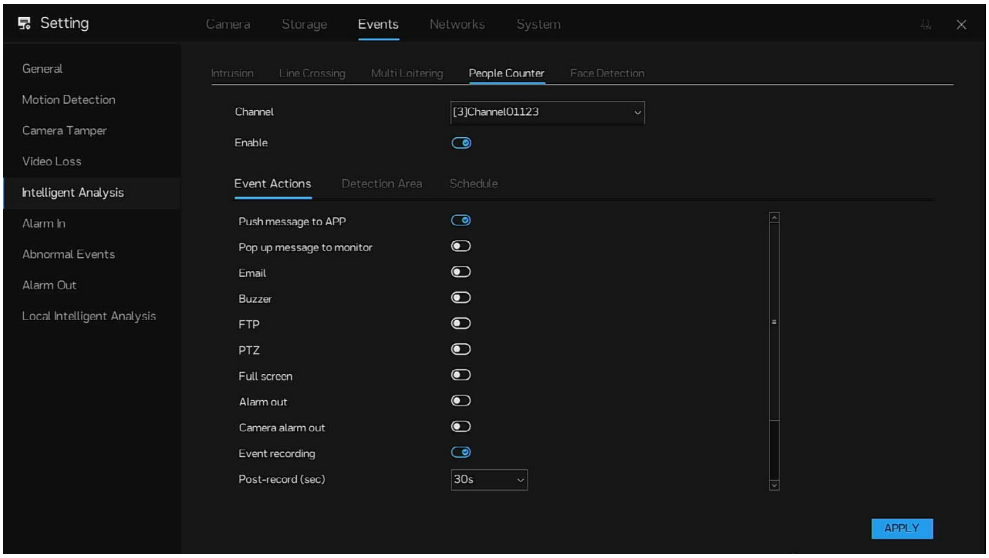
People Counter

When channel camera is counting personnel in the setting area, it will trigger the intelligent analysis people counter alarm of NVR

1. Go to Main Menu > Events > Intelligent Analysis > People Counter.

   The People Counter interface is displayed.

Figure 78 People Counter



2. To configure the settings for the People Counter parameters, see

Motion Detection.

The People Counter function does not sensitivity items. The detection area is configured in cameras interface, so the parameters cannot be copied.

Figure 79 People Counter

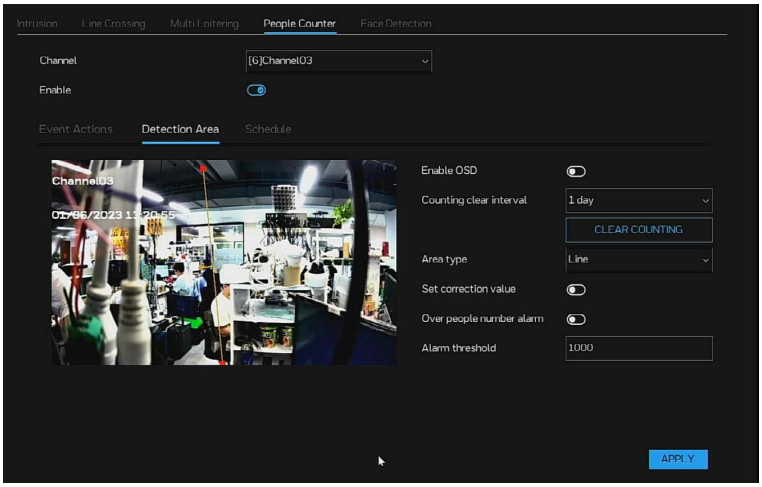


Table 20 People Counter Parameters

Parameter	Description
Enable OSD	Enable to show the number of people counter on OSD
Counting clear interval	10-min/half-hour/1hour/12hour/1/day, choose one to clear the counting. Click CLEAR COUNTING to clear the counting directly.
Area type	Line
Set correction value	Enable the function, if the counting number is wrong, you can set the correction value to correct.
Over people number alarm	Enable to alarm when the counting is over the alarm threshold.
Alarm threshold	Input a value to set alarm threshold.

3. Click APPLY to complete the settings.

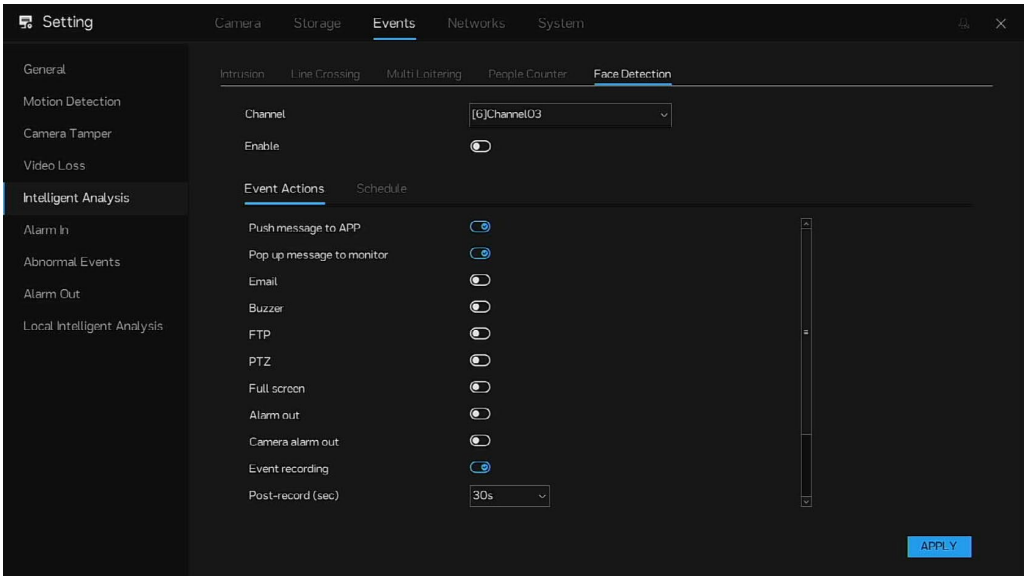
Face Detection

When channel camera is captures someone is in monitor area, it will trigger the intelligent analysis face detection alarm of NVR

1. Go to Main Menu > Events > Intelligent Analysis > Face Detection.

   The Face Detection interface is displayed.

Figure 80 Face Detection



2. To configure the settings for the Face Detection parameters, see Motion Detection.

   The Face Detection function does not have detection area and sensitivity items, so the parameters cannot be copied.

3. Click APPLY to complete the settings.

Alarm In

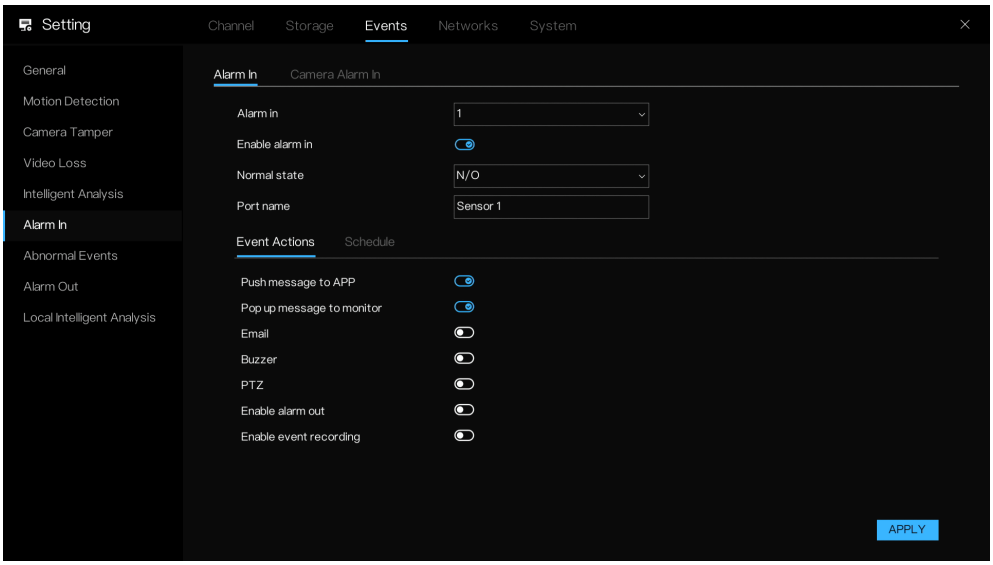
Alarm In Settings

After connecting the alarm device to the NVR alarm input port, system can trigger the corresponding alarm operations when there is alarm signal from the alarm input port to the NVR.

1. Go to Main menu > Events > Alarm In.

   The Alarm In interface is displayed.

Figure 81 Alarm In



2. Set Alarm-in Port channel number and then select the enable check box to enable the function.
3. Configure parameters.

Table 21 Alarm-in Port Parameters

Parameter	Description
Alarm in	Select a port to set alarm, the alarm device is also connected to the correspond port.
Enable alarm in	Check the box to enable the function.
Normal state	**N/O** (normal open) or **N/C** (normal close).
Port name	Input the port name, the name will show on the alarm information message.
Event Actions	Refer to Table 18.
Schedule	Define a period during which the alarm is active. For details, see Motion Detection.

4. Click APPLY.

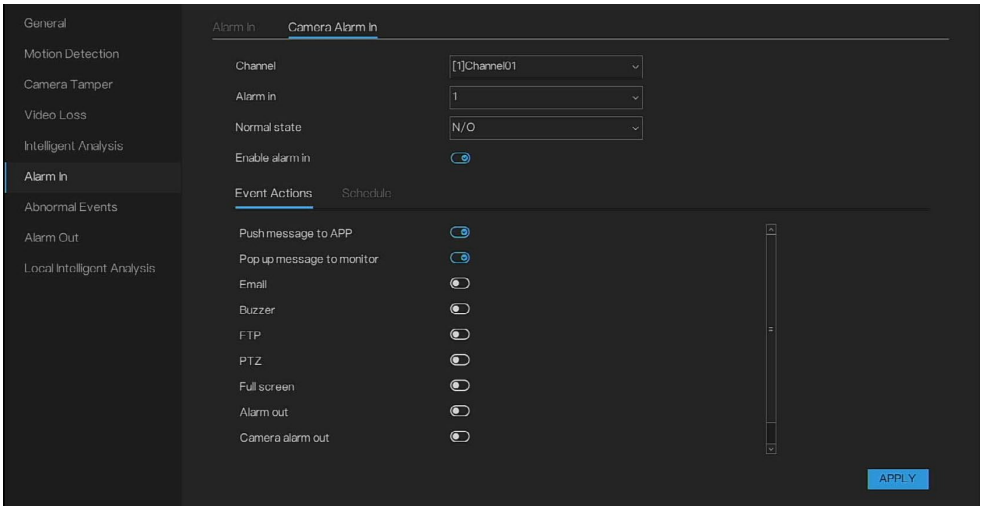
Camera Alarm In

After connecting the alarm device to the channel camera alarm input port, system can trigger the corresponding alarm operations when there is alarm signal from the alarm input port of camera.

1. Go to Main Menu > Events > Alarm In > Camera Alarm In.

   The Camera Alarm In interface is displayed.

Figure 82 Camera Alarm in Port



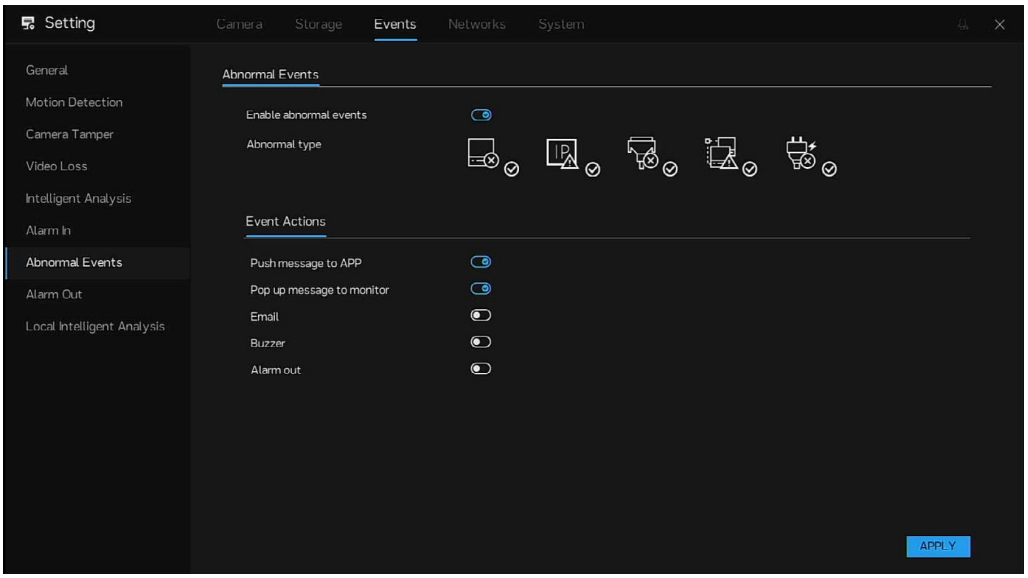
2. Select the Channel/Alarm in/Normal state.
3. Enable to open camera alarm in port. The following operations are same as Alarm In Settings.
4. Click APPLY.

Abnormal Events

1. Go to Main Menu > Events > Abnormal events.

   The Abnormal events interface is displayed.

Figure 83 Abnormal Events



2. Configure parameters.

Table 22 Abnormal Alarm Parameters

Parameter	Description
Enable abnormal events	Check the box to enable the function.

Parameter	Description
Abnormal type	Disk alarm, IP address conflict, network disconnect, failover alarm, power alarm (only for model HN356408xxDR)
Event actions	Enable different event actions

1. Click APPLY to complete settings.

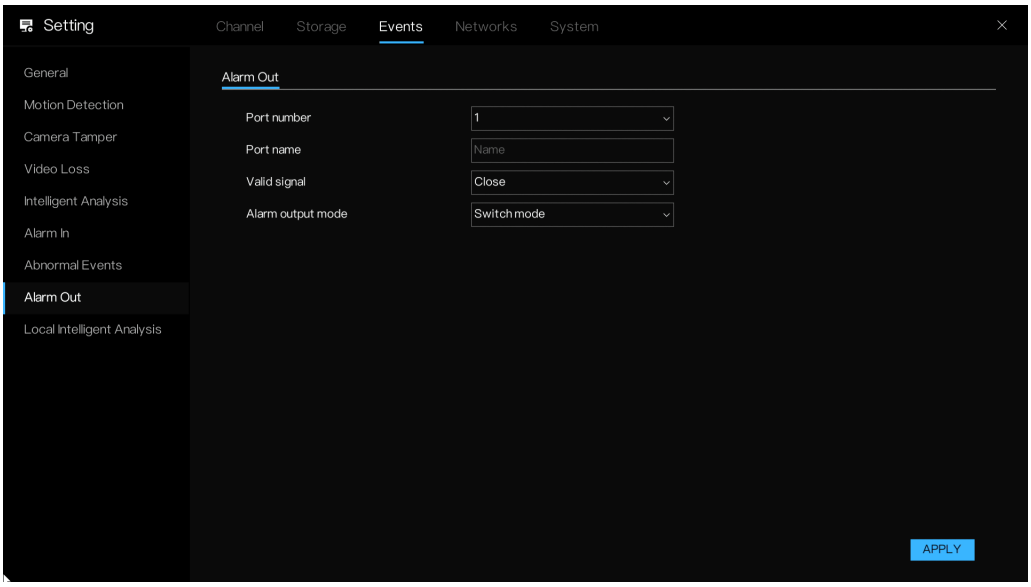
Alarm Out

The external alarm device is connected to the alarm out port.

1. Go to Main Menu > Events > Alarm out.

   The Alarm Out interface is displayed.

Figure 84 Alarm Out



2. Configure parameters.

Table 23 Alarm Out Parameters

Parameter	Description
Port number	Correspond to real panel I/O port OUT 1
Port name	Input the port name. The name will show on the alarm information message.
Valid signal	**Close**: An alarm is generated when an external alarm signal is received. **Open**: An alarm is generated when no external alarm signal is received.
Alarm output mode	When the device receives I/O alarm signals, the device sends the alarm information to an external alarm device

3. Click APPLY to complete settings.

Local Intelligent Analysis

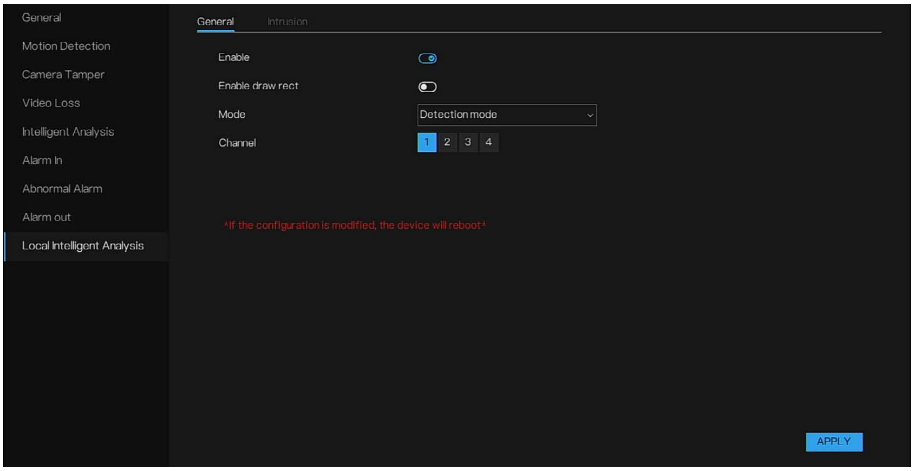
Note: This function is applicable for PoE NVRs only. It is not applicable for non-PoE NVRs.

The local intelligent analysis is for NVR to manage the local intrusion alarm.

1. Go to Main Menu > Events > Local Intelligent Analysis.

   The Local Intelligent Analysis interface is displayed.

Figure 85 Local Intelligent Analysis



2. Configure parameters.

Table 24 Local Intelligent Analysis Parameters

Parameter	Description
Enable	Enable this function and then you can set the parameter of alarm.
Enable draw rect	Enable draw rectangle, the detection rectangle will be showed on the live video of intrusion.
Mode	Choose detection mode.
Channel	Choose the channels Up to 4 channels to be chosen.

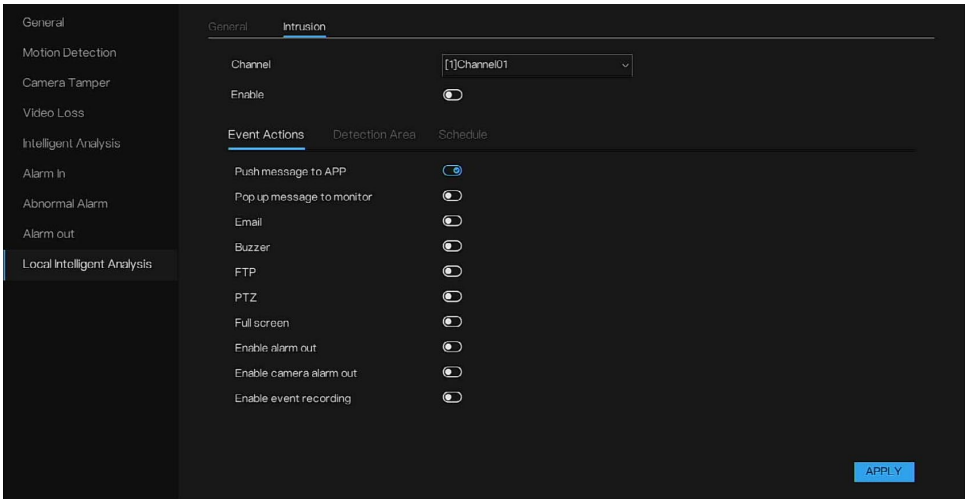
3. Click APPLY to complete settings.

Note: If you enable or disable the intrusion and modify the channels, the device will be reboot.

Intrusion

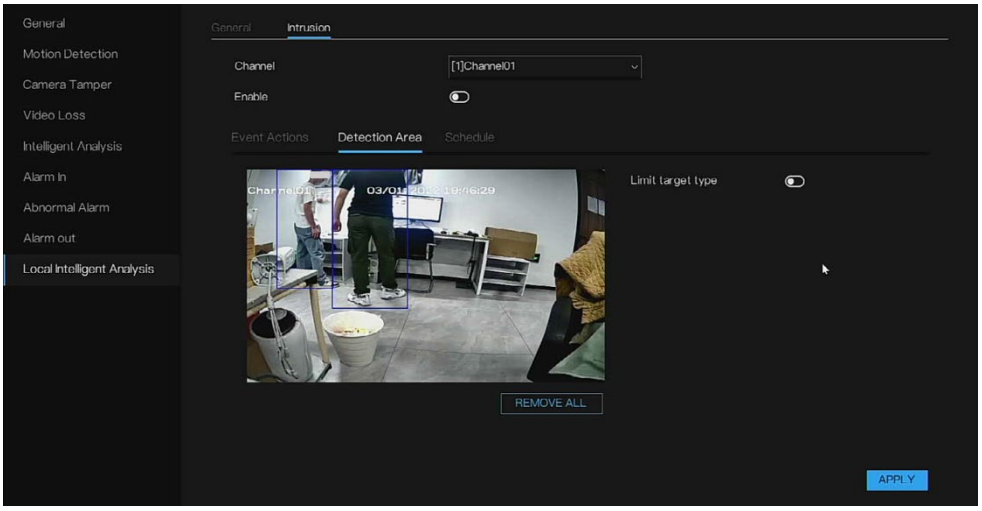
The intrusion refers to that an alarm is generated when the targets of specified types (such as person, car, and both person and car) enter the deployment area.

Figure 86 Intrusion Event Actions



The event actions, detection area, and schedule are set refer to Motion Detection.

Figure 87 Detection Area



To configure the settings for intrusion detection area, refer to Setting Smart Motion Area.

Configuring Network Settings

You can set NVR network parameters so that the NVR can communicate with devices in the same LAN.

Network

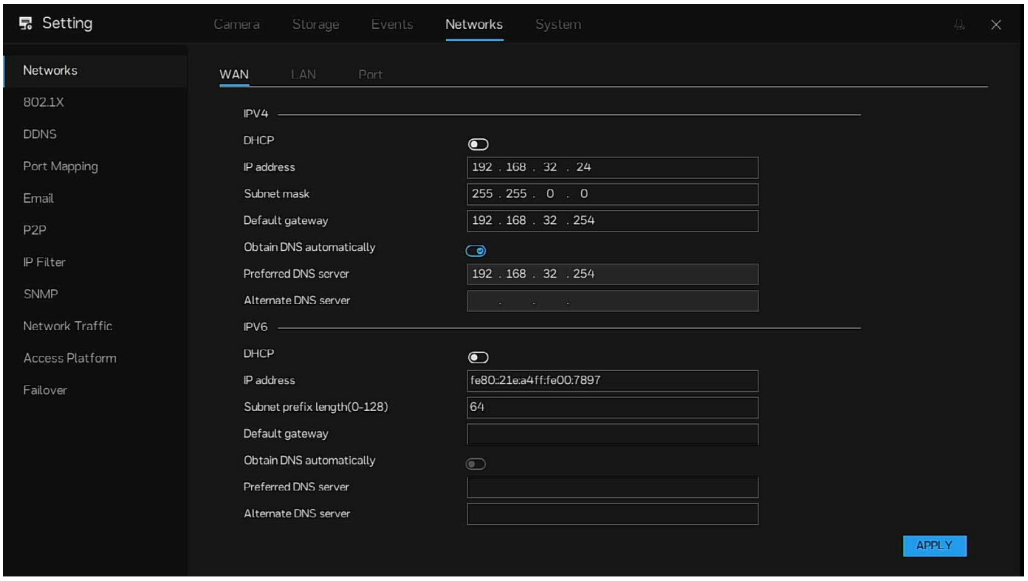
WAN

User can input the IP address in browser address bar, so that you can remote access the NVR through Web page.

1. Go to Main Menu > Networks > Networks > WAN.

   The Networks interface is displayed. You can set IPV4 and IPV6.

Figure 88 Networks - WAN



2. Enable DHCP and the router can distribute the IP automatically.

   Disable DHCP, you can modify the parameters manually.

3. Set parameters.

Table 25 IP Parameters

Parameter	Description
DHCP	Enable the DHCP function. The IP address, subnet mask and default gateway are not available for configuration once DHCP is enabled. • If DHCP is effective, the obtained information will display in the **IP Address** box, **Subnet Mask** box and **Default Gateway** box. • If you want to manually configure the IP information, disable the DHCP function first. If PPPoE connection is successful, the IP address, subnet mask, default gateway, and DHCP are not available for configuration.
IP Address	Enter the IP address and configure the corresponding subnet mask and default gateway. IP address and default gateway must be in the same network segment.
Subnet Mask	
Default	

Parameter	Description
Gateway	
Obtain DNS automatically	Enable the function to get the DNS address automatically. If you learn about the local DNS server IP, you can input the preferred DNS server and alternate DNS server manually.
Preferred DNS	In the **Preferred DNS** box, enter the IP address of DNS.
Alternate DNS	In the **Alternate DNS** box, enter the IP address of alternate DNS.

4. Click APPLY.

Configuring Router

1. Log in to the router to set the WAN port to enable the IP address to connect into the WAN.
2. Enable the UPnP function on the router.
3. Go to Main Menu > Network > Network, configure the IP address into the router IP address range, or enable the DHCP function to obtain an IP address automatically.

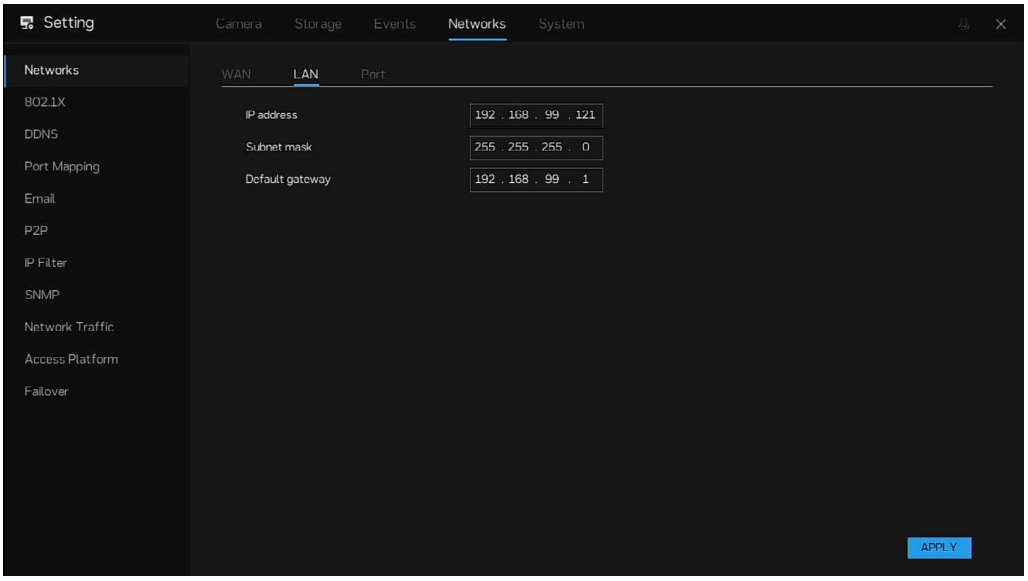
Note: WAN and LAN port cannot be set in the same network segment. You can add the cameras through LAN port access to local network, but you must plug WAN port in Internet for remote access.

LAN

User can set the LAN port, so that you can remote access the NVR through Web page, platform, rtsp.

1. Go to Main Menu > Networks > Networks > LAN.

Figure 89 LAN Interface



2. Configure the settings for the connection parameters.

Table 26 LAN Parameters

Parameter	Description
IP Address	Enter the IP address and configure the corresponding subnet mask and default gateway. IP address and default gateway must be in the same network segment.
Subnet Mask	
Default Gateway	Enter the IP address and configure the corresponding subnet mask and default gateway.

3. Click APPLY.

Configuring Router

Connect the Device with the LAN port on the router to connect into the LAN.

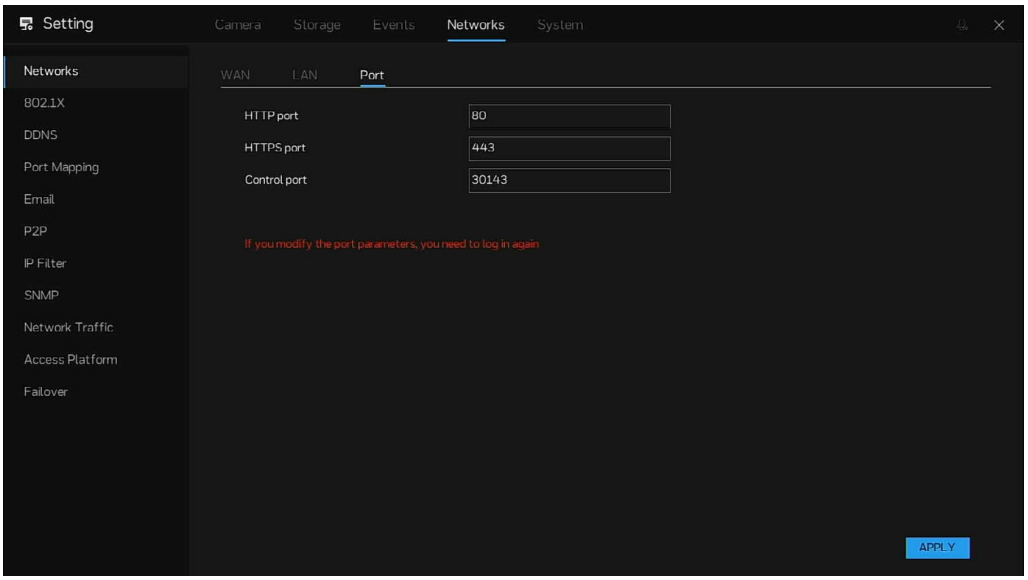
Port

You can remote access the NVR Web through IP different ports.

1. Go to Main Menu > Networks > Networks > Port.

   The Port interface is displayed.

Figure 90 Port Interface



2. Configure the settings for the connection parameters.

Note: If the port parameters are modified, then the device will be restarted.

Table 27 Port Parameters

Parameter	Description
HTTP Port	The default value setting is 80. You can enter the value according to your actual situation. If you enter other value, for example 70, you should enter 70 after the IP address when logging in the Device by browser.
HTTPS Port	HTTPS communication port. The default value setting is 443. You can enter the value according to your actual situation.
Control port	The default value setting is 30413. You can enter the value according to your actual situation.

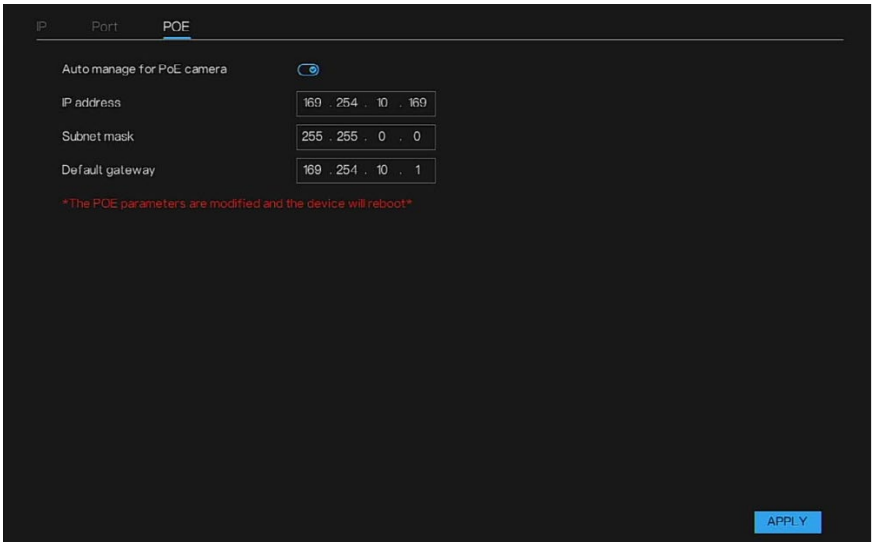
3. Click APPLY to complete the settings.

POE

This function is only applicable for PoE NVR.

1. Go to Main Menu > Networks > Networks > POE.

Figure 91 POE



2. The default Auto manage for PoE camera is open. Users can set the PoE camera IP parameters manually.
3. Click APPLY to complete the settings.

Note: When the camera via POE, and the auto manage for POE camera is enabling, icon *can be shown in channel list.*
The PoE parameters are modified and the device will reboot.

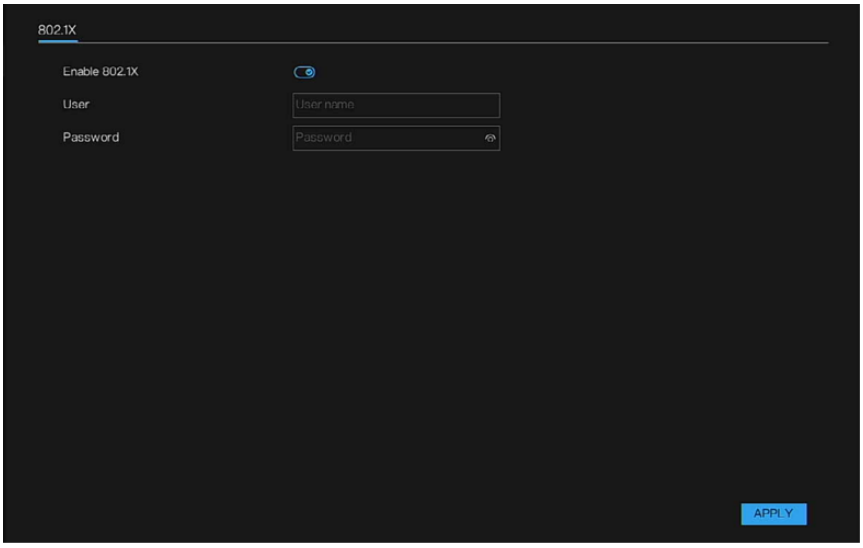
802.1X

The 802.1x protocol is an access control and authentication protocol based on Client/Server. It can restrict unauthorized users/devices from accessing LAN/WLAN through the access port. User can access the NVR through 802.1X account.

1. Go to Main Menu > Networks > 802.1X.

   The 802.1X interface is displayed.

Figure 92 802.1X Interface



2. Enable function, enter the 802.1X account user name and password.
3. Click APPLY to complete the settings.

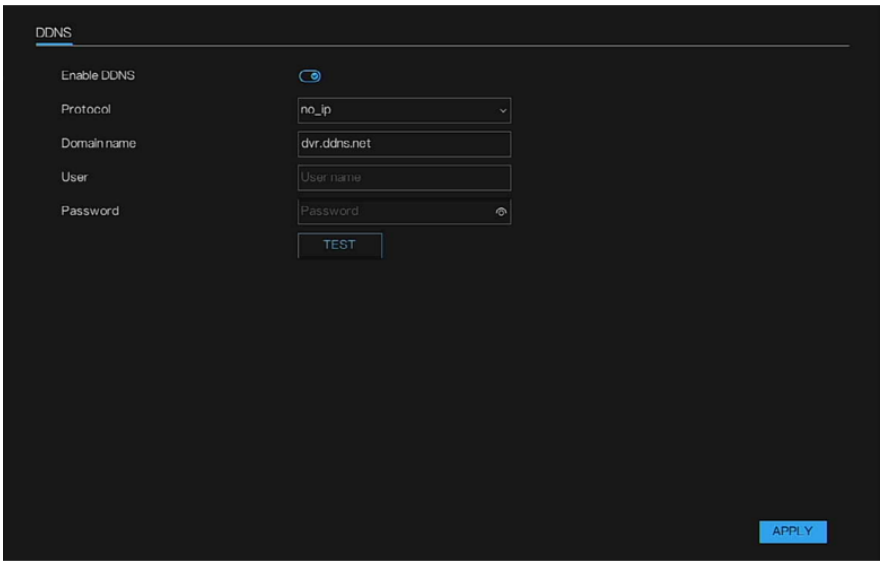
DDNS

DDNS (Dynamic Domain Name Server, dynamic domain name service). User can use the DDNS account to access the NVR.

1. Go to Main Menu > Networks > DDNS.

   The DDNS interface is displayed.

Figure 93 DDNS Interface



2. Enable function, choose the protocol from drop-down list, no_ip / autodns / dyndns / 3322.
3. Enter the domain name.
4. Enter the DDNS account user name and password.
5. Click APPLY to complete the settings.

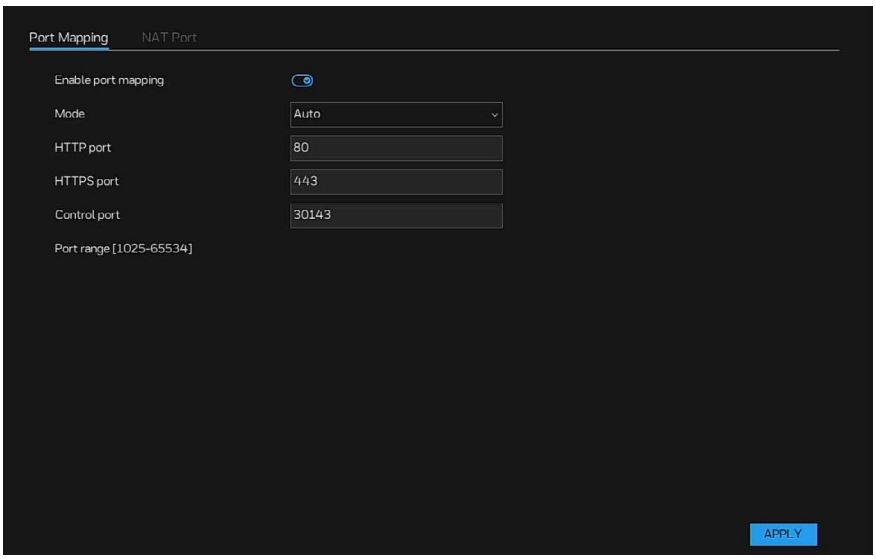
Port Mapping

You can map the relationship between the LAN and the WAN to access the Device on the LAN through the IP address on the WAN.

1. Go to Main Menu > Networks > Port Mapping.

   The Port Mapping interface is displayed.

Figure 94 Port Mapping Interface



2. Enable the function to start set the parameters.

3. You can choose auto or manual mode to set.
4. Configure the settings for the manual port parameters.

Table 28 Port Mapping Parameters

Parameter	Description
HTTP Port	The default value setting is 80. You can enter the value according to your actual situation. If you enter other value, for example, 70, and then you should enter 70 after the IP address when logging in the Device by browser.
HTTPS Port	HTTPS communication port. The default value setting is 443. You can enter the value according to your actual situation.
Control port	The default value setting is 30413. You can enter the value according to your actual situation.

Note: The manual port range should be 1025-66534.

5. Click APPLY to complete the settings.

   In the browser, enter http:// IP: HTTP port. You can visit the LAN Device.

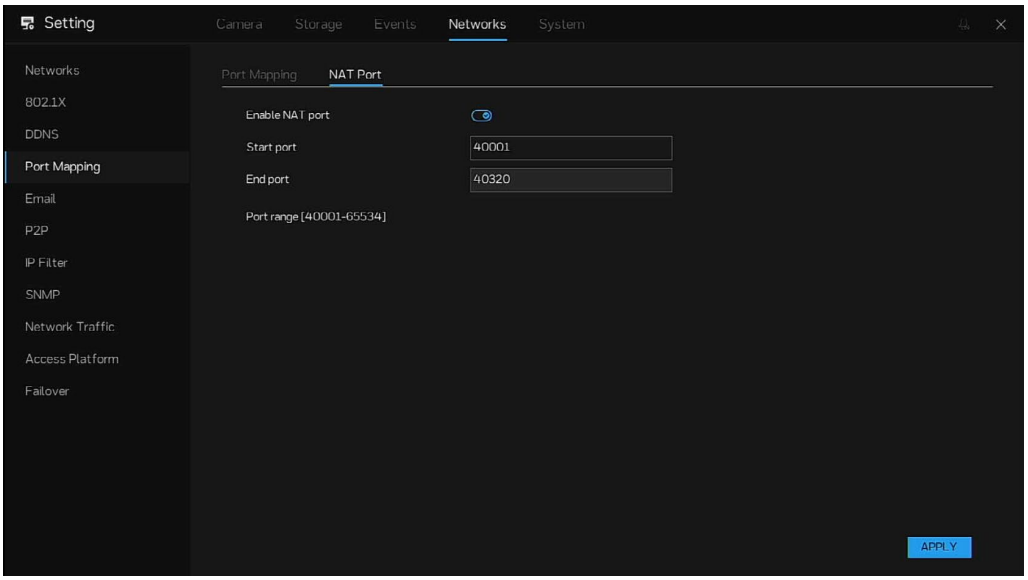
NAT Port

NAT port (network address translation) user can through NAT port to access the channels of NVR. User can set the start port, and it will generate the end port automatically. We will view the NAT port when we access the channel through clicking icon at Web interface.

1. Go to Main Menu > Networks > Port Mapping > NAT Port.

   The NAT Port interface is displayed.

Figure 95 NAT Port Interface



2. Enable the function to set port.

3. Click APPLY to complete the settings

Email

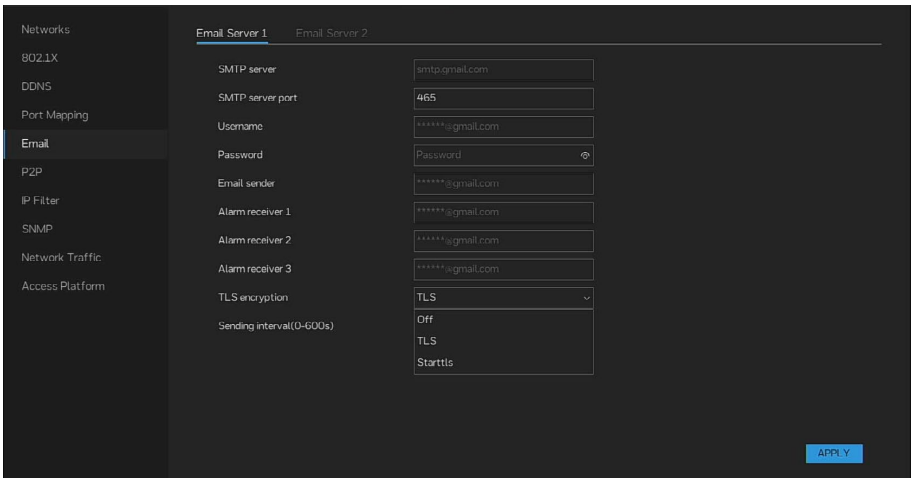
If the simple mail transfer protocol (SMTP) function is enabling, the device automatically sends alarm information to specified email addresses when an alarm is generated. User can use two mailboxes to send information.

You can configure the email settings to enable the system to send the email as a notification when there is an alarm event occurs.

1. Go to Main Menu > Networks > Email.

   The Email interface is displayed.

Figure 96 Email Interface



2. Configure the settings for the email parameters.

Table 29 Email Parameters

Parameter	Description
SMTP server	Enter the address of SMTP server of sender's email account.
SMTP server port	Enter the port value of SMTP server. The default value setting is 25. You can enter the value according to your actual situation.
Username	Enter the username and password of sender's email account.
Password	
Email sender	Enter the email address of mail receiver(s).
Alarm Receivers	Enter the emails of receivers that you want to receive the notification. The Device supports up to three mail receivers.
TLS encryption	Select the encryption type: **TLS** (default value), **Starttls, Off**. Set the parameter based on the encryption mode support by the SMTP server.
Sending Interval(0-600s)	This is the interval that the system sends an email for the same type of alarm event, which means, the system does not send emails caused by frequent alarm events. The value ranges from 0 to 600. 0 means that there is no interval.

Parameter	Description
TEST	Click **TEST** to test the email sending function. If the configuration is correct, the receiver's email account will receive the email. Before testing, click **Apply** to save the settings.

3. Click APPLY to complete the settings.

P2P

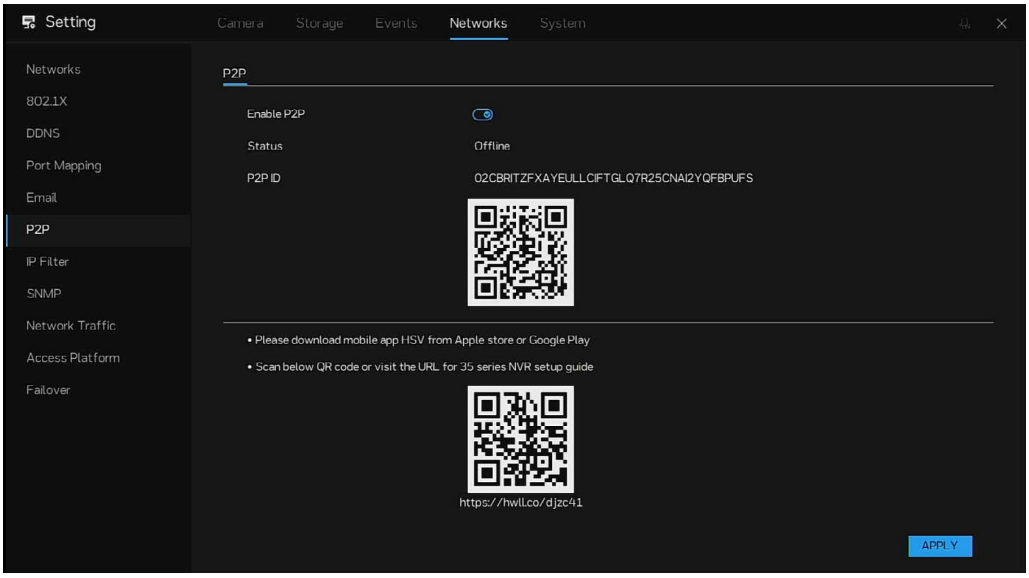
P2P is a kind of convenient private network penetration technology. You do not need to apply for dynamic domain name, doing port mapping or deploying transit server. You can add NVR devices through the below way to achieve the purpose of managing multiple NVR devices at the same time.

Note: Connect the NVR device to the Internet, otherwise P2P cannot run properly.

1. Go to Main Menu > Networks > P2P.

   The P2P interface is displayed.

Figure 97 P2P Interface



2. Enable the P2P function.

   After the P2P function is enabled and connected to the Internet, the system will collect your information for remote access, and the information includes but not limited to MAC address and device serial number.

3. Enable P2P forwarding.

   The device information will be forwarded by the P2P servers to keep connecting when the connection between the mobile phone client/HSV platform and the device is failed.

Note:

- *There may be security risks to enable P2P forwarding. Please use this feature with caution.*
- *Users can scan the below second QR code to get the NVR setup guide.*

You can start adding the device by:

- HSV mobile phone client: Use your mobile phone to scan the QR code to add the device into the mobile phone client.
- HSV PC client: You can choose P2P to add a device by HSV PC client.

For security, you must log in to the cloud account before adding a device via P2P.

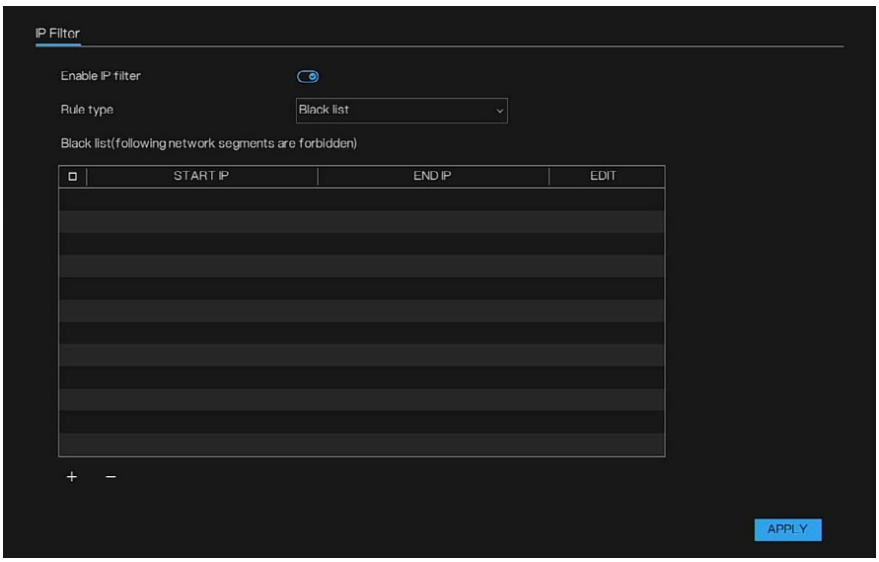
IP Filter

You can set whitelist which are allowed the IP address to access the NVR, or set blacklist which are forbidden the IP address to access the NVR.

1. Go to Main Menu > Networks > IP Filter.

The **IP Filter** interface is displayed.

Figure 98 IP Filter



2. Enable the function, choose the rule type (blacklist or whitelist).

   Black list: IP address in specified network segment to prohibit access.

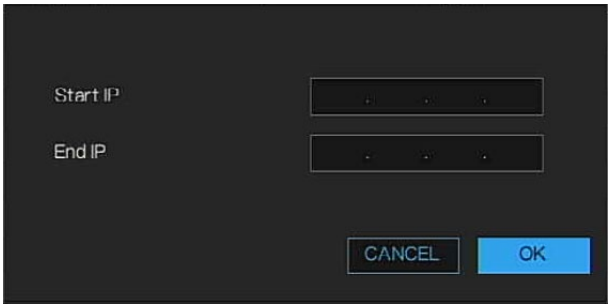
   White list: IP address in specified network segment to allow access

   Select a name in the list and click Delete to delete the name from the list.

   Select a name in the list and click Edit to edit the name in the list.

   Only one rule type is available, and the last rule type set is efficient.

Figure 99 Add IP to Filter



3. Click OK to save the IP filer.
4. Select the setting IP, click – to delete the IP segments.
5. Click APPLY to complete the settings.

SNMP

You can connect the device with some software such as MIB Builder and MG-SOFT MIB Browser to manage and control the Device from the software.

- Install the software that can manage and control the SNMP, such as MIB Builder and MG-SOFT MIB Browser
- Obtain the MIB files that correspond to the current version from the technical support.

Note: This function is for some series only.

1. Go to Main Menu > Networks > SNMP.

   The SNMP interface is displayed.

Figure 100 SNMPv1/2

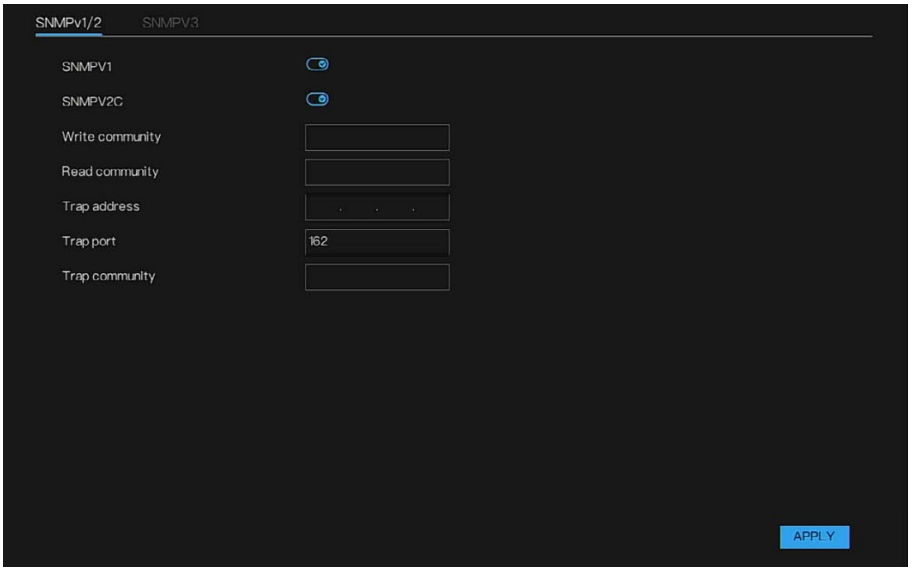
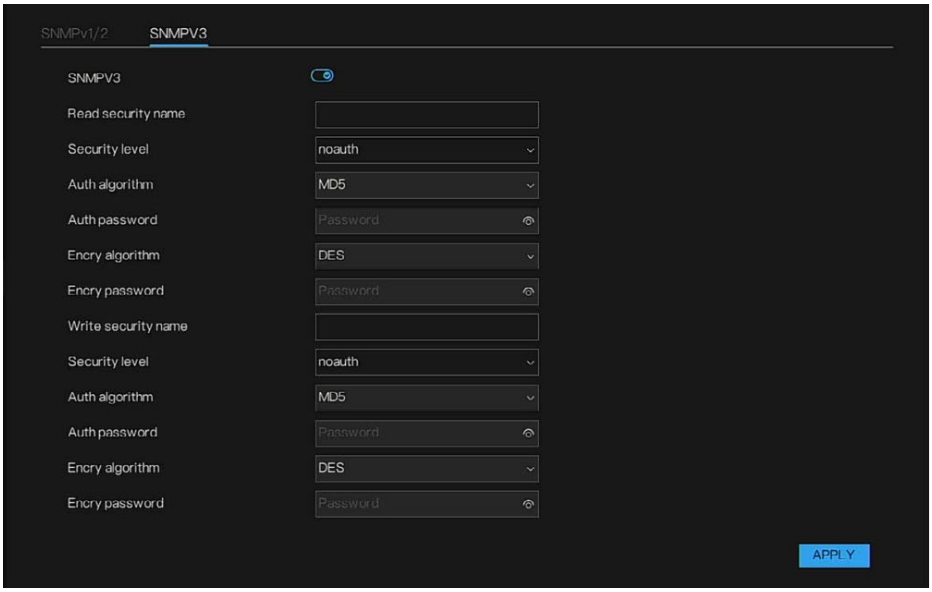


Figure 101 SNMPV3



2. Configure the settings for the SNMP parameters and click APPLY.

Table 30 SNMP Parameters

Parameter	Description
SNMPV1 SNMPV2C	Version of SNMP. SNMPV1 and SNMPV2C use communities to establish trust between managers and agents. Agents support three community names, write community, read community and trap
Write community	Name of write community.
Read community	The write community only can modify data.
Trap address	Name of read community.
Trap port	The write community only can read data.
Trap community	IP address of the trap.
SNMPV3	Management port of accepting message from trap.
Read security name	community string of trap.
Write security name	The trap community string allows the manager to receive asynchronous information from the agent.
Security level	Version of SNMP.
Auth algorithm	SNMPv3 uses community strings, but allows for secure authentication and communication between SNMP manager and agent.
Auth password	Name of read security.
Encry algorithm	Name of write security.
Encry password	Security Level between SNMP manager and agent, includes three levels:

3. Compile the two MIB files by MIB Builder.
4. Run MG-SOFT MIB Browser to load in the module from compilation.

5. On the MG-SOFT MIB Browser, enter the Device IP that you want to manage, and then select the version number to query.
6. On the MG-SOFT MIB Browser, unfold the tree-structured directory to obtain the configurations of the Device, such as the channels quantity and software version.

Network Traffic

At the **Network Traffic** interface, you can view the send rate and receive rate. The status of LAN(S) are shown in list.

Go to **Main Menu > Networks > Network Traffic**. The Network Traffic interface is displayed.

Figure 102 Network Traffic Interface

Access Platform

The NVR can access to HSV platform, enable to encrypt the connection, there are five mode to access platform, such as HSV encrypt, SIRA, RSTP, ONVIF, CGI.

1. Go to Main Menu > Networks > Access Platform.

   The Access Platform interface is displayed.

Figure 103 Access Platform Interface

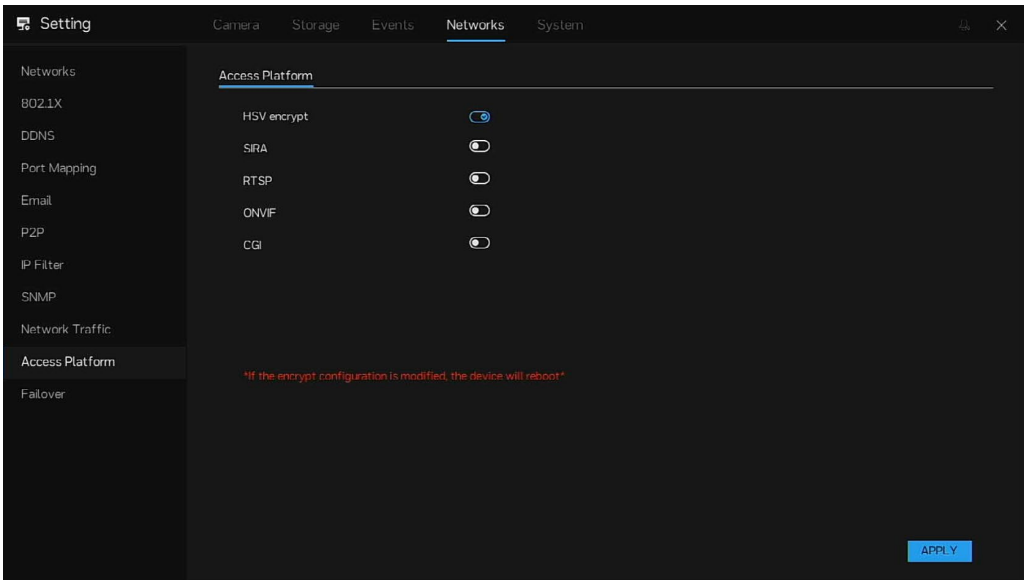
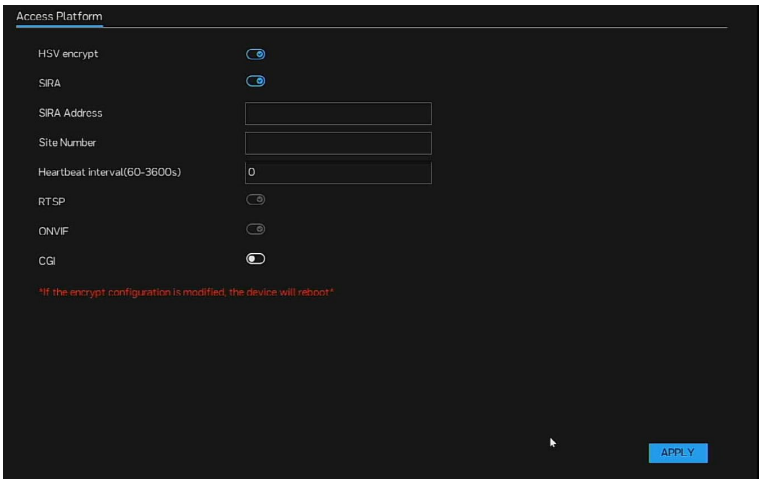


Figure 104 Access Platform -Enable SIRA Interface



Configuring SIRA

1. Input the SIRA address, SIRA number.
2. Input value ranges from 60 to 3600 as heart beat interval.
3. Click APPLY to save settings. The NTP server will be update automatically, and the time zone will switch to GMT +4:00.
4. Encrypt the device, when you add the NVR to HSV platform, choose the private protocol(encrypt).
5. Click APPLY to save the settings.

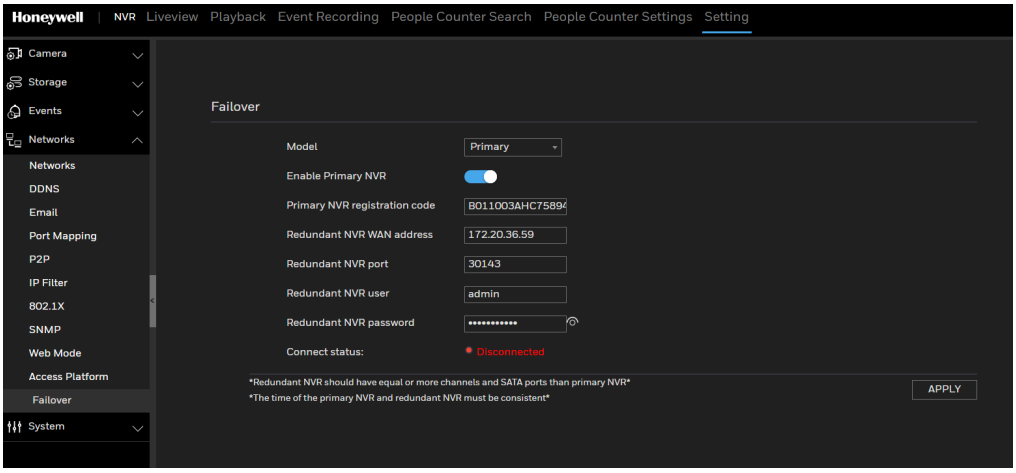
Failover

Failover is a backup operational mode that automatically switches to a redundant NVR, if the primary NVR is disconnected or power is off. Some models support failover function. When the primary NVRs are breakdown, the redundant NVR can keep working as failover.

1. Go to Main Menu > Networks > Failover.

   The Failover interface is displayed.

Figure 105 Failover Interface



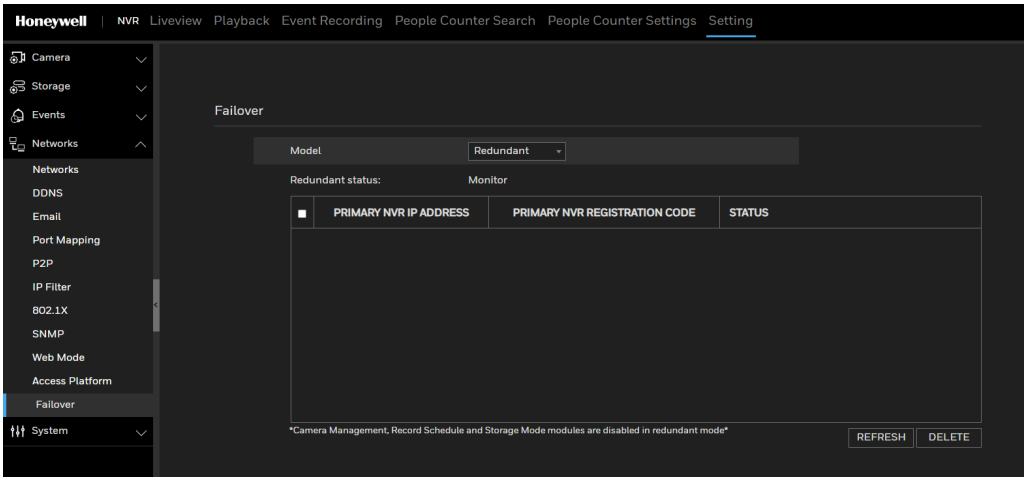
Choose the mode to primary. Enable Primary NVR. Set the parameters of redundant NVR.

Table 31 Enable Primary NVR Parameters

Parameter	Description
Enable Primary NVR	Enable to connect to the redundant NVR for security.
Redundant NVR WAN address	The network information of redundant NVR. The channel and disk numbers of redundant NVR cannot be less than that of primary NVR.
Redundant NVR port	
Redundant NVR user	
Redundant NVR password	
Redundant NVR serial No	
Connect status	Disconnected / Connection timed out / Username or password error/Redundant NVR does not support failover.

2. Click APPLY to save the settings.

Figure 106 Failover Redundant Mode Interface



The redundant NVR cannot configure camera management, record schedule and storage mode modules.

Note:

- *HSV supports failover function for windows and mac version. And it is not applicable for App.*
- *HN351604XXR doesn't support failover due to it is PoE model. When PoE port is used to connect with cameras, failover doesn't work if original NVR is down. All other models support failover function.*
- *Redundant NVR should have equal or more channels and SATA ports than primary NVR.*
- *When a lower channel NVR is taken over by a higher channel NVR, bitrate limitation for each channel will follow higher channel NVR setting.*
- *The lower and higher channels NVR need to be kept in the same version FW.*
- *The redundant NVR cannot configure camera management, record schedule and storage mode modules.*
- *It is needed to disable DHCP in network setting for the redundant NVR.*
- *It is needed to enable NTP for both primary NVR and redundant NVR for keeping time synchronized.*
- *if no available disk (disk error/no disk/disk didn't format/disk is full in redundant NVR), then the failover connection will be refused. the primary NVR will receive error message that there is no available disk in redundant NVR.*

Configuring System Settings

Information

Basic Information

Go to **Main Menu > System > Information**. You can check device basic information such as **System, Networks, Channel, Disk, and Alarm**.

Figure 107 Network Status

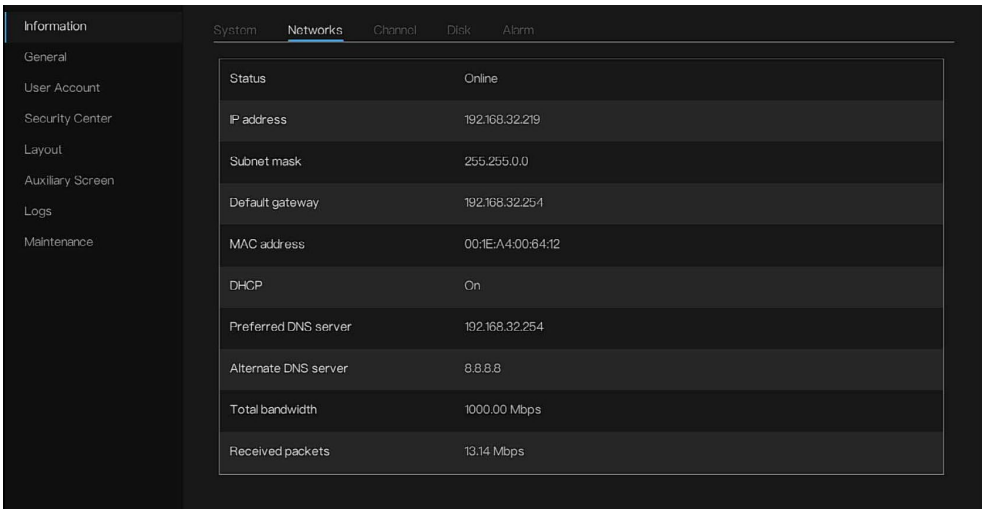


Figure 108 System Status

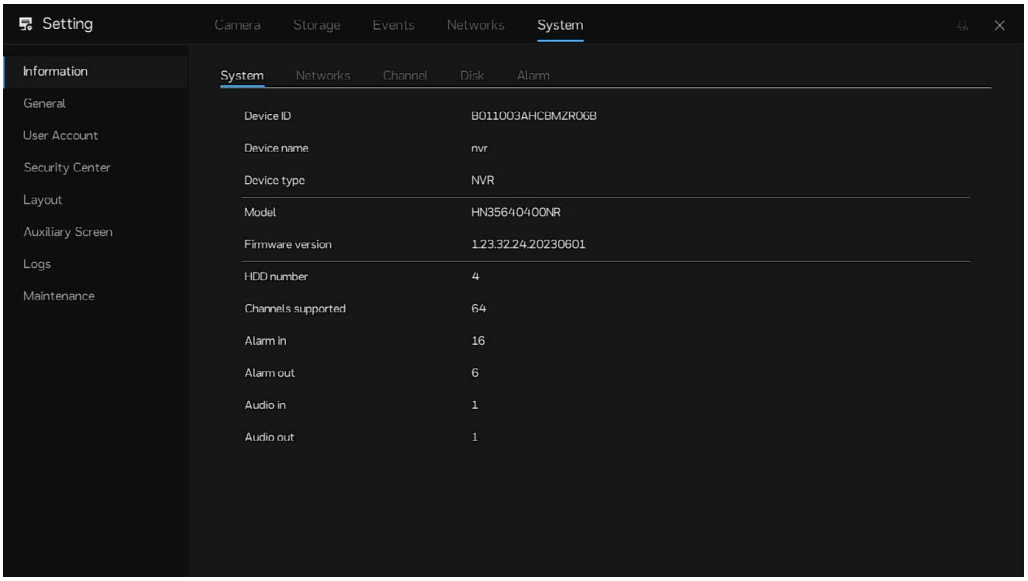


Figure 109 Channel Status

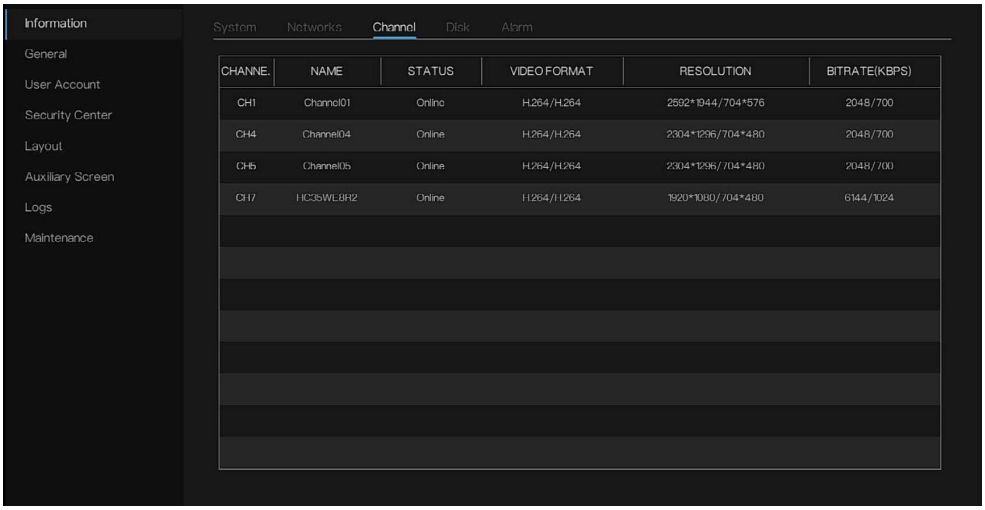


Figure 110 Disk Usage

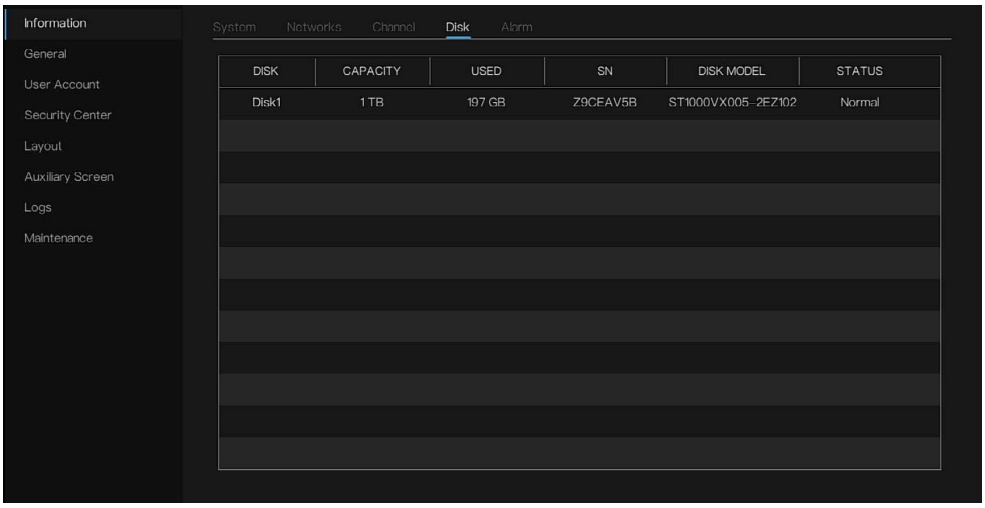
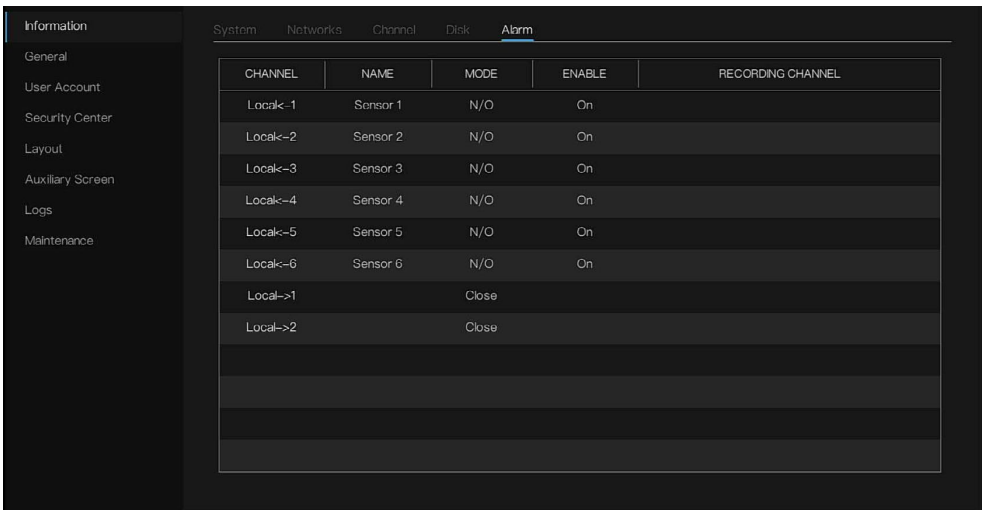


Figure 111 Alarm Status

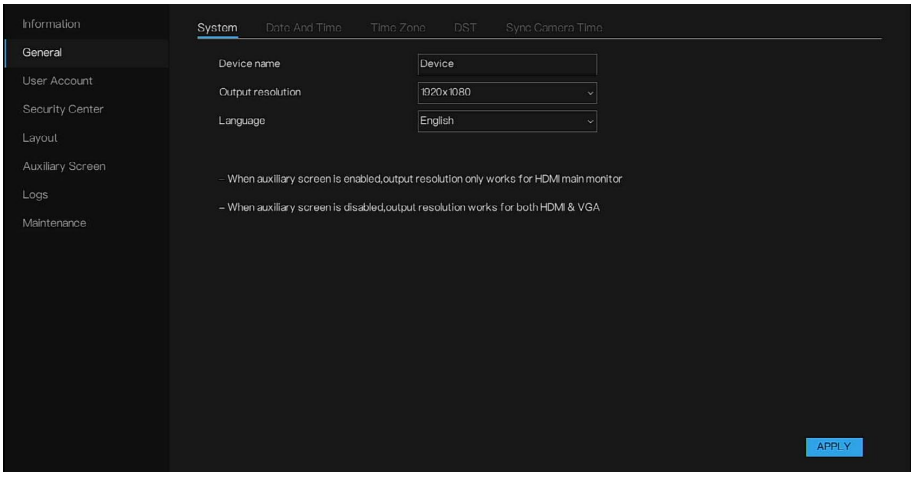


General

System

1. Go to Main Menu > System > General > System.

Figure 112 System



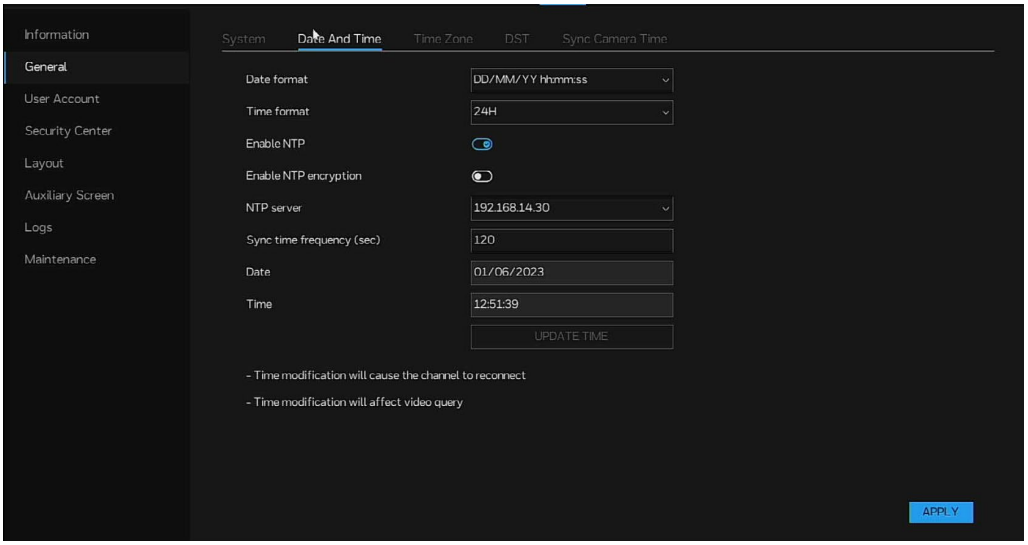
2. Input the device name.
3. Choose the output resolution and language.
4. Click APPLY to complete the settings.

*Note: For device name, special characters such as {} *<>?!#$~\/ are not supported in the web interface.*
If you modify the Output resolution, the device will restart.
When the auxiliary screen is enabled, the output resolution only works for HDMI main monitor; When the auxiliary screen is disabled, the output resolution works for both HDMI & VGA. VGA supports up to 1080p.

Date And Time

1. Go to Main Menu > System > General > Date And Time.

Figure 113 Date and Time



2. Configure the settings for date and time parameters.

Table 32 Data and Time Parameters

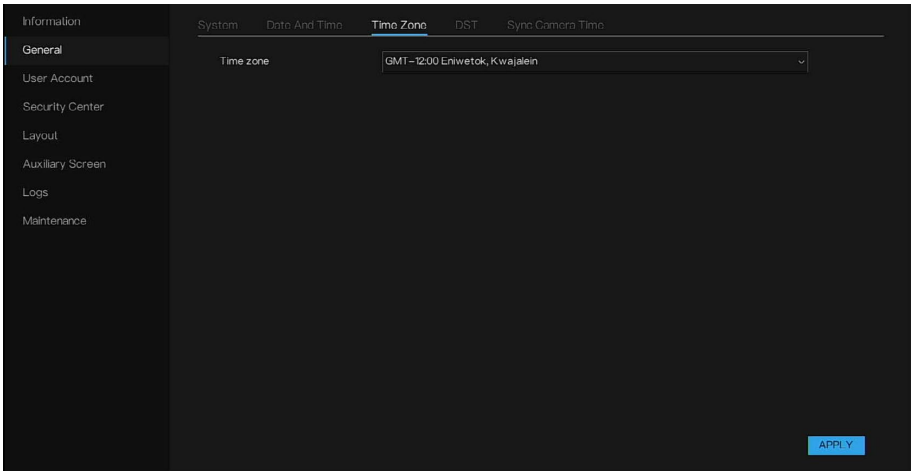
Parameter	Description
Date format	Select a date format for the system.
Time format	Select **12H** or **24H** for the time display style.
Enable NTP	Enable the NTP function to sync the Device time with the NTP server. **If NTP is enabled, device time will be automatically synchronized with server.**
Enable NTP encryption	Enable the NTS to keep safety.
NTP server	Choose the NTP server to synchronize. If at **Network > Access platform** interface, enable SIRA, NTP server will be update automatically**.**
Sync time frequency (sec)	Sync the NTP server for the setting time. **Do not change the system time randomly; otherwise the recorded video cannot be searched. It is recommended to avoid the recording period or stop recording first before you change the system time.**
Date (Time)	If user don't enable the sync time, you can modify the Date (Time) manually.

Click APPLY to save settings.

Time Zone

1. Go to Main Menu > System > General > Time zone.

Figure 114 Time Zone

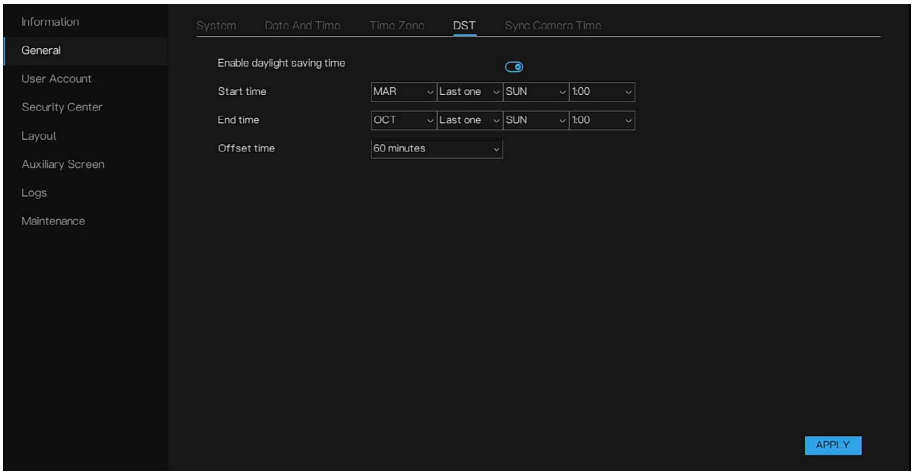


2. Choose time zone from the drop-down list.
3. Click APPLY to save settings.

DST

1. Go to Main Menu > System > General > DST.
2. Enable the daylight saving time function.

Figure 115 DST



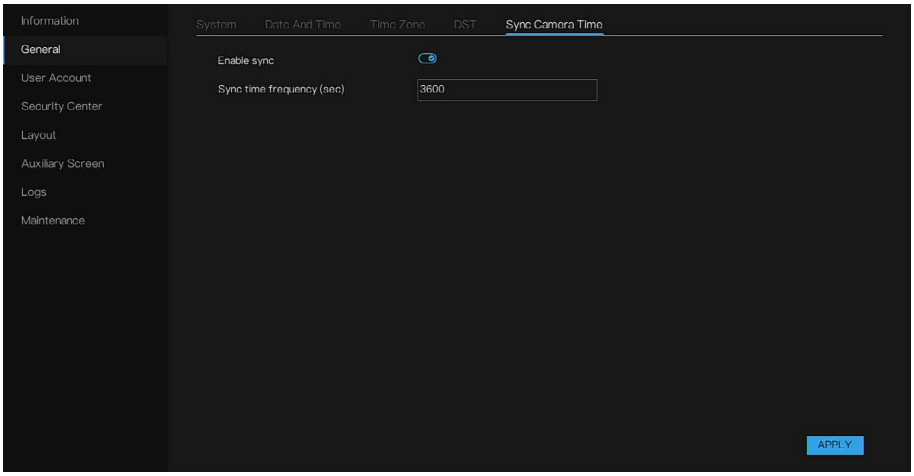
3. Configure the start time and end time for the DST. For the start time, the time will delay one hour (or half hours, it depends on the local rules).
4. Click APPLY to save settings.

Note: The DST setting will affect the recording time. The start time will null 60 minutes (default value) / 30 minutes / 120 minutes. The end time will have two parts recording.

Sync Camera Time

1. Go to Main Menu > System > General > Sync Camera Time.
2. Enable the sync camera time function.

Figure 116 Sync Camera Time



3. Input the sync time frequency.
4. Click APPLY to save settings.

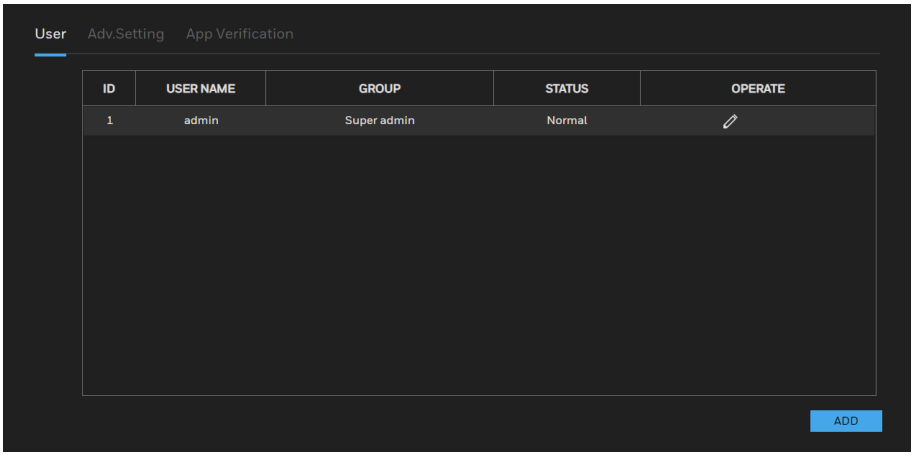
User Account

User

In User interface, you can edit the current account and create new users accounts.

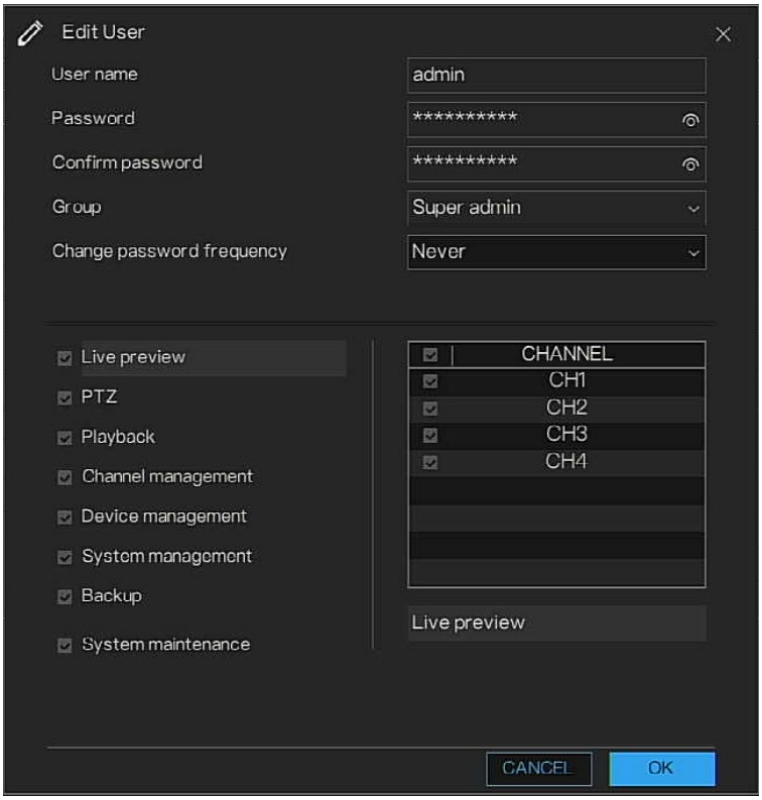
1. Go to Main Menu > System > User Account > User.

Figure 117 User



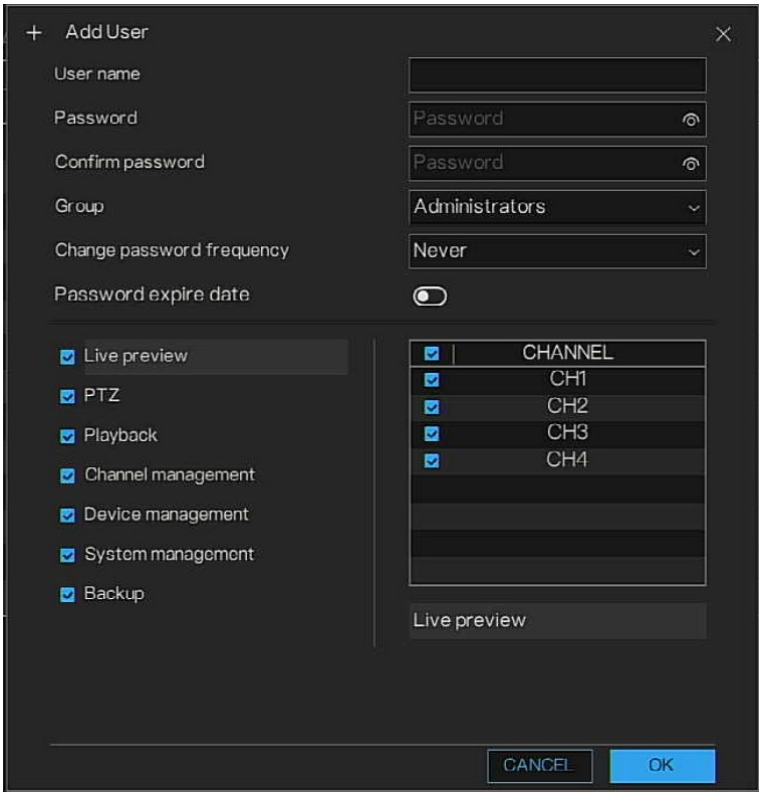
2. Click to modify account information, click OK to save the setting.

Figure 118 Edit User



3. Click ADD to add new account.

Figure 119 Add User



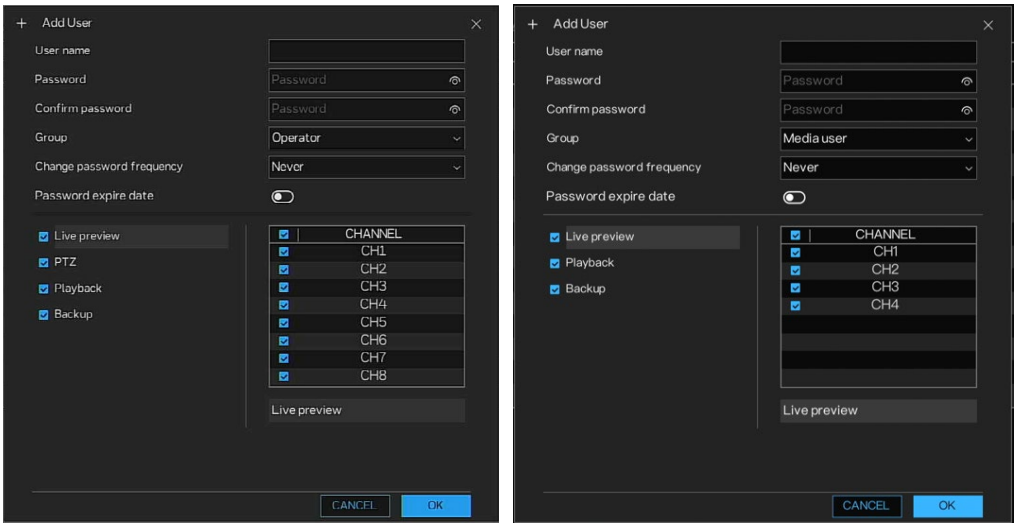
4. Enter the user name, password, select the group it belongs to from the drop-down list, set the change password frequency. Then you can

check the corresponding rights for current user.

Table 33 Add Interface Parameters

Parameter	Description
User Name	Enter a user name and password for the account.
Password	For user name should meet the rules: only these special characters are supported !@#$*+-=%&"` ().,/'.:;<>?^\|~[] Password requirement; -The password must be between 8 to 20 -Upper & lower case letters -At least on number -Support the symbol -_@%^.~?#$=+":,& only and must contain at least one of them -The first character must be a number or letter -No space
Confirm password	Re-enter the password.
Group	Select a group for the account, there are three groups, administer/ operator /media user. The user rights must be within the group permission.
Change password frequency	To keep safety of device to modify the password regularly.
Password expire date	Enable to set the duration of user account.

Figure 120 Permission



5. Click OK.

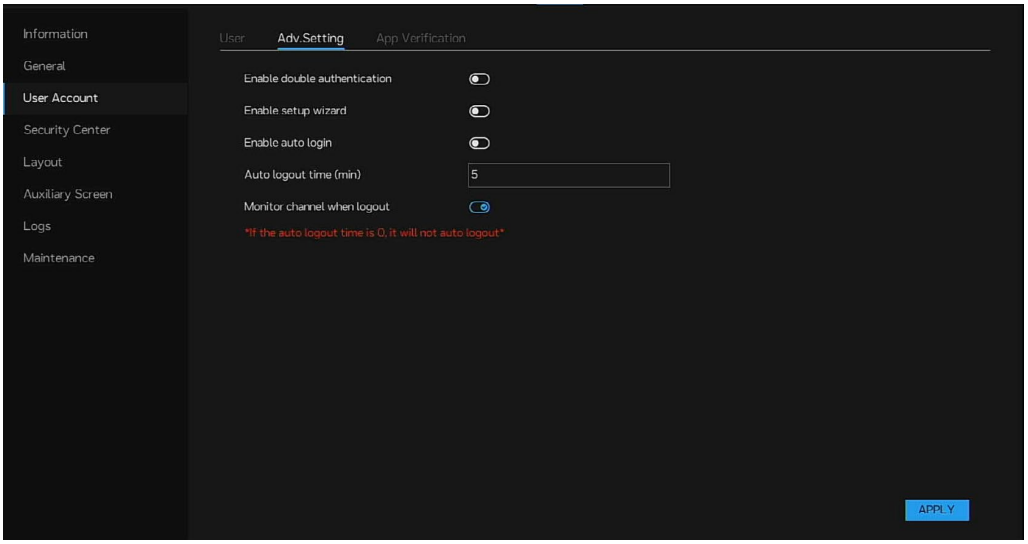
   Click to modify the corresponding user information, click to delete the user.

Adv. Setting

1. Go to Main Menu > System > User Account > Adv. Setting.

   The Adv. Setting interface is displayed.

Figure 121 Advance Setting

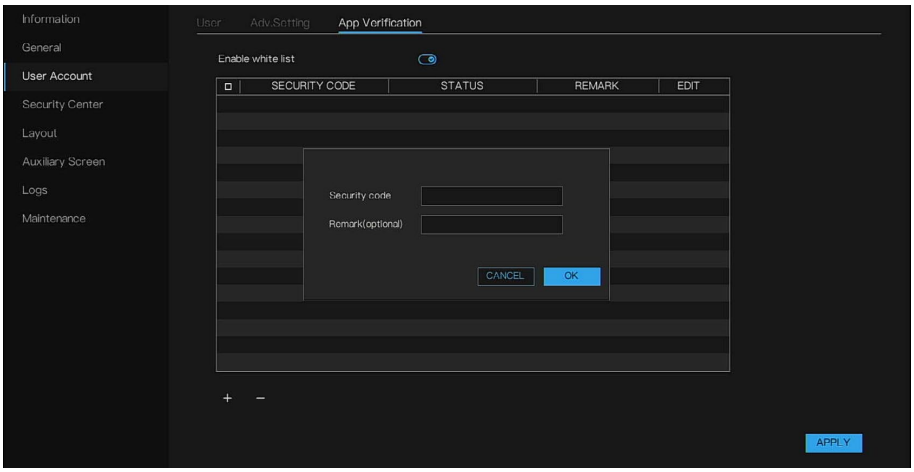


2. Enable Double Authorization which needs two accounts login for authorization. Only non-admin users need authentication after logging in for playback, and only admin users can be used for authentication.
3. Enable Setup Wizard and the wizard will be showing when device power on.
4. Enable Auto login and the device is always login. Else the device will auto logout after setting time. Users can set the logout status (the channels' live videos show or not when the device logout)

App Verification

On the App verification page, you can add security code for the NVR, and then this NVR can be managed by App. When adding the NVR on App, you need to fill in the security you have set.

Figure 122 App Verification

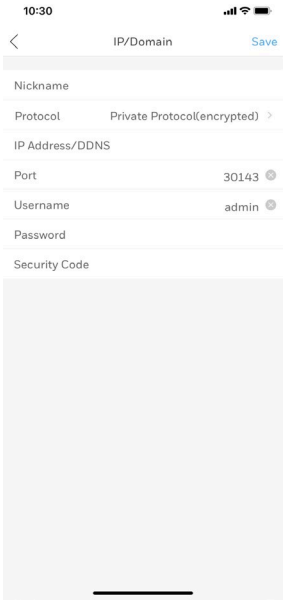


For security code, there are three types of status:

Not activated: The security code is free to be set on the App.

Online/**Offline**: The APP bound with this security code is/isn't connecting to the NVR.

Figure 123 Input Security Code on App



Note:
- *You can add maximum 20 security codes to an NVR and can modify the remarks of them. One security code applies to one APP client. A security code can only be set as numbers up to 32 digits.*
- *One NVR can support maximum 8 APPs for connection and use at the same time, including UI, Web, App and platform.*

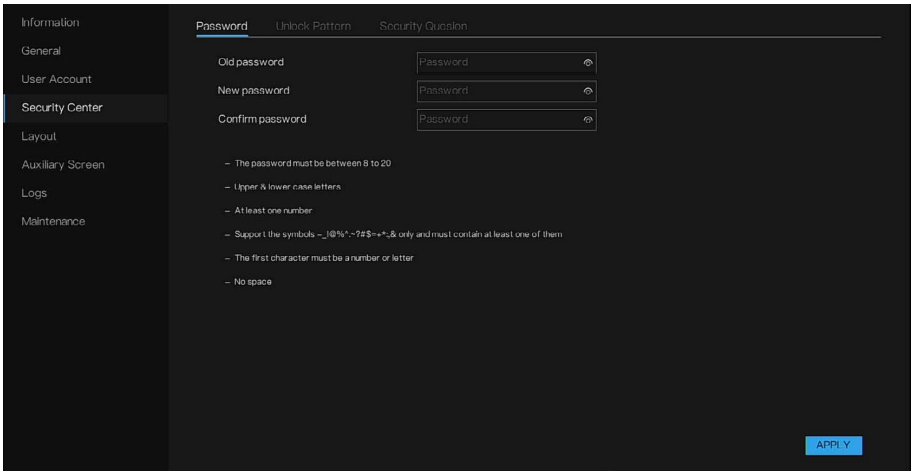
Security Center

Note: *This function is for admin user only.*

Password

1. Go to Main Menu > System > Security Center > Password.
   The Password interface is displayed.

Figure 124 Password



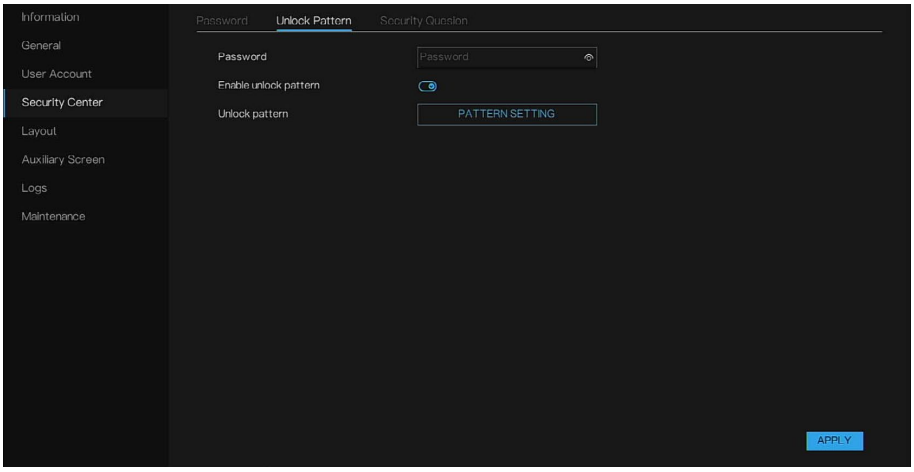
2. Enter the old password, new password and confirm new password.
3. Click APPLY to save the settings.

Unlock Pattern

1. Go to Main Menu > System > Security Center > Unlock Pattern.

   The Unlock Pattern interface is displayed.

Figure 125 Unlock Pattern



2. Input password, and enable unlock pattern so that user login device by drawing pattern.
3. Click PATTERN SETTING to set pattern. The points of pattern cannot be less five.
4. Click APPLY to save the setting.

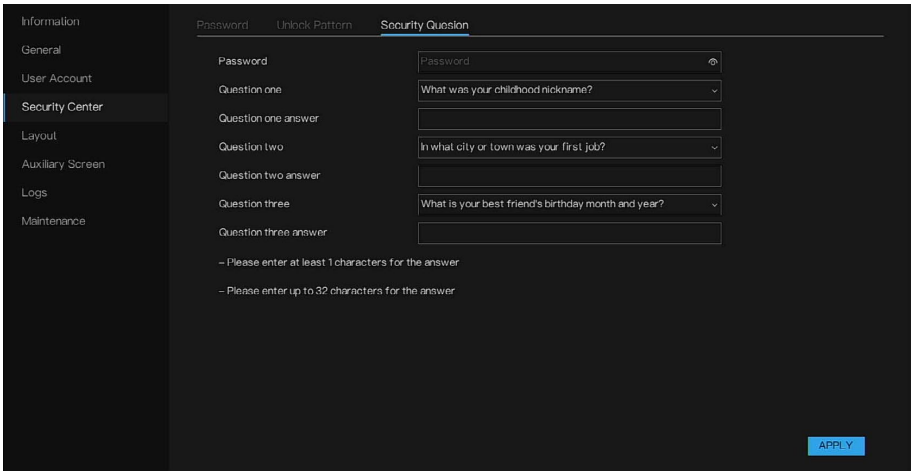
Security Question

You can set security questions and answers. After you successfully answered security questions, you can reset admin account password.

1. Go to Main Menu > System > Security Center > Security Question.

The Security Question interface is displayed.

Figure 126 Security Question



2. Input the password.
3. Input proper security questions and answers.
4. Click APPLY.

   After you successfully set security questions, you can answer the security questions to reset admin password.

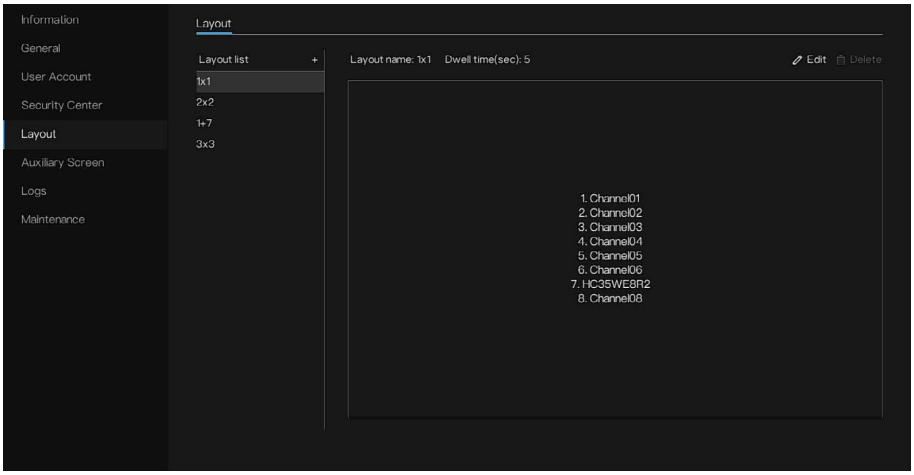
Layout

Set viewing video mode, dwell time in display screen. The layout is set multiple pages to auto sequence.

1. Go to Main Menu > System > Layout.

   The Layout interface is displayed.

Figure 127 Layout



2. Click + to add a new layout. The default layout is one splitting screen.
3. Input the layout name, select dwell time from the SEQ Dwell time drop-down list (the display screen will loop play the real time video according to setting time).

4. Choose the mode of splitting screen at the page bottom; set the display mode of channels by dragging channel to the specific location, or choose the location first, then click the channels to place. One splitting screen can play several channels, the auto sequence is playing as the set pages, for example the first split screen is set two pages (channel 1 and 2), the second split screen is set one page (channel 3), when enable to auto sequence, the showing is channel 1 and channel 3, then show channel 2 and channel 3.
5. Click APPLY to save the setting.

Note: User can add up to 16 layouts.

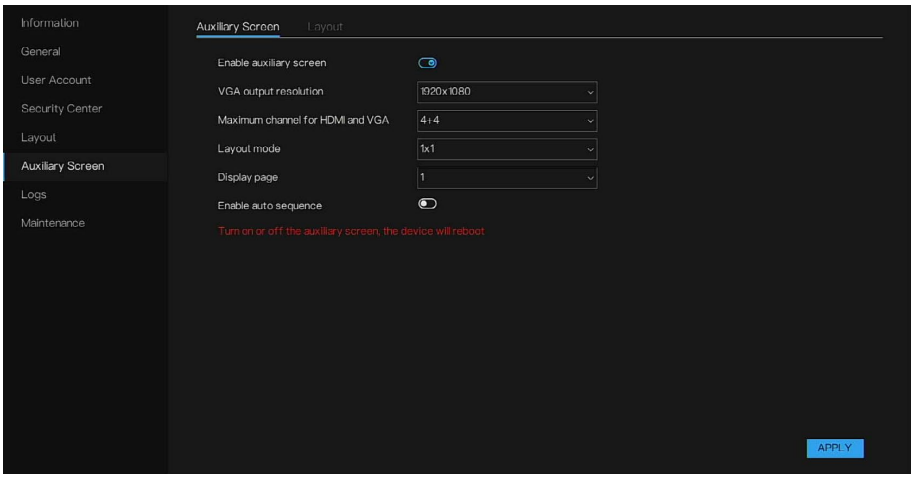
Auxiliary Screen

Note:
- *This function is only applicable for the devices with 8 or more than 8 channels. The main screen is connected by HDMI and the auxiliary screen is connected by VGA. The most supported resolution is 1080p.*

1. Go to Main Menu > System > Auxiliary Screen.

   The Auxiliary Screen interface is displayed.

Figure 128 Auxiliary Screen

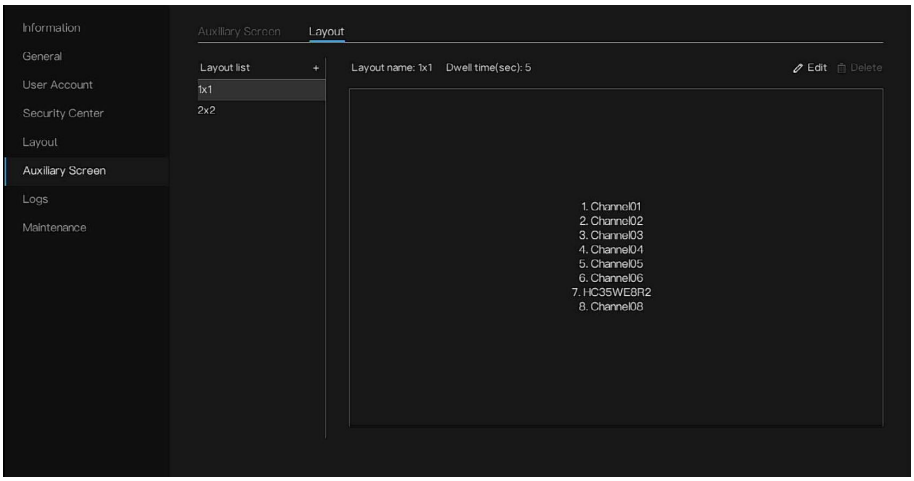


2. Enable the auxiliary screen.
3. Set the VGA output resolution. The most recommended resolution is 1920*1080.
4. Set the Maximum channel for HDMI and VGA as “half+half” of the channels number of the device. For example, if the device is 16 channels, the Maximum channel for HDMI and VGA will be “8+8”).
5. Layout mode can be set as 1x1, 2x2 or 1+7 if the devices is 16 channels (the chosen mode is depending on the number of channels

for the device).

6. Set the display page. The auxiliary screen shows according to the configured display page. The auxiliary screen display can be configured on Layout tab. The number of the display page depends on the configured layout mode. For example, if you set the layout mode as 2 x 2 for a device with 16 channels, you can choose 1/2/3/ 4 for Display page.

Figure 129 Auxiliary Screen – Layout



7. Enable the auto sequence and the auxiliary screen will automatically sequence according to the configured layout.
8. Click APPLY.

Logs

You can view and search the log information, or backup log to the USB device.

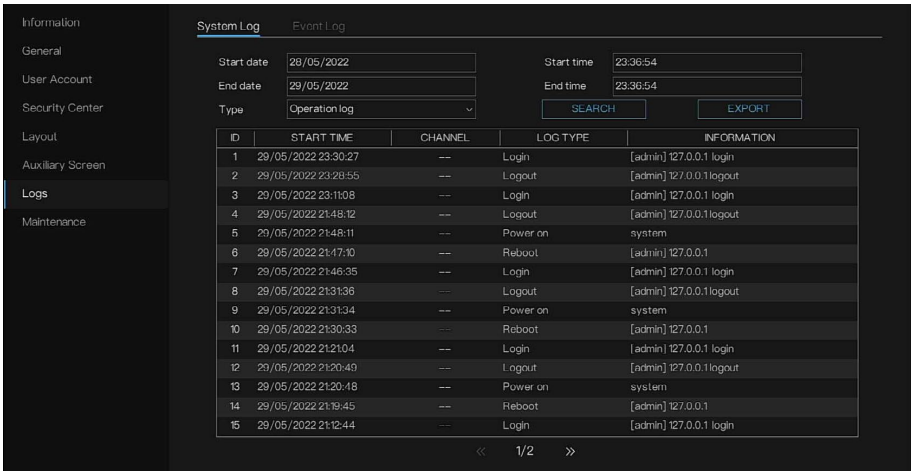
Note: The log record size should not be larger than 20M. If the logs number is larger than 163840, the oldest log will be covered.
Users can search up to 16384 logs every time. If the number of searching logs is larger than 16384, you should reduce the search time.
When the parameters of device configuration are modified, all operation will be recorded to system logs, including App, local UI, HSV client and web interface. The detailed information will show the logs source. For 127.0.0.1, it comes from the client connected by P2P or MPC; For IP address, it comes from web interface or HSV client connected by local network; For local UI, it comes from local UI interface.

System Log

1. Go to Main Menu > System > Logs > System Log.

   The System Logs interface is displayed.

Figure 130 Logs - System Log



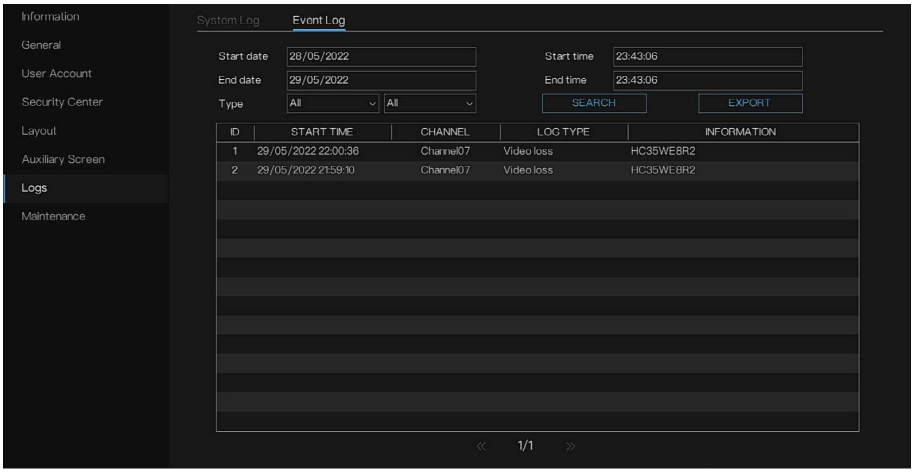
2. In the Start Time box and End Time box, enter the time period to search.
3. In the Type list, select the log type that you want to view and click SEARCH.
4. The search results are showing, click EXPORT to back up the result to USB disk.

Event Log

1. Go to Main Menu > System > Logs > Event Log.

   The Event Logs interface is displayed.

Figure 131 Event Log



2. In the Start Time box and End Time box, enter the time period to search.
3. In the Type list, select the log type that you want to view and click

SEARCH.

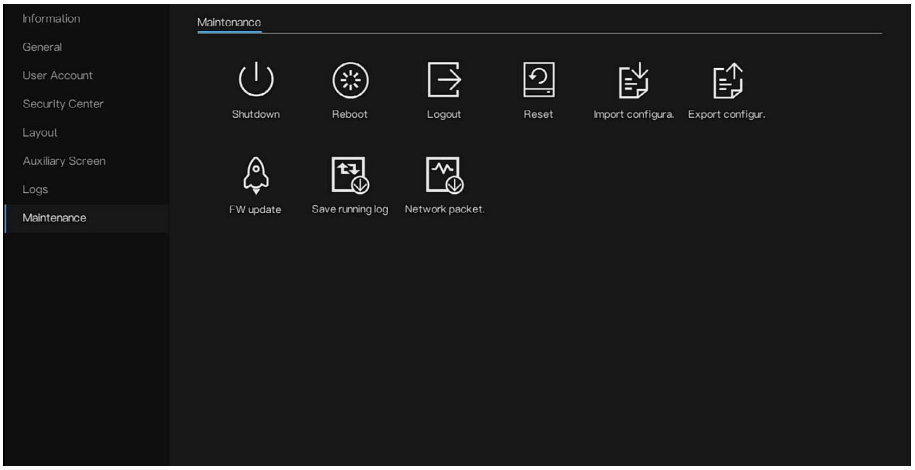
4. The search results are showing, click EXPORT to back up the result to USB disk.

Maintenance

1. Go to Main Menu > System > Maintenance.

   The Maintenance interface is displayed.

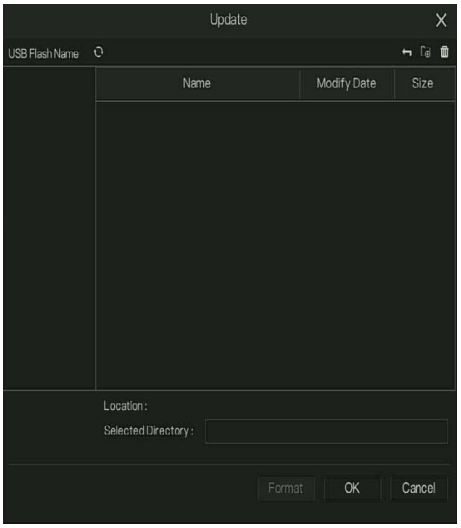
Figure 132 Maintenance



2. Click Shutdown/Reboot/Logout/Reset or update to operate NVR if you need.
3. Click FW Update to update the firmware.

Note: It takes about five minutes to update firmware and then will jump to login interface automatically. If you don't want to wait for five minutes, when the pop-up window shows update 99%, press F5 to refresh the web to go to the login interface.

Figure 133 Update Interface



4. Import and export configuration.

Note: Make sure the USB storage device is inserted; otherwise the upgrading cannot be performed.
When starting the Device, the system automatically checks whether there is a USB storage device connected and any U-boot upgrade file. If yes and the check result of the upgrade file is correct, the system will upgrade automatically.

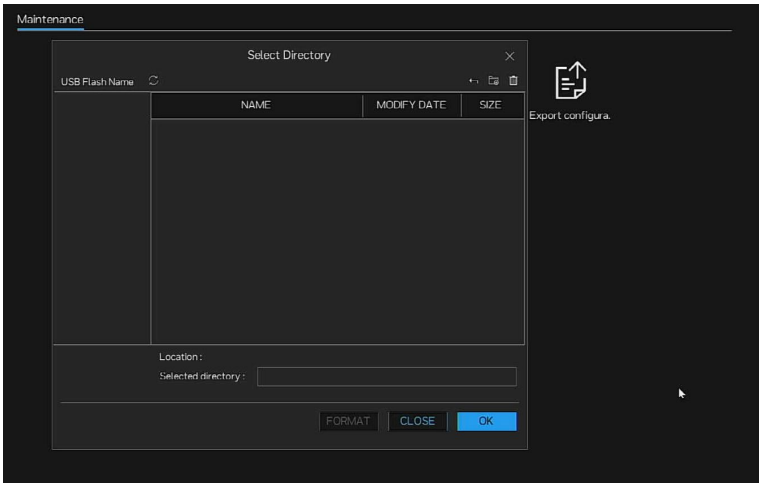
Exporting System Settings

You can export or import the device system settings if there are several devices that require the same setup.

Note: The Import/Export interface cannot be opened if the backup operation is ongoing on the other interfaces.
When you open the Import/Export interface, the system refreshes the devices and sets the current directory as the first root directory.
Click Format to format the USB storage device.

1. Go to Main Menu > System > Maintenance > Import/Export Configuration.
2. Insert a USB storage device into one of the USB ports on the device.
3. Click Import Configuration / Export Configuration to refresh the interface, you can select directory to import or export.

Figure 134 Select Directory to Export

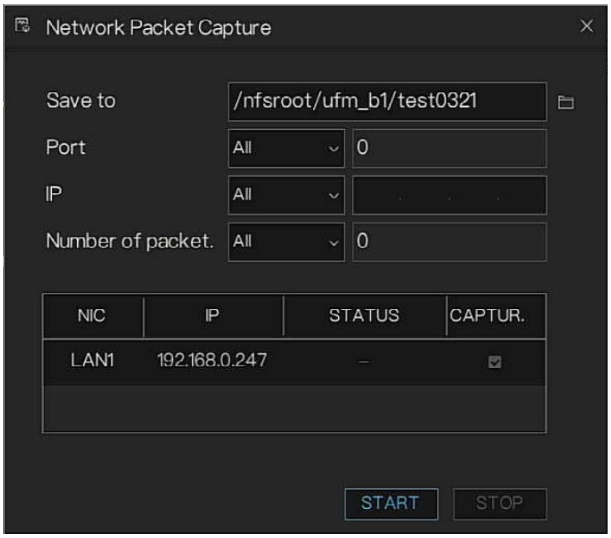


Network Packet Capture

Note: If the NVR is plugged with the USB disk, click the network packet capture and set the relevant parameters of the packet capture. The captured data can be downloaded and used for device problem analysis.

1. Go to Main Menu > System > Maintenance > Network Packet Capture.
2. Click Network Packet Capture to enter.

Figure 135 Network Packet Capture interface



3. Choose the USB path to save the file.
4. Set the port, IP, number of packets captured. The default settings are All, you can choose custom to set.
5. Click START to capture. Click STOP to end capturing. You can analysis the file.

Configuring Live View Settings

After you logged in, the system goes to main menu, click Live view. You can view the monitor video of each channel.

The displayed window amount may vary. The actual product shall prevail.

Live View

On the live view interface, you can view the monitor video of each channel. The corresponding channel displays date, time, and channel name after you overlay the corresponding information. Refer to the following table for detailed information.

Figure 136 Live View Interface

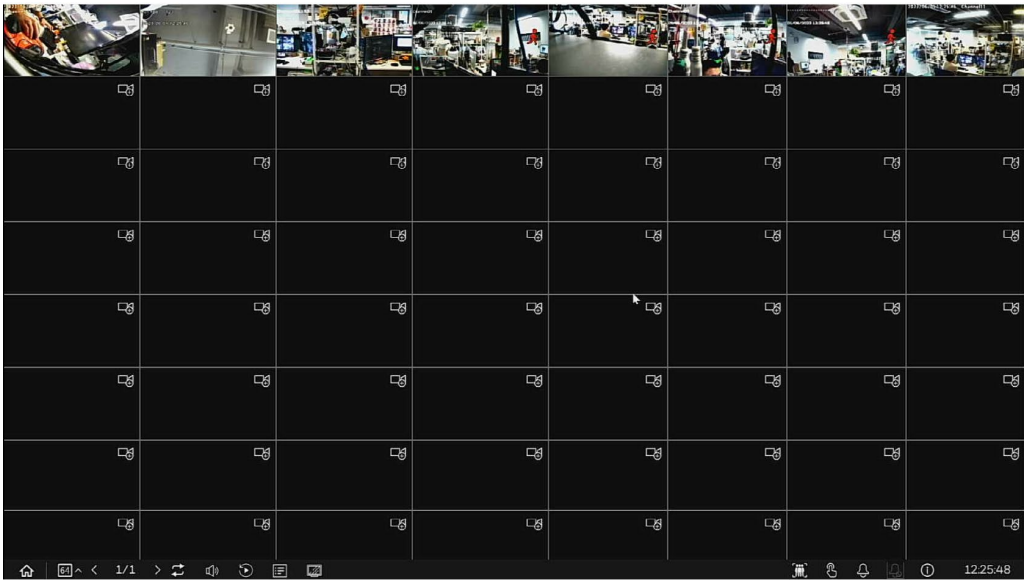


Table 34 Navigation Bar Icons

Icon	Description
	Main menu
	Layout, choose or set the layout to display live view.
	Switch to next page of layout.
	Auto sequence, click to play the live view automatically by layout screen.
	Volume, adjust the volume of Audio Out.
	Playback, click icon to enter the playback interface. The detail please refer to Playback

Icon	Description
	Channel information, select to show channel No. or Stream information. Choose the channel, and the information can be showing on live view.
	Live view strategy, there are three modes, fluency / balanced / real -time.
	People counter OSD.
	Manual alarm, click to enter manual alarm pop-up window. Operate manually the NVR IO alarm input port and channel cameras alarm in ports.
	Event list, show real-time alarm messages.
	Mute alarm
	Clear alarm.
	Information, network, system, channel, disk, alarm information.
	The time of NVR.
	The current channel is recording.
	Alarm, the current channel has motion detection alarm.

Figure 137 Manual Alarm

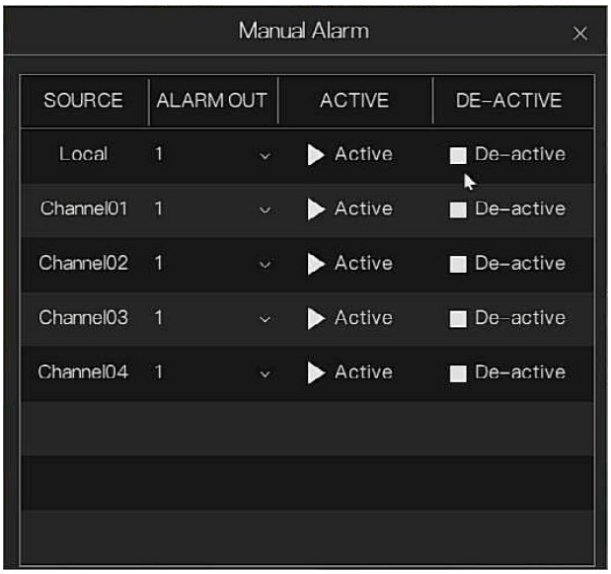


Figure 138 Events List Pop-up Window

Live View Control Interface

Move your mouse to the video of current channel and left-click mouse; you can see system pops up the live view control interface.

Right-click mouse on live view interface, the control bar hides.

Note:
- *Disable the navigation bar if it is displayed on the interface before using this function.*
- *The live view control interface is different depending on the model, and the actual interface shall prevail.*

Figure 139 Live View Control Bar

Table 35 Live view Control Icons

Icon	Description
	Record: manual record The playback time bar shows as yellow
	Instant playback Click to replay instantly. Refer to Instant Playback.
	Audio Open or close the channel audio
	PTZ It uses for monitored and PTZ cameras, click icon to enter PTZ interface, more detail please refer to PTZ Control

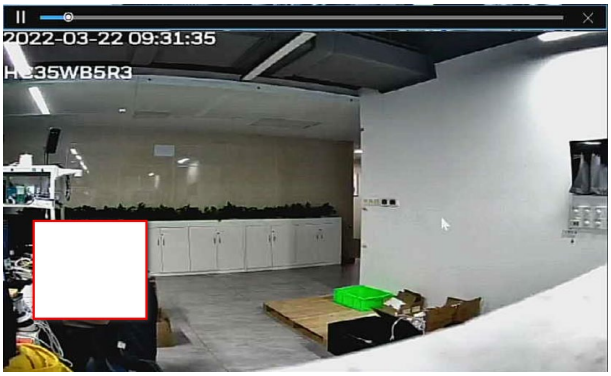
Icon	Description
	Digital zoom
	Image For the detail information, refer to Sensor Setting
	Two-way audio Refer to Two-way Talk.
	Snapshot Refer to Manual Snapshot.
	Wiper For PTZ cameras with wiper, click to control the camera wiper. Each time you click the icon, the camera wiper swipes once.

Instant Playback

You can play back the previous 5 minutes record of current channel.

Click to go to the instant replay interface.

Figure 140 Instant Replay Interface



Instant replay is to playback the previous 5 minutes record of current channel.

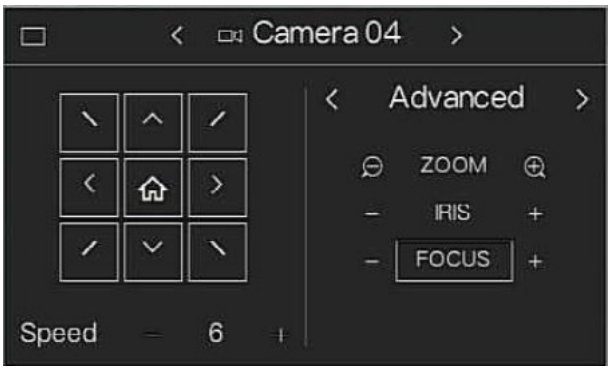
- Move the slider to choose the time you want to start playing.
- Play, pause and close playback.
- The information such as channel name and recording status icon are shielded during instant playback and will not display until exited.
- During playback, screen split layout switch is not allowed.

PTZ Control

PTZ control panel performs the operations such as directing camera in eight directions, adjusting zoom, focus and iris settings, and quick positioning.

Left-click on the live view screen and then select PTZ. The PTZ control panel is displayed.

Figure 141 PTZ Control Panel



Note:
- *The gray button means system does not support current function.*
- *For some series products, the PTZ function is valid in one-window mode.*

Table 36 PTZ Control Panel Parameters

Parameter	Description
Speed	Controls the movement speed. The bigger the value is, the faster the movement will be.
Zoom	: Zoom out : Zoom in
Focus	: Focus far : Focus near
Iris	: Image darker : Image brighter
PTZ movement	Supports eight directions
Preset	Move the PTZ camera to the point location, choose the ID, click SAVE to add to preset; Choose one ID and click GO TO, then the PTZ camera go to preset location directly. There are 255 preset points at NVR, but PTZ cameras can be set 400 preset points; The NVR can only adjust the 1 to 255 preset points of cameras.
Patrol	The NVR set the patrols to adjust serval preset.

Figure 142 Add Patrol Panel

Choose ID (There are four patrols can be added), click **EDIT** to start set;

Click + to add preset to patrol and set the duration of staying, repeat these steps for many times to add more presets to patrol.

Note: *The added preset cannot be deleted. It can only be overwritten.*

Click **SAVE** to save patrol; Click **REMOVE ALL** to clear preset.

Digital Zoom

You can zoom in specified zone of current channel so that you can view the details. It supports zoom in function of multiple-channel. It includes the following two ways:

- Click , the icon switches to . Move the mouse to enlarge, it up to enlarge to 400%. the left mouse button is released digital zoom.
- Point to the center that you want to enlarge, rotate the wheel button to enlarge the area.

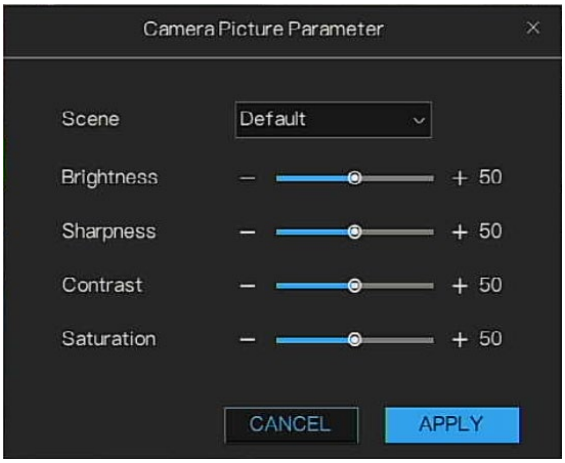
The digital zoom interface is shown as **Figure 143**. When the image is in the enlarged status, you can drag the image toward any direction to view the other enlarged areas. Right click mouse to cancel zoom and go back to the original interface.

Figure 143 Digital Zoom Interface

Image

You can set the camera picture parameter, such as brightness, sharpness, contrast and saturation.

Figure 144 Camera Picture Parameter Interface



Two-way Talk

You can perform the voice interaction between the Device and the remote device to improve efficiency of emergency.

1. Click to start two-way talk function the icon now is shown as . Now the rest two-way talk buttons of digital channel become null too.
2. Click again, you can cancel two-way talk.

Manual Snapshot

You can take snapshots of the video and save into a USB storage device.

By clicking , you can take snapshots. The snapshots are automatically saved into the connected USB storage device. You can view the snapshots on your PC.

Note: When you haven't mounted the USB disk to NVR in advanced and click the snapshot icon, it will prompt "Please mount available devices first".

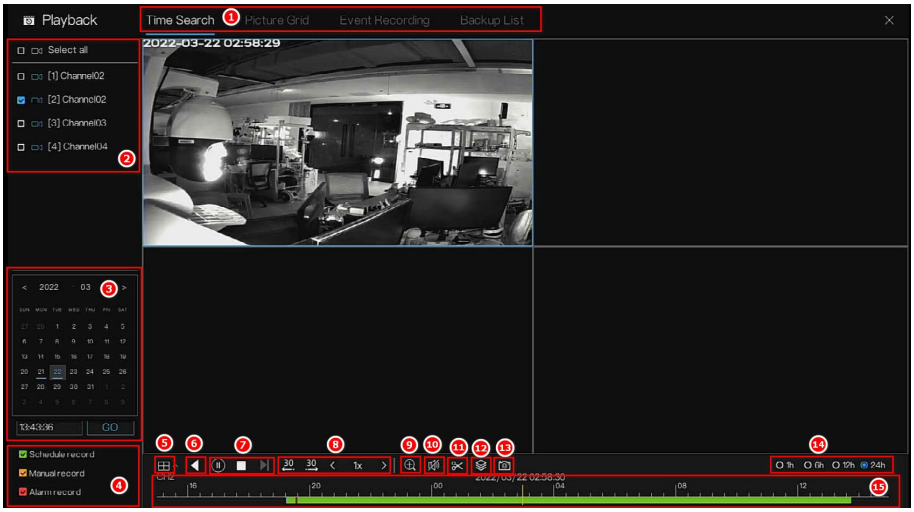
Playback

Time Interface

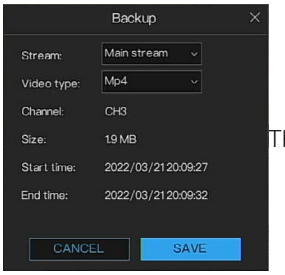
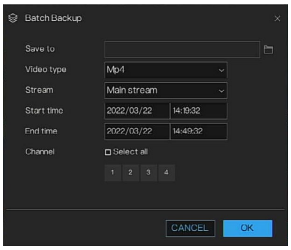
You can search and playback the recorded files on the NVR.

Go to **Main Menu > Playback**, or click on live view button navigation bar, the playback interface is displayed.

Figure 145 Playback



No. / Icon	Description
1	Choose the playback type, **Time Search/Picture Grid/Event Recording/Backup List**.
2	Channel list Blue icon have recording video White icon have no recording video.
3	Calendar The marked blue dates indicate there's recording video (it means some channels have recording, but not for all channels at some time). Or set the detail time to go the recording video.
4	Different record, select schedule record (green), manual record (yellow), or alarm record(red). The colors are showing the time tar.
5	: Split screen, display the searched recorded video or picture. It supports playing in single-channel, 4-channel, 9-channel, and 16-channel simultaneously, the actual interface shall prevail.
6	: Reversed, it plays the key frame.
7	: Pause / Stop / Next frame, click it to switch between play/pause. User can operate the record as same as live video.
8	: 30s backward / 30s forward / triple speed- / triple speed +
9	: Digital Zoom, click icon to enter one screen to digital zoom channel.
10	Audio, open or close the channel audio

No. / Icon	Description
11	: click to start backup, click again to end backup and the pop-up window shows, click SAVE to save the record to USB disk which is mounting on NVR.  The stream and video type can be chosen.
12	: Batch backup, click icon to enter the pop-up window set the batch backup. Choose the path to save, **Video type** (MP4 or AVI) and **Stream** (Main stream or sub stream). Set the **Start time** and **End time**. The set time will be the same for multiple channels video downloading. If there's no video for some channels within the set time, there will be no downloaded video for this channel. Choose channels. Click **OK** to download. The result shows at **Backup List** interface. 
13	: Snapshot, snapshot the current image.
14	 Time bar, show the time of record.
15	Display the type and time of the current recorded video. • Only one-time bar is displayed. • Click on the colored area to start manual record or alarm record. • Time bar colors: Green indicates schedule record; Red indicates alarm record; Yellow indicates manual record. • Click and hold the time bar, then you can drag to view the playback of the target time. • the vertical yellow line is centered, double click the detail time it will be showing on yellow line location.

Note:

- *The video recording will lose an hour while DST start, because the DST working.*
- *The NVR time had to back to last hour while the DST STOP working, so there will be twice video recording at DST end time.*
- *When you play DST END TIME video recording, the NVR will always play first video recording, you can't choose the second video recording to play. If you want to play second video recording, you need to wait the first video recording play over and then the NVR will continue play second video recording.*
- *If you want to download DST END TIME video recording, you need to choose the period of video recording more than the DST END TIME, then the DST END TIME video recording (the twice videos) will download.*

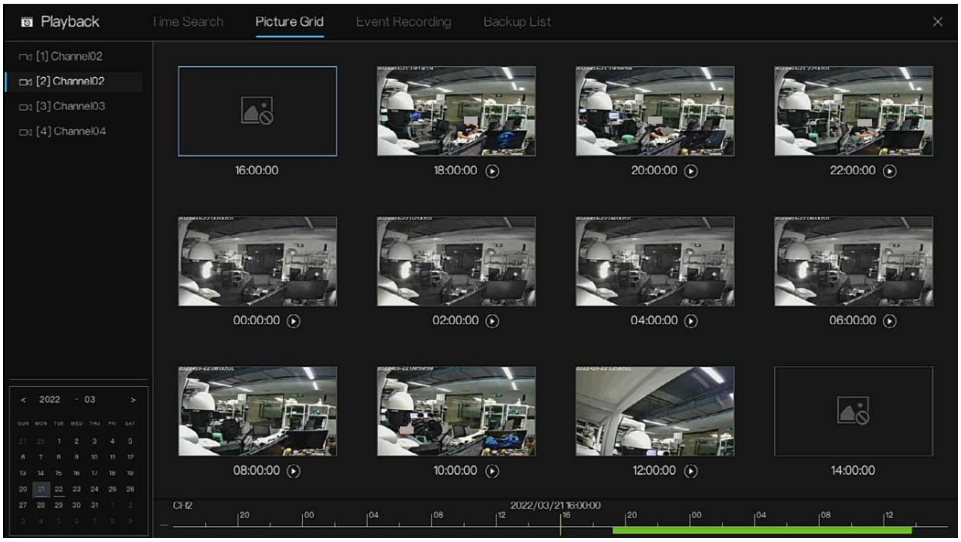
Picture Grid

Picture grid refers to evenly dividing the video of a channel by time range and searching for a video based on thumbnails divided by time range.

1. Go to Main Menu > Playback > Picture Grid.

   The Picture Grid interface is displayed.

Figure 146 Picture Grid Interface



2. Select a camera in the camera list on the left side of the picture grid screen. Videos shot by the camera in the earliest time range on the current day are displayed as thumbnails in the window on the right side.
3. Select a day from calendar.
4. A day are dividend to 12 grids, two hours is one grid. double-click the image to dividend to 12 grids again. The minimum grid interval is one minute. Right – click to enlarge grid interval
5. Select a required thumbnail, click to play the video.

Figure 147 Replay Interface

: Full screen to replay.

Event Recording

Note: Recording limitation: Only support 2 channel main stream and channel number +1 channel sub stream playback at the same time. Both local and remote share the limitation.

Figure 148 Event Recording Page

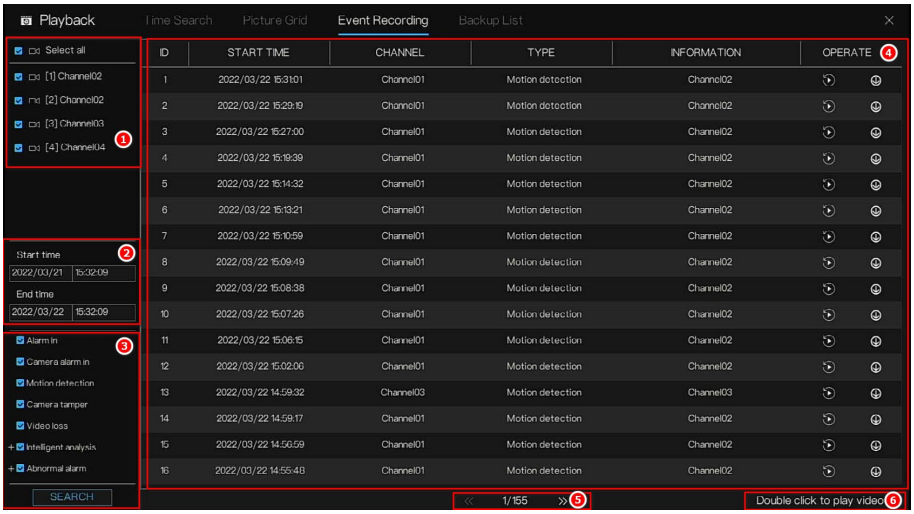


Table 37 Event Recording Parameters Description

No. / Icon	Description
1	Channel list, select to search channels event recording.
2	Set the start time and end time to search.
3	Select the alarm types, Alarm in / Camera alarm in /Motion detection /Camera tamper / Video loss / Intelligent analysis / Abnormal alarm.

No. / Icon	Description
4	Result of searching, operate the result. : Play the recording video. : Download, download the event recording. If users set the NAS path, the backup videos will save to NAS server.
5	Interface display, the number of searching result, switch to next page.
6	Double click to play video, move the mouse to one ID and double click to replay video.

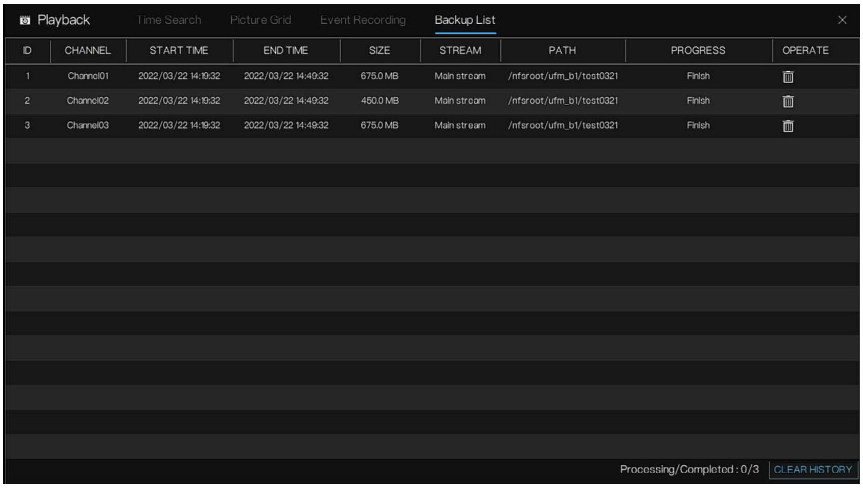
Backup List

You can search and back up the video files to external storage device such as USB storage device. All backup history shows on list.

Go to **Main Menu > Playback > Backup**.

The **Backup** interface is displayed.

Figure 149 Backup Interface



You can clear all history by clicking **CLEAR HISTORY.**

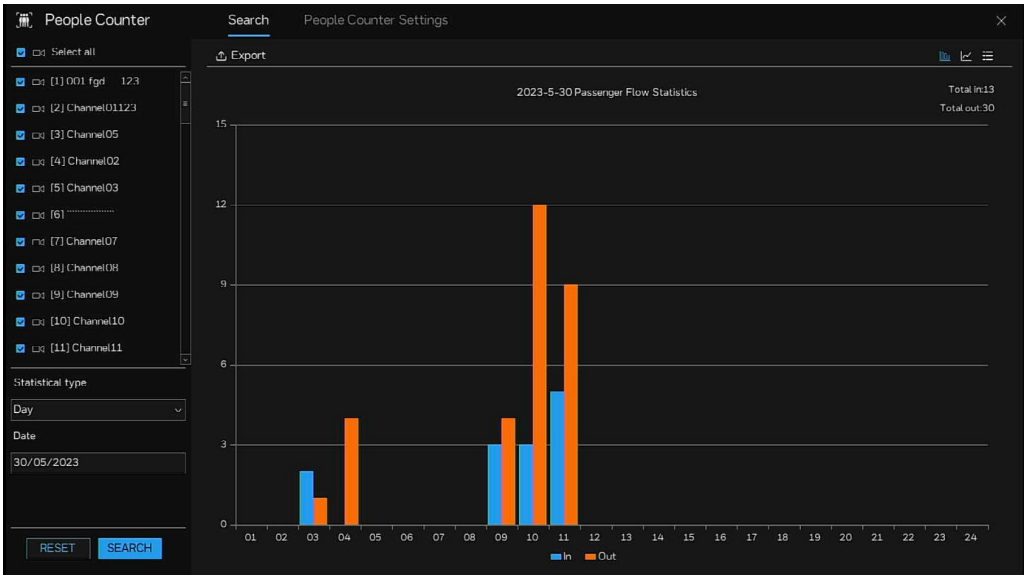
Configuring People Counter

At People Counter interface, users can search the people counting statistics of chosen channels, and configure the settings.

Search

Choose the channels and **Statistical Type** (Day / Month / Year), choose the detail date of searching from the calendar.

Figure 150 People Counter – Search



The statistics are the sum of chose channels, you can click Export to download the result of searching. The statistic can be shown in histogram/ line chart / list.

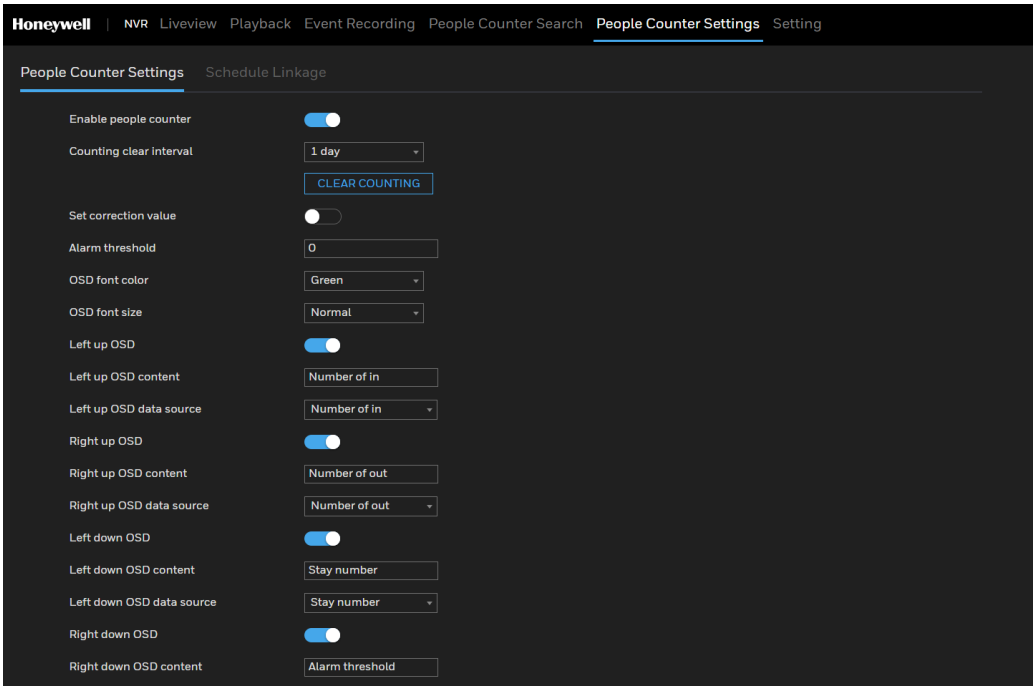
People Counter Settings

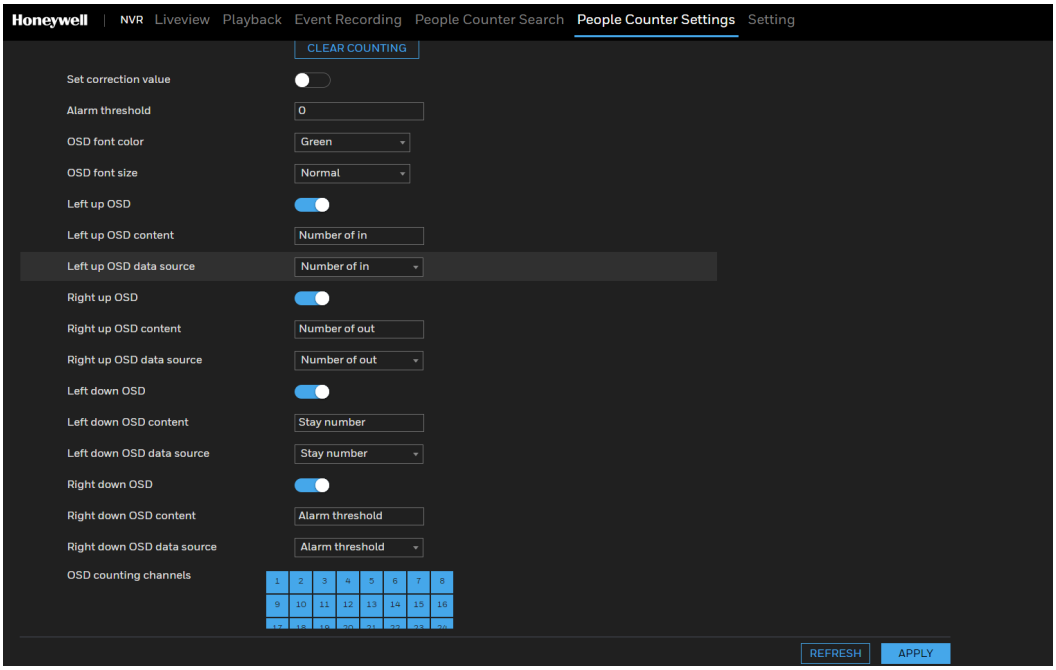
Set the layout and schedule linkage of people counter.

1. Go to Main Menu > People Counter > People Counter Settings

   The People Counter Settings interface is displayed.

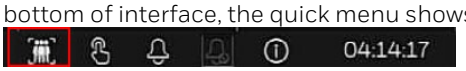
Figure 151 People Counter Settings





2. Configure the settings for the motion detection parameters.

Table 38 People Counter Parameters

Parameter	Description
Enable	Enable or disable the People Counter Settings function.
OSD Settings	The OSD is showing on the live video interface, the mouse put on the bottom of interface, the quick menu shows, click the people counter icon.  Set the OSD font color and size. Enable the OSD of four directions, set the contents (number of in, number of out, stay number, alarm threshold) and data source of four directions, as shown in figure.

Parameter	Description
Counting clear interval	Clear the data when it reaches to the setting interval; Never / 10 min/ Half-hour/ 1 hour/ 12 hours/ 1 day can be chosen from the drop-down list.
Set correction value	If the number of people counter is wrong, you can set the correction value to amend. Enable the function, then input the value.
Alarm threshold	Set the threshold to alarm
Alarm interval	10s /20s /30s /40s /50s /60s can be chosen from the drop-down list.
Enable events	Enable or disable the events to alarm.
Event Actions	**Push message to APP**: enable a pop-up message to App which is managing the NVR **Pop up message to monitor**: enable a pop-up message in your UI monitor. **Email**: When an alarm occurs, the NVR device sends an email to the set mailbox to notify the user. You need to set the email first. For details, refer to Email. **Buzzer**: activate the buzzer when an alarm occurs. The duration is set in **Event > General**. **Alarm out**: enable to linkage alarm out, the parameters should be set in **Event > Alarm out** interface. The alarm device (such as lights, sirens, etc.) is connected to the alarm output port. When an alarm occurs, the NVR device transmits the alarm information to the alarm device.
Schedule	Define a period during which the motion detection is active.

3. Click APPLY to save the settings.

Figure 152 People Counter OSD

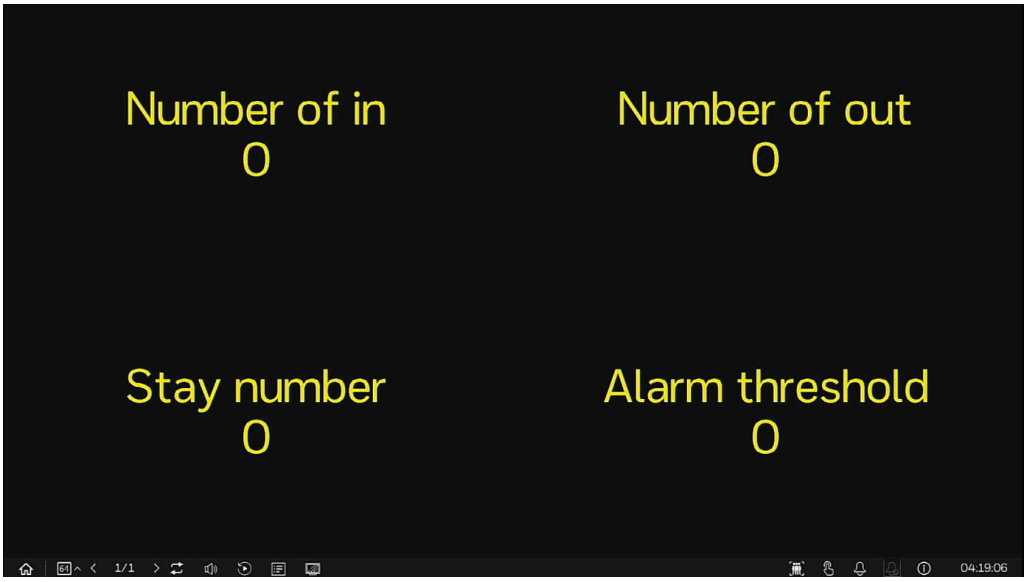


Figure 153 People Counter Schedule Linkage – Event Action

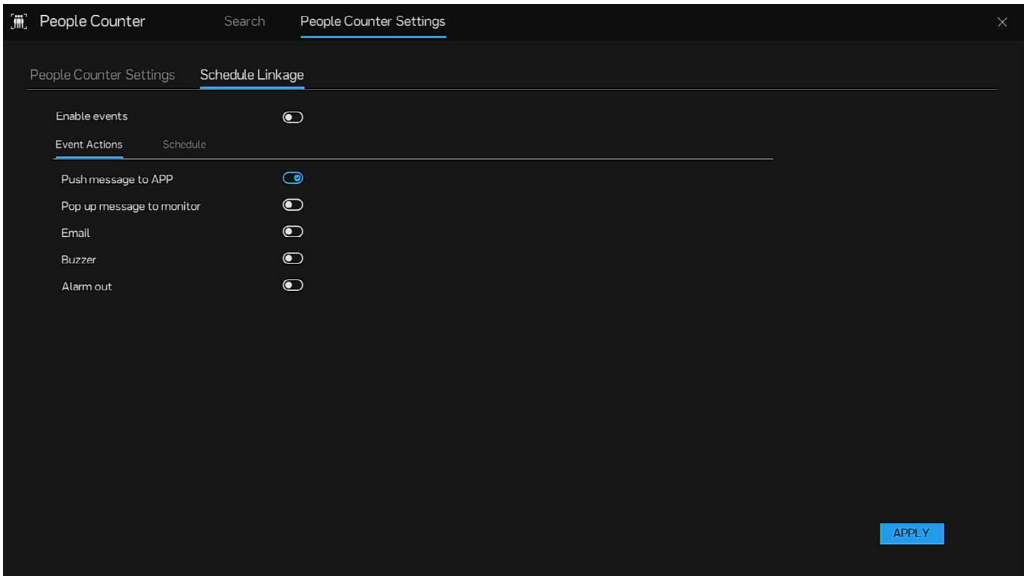
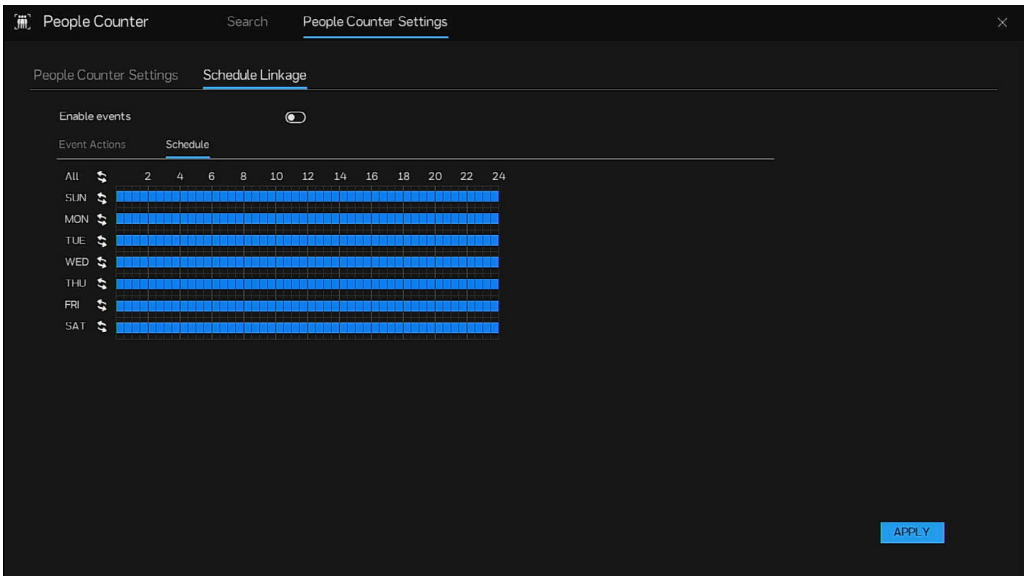


Figure 154 People Counter Schedule Linkage – Schedule



CHAPTER

4 WEB OPERATION

This chapter is intended for remote users of the NVRs. It describes how to access Honeywell's 35 Series Network Video Recorder remotely using a browser-based web client.

This chapter contains the following sections:

- Network Connection, page 121
- Web Login, page 122
- Web Main Menu, page 123

Note:
- *The interfaces in the Manual are used for introducing the operations and only for reference. The actual interface might be different dependent on the model you purchased. If there is inconsistency between the Manual and the actual product, the actual product shall govern.*
- *Besides Web, you can use our HDCS to login the device. For detailed information, refer to HDCS user guide.*

Network Connection

Ensure that the following conditions are met:

- Ensure that the network connection is good.
- Ensure that the NVR and PC network setup is correct. See the network setup: **Main Menu > Network > Network**.
- Ping to ensure that the network connection is good. Ping *** *** *** *** (where *** *** *** *** is the NVR's IP address). The return TTL should be less than 225.

Web Login

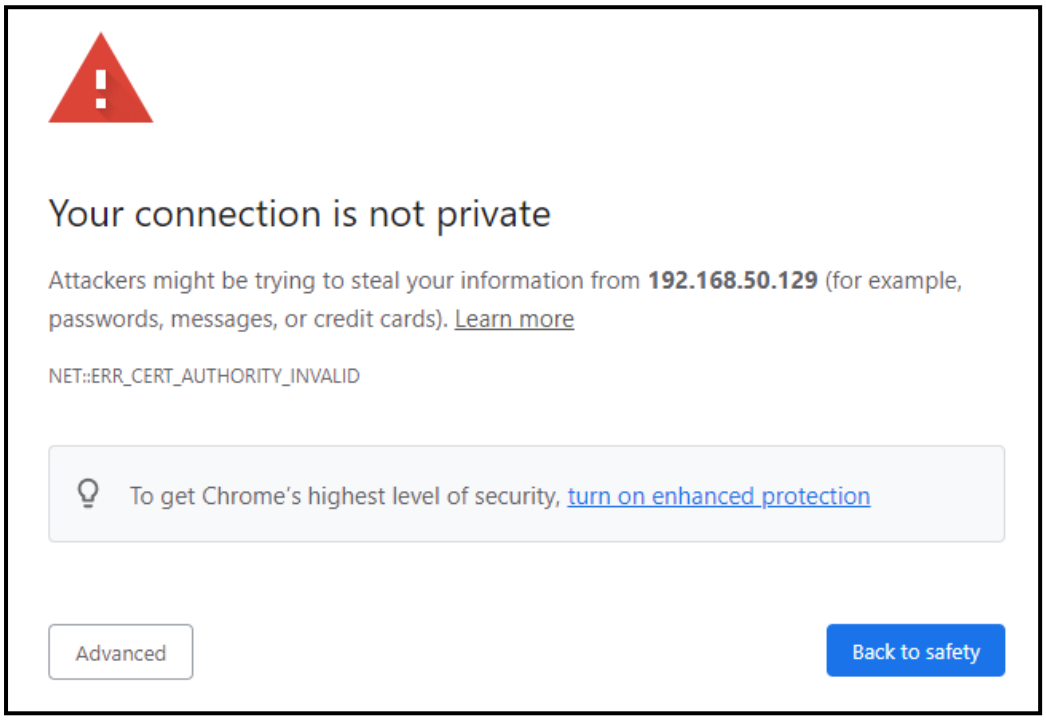
Note: *The factory default IP of the Device is 192.168.0.121.*
The Device supports monitoring on Chrome and Microsoft Edge to perform the functions.

1. Open a Web browser window. Enter the NVR IP address in the address field.

   For example, if your NVR's IP address is 192.168.50.129, then enter http:// 192.168.50.129 in the address field.

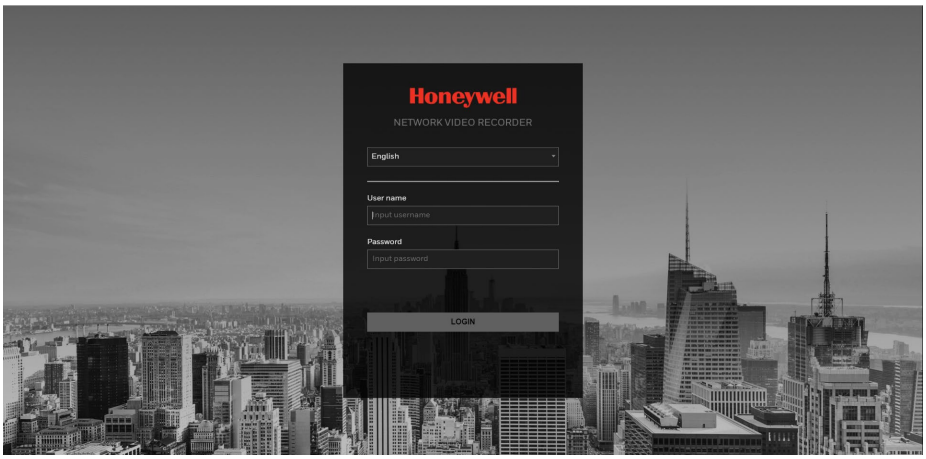
2. Press Enter on the keyboard and the following window is displayed. Click Advanced.

Figure 155 Security Problem



3. Click Proceed to 192.168.50.129 (unsafe). The following window is displayed.

Figure 156 Login



4. Enter the User name and Password.

The default administrator account is admin. The password is the one that was configured during initial settings.

5. Click LOGIN.

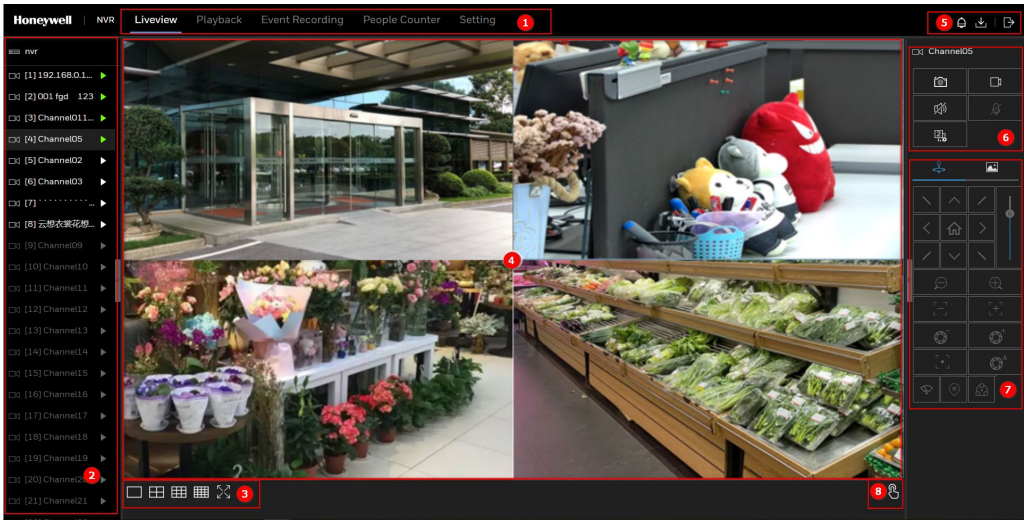
Web Main Menu

Live View

After you have logged in the Web, the main menu is displayed.

For detailed operations, refer to Local Basic Operation.

Figure 157 Liveview Page



There are four sections on the page: **Liveview, Playback, Event Recording** and **Setting**.

Table 39 Liveview Icons & Parameters

No. / Icon	Description
1	Click to switch functions: **Live Video**, **Playback**, **Event Recording, People Counter** and **Setting**.
2	Channel list with online status: • high light for online • gray for offline
3	Single screen and 4/9/16 split screens Full screen, click **ESC** key to exit the full screen.
4	Play live video
5	Event list Click to show pop-up window for detailed alarm information. Click the icon again to unfold pop-up window. Download list Click to show backup downloading task list. Logout the current user.
6	Snapshot, capture the current live video scene. Recording, record the video to local folder. The recording time is recommended longer than 10s. If the time duration is too short, the recording may be missed. Audio, enable or disable audio Two-way audio, be connected to external speaker and louder for intercom. Switch 2 (Sub) stream or 1 (main)stream.
7	PTZ keyboard (refer to PTZ Control) and image parameters (refer to Sensor Setting)
8	Manual alarm, click to trigger alarm manually.

Playback

Click **Playback** to play the recording video if you install disk and enable the recording function.

Note: The Playback in Web can support maximum 1CH 8MP/2CH 4MP/4CH 1080P with H.264. The playback is also affected by user's PC performance.

Figure 158 Playback Page

Table 40 Playback Icons & Parameters

No. / Icon	Description
1	Channel list Device has recording video Device doesn't have recording video Selected device Unselected device
2	Calendar Set the detail time to precisely search recording video.
3	Select different record: **Schedule record**, **Manual record**, or **Event record**.
4	Reversed Play/pause Triple speed Single screen/4 split screens : Sync/async You can set the different channels to play synchronously or asynchronous. Sync mode indicates the selected channels play video synchronously. Async mode indicates user play different time period record. Backup Batch backup
5	Types of time bar
6	Time bar, show the time of record
7	Record operation, refer to the same icons in Table 39.

Note: *Stream pulling limitation:*

- *The client downloading is also counted as the number of channels, and the local downloading in queue is counted as one channel.*

Event Recording

Search the event recording through the setting condition.

Figure 159 Event Recording page

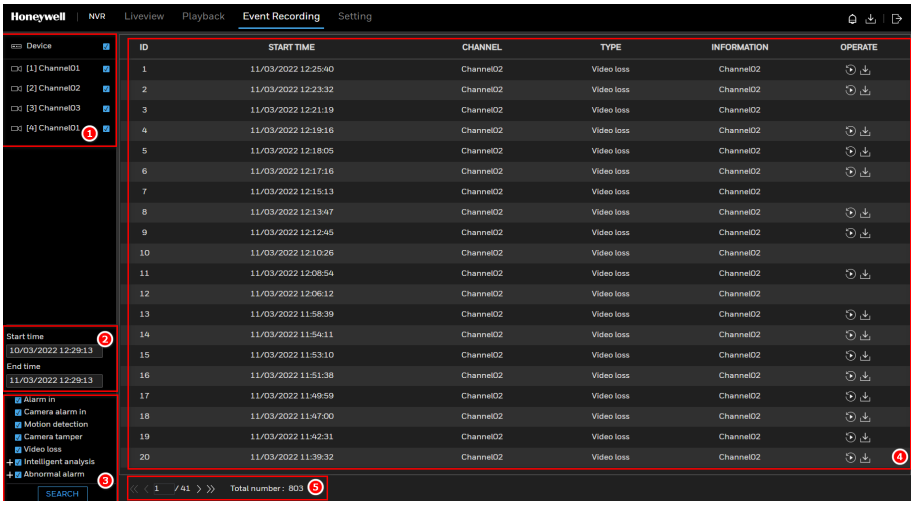


Table 41 Event Recording Icons & Parameters

No. / Icon	Description
1	Channel list Select to search channels event recording.
2	Set the start time and end time to search.
3	Select the alarm types.
4	Searching result Play the recording video Download the event recording
5	• Shows the number of searching result. • Switch the page

People Counter

The **People Counter** operation is the same as the local operation. Please refer to Configuring People Counter

Figure 160 People Counter Page

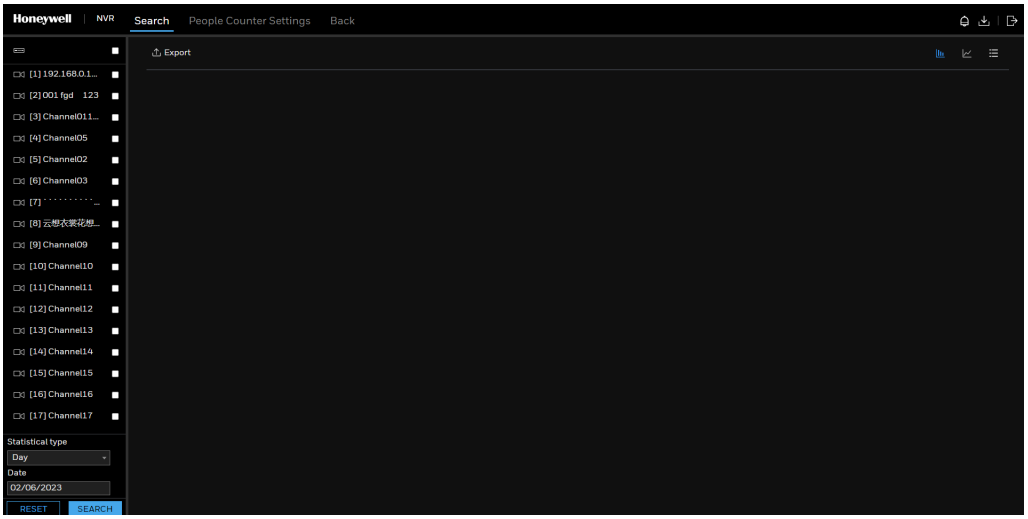
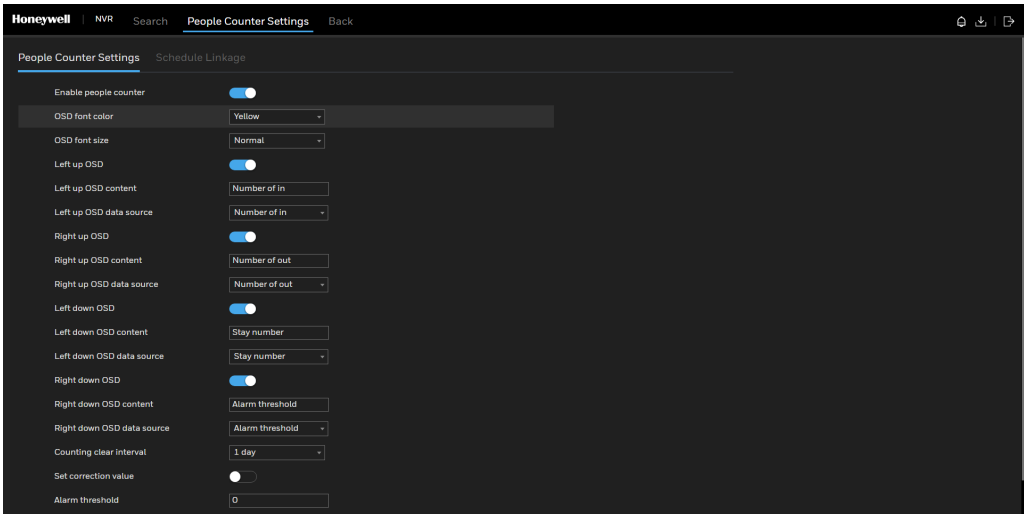


Figure 161 People Counter Settings Page



This settings are used for local UI interface, the web interface can be shown.

Setting

The **Setting** operation is the same as the local operation. Please refer to Local Basic Operation

Figure 162 Setting Page

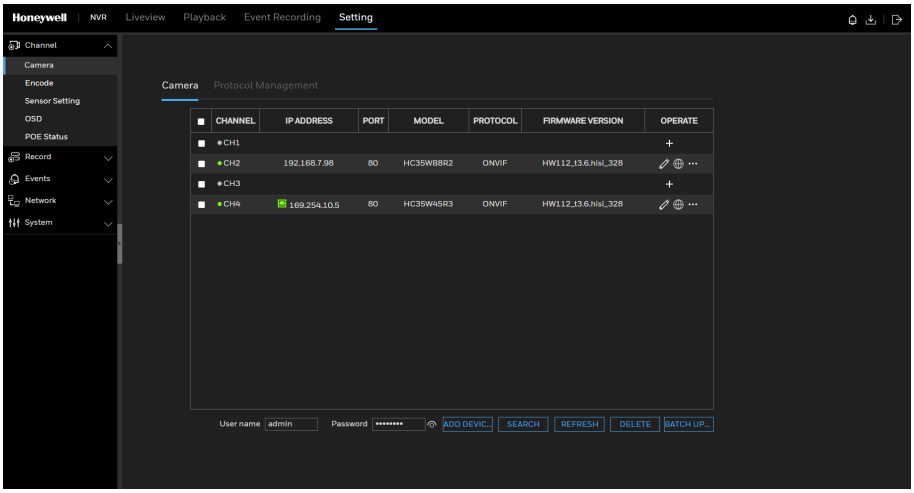
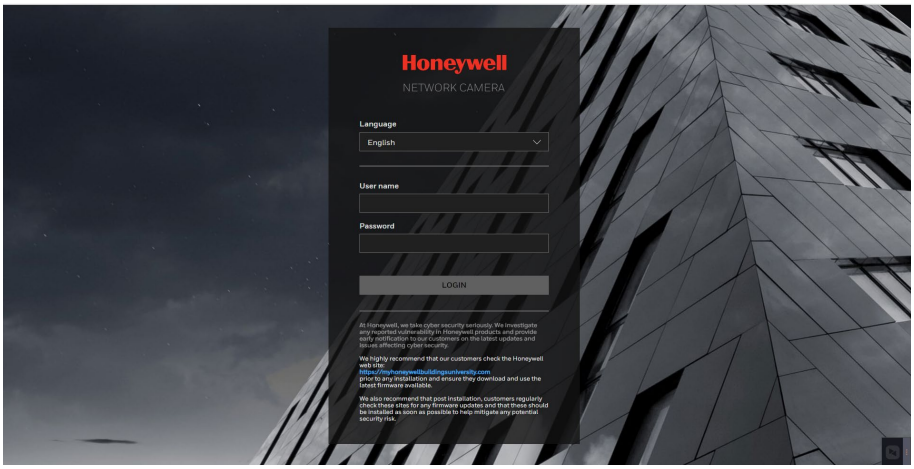


Table 42 Setting Symbols

Icon	Description
	Perform **Channel** operation such as camera/encode/OSD configuration, sensor setting and PoE status checking. For detailed operations, refer to Configuring Camera.
	You can manage the **Record** resources (such as storage mode) and storage space. For detailed operations, refer to Configuring Storage Settings.
	Search for **Event** information and perform event operation such as alarm input/output setting. For detailed operations, refer to Configuring Events Settings.
	Set **Network** functions, such as **DDNS**, **Email** and **P2P**. For detailed operations, refer to Configuring Network Settings and Web Mode.
	Configure basic **System** information. For detailed operations, refer to Configuring System Settings.

To visit the camera web page, go to **Setting > Channel > Camera > Camera**, click on the camera list. Please enable NAT port in advance.

Figure 163 IPC Login Page



Input the **User name** and **Password** of camera to enter the IPC web main page.

Web Mode

When you access the NVR through web client, go to **Setting > Networks > Web Mode**, set **HTTPS** (HTTPS only or HTTP & HTTPS), **Certificate Request**, **Upload Files**, and **CA Certificate**.

There are three modes for security certificate. The **Certificate Request** is the priority, and the second option is **Upload Files**. When these two modes are invalid, the default option is **CA Certificate**.

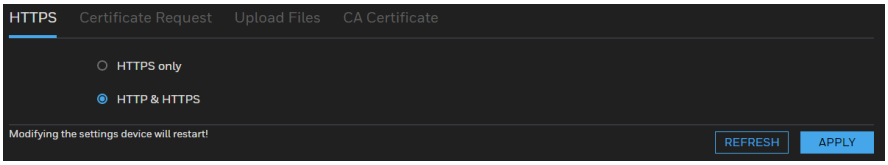
HTTPS

Go to **Setting > Networks > Web Mode > HTTPS**.

This section explains how to enable authentication and encrypted communication. It helps protect streaming data transmission over the Internet on higher security level.

Note: Honeywell strictly recommends using HTTPS only.

Figure 164 HTTPS



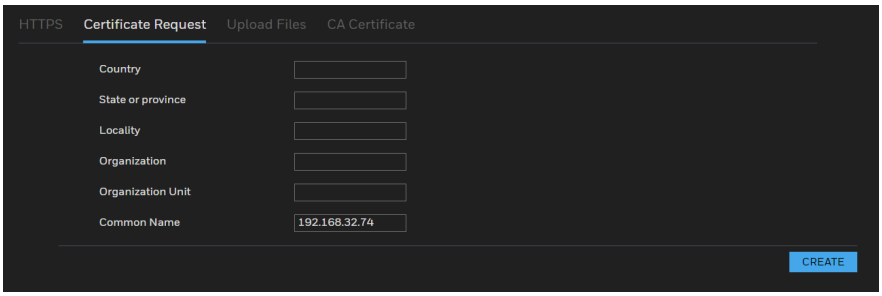
HTTPS only: Select it and the web browser can only be accessed via HTTPS with higher security level.

HTTP & HTTPS: Select it and the web browser can be accessed via HTTP or HTTPS.

Certificate Request

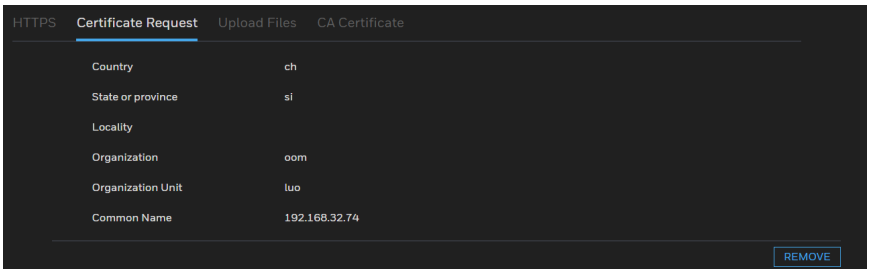
1. Go to Setting > Networks > Web Mode > Certificate Request.

Figure 165 Certificate Request



2. Input the parameters of certificate request.
3. Click CREATE.
4. Click EXPORT to save the CSR request file (certreq.pem).
5. Use CSR request file to obtain the SSL certificate file.
6. At web page, Click CHOOSE FILE to choose the combination file.
7. Click UPLOAD.

Figure 166 Certificate Page

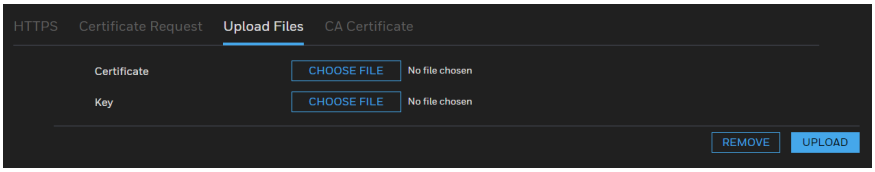


After the file is uploaded successfully, if you want to remove the file, click **REMOVE**.

Upload Files

1. Go to Setting > Networks > Web Mode > Upload Files. You can import the Certificate file and Key file from third party here.

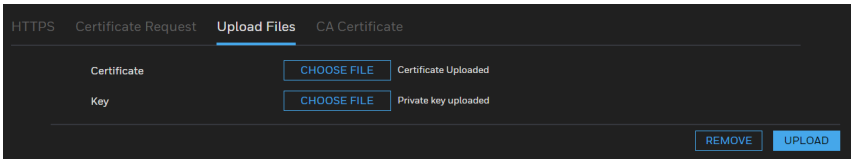
Figure 167 Upload Files Page



2. In the Certificate field, click CHOOSE FILE to select a certificate file you have already applied from 3rd party or CA domain.
3. In the Key field, click CHOOSE FILE to select a certificate key you have already applied from 3rd party or CA domain.

4. Click UPLOAD.

Figure 168 Uploaded Files



After the files are uploaded successfully, if you want to remove the files, click **REMOVE**.

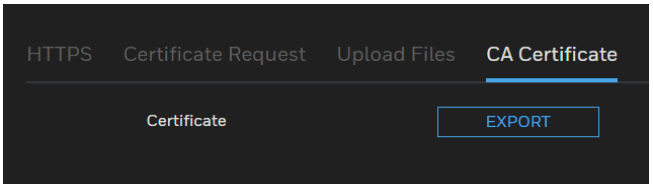
- Supported certificate type: HTTPS protocol.
- Supported certificate file format: *.cert format.
- Supported Key format: PEM format.

CA Certificate

The NVR uses HTTPS, a secure communication protocol that verifies the identities of visited websites and servers and encrypts data exchanged between the client and the server. When you log in to the NVR's web client for the first time, some browsers may display a warning that the connection is not private/secure. To access the web client, you must install a Honeywell-signed security certificate.

1. Go to Setting > Networks > Web Mode > CA Certificate.

Figure 169 CA Certificate Page



2. Click EXPORT to save the root certificate (ca.crt) on your local computer.
3. Go to the directory where you saved the CA certificate and double-click the certificate. Click Open. The Certificate window opens.
4. In the Certificate window, on the General tab, click Install Certificate to open the Certificate Import Wizard.
5. Click Next to continue.
6. Click Place all certificates in the following store, browse to Trusted Root Certification Authorities, and then click OK.
7. Click Next, and then click Finish to close the Certificate Import Wizard. A confirmation dialog box appears with the message "The import was successful."
8. Click OK, and then click OK to close the Certificate window. And now your browser will not display a warning that the connection is not private/secure.

Please ensure to install the certificate to ensure a secure communication with the NVR and to avoid delays in the web page navigation.

CHAPTER

5 FAQ

Questions	Solutions
NVR cannot boot up properly.	• Input power is not correct. • Power connection is not correct. • Power switch button is damaged. • Program upgrade is wrong. • HDD malfunction or something wrong with HDD ribbon. • Front panel error. • Main board is damaged.
NVR often automatically shuts down or stops running.	• Input voltage is not stable or it is too low. • HDD malfunction or something wrong with the ribbon. • Front video signal is not stable. • Working environment is too harsh, too much dust. • Hardware malfunction.
System cannot detect hard disk.	• HDD is broken. • HDD ribbon is damaged. • HDD cable connection is loose. • Main board SATA port is broken.
There is no video output whether it is one-channel, multiple-channel or all-channel output.	• Program is not compatible. Upgrade to the latest version. • Brightness is 0. Restore factory default setup. • Check your screen saver. • NVR hardware malfunctions.
I cannot search local records.	• HDD ribbon is damaged. • HDD is broken. • Upgraded program is not compatible. • The recorded file has been overwritten. • Record function has been disabled.
Video is distorted when searching local records.	• Video quality setup is too low. • Program read error, bit data is too small. There is mosaic in the full screen. Restart the NVR to solve this problem. • HDD data ribbon error. • HDD malfunction. • NVR hardware malfunctions.
Time display is not correct.	• Setup is not correct. • Battery contact is not correct, or voltage is too low.

Questions	Solutions
NVR cannot control PTZ.	• Front panel PTZ error • PTZ decoder setup, connection or installation is not correct. • Cable connection is not correct. • PTZ setup is not correct. • The distance is too far.
I cannot log in client-end or web.	• Use Windows 2007 or higher vision to view the web interface. • Upgrade display card driver. • Network connection error. • Network setup error. • Password or user name is invalid. • Client-end is not compatible with NVR program. • The browser should choose Google Chrome, Microsoft Edge and upgrade to the latest version
There is only mosaic no video when preview or playback video file remotely.	• Network fluency is not good. • Client-end resources are limit. • Current user has no right to monitor.
Network connection is not stable.	• Network is not stable. • IP address conflict. • MAC address conflict. • PC or device network card is not good.
Burn error /USB back error.	• Burner and NVR are in the same data cable. • System uses too much CPU resources. Stop record first and then begin backup. • Data amount exceeds backup device capacity. It may result in burner error. • Backup device is not compatible. • Backup device is damaged.
Alarm signal cannot be disarmed.	• Alarm setup is not correct. • Alarm output has been open manually. • Input device error or connection is not correct. • Some program versions may have this problem. Upgrade your system.
Alarm function is null.	• Alarm setup is not correct. • Alarm cable connection is not correct. • Alarm input signal is not correct. • There are two loops connect to one alarm device.
Record storage period is not enough.	• HDD capacity is not enough. • HDD is damaged.
Cannot playback the downloaded file.	• There is no media player, the file support VLC player to play. • The downloaded file is error.
The Movies & TV player of Windows cannot play the downloaded recording.	The recording video format is H265 encode type (MP4), we recommend to use VLC to play.
Forgot local menu operation password or network password	Contact your local technical support for help. We can guide you to solve this problem.

Questions	Solutions
There is no video. The screen is in black.	• IPC IP address is not right. • IPC port number is not right. • IPC account (user name/password) is not right. • IPC is offline.
The displayed video is not full in the monitor.	Check current resolution setup. If the current setup is 1920*1080, then you need to set the monitor resolution as 1920*1080.
There is no HDMI output.	• Displayer is not in HDMI mode. • HDMI cable connection is not right.
The video is not fluent when I view in multiple-channel mode from the client-end.	• The network bandwidth is not sufficient. The multiple-channel monitor operation needs at least 100M or higher. • Your PC resources are not sufficient. For 16-ch remote monitor operation, the PC shall have the following environment: Quad Core, 2G or higher memory, independent displayer, display card memory 256M or higher.
I cannot connect to the IPC	• Make sure that the IPC has booted up. • Make sure IPC network connection is right and it is online • IPC IP is in the blocklist. • The device has connected to the too many IPC. It cannot transmit the video. • Check the IPC port value and the time zone are the same as the NVR. • Make sure current network environment is stable.
After I reset the NVR resolution, my monitor cannot display.	• The default resolution is 1920*1080, if you set higher resolution, you should make sure the monitor support that resolution, otherwise you should login to Web interface to switch the default resolution.
After I login the Web, I cannot find the remote interface to add the IPC.	Clear the Web controls and load again.
There is IP and gateway, I can access the internet via the router. But I cannot access the internet after I reboot the NVR.	Use command PING to check you can connect to the gateway or not. Use telnet to access and then use command "**Ipconfig -all**" to check device IP address. If you see the subnet mask and the gateway has changed after the reboot. Upgrade the applications and set again.
The Camera can't connect with 35S NVR.	Reset the camera, and activate it to set password. Access the camera's web to open DHCP, and plug to PoE port of NVR. Set the NVR channel password and the camera's password to be the same.
The Camera's I/O parameters can't be set by 35 NVR.	Set the camera's I/O parameters by camera web client or go to camera web client by selecting **Setting > Channel > Camera > Camera** by NVR web client, click on the camera list. Please enable NAT port in advance.
Unable to configure camera's MD parameters by 35S NVR	Set the camera's MD parameters by camera web client or go to camera web client by selecting **Setting > Channel > Camera > Camera** by NVR web client, click on the camera list. Please enable NAT port in advance.
For some ONVIF IP cameras connected to the NVR, their IP addresses cannot be automatically assigned via NVR.	Manually set the IP addresses of the IP cameras via web.

Daily Maintenance

- Use the brush to clean the board, socket connector and the chassis regularly.
- The device shall be soundly earthed in case there is audio/video disturbance. Keep the device away from the static voltage or induced voltage.
- Unplug the power cable before you remove the audio/video signal cable.
- Always shut down the device properly. Use the shutdown function in the menu, or you can press the power button in the rear pane to shut down the device. Otherwise, it may result in HDD malfunction.
- Make sure the device is away from the direct sunlight or other heating sources. Keep the device ventilated.
- Check and maintain the device regularly

Honeywell Building Technologies – Security Americas (Head Office)
Honeywell Commercial Security
715 Peachtree St. NE
Atlanta, GA 30308
Tel: +1 800 323 4576

Honeywell Building Technologies – Security Mexico
Mexico: Av. Santa Fe 94, Torre A, Piso 1, Col. Zedec,
CP 012010, CDMX, México.
Colombia: Edificio Punto 99, Carrera 11a.
98-50, Piso 7, Bogota, Colombia.
Tel: 01.800.083.59.25

Honeywell Building Technologies – Security Middle East/N. Africa
Emaar Business Park, Building No. 2, Sheikh Zayed Road
P.O. Box 232362
Dubai, United Arab Emirates
security_meta@honeywell.com
Tel: +971 4 450 5800

Honeywell Building Technologies – Security Europe/South Africa
Building 5 Carlton Park,
King Edward Avenue
Narborough, Leicester, LE19 0LF
United Kingdom
Tel: +44 (0) 1163 500714

Honeywell Building Technologies – Security Northern Europe
Stationsplein Z-W 961, 1117 CE Schiphol-Oost, Netherlands
Tel: +31 (0) 299 410 200

Honeywell Building Technologies – Security Deutschland
Johannes-Mauthe-Straße 14
D-72458 Albstadt
Germany
Tel: +49 (0) 7431 801-0

Honeywell Building Technologies – Security France
Immeuble Lavoisier
Parc de Haute Technologie
3-7 rue Georges Besse
92160 Antony, France
Tel: +33 (0) 1 40 96 20 50

Honeywell Building Technologies – Security Italia SpA
Via Achille Grandi 22,
20097 San Donato Milanese (MI), Italy

Honeywell Building Technologies – Security España
Josefa Valcárcel, 24
28027 – Madrid, España
Tel.: +34 902 667 800

Honeywell Building Technologies – Security Россия и СНГ
121059 Moscow,
Ul, Kiev 7
Russia
Tel: +7 (495) 797-93-71

Honeywell Building Technologies – Security Asia Pacific
Building #1, 555 Huanke Road,
Zhang Jiang Hi-Tech Park Pudong New Area,
Shanghai, 201203, China
Tel: 400 840 2233

Honeywell Building Technologies – Security and Fire (ASEAN)
Honeywell International Sdn Bhd
Level 25, UOA Corp Tower, Lobby B
Avenue 10, The Vertical, Bangsar South City
59200, Kuala Lumpur, Malaysia
Email: buildings.asean@honeywell.com
Technical support (Small & Medium Business):

Vietnam: +84 4 4458 3369
Thailand: +66 2 0182439 Indonesia: +62 21 2188 9000
Malaysia: +60 3 7624 1530
Singapore: +65 3158 6830
Philippines: +63 2 231 3380

Honeywell Home and Building Technologies (India)
HBT India Buildings
Unitech Trade Centre, 5th Floor,
Sector – 43, Block C, Sushant Lok Phase – 1,
Gurgaon – 122002, Haryana, India
Email: HBT-IndiaBuildings@honeywell.com
Toll Free Number: 000 800 050 2167
Tel: +91 124 4975000

Honeywell Building Technologies – Security and Fire (Korea)
Honeywell Co., Ltd. (Korea)
5F SangAm IT Tower,
434, Worldcup Buk-ro, Mapo-gu,
Seoul 03922, Korea
Email: info.security@honeywell.com
Customer support: HSG-CS-KR@honeywell.com; +82 1522-8779
Tel: +82-2-799-6114

Honeywell Building Technologies – Security & Fire (Pacific)
Honeywell Ltd
9 Columbia Way
BAULKHAM HILLS NSW 2153
Email: hsf.comms.pacific@Honeywell.com
Technical support:
Australia: 1300 220 345
New Zealand: +64 9 623 5050

Honeywell

buildings.honeywell.com/security
+1 800 323 4576 (North America only)
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