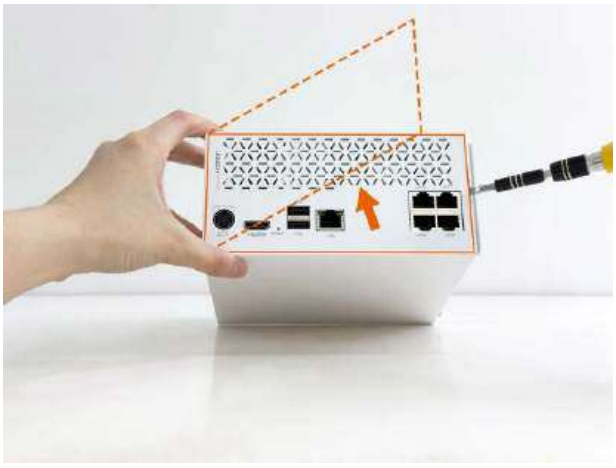
HD-IP PLUG AND PLAY

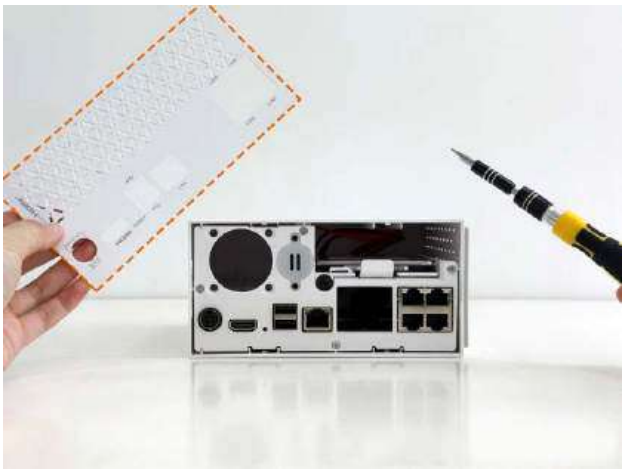
PoE SECURITY KIT USER MANUAL

Replace the hard drive

CAUTION: Do not install or remove the hard drive while the device is powered on.

1. After disconnecting the power supply, use a screwdriver to pry open the rear panel of the NVR.

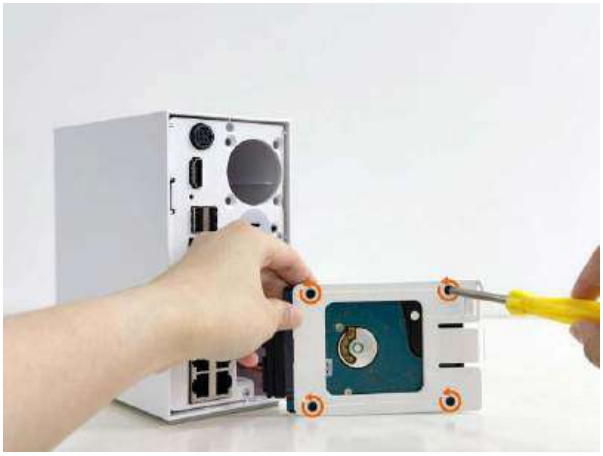




2. Use a screwdriver to remove the screws.

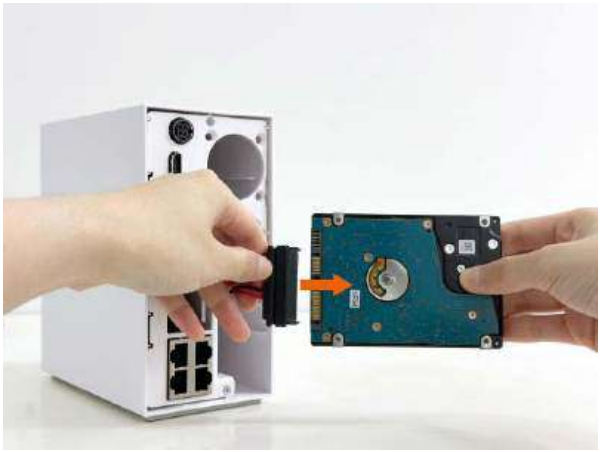
3. Pull out the hard drive mounting bracket

4. Turn the 4 screws counterclockwise and remove the screws

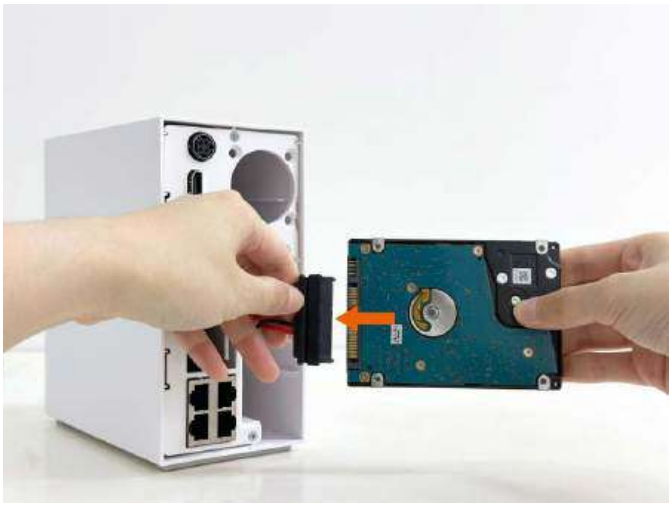


5. Remove the hard drive mounting bracket

6. Remove the hard drive that needs to be replaced



7. Connect the hard drive's data and power ports to the motherboard.



8. Place the hard drive on the hard drive mounting bracket and rotate the four screws clockwise to secure the hard drive to the hard drive mounting bracket.

9. Push the hard drive and hard drive mounting bracket back into the NVR along the guide rails.

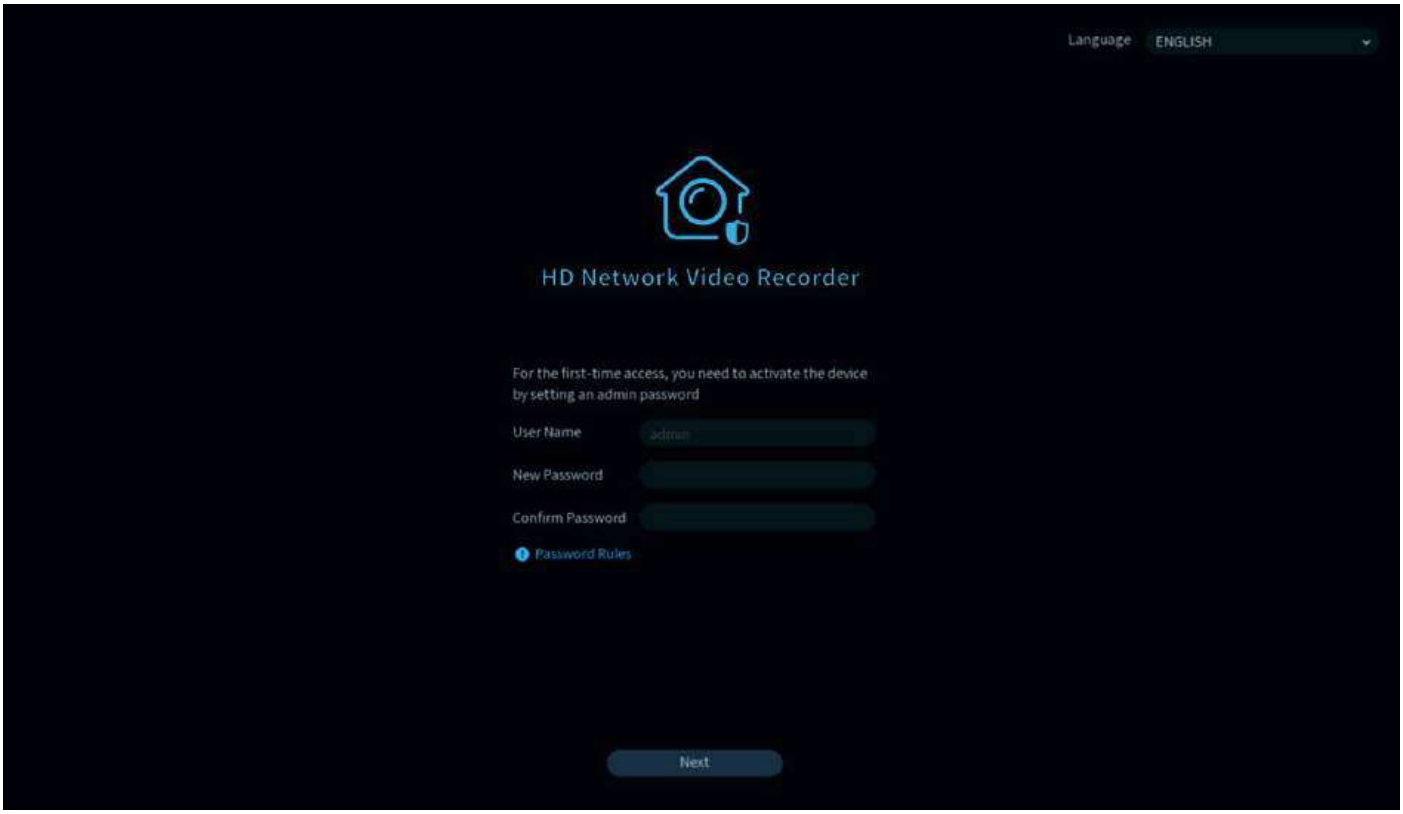
10.Turn clockwise to tighten the screw.

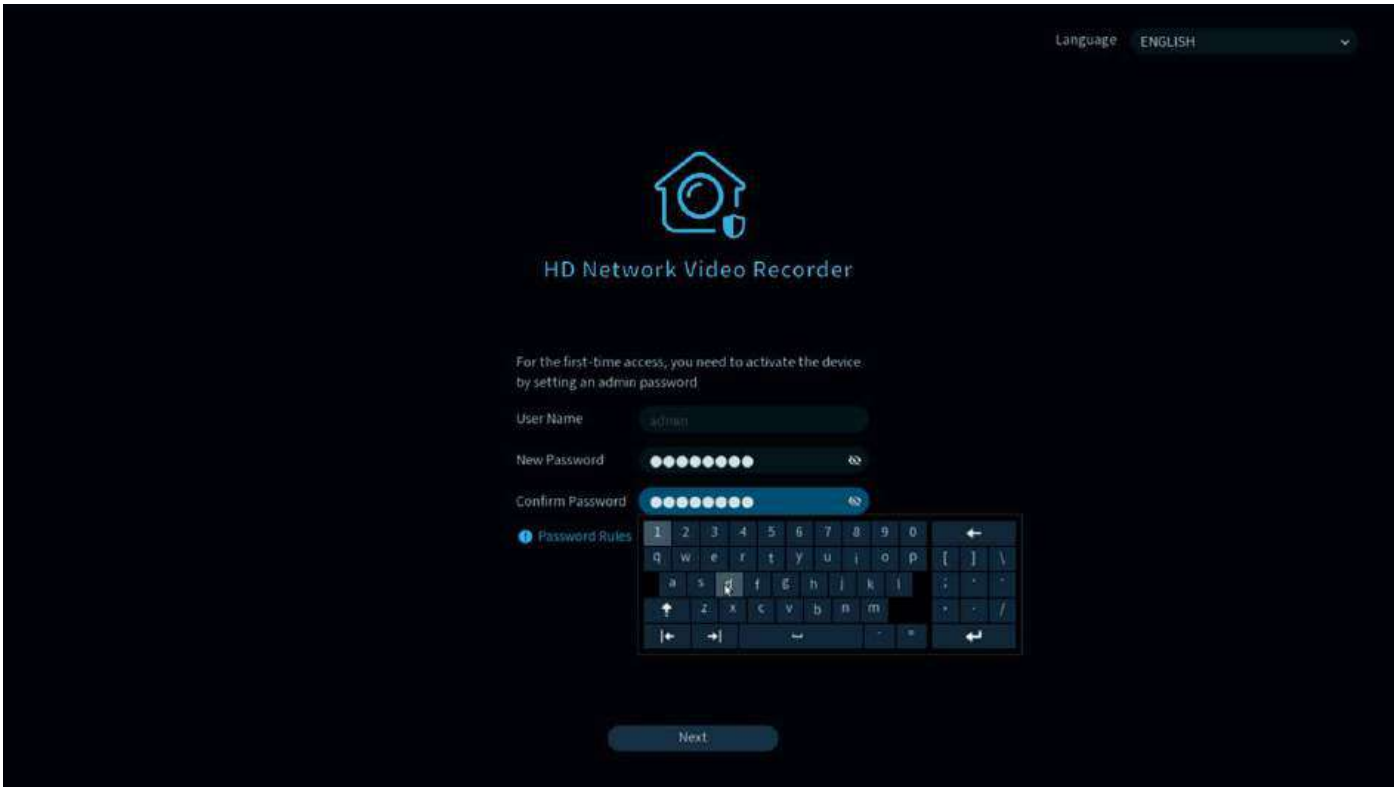
11. Install the rear panel back to the NVR.

1. Startup Wizard

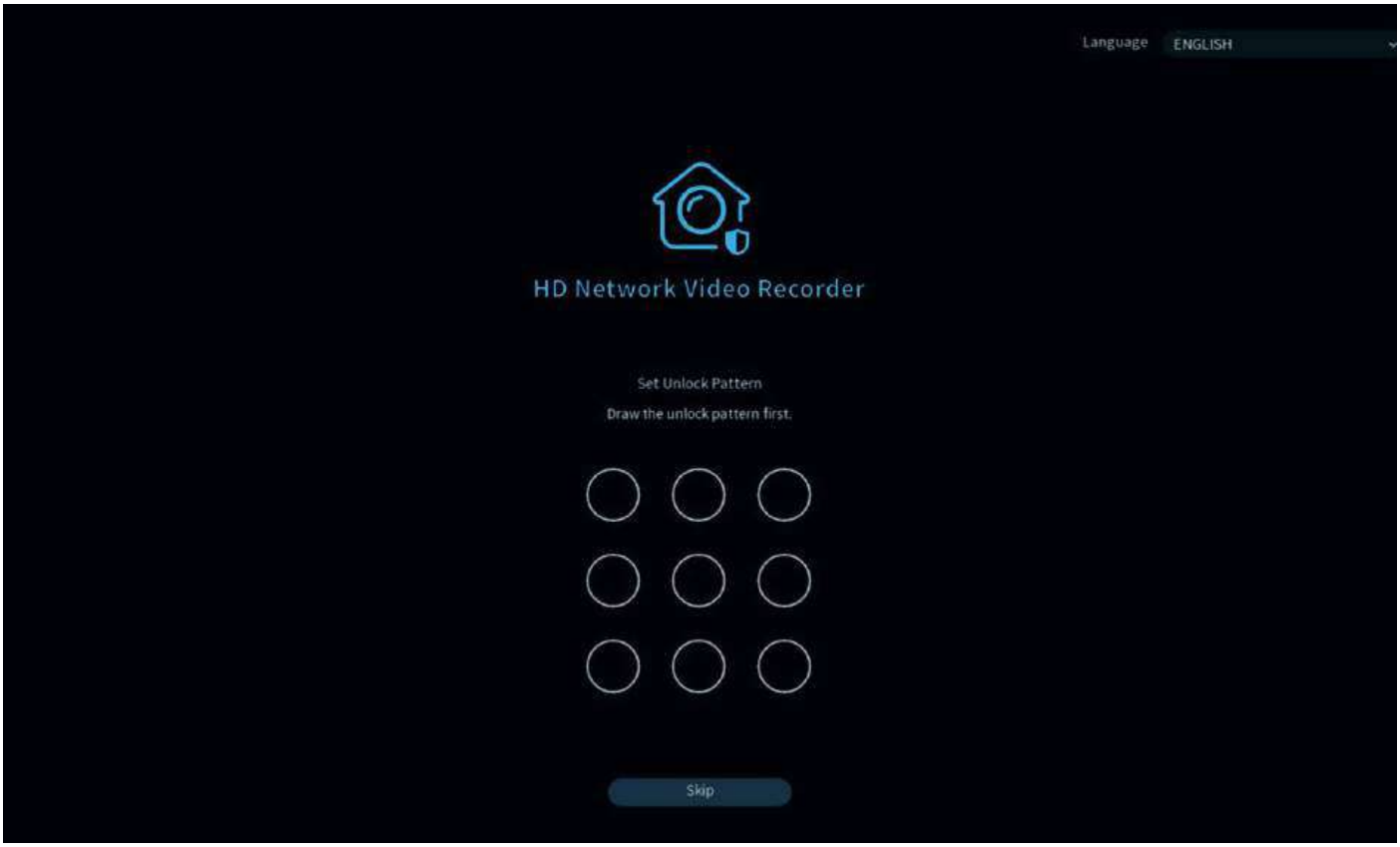
Please connect the NVR to a power source and a monitor with an HDMI cable. After the NVR is powered on, wait a few seconds and it will display the installation wizard on the monitor. Follow the installation wizard to set up the NVR system.

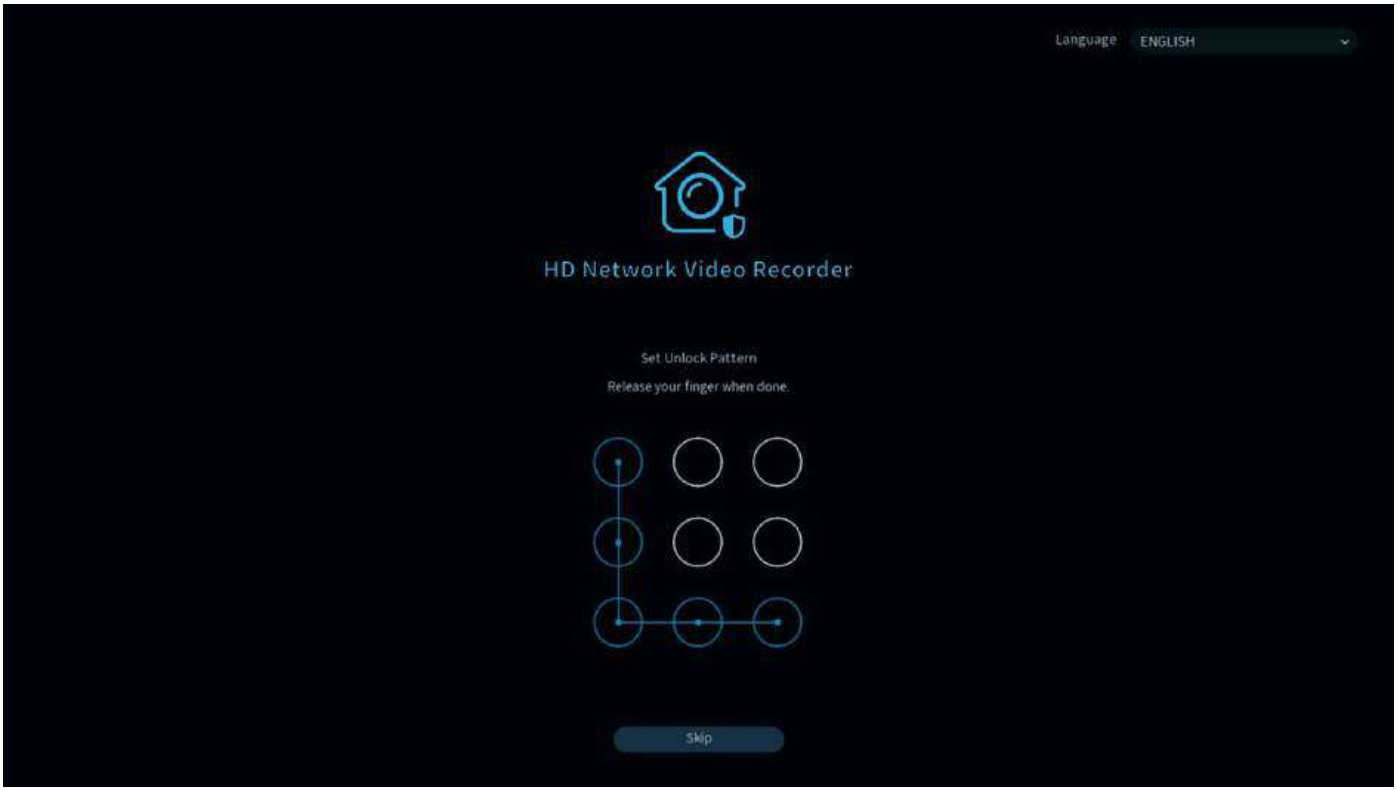
1. Set the NVR password and system language. The password must comply with the password rules. Click Next.



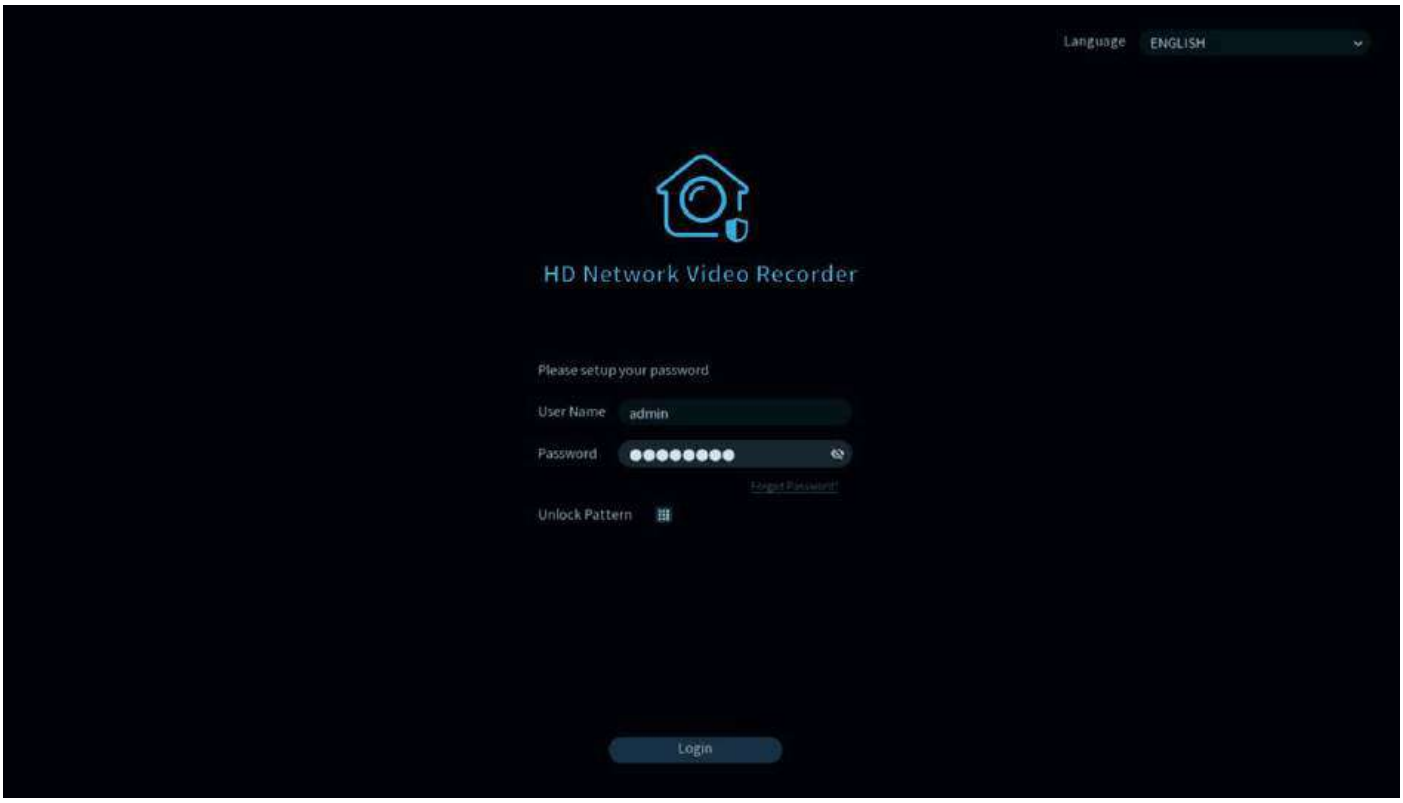


2. Set a graphic password





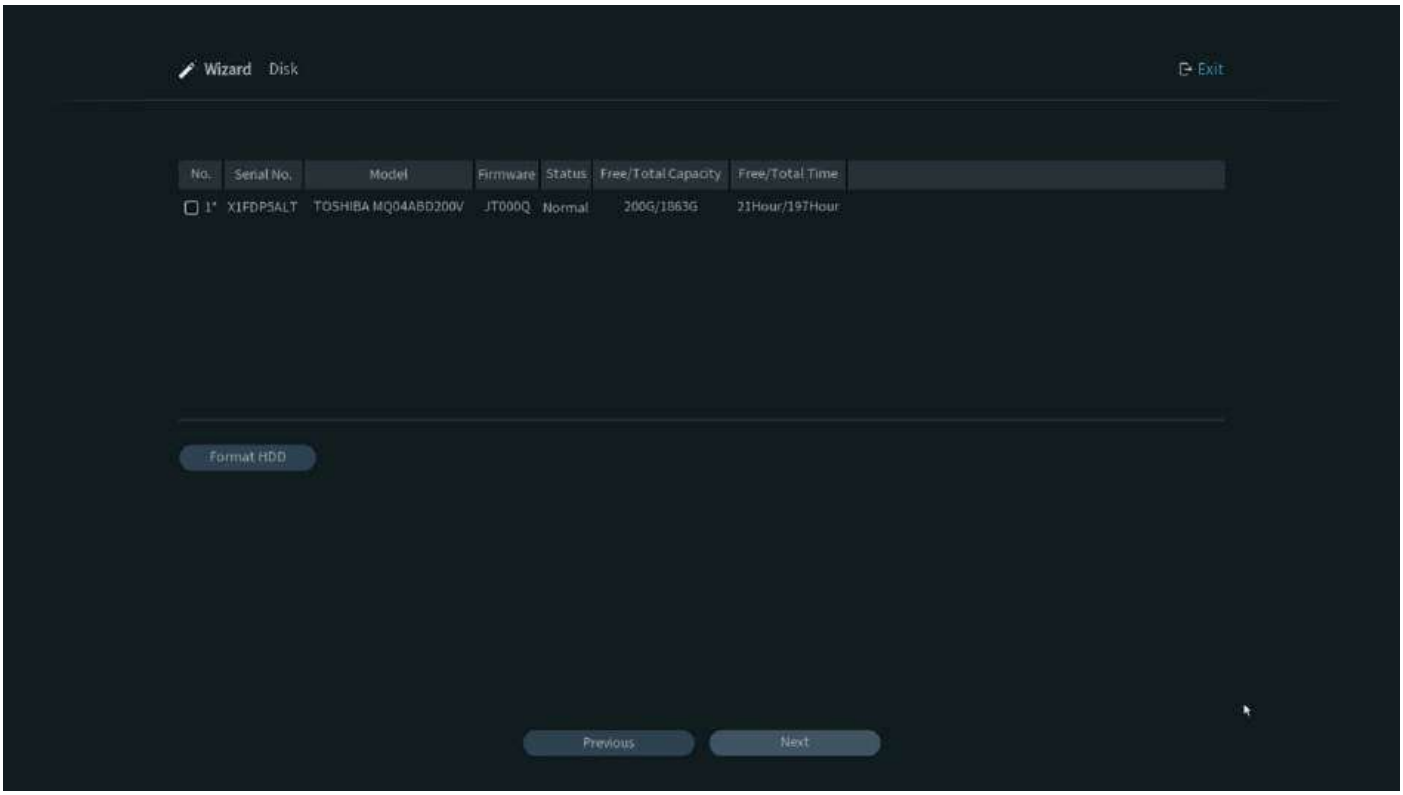
3. log in to the system using either a password or an Unlock Pattern.



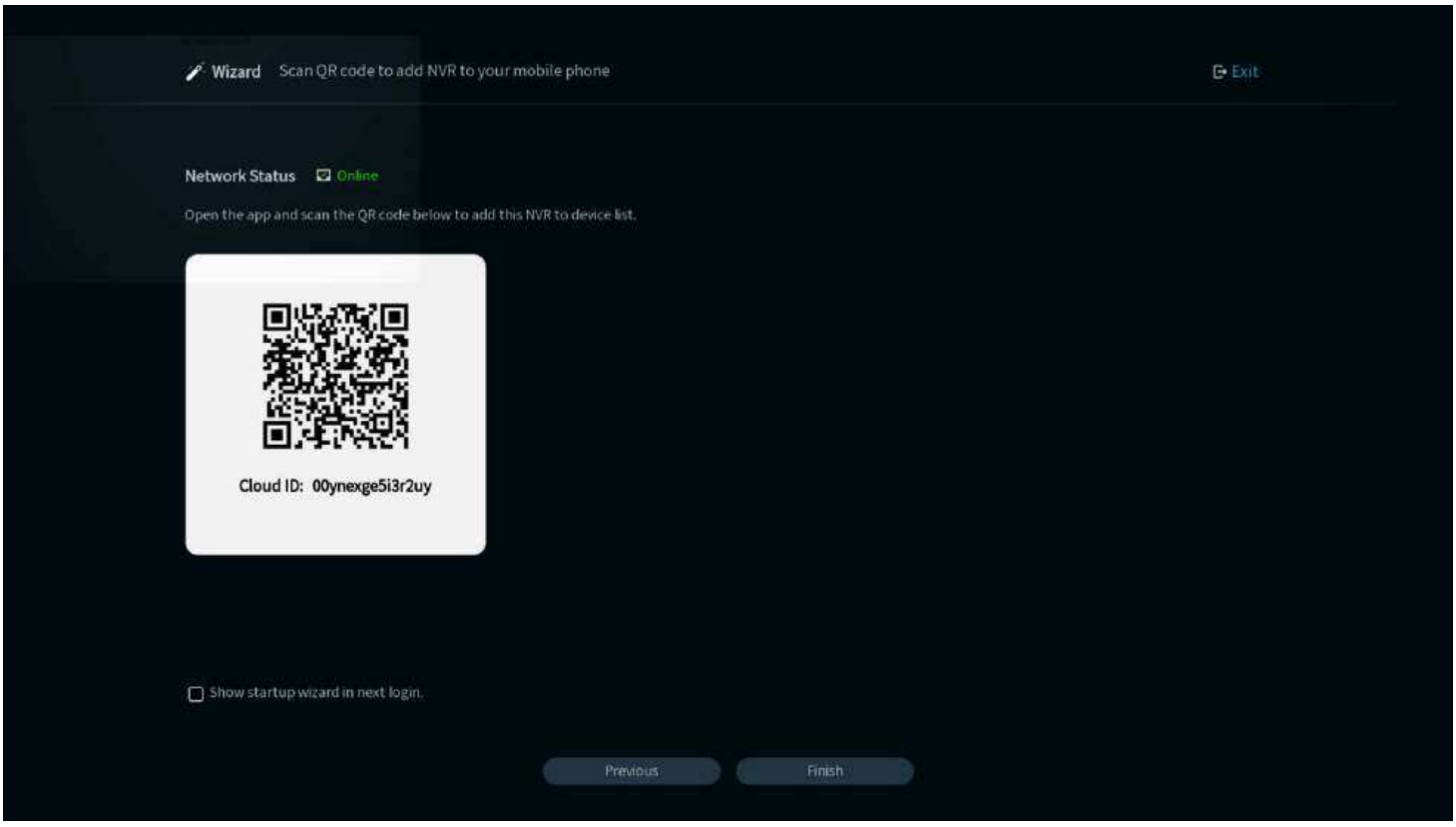
4. Set the resolution and click the OK button in the pop-up window to complete the resolution setting .

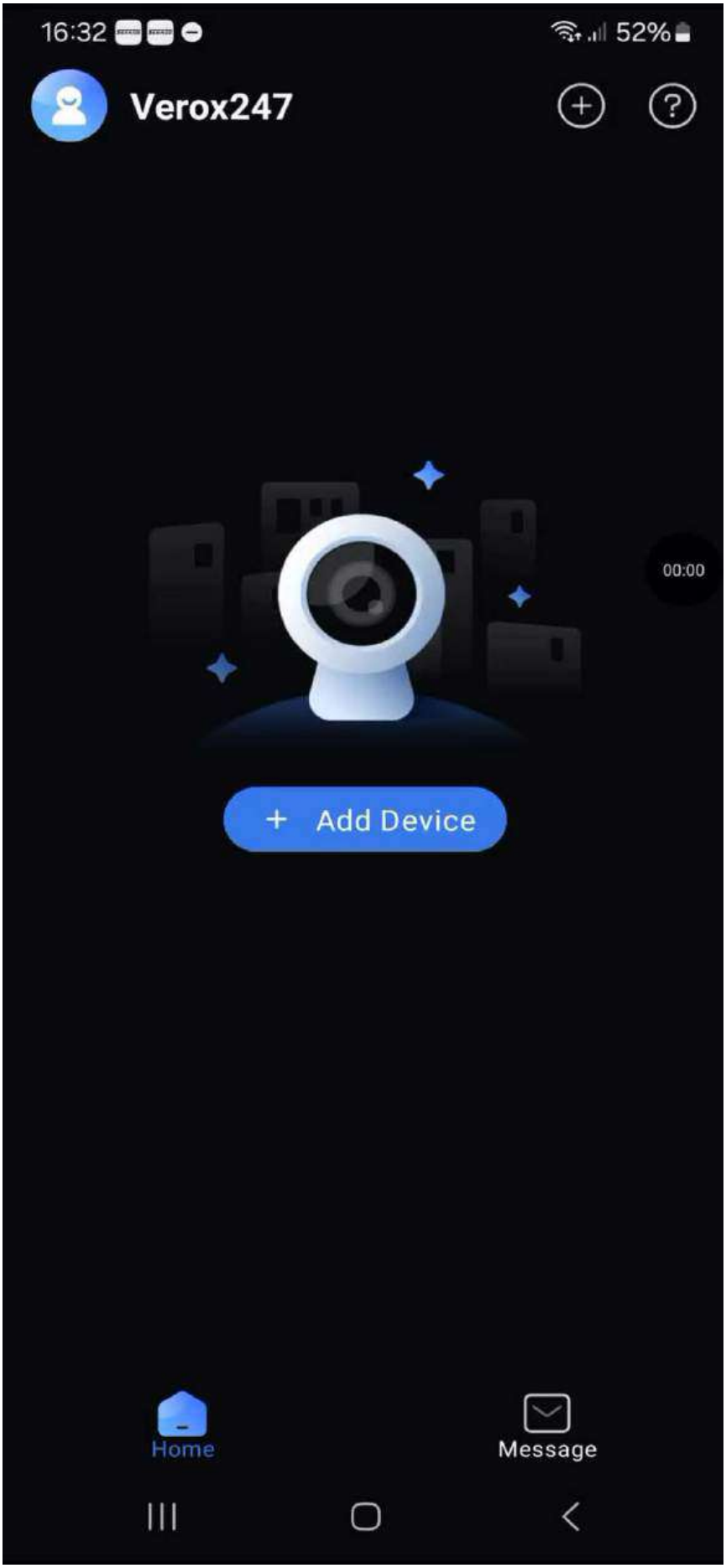
5. Set the time zone, date, time, date format, and time format, and click Next.

6. New hard drives must be formatted before use. Select an unformatted hard drive and click "Format Hard Drive." A user verification window will pop up. Enter your password to begin formatting the hard drive. A pop-up window will display, "All data will be erased. Do you want to continue?" Click "OK" to format the disk. When the progress bar reaches completion, a pop-up window will display "Format Completed, " indicating the process is complete. Click "OK" to close the pop-up window. Click Next.



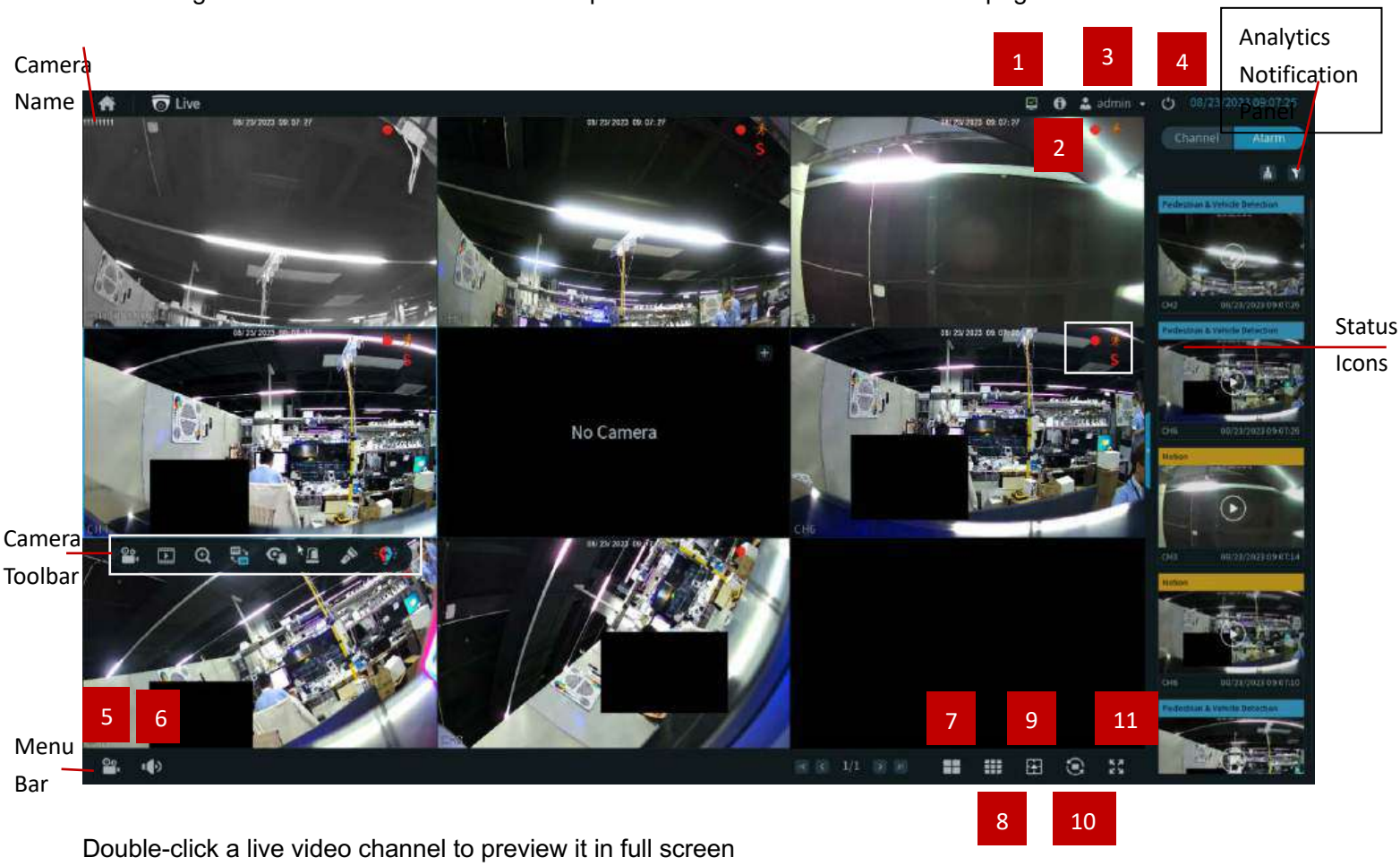
7. Download the Verox 247 app, register an account using your email address and log in, click Add Device on the APP homepage and scan the QR code; after scanning the code, follow the APP prompts to add and connect the device. After adding successfully, the device will be displayed on the APP homepage




16:32
52%
Verox247
00:00
+ Add Device
Home
Message

NVR homepage real-time preview

Introducing the icon functions of the real-time preview interface on the NVR homepage



Double-click a live video channel to preview it in full screen
Click and drag a live video channel to reposition it.
Right-click your mouse in Live View mode to display the main menu
The camera toolbar provides additional camera functions and settings

1. Menu Bar

1. Device network status, green means the device is connected to the Internet
2. Click to view system information
3. Switch User
4. Click to lock, reboot or shut down your NVR. NVR always shuts down when power is disconnected
5. Enter "Manual Recording" mode to record all IP channels. When enabled, this will bypass the current recording schedule.
6. Click to change the volume or mute the sound (click the speaker icon to mute the sound).
7. Four camera views
8. Nine camera views (this will show 8 cameras on an 8-channel model).
9. Click to select from one of the available multi-screen viewing modes.
10. rounds of patrol: click to start automatic patrol playback of real-time video channels
11. Click to display the currently selected live video channel in full screen

2. Camera toolbar

To access the Camera Toolbar, left-click on the camera you want to display.

1. While viewing your camera, tap to start manual recording (the icon will turn red while recording). Tap again to stop.
2. Click to play back the last saved recording (must be saved within the last five minutes).
3. Click to enter zoom mode.
4. Click to change "Substream Resolution" to "Mainstream Resolution". Click Change again.
5. Click to turn on/off the live view of this camera
6. Click to manually trigger the camera alarm
7. Click to turn on/off the camera spotlight
8. Click to turn on/off the camera's red and blue lights (if supported).

3. Main Menu

To access the main menu, right-click on the page you want to access.

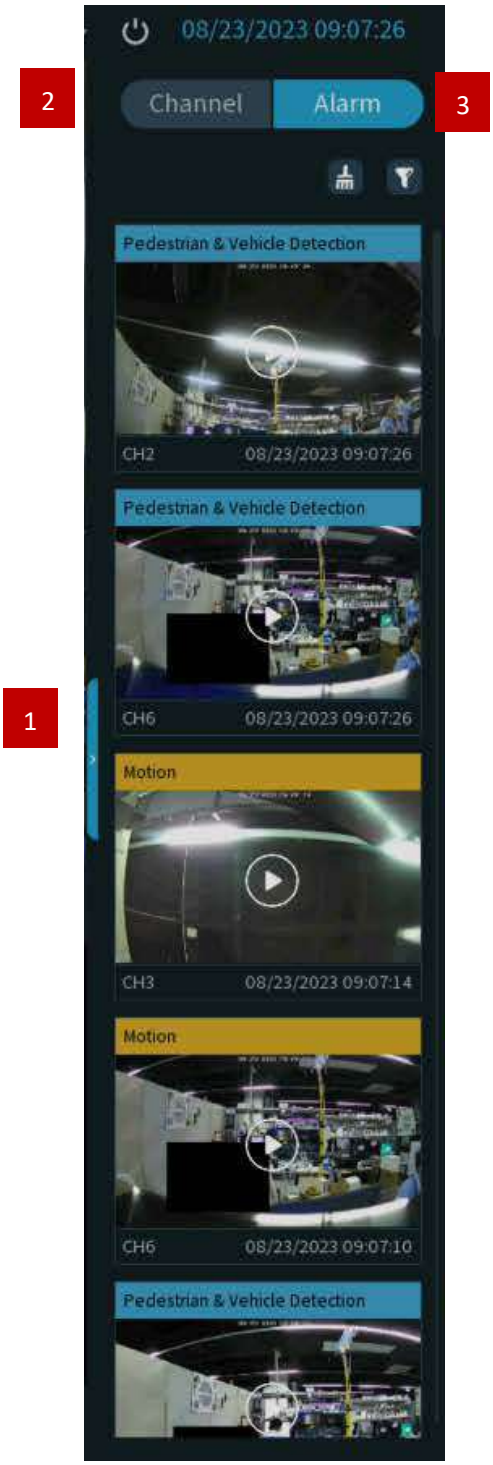
Live: Click to enter the live view page

Playback: Click, search and play recorded video

Search: Click to search and play automatically recorded smart events, manually recorded videos, and search system logs.

Configuration: Click to enter the configuration page

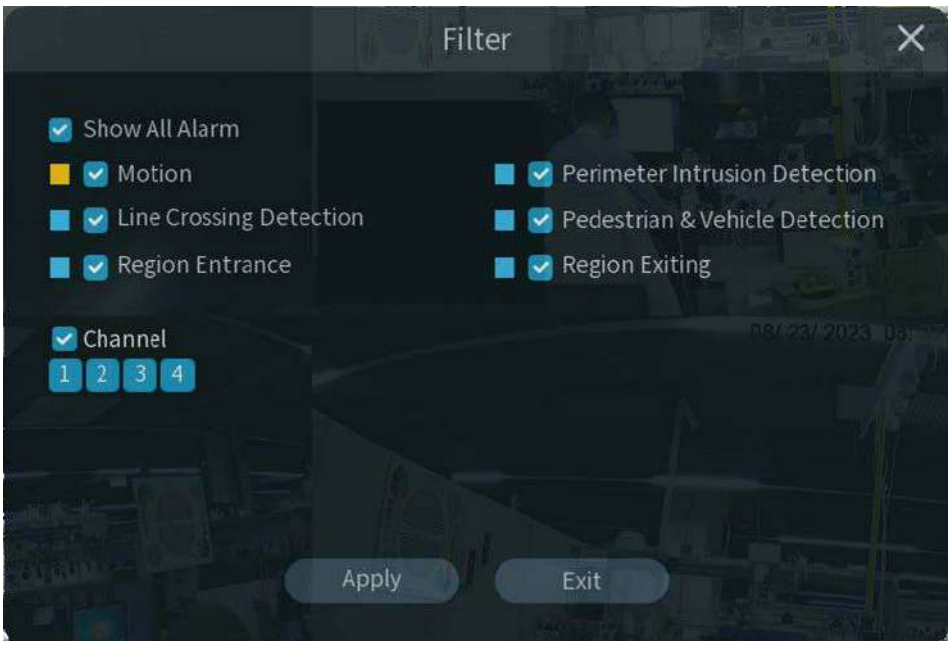
4. Side event notification alarm bar



Event notification panel display

Thumbnails of events that occurred through motion detection, or if one or more analysis tools are enabled. Events are color-coded based on event type (yellow for Motion, blue for Smart Events). Scroll up and down using your mouse wheel (first place your mouse cursor over the Notification Panel). Double-click the play button next to a thumbnail or above it to play the event.

1. Show /hide event notification panel
2. Clear the event list
3. Click to display the Filter function (Filter function is shown below). Use the Filter function to customize which alerts and which cameras will appear in the notification panel.



5. Use the filter feature to customize alerts and which camera will appear in the notification panel.

Status Icon

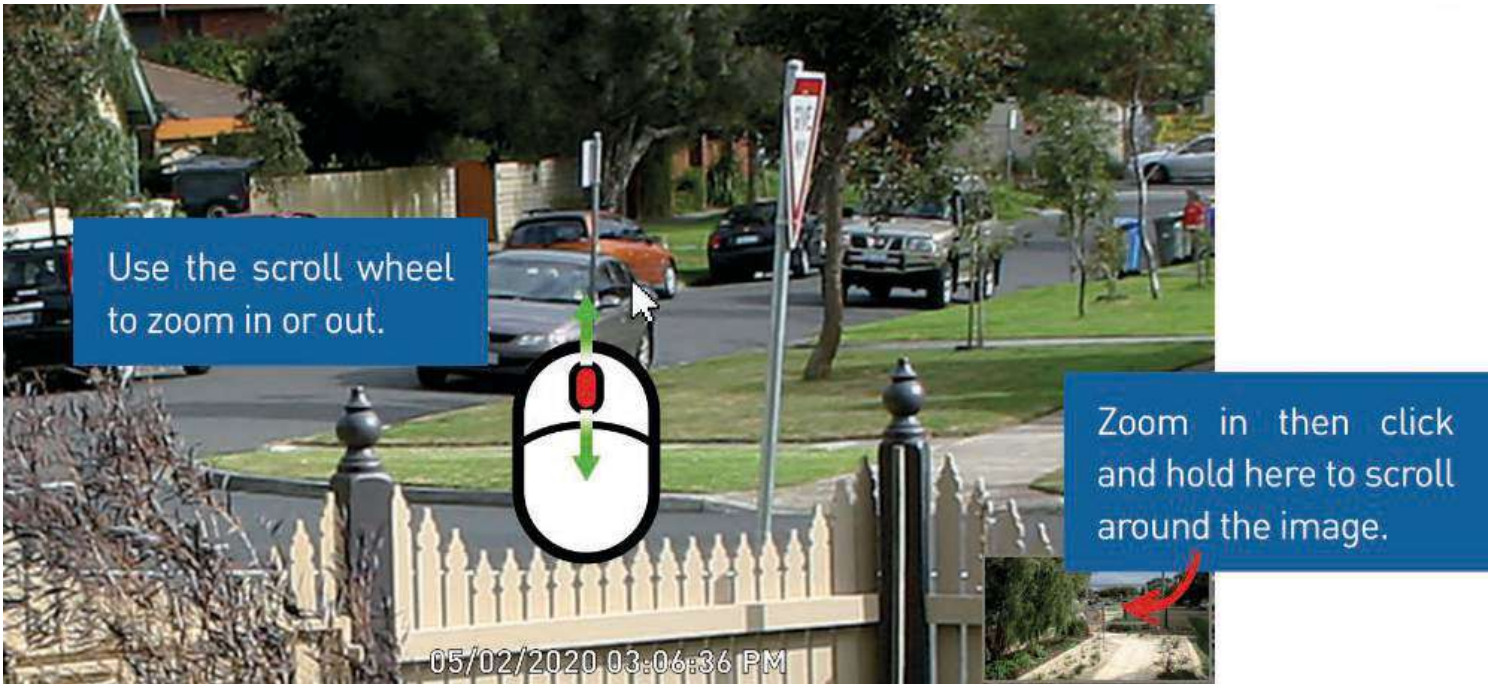
● Indicates that the camera is recording (manually or through the recording schedule).

 This indicates that the camera has detected motion and the NVR is recording.

S This indicates that the camera has detected an intelligent event (human detection or vehicle detection) and the NVR is recording.

 This indicates that the NVR cannot detect the hard disk.

Live view zoom



1. To enter Zoom mode, left-click on the camera in Live View mode and then click the Zoom button on the camera toolbar (as shown).

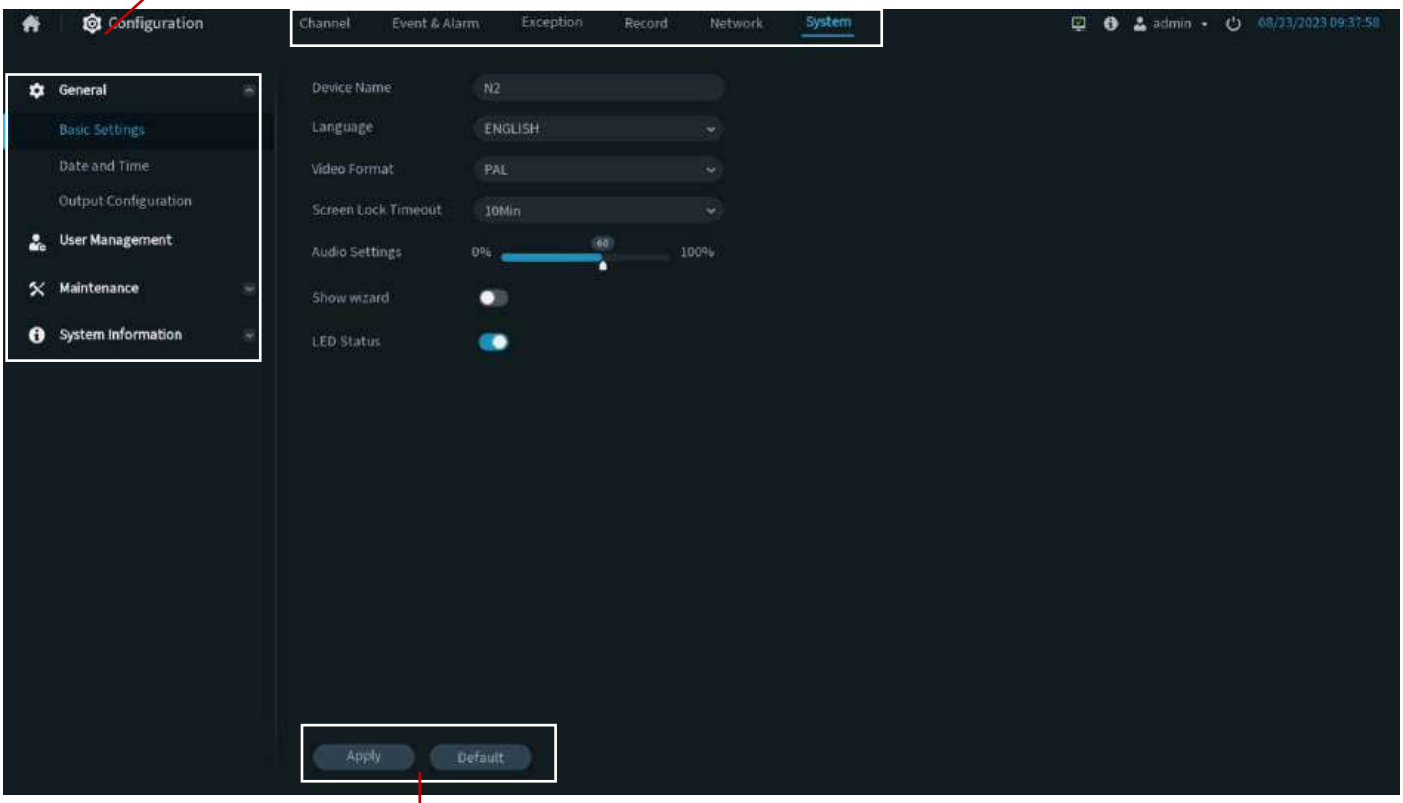
2. To zoom, move your mouse to the area or object you want to zoom in and use the scroll wheel on your mouse to zoom in or out. When zoomed in, click and hold the rectangle (shown in the lower right corner of the screen) to scroll around the image. Right-click to exit.

Double-click the mouse to view multiple channels.

Menu Layout

Clicking on each feature module will display several tabs or subcategories, the default settings of which can be changed.

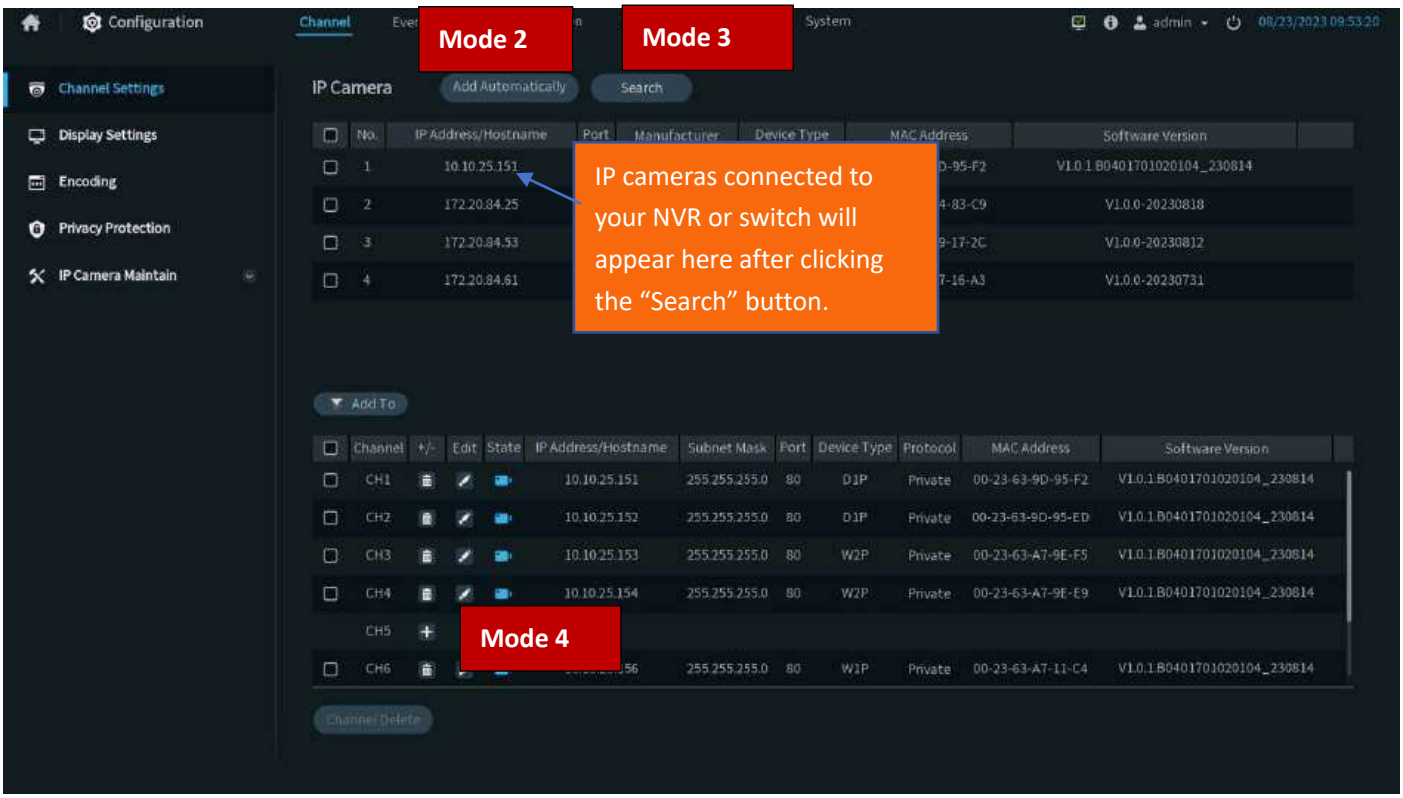
Various available function modules are categorized in the top menu.



Save changes you have made or restore default settings.

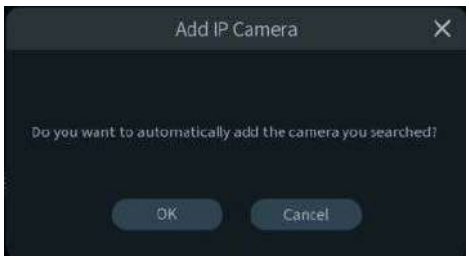
To exit or access other menus, right-click your mouse and select Menu. the mouse and select the menu.

Channel: Channel Settings



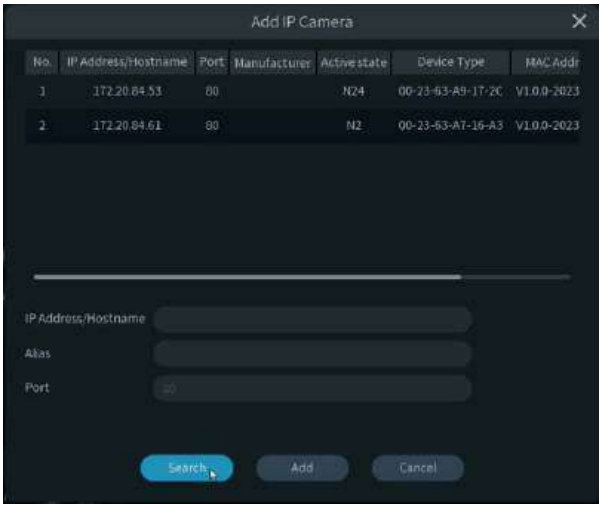
Method 1: Connect the camera to the POE port of the NVR. After a while, the camera will automatically go online and preview normally.

Method 2: Connect the IPC to the switch, click "Add Automatically", and a window will pop up asking "Do you want to automatically add the camera you searched?" Click OK for a while, and then you will see your camera in real-time preview.

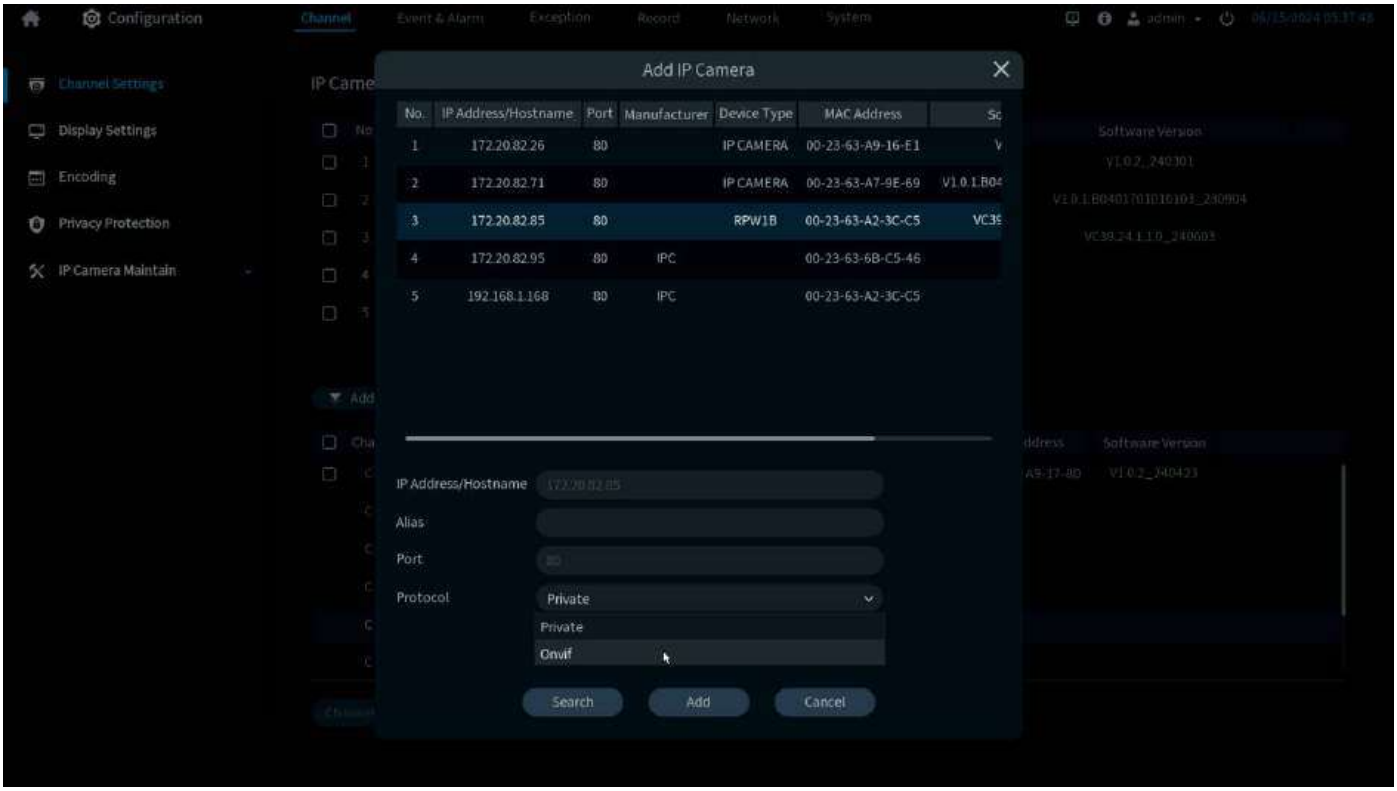


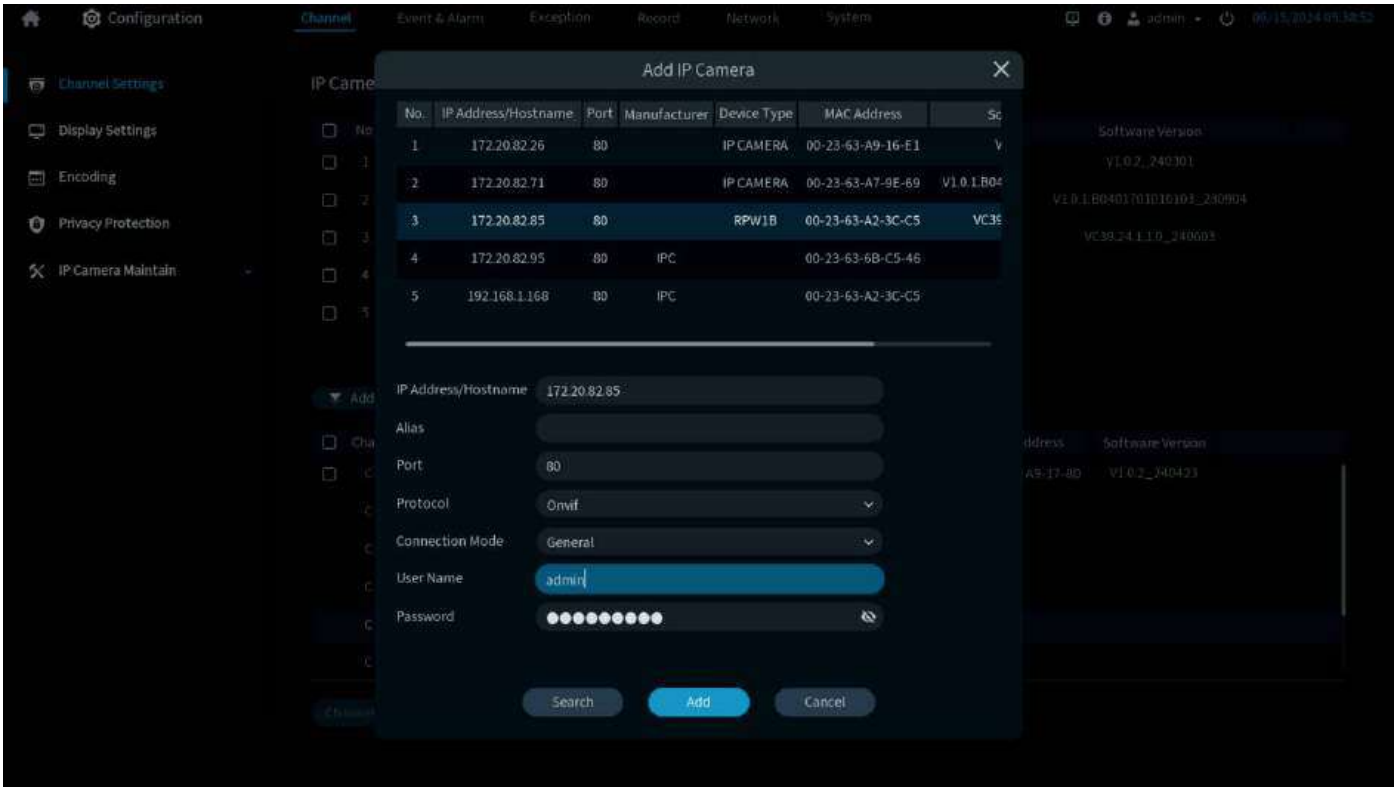
Method 3: Connect the IPC to the switch and click "Search." The cameras connected to the network will appear. Click the checkbox to select them, then click "Add To." You will then see your camera in live view mode.

Method 4: Connect the IPC to the switch, click the "+" button on the channel where you want to add the camera, then click "Search", select the camera you want to add, and click "Add". Then you will see your camera in real-time preview.



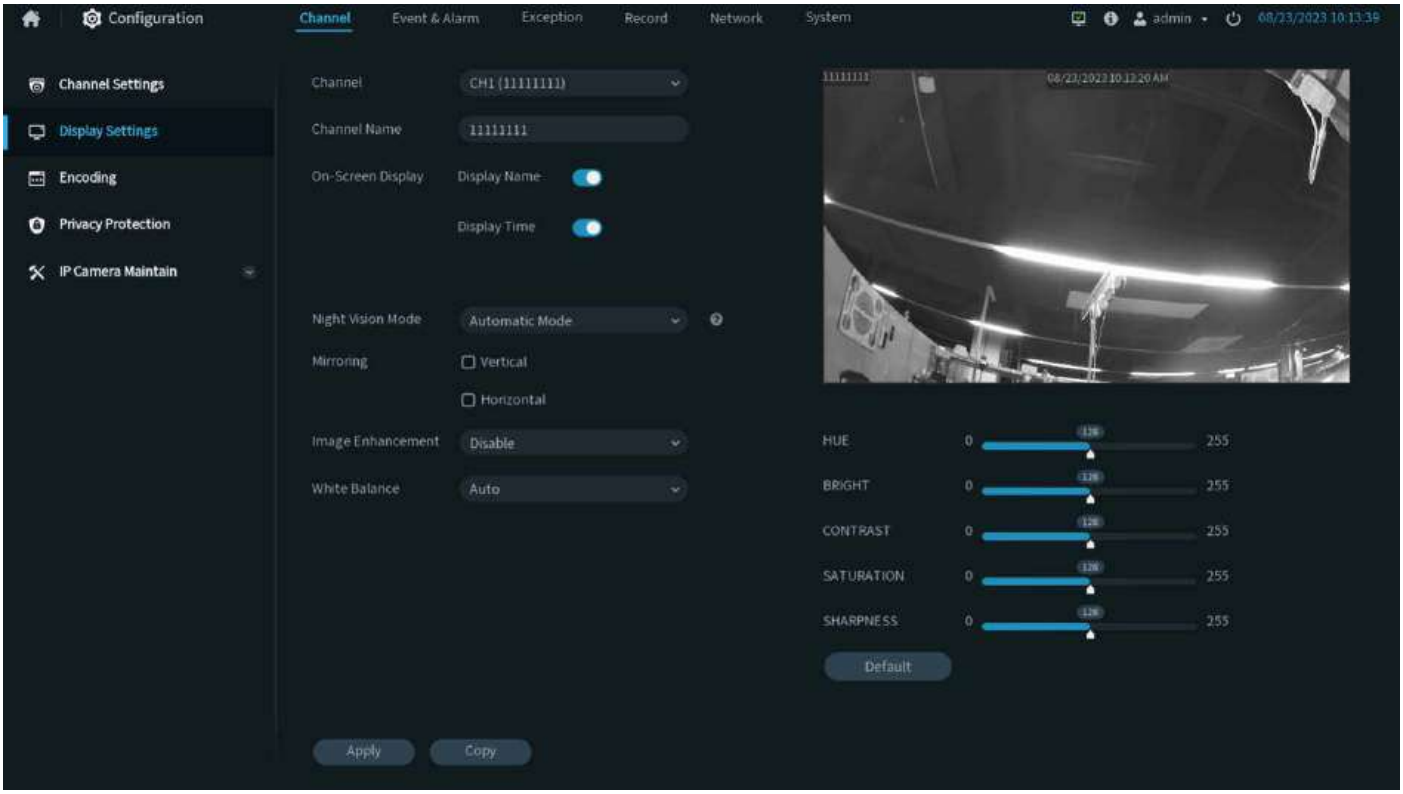
Method 5: Use the ONVIF protocol to add a camera; click the "+" button on the channel where no camera is added, then click search, select the camera you want to add, switch the protocol from Private to ONVIF, enter the correct user's name and password for the camera, and click "Add" to add the camera to the real-time preview.





Please note: When adding a camera connected to the NVR, it pairs with the available channels on the NVR. If all channels are currently in use, it is not possible to add additional cameras.

Channel: Display Settings



Channel: Select the channel you want to set

Channel Name: Set the channel name of the current channel

On - Screen Display: Whether to display the name and time in the channel preview

Night Vision Mode: Lets you choose how the camera handles colors and manages the transition from day to night and vice versa:

- Color Mode: During the night (or in the dark environments), the warm white lights will turn on, and the images will be in color.
- Automatic Mode: During the night (or in the dark environments), the infrared LEDs will turn on, and the images will be in black and white.
- Smart Night Light Mode: During the night (or in the dark environments), when no events occur, the infrared LEDs turn on, and the images are in black and white. When an event occurs, the warm white lights turn on, and the images is in color.

Mirroring ： Vertical：Image flipped vertically

Horizontal: The image is flipped horizontally

Image Enhancement: You can select the corresponding function according to the environment where the camera is located

- Wide Dynamic Range: This feature will process images that have been overexposed by lighting such as headlights or spotlights. This will significantly reduce the light and improve clarity in bright areas. If desired, click the drop-down menu to enable Wide Dynamic Range.
- Highlight Compensation: This feature balances images with a large dynamic range. It does this by brightening dark areas and darkening bright areas. For example, if an indoor camera is pointed at a window or building entrance, daytime images will appear washed out due to the high brightness of the incoming light. If desired, click the drop-down menu to enable Highlight Compensation.
- Back Light Compensation: Increases the exposure of objects in front of a light source. This can happen if an object is in front of a window, or a person is coming in from outside. The camera will pick up the natural light, so objects or people in the foreground will appear darker. If the camera is installed in a location where this feature is needed, click the drop-down menu to enable it.
- Disable: Do not enable the image enhancement function

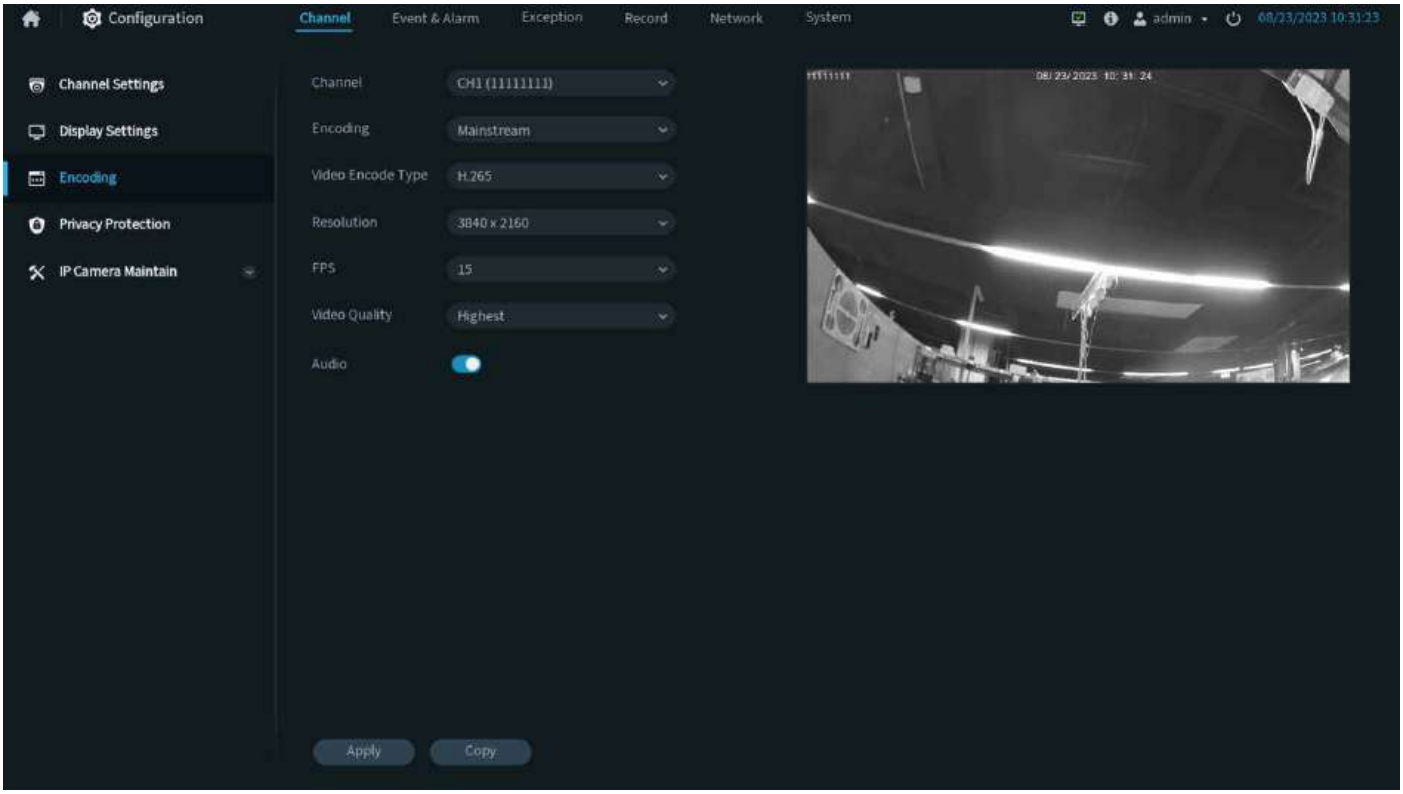
White Balance: This feature adjusts the lighting so that white objects appear white in your photo. One indicator that the white balance isn't set properly is that dark colors appear washed out, shifted, or a completely different color. If this happens, click the drop-down menu and change it to "Manual," otherwise leave it set to "Auto":

Auto: The camera automatically adjusts the white balance.

Manual: When you select this mode, click and hold the red, green, or blue sliders and drag them left or right.

Hue: The same object under warm light will appear unified in warm tones; under cool light, it will appear unified in cool tones. When light has a specific color, the entire object will be enveloped in that color.
BRIGHT: Brightness refers to the brightness of the image
CONTRAST: The greater the contrast, the clearer and more eye-catching the image, and the more vivid the colors; while a small contrast will make the entire picture gray.
SATURATION: The saturation of a color refers to how vivid the color is.
SHARPEN: Used to enhance the clarity of the image, including adjusting the sharpness of the image edge and enhancing the clarity of the image details and textures. It can also independently control the directional edges and non-directional detail textures of the image.
NOTE: **Click and hold the slider and drag it left or right to adjust the image color value.**

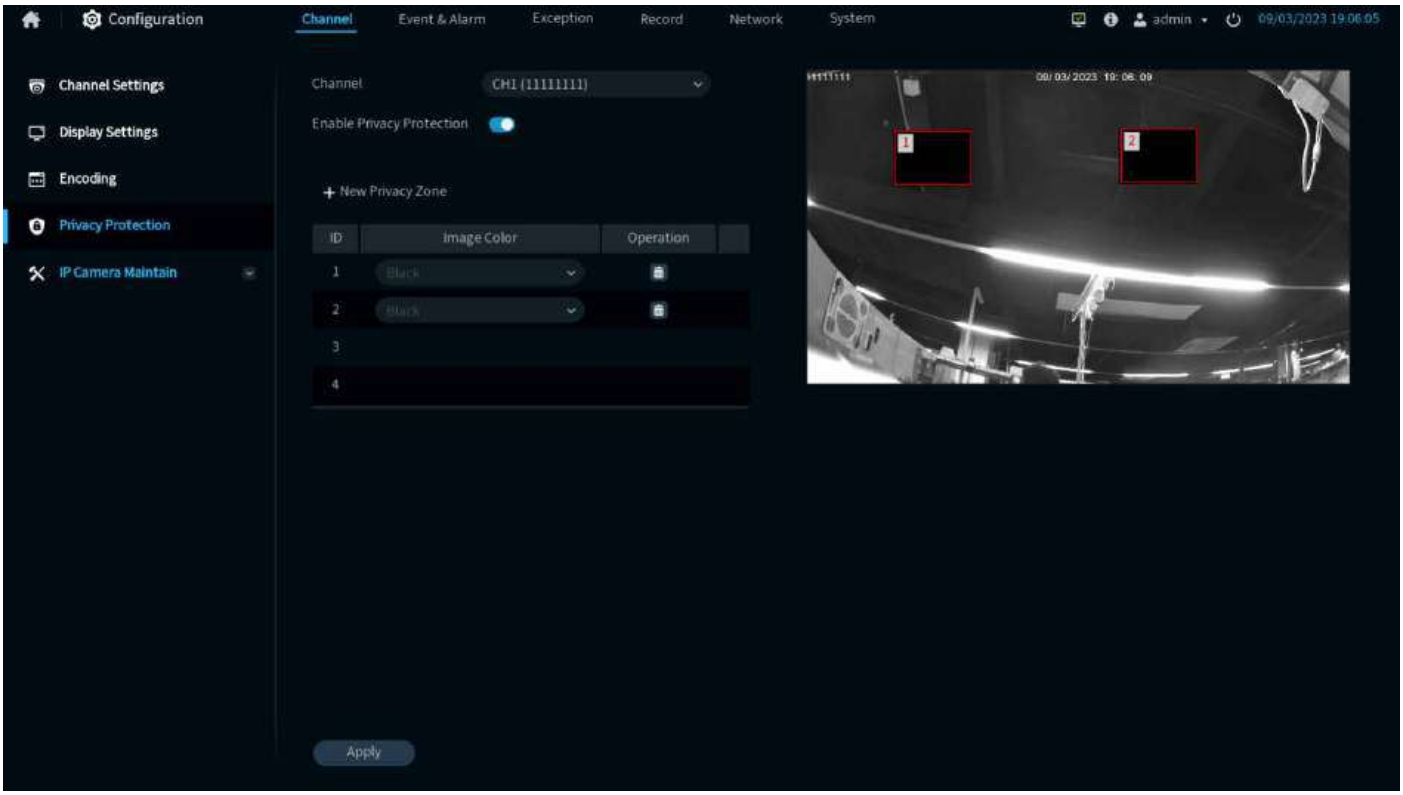
Channel: Encoding



Channel: Select the channel you want to set
Encoding: Select the code stream you want to set
Video Encode Type: Your NVR uses two codecs to record video. The H.265 codec compresses information more efficiently and provides the best video quality for the given bandwidth between each camera and the NVR. This setting allows your NVR to automatically adjust the video so that the connection and quality are consistent and reliable. The alternative codec is H.264. We don't recommend this because it can affect the reliability of the connection between each camera and the NVR due to the higher bandwidth required. If your camera defaults to H.264, change it to H.265.
Resolution: The optimal recording resolution for the camera is automatically selected by the NVR.
FPS: The optimal frame rate for the camera is automatically selected by the NVR.
Video Quality: The best video quality for the camera is automatically selected by the NVR.
Audio: Your NVR will use the camera's built-in microphone to record audio. Click the checkbox to disable or enable it.

Channel: Privacy Protection

This feature can mask the privacy of all or part of your image (up to four privacy zones can be created for each camera). The masked area will not be recorded in preview and playback.



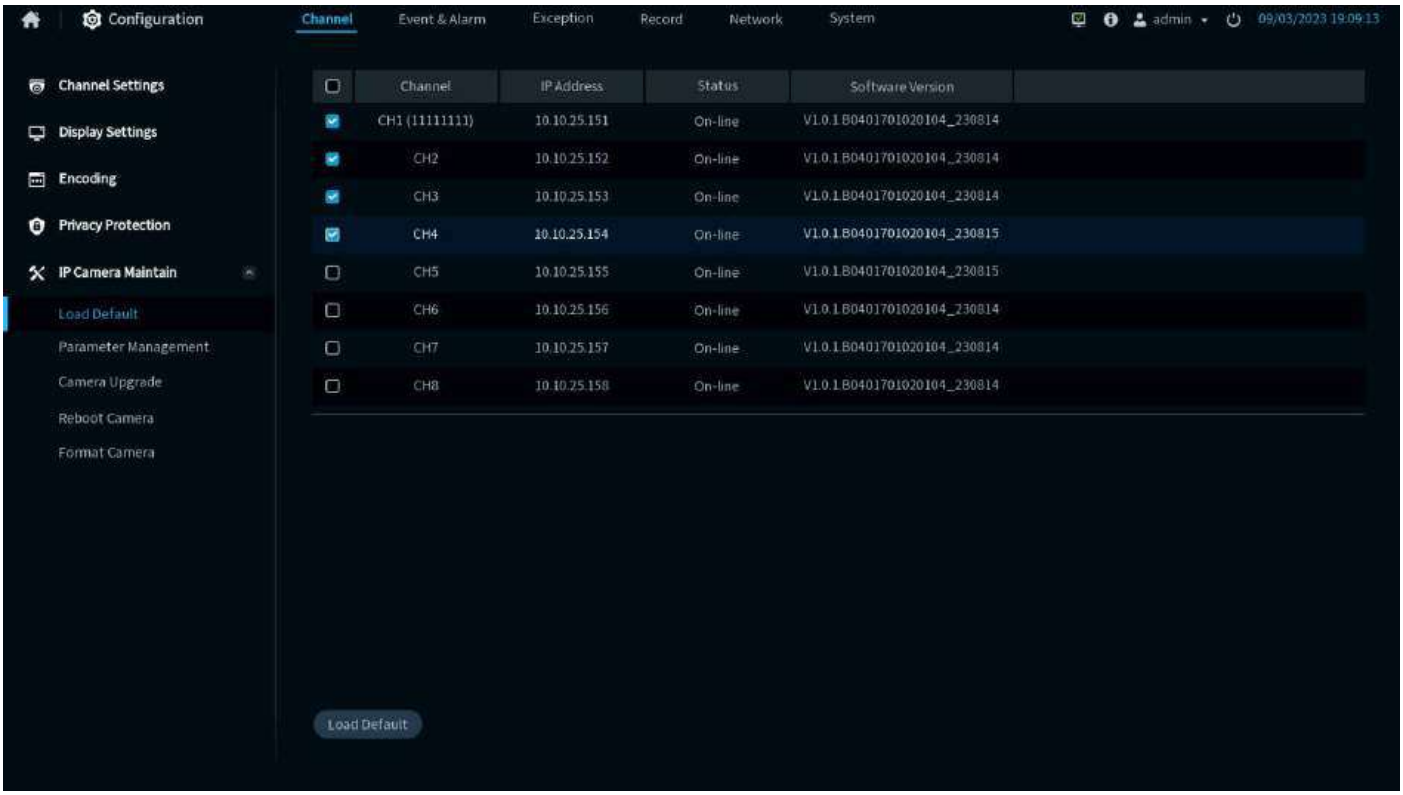
Channel : Select the camera you want to edit.

Enable Privacy Protection : Enable or disable the privacy zone .

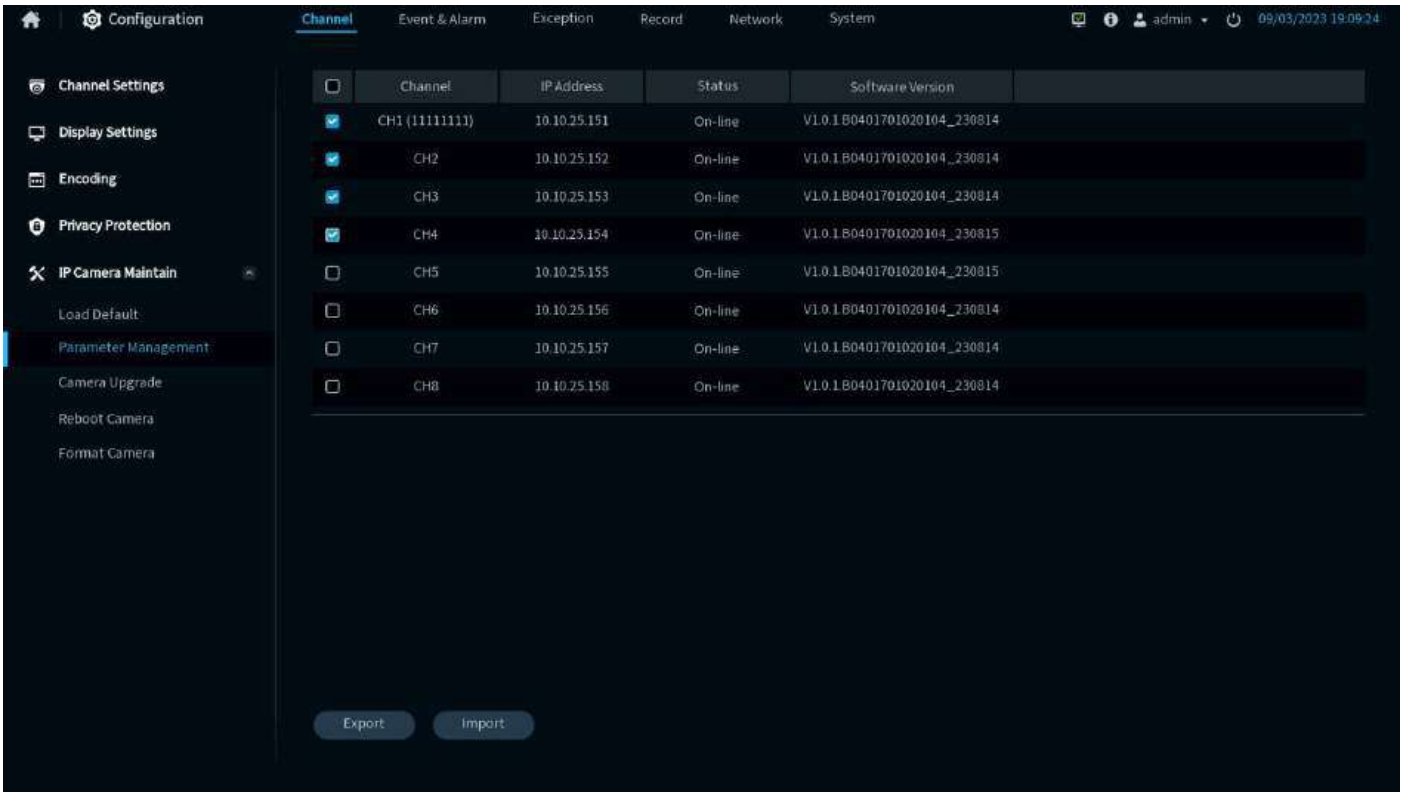
+ New Privacy Zone : Add privacy zones. You can enable up to four privacy zones for each camera. Depending on the number of enabled privacy zones, one or more privacy zones will appear in the preview window.

1. Each privacy zone will be numbered according to the number of privacy zones you want to add. To reposition a privacy zone, click and hold on the privacy zone, then move the privacy zone to the desired location.
2. To resize a privacy zone, click and hold the bottom right corner of the privacy zone, then resize it to the desired size. You can reposition and resize each privacy zone so that they overlap.
3. When finished, click "Apply" to save. The masked area will not be displayed in preview and playback. To delete the mask, click the "Delete" icon next to the relevant area and click "Apply" to save.

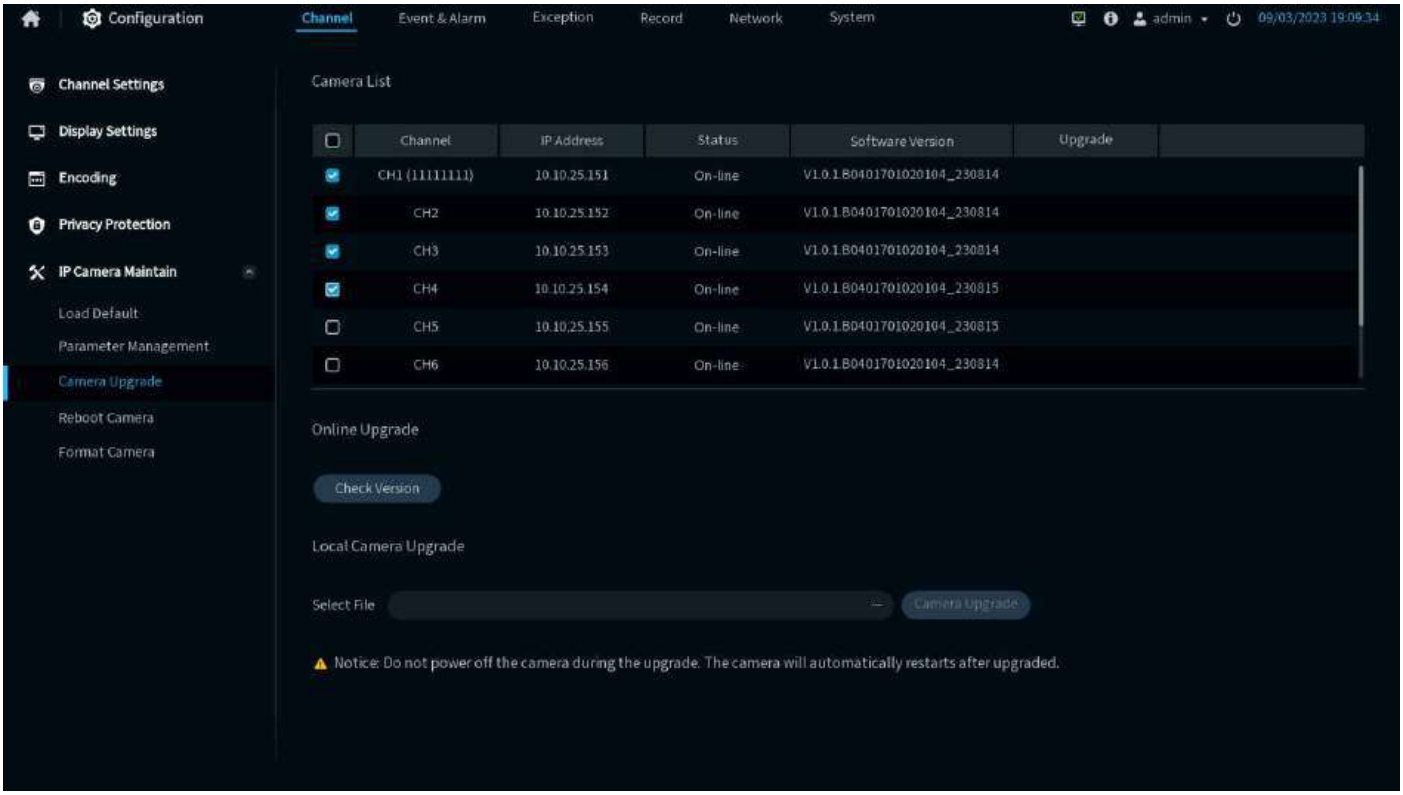
Channel: IP Camera Maintain



Load Default: Select one or more cameras and click " Load Default " to restore the camera's default factory settings.



Parameter Management: Select one or more cameras and click " Export " / " Import " to export the camera parameters to a USB flash drive or import the parameters from a USB flash drive to the camera. Note: When importing parameters, they must be parameters of cameras of the same model.

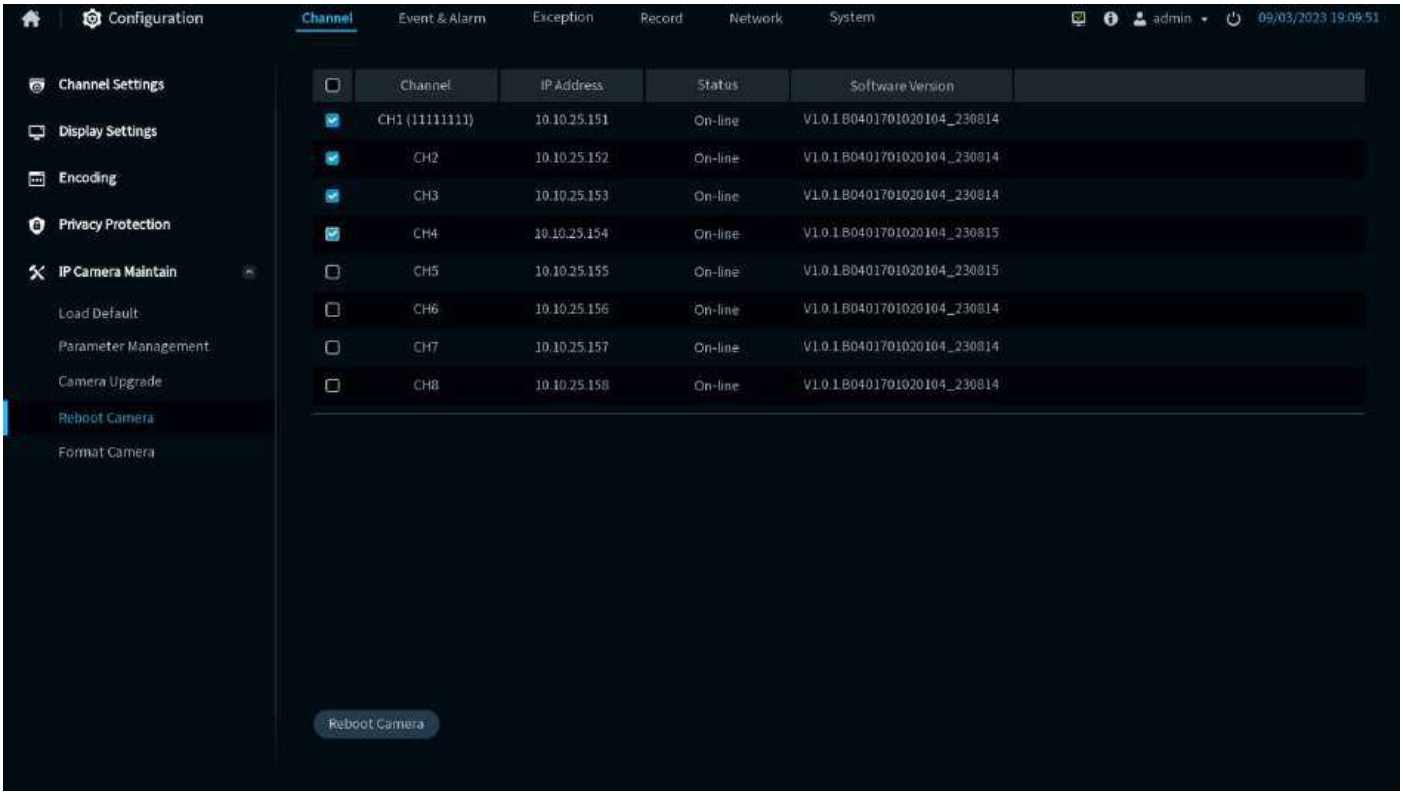


Online Upgrade :

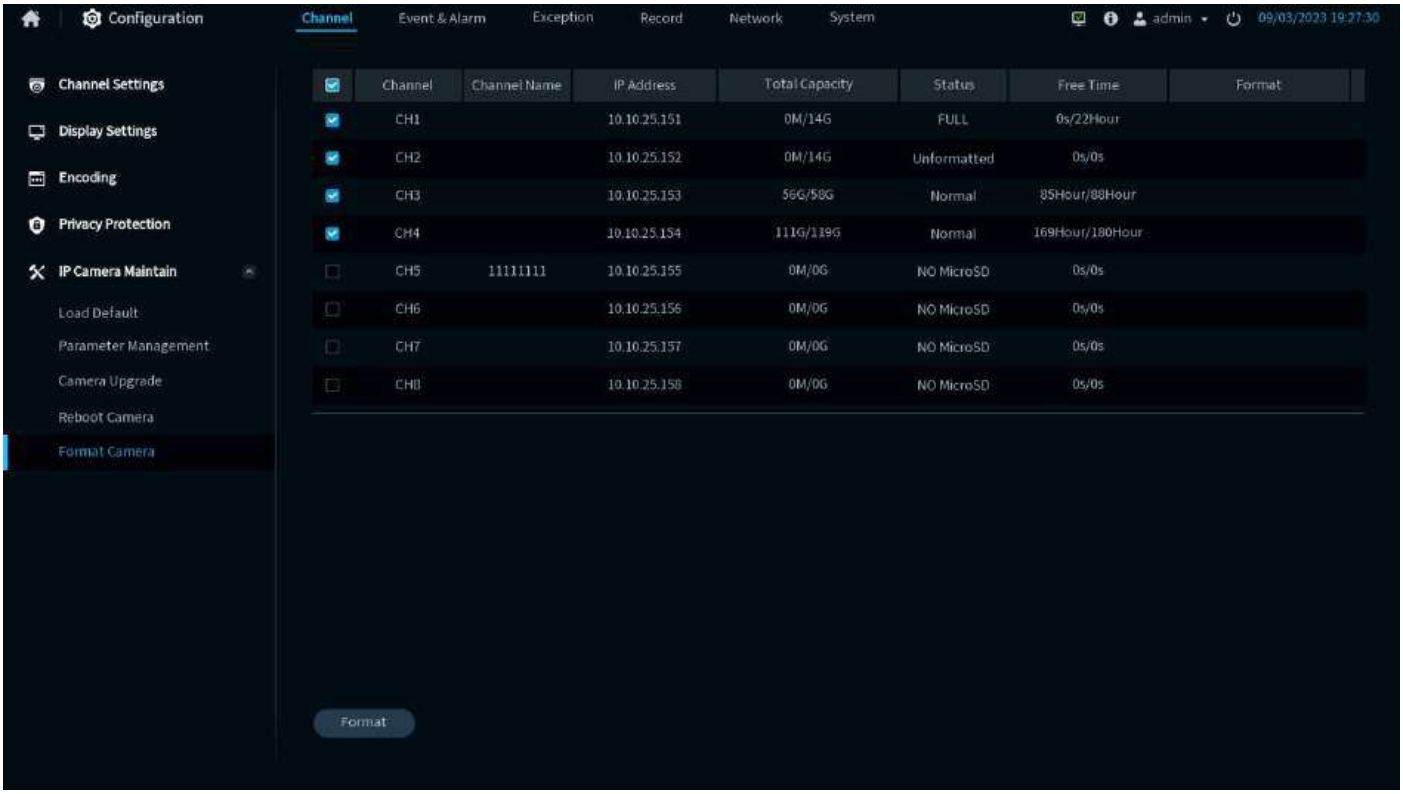
1. Select the camera you want to upgrade and click " Check Version ".
2. If a new version is detected, click " Upgrade " and enter the admin password for verification to upgrade the camera online. The system upgrade takes about 5-10 minutes. Please do not turn off the NVR power during the firmware upgrade.

Local Upgrade :

1. Copy the firmware file (.sw file) to your USB drive, then insert the USB flash drive into the USB port of the NVR.
2. Click the Choose File button, select the firmware file in the USB flash drive, and then click OK.
3. Select the camera to be upgraded and click the "Camera Upgrade" button to start the system upgrade. The system upgrade will take about 5-10 minutes. Please do not turn off the NVR or remove the USB from the NVR during the firmware upgrade process.



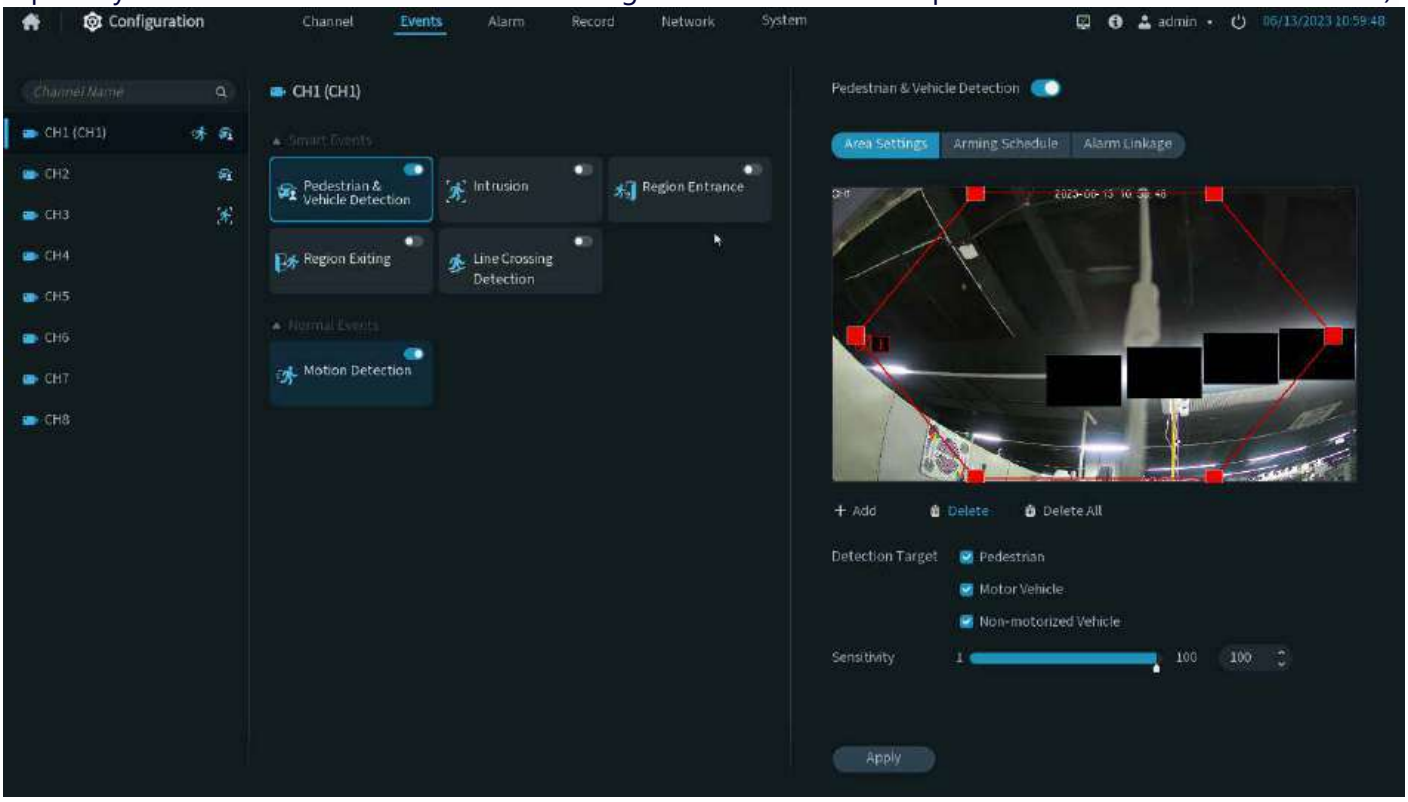
Reboot Camera: Select one or more cameras and click " Reboot Camera " to restart the camera.



Format Camera: Select one or more cameras and click " Format " to format the SD card connected to the camera.

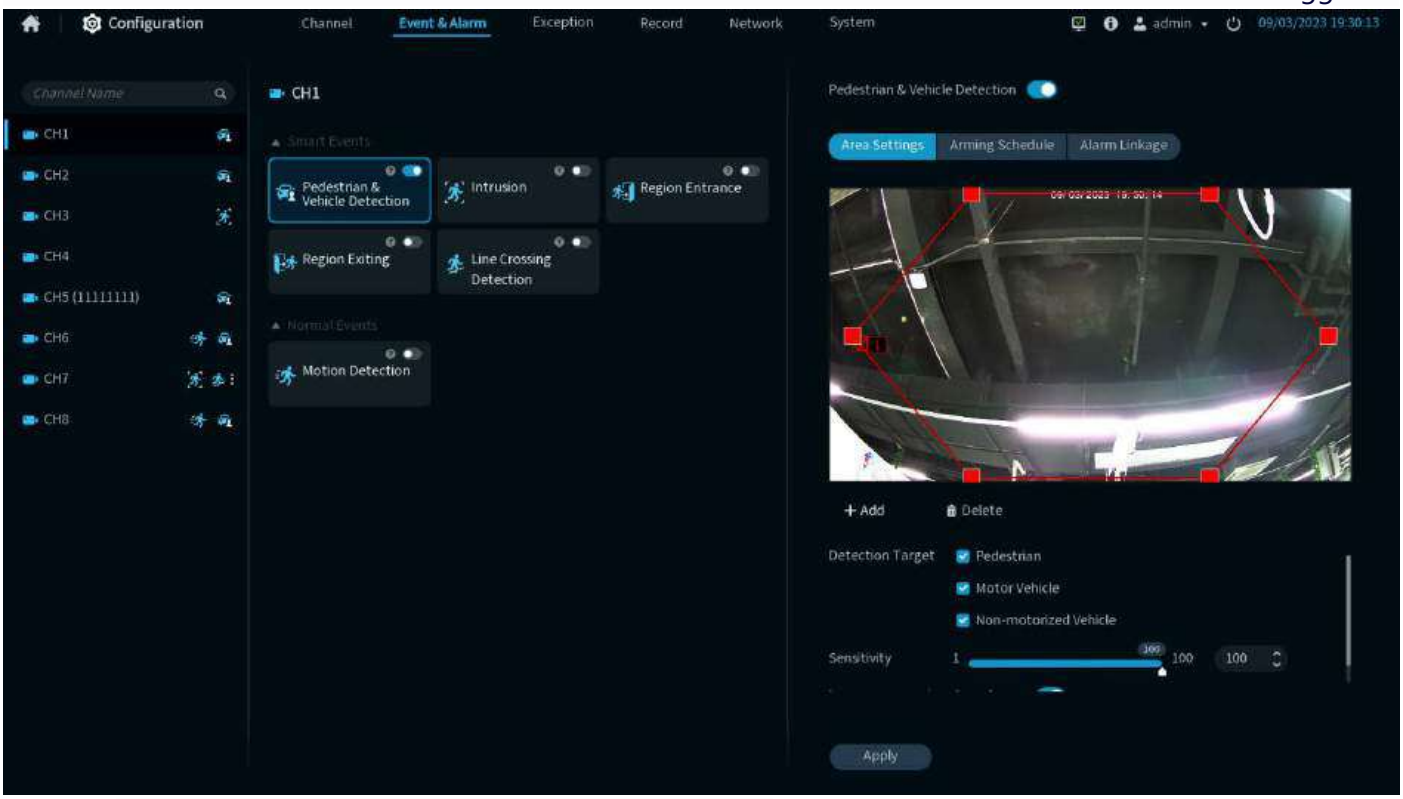
Event & Alarm

The "Events" feature gives you greater control over how the NVR detects motion. You can enable motion detection to sound an alarm if a pedestrian or vehicle moves or leaves. You can also define specific intrusion zones, which will alert you if one or more objects remain within the zone for a given period of time (this is especially useful if someone is wandering or a vehicle is parked where it shouldn't be).



Event: Pedestrian & Vehicle Detection

Pedestrian and vehicle detection can detect people and vehicles entering and loitering within a pre-set virtual area and take certain actions when an alarm is triggered.



Switch : Enable or disable pedestrian and vehicle detection.
Setup Region : Click the Add button to draw one or more detection regions.
Detection Target : Select the target you want to detect, including pedestrians, motor vehicles, and non-motor vehicles.
Sensitivity : Adjusts the sensitivity level of pedestrian and vehicle detection. The higher the value, the more sensitive the pedestrian and vehicle detection will be.

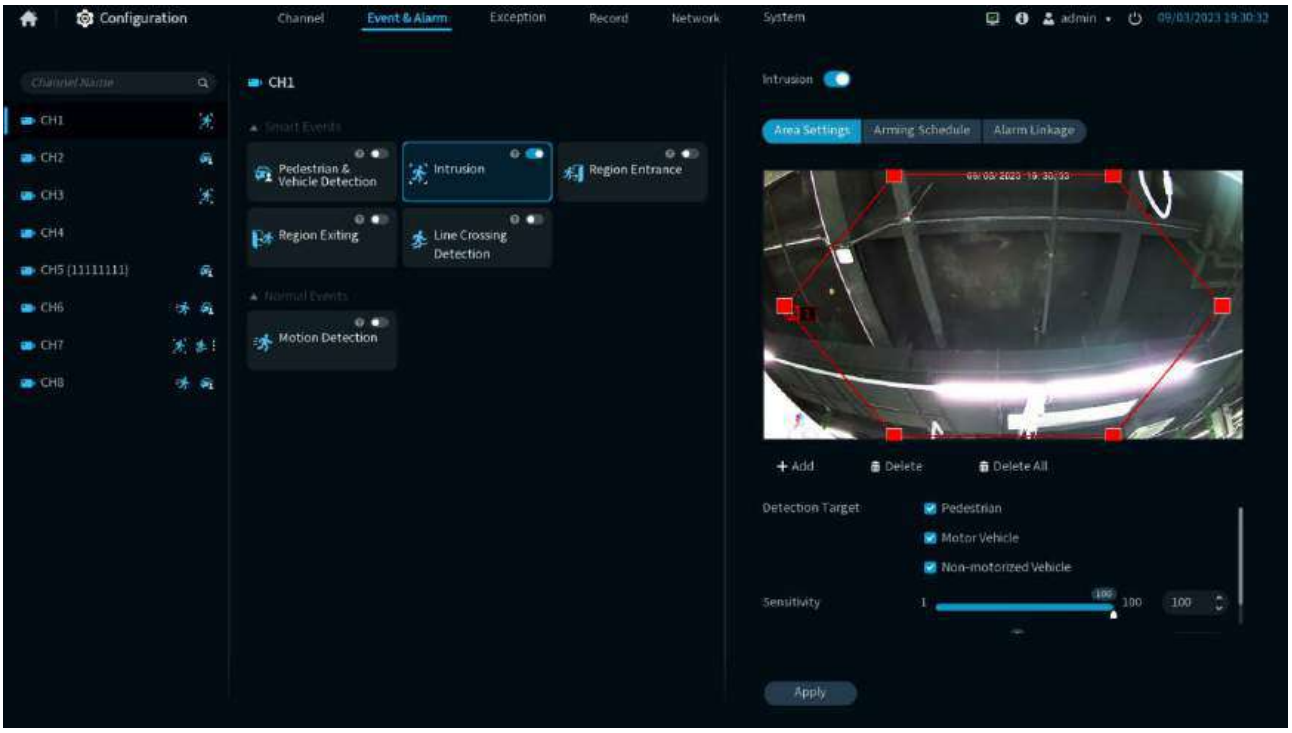
Customizing the Detection Range

1. Click and drag any of the red squares (size handles) in the corners of the hexagon to shape and customize the object detection area. You can adjust the size or shape of the rectangle as needed to exclude areas where you don't want to detect people and/or vehicles. See the example below.
2. To delete a perimeter intrusion zone: Click the checkbox next to the rule number to select it, then press the "Delete" button.

NOTE: After deleting the detection rule, the detection area will be set to full screen. Please confirm whether to continue deleting.

Event: Intrusion Detection

Intrusion Zones can be used to define specific areas that you want to monitor for motion. For example, you can define one or more zones so that when one or more objects remain within an intrusion zone for a specific amount of time, your NVR will alert you.



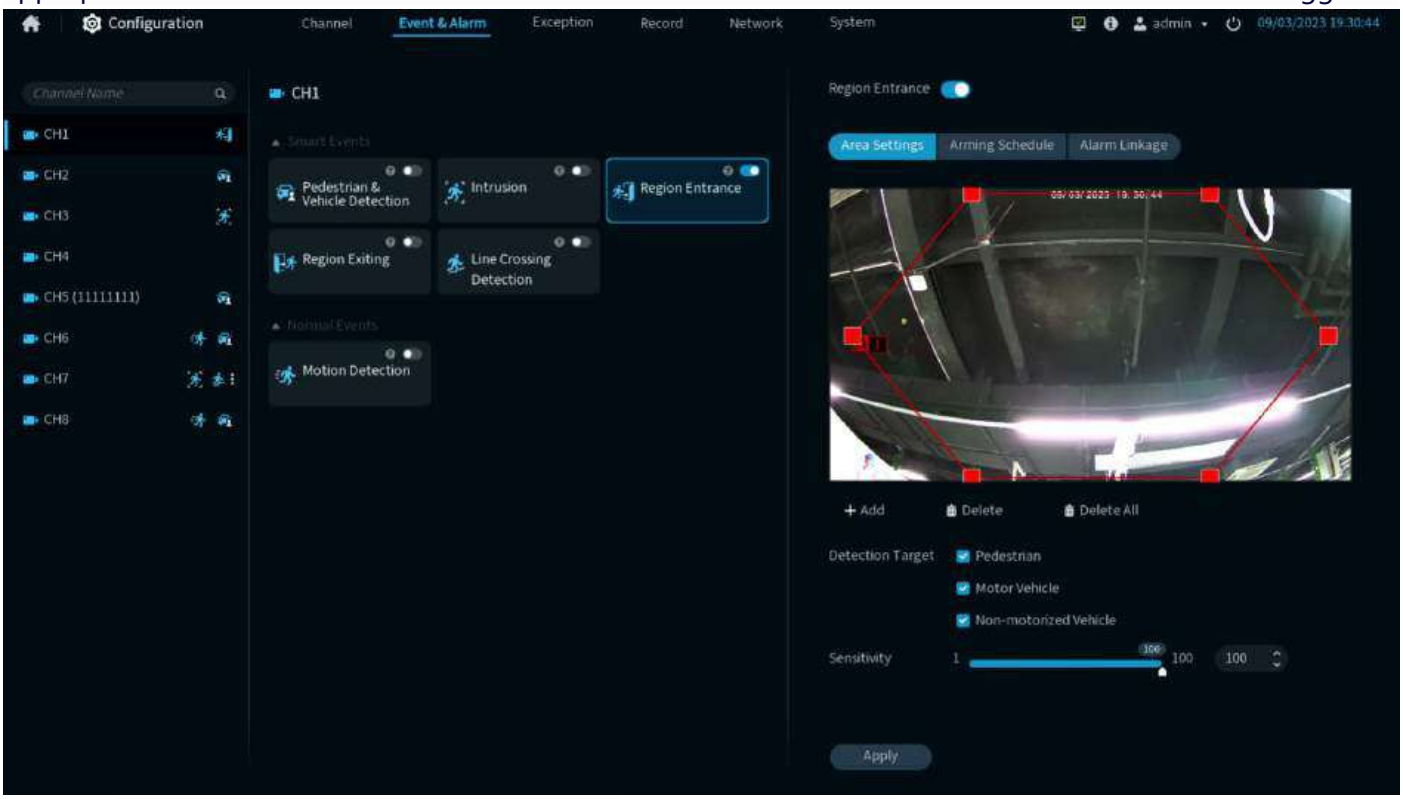
Switch : Enable or disable intrusion detection.
Setup Region : Click the Add button to draw one or more detection areas.
Detection Target : Select the target you want to detect, including pedestrians, motor vehicles, and non-motor vehicles.
Sensitivity : Adjust the sensitivity level of the surrounding intrusion area. The higher the value, the more sensitive the intrusion area.
Intrusion Tolerance Time: When the detected target stays for a specific time, the area will alert you.

1. Click and drag any of the red squares (size handles) in the corners of the hexagon to shape and customize the object detection area.
2. To delete a perimeter intrusion zone: Click the checkbox next to the rule number to select it, then press the "Delete" button. If multiple zones are drawn, click "Delete All".

Note: The detection function will trigger an alarm only after the target completely enters and remains within the marked area. If the marked area is too large, the movement of objects outside the marked area may not be detected, resulting in detection failure.

Event: Region Entrance Detection

Zone entry detection detects pedestrians and vehicles entering predefined virtual zones and takes appropriate action when an alarm is triggered.



Switch : Enable or disable zone entry detection.

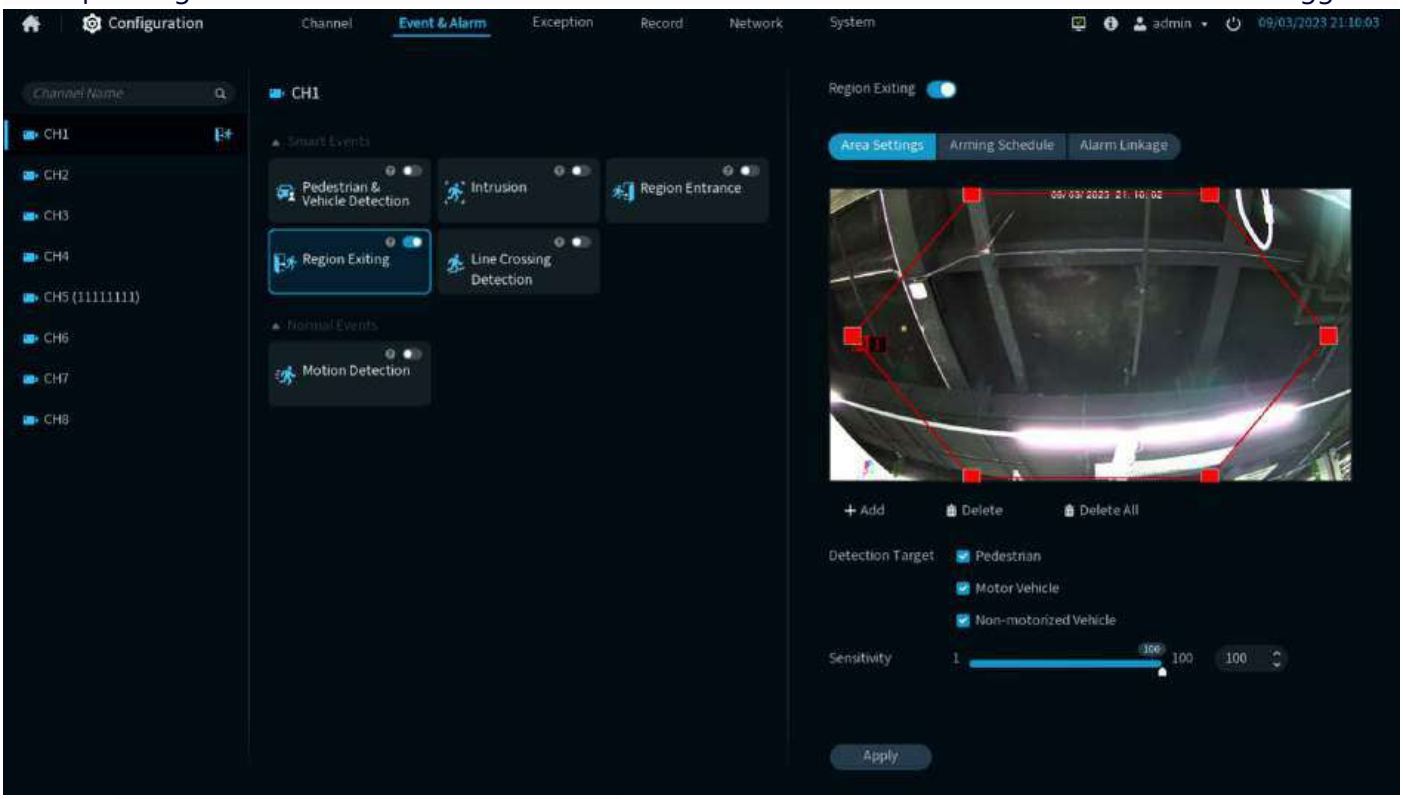
Setup Region: Click the Add button to draw one or more detection areas.

Detection Target : Select the objects you want to detect, including pedestrians, motor vehicles, and non-motor vehicles.

Sensitivity : Adjust the sensitivity level of zone entry detection. The higher the value, the more sensitive the zone entry detection.

Event: Region Exiting Detection

The zone exit detection function can detect when people and vehicles leave the preset virtual zone and take corresponding measures when the alarm is triggered.



Switch : Enable or disable region exit detection.

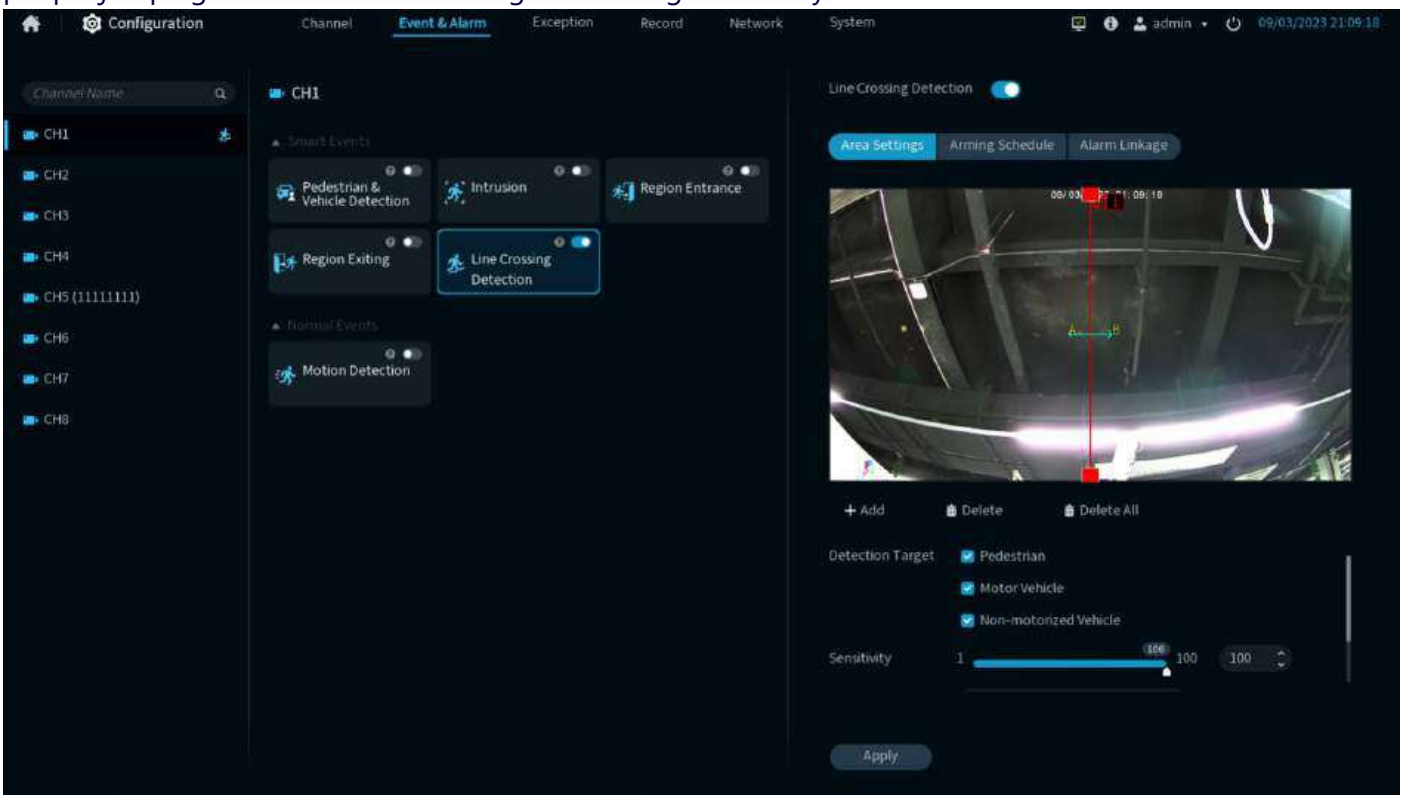
Setup Region : Click the Add button to draw one or more detection regions.

Detection Target : Select the target you want to detect, including pedestrians, motor vehicles, and non-motor vehicles.

Sensitivity : Adjusts the sensitivity level of zone exit detection. Higher values result in more sensitive zone exit detection.

Event: Line Crossing Detection

Line Crossing Detection detects people and vehicles crossing a preset virtual line and triggers an action when an alarm is triggered. By drawing a detection line (which can be drawn in any direction, length, or angle), you can apply a rule on the NVR to detect the direction of movement. For example, this can detect people jumping over a fence or entering and leaving a doorway.

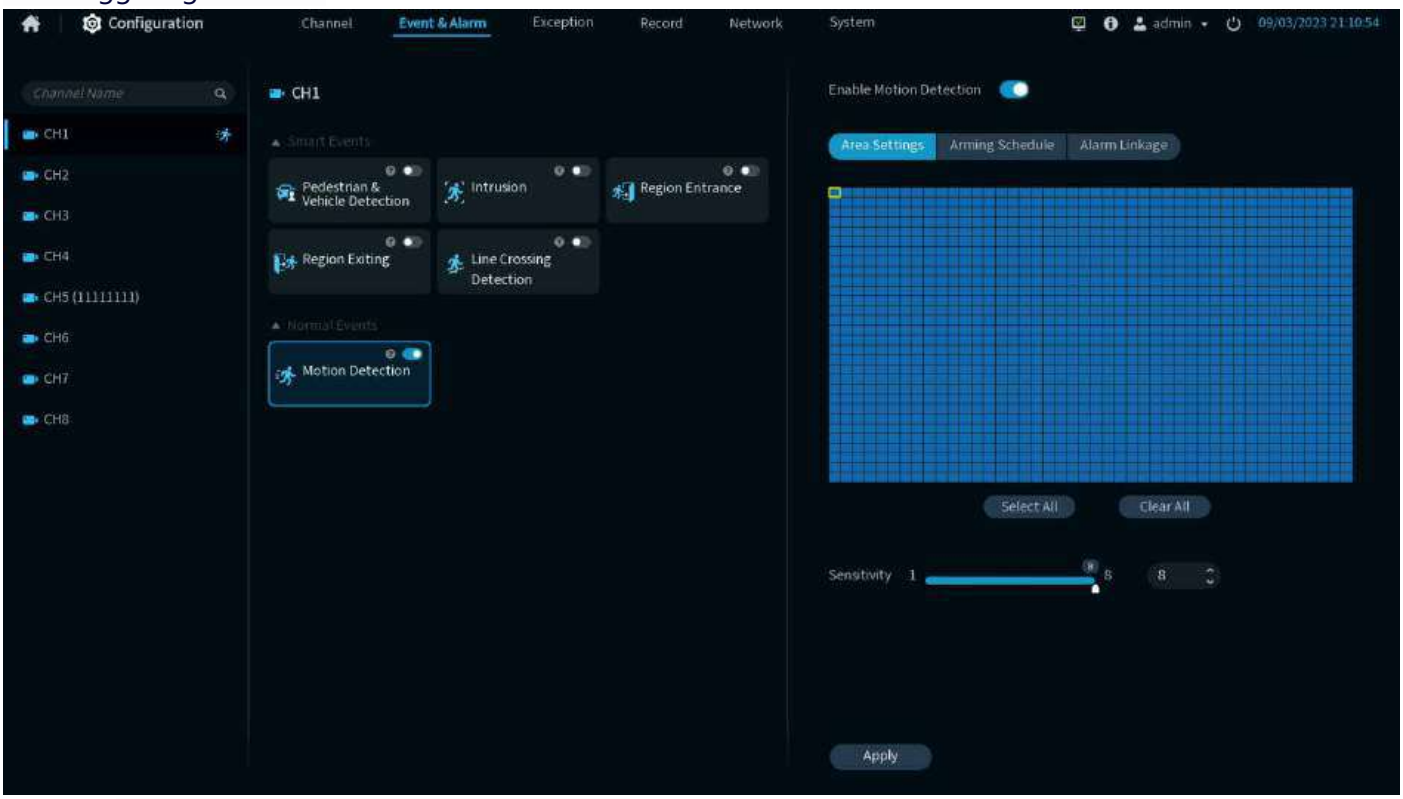


Switch : Enable or disable line crossing detection.
Setup Region : Click the Add button to draw one or more detection lines.
Detection Target : Select the target you want to detect, including pedestrians, motor vehicles, and non-motor vehicles.
Sensitivity : Adjusts the sensitivity level of line crossing detection. The higher the value, the more sensitive the line crossing detection.
Rule Number : Click the drop-down menu to select the rule number you want to create. You can draw up to four detection lines.
Crossing Direction : You can choose from three crossing directions. Select the appropriate rule for the drawn line (each line can have a different rule).

A→B: Motion is detected only when the object crosses the line from direction A.
B→A: Motion is detected only when the object crosses the line from direction B. (Note: This description may be a mistake because it is repeated with the previous one. Usually, this should be from B to A.)
A ↔ B: Motion is detected when an object crosses the line from both directions.

Event: Motion Detection

Motion detection can detect people and objects moving within a predefined area and take certain actions after triggering an alarm.



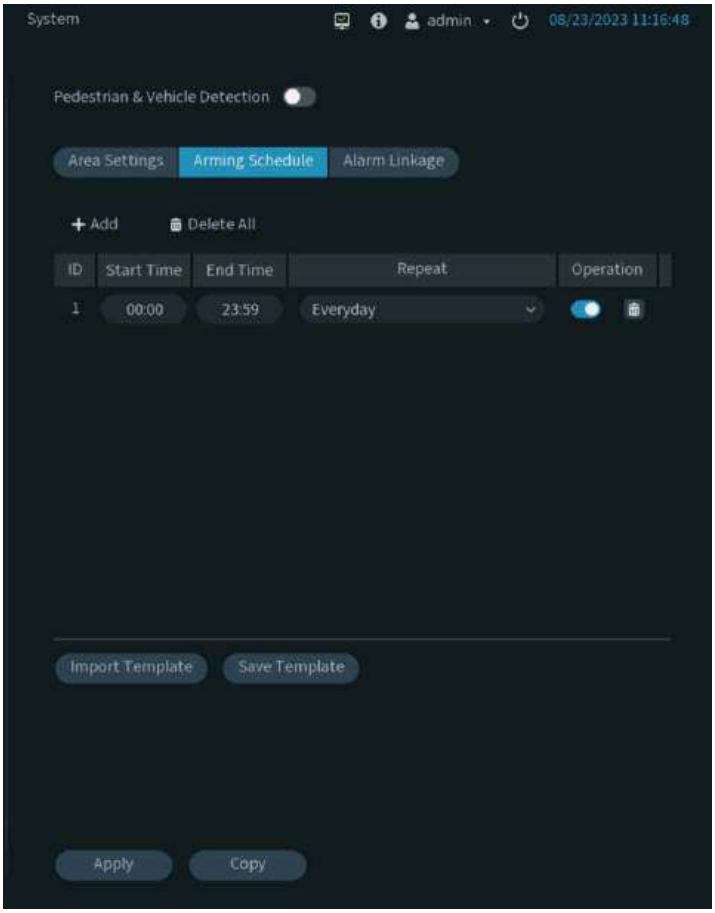
Switch : Enable or disable line motion detection.

Setup Region : By default, the entire screen is marked as a motion detection area (red square). If you want to disable motion detection in a certain area, click the grid cursor and drag the mouse to highlight the area you want to unmark, turning it into a transparent square.

Sensitivity: Adjust the sensitivity level of motion detection. The higher the value, the more sensitive the motion detection.

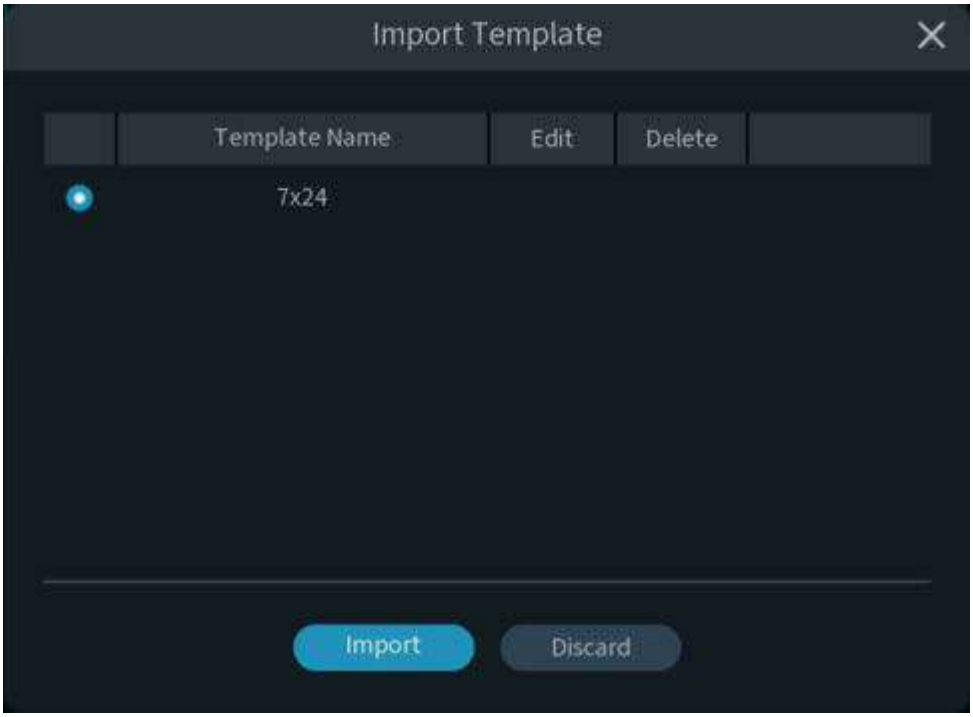
Event: Arming Schedule

To activate event detection, you must create an activation schedule for the event-enabled camera. By default, a 24/7 detection schedule is enabled for each connected camera. Schedules can be changed as needed, and each camera can have a different schedule if desired (up to 8 schedules can be set).

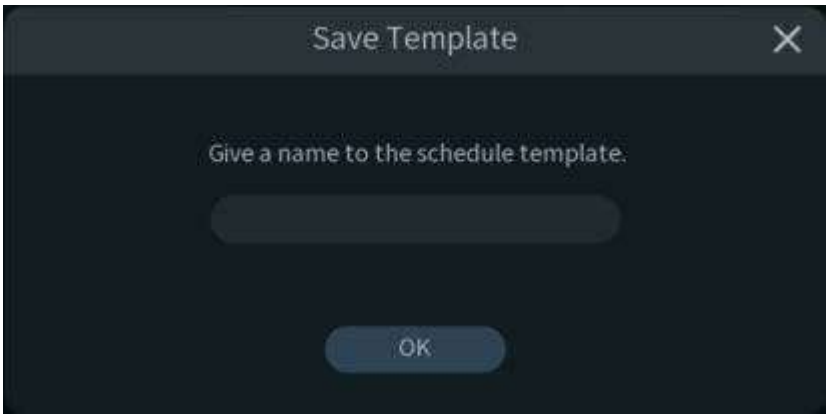


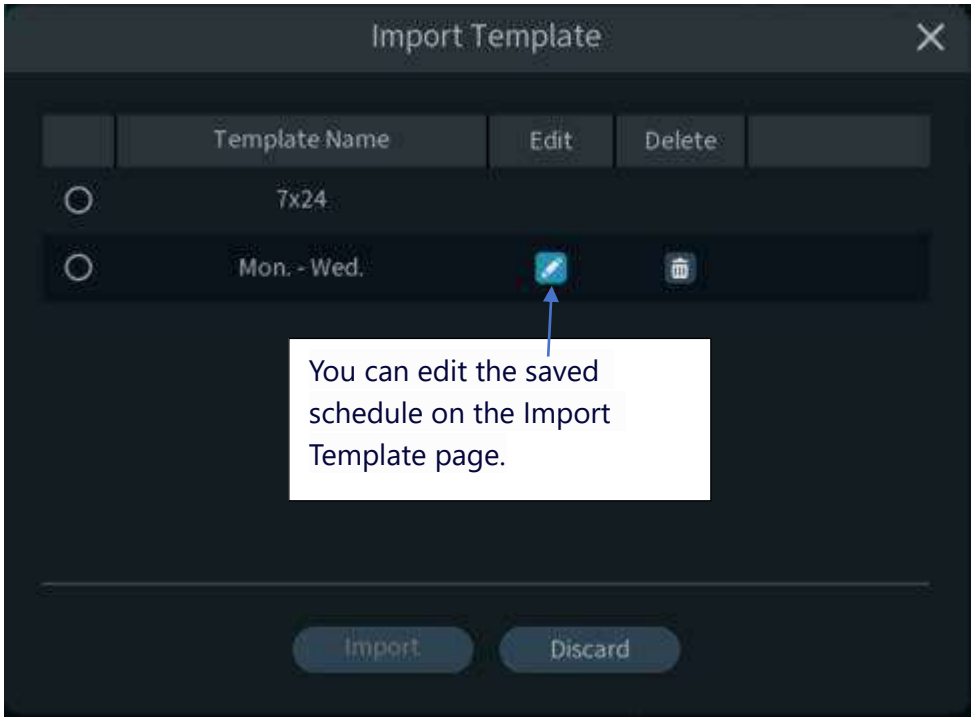
A Add: Add a schedule.
Delete all: Delete all schedules.
Repeat: Set the recurrence time for a schedule.
Operation: Enable or delete a schedule.
Apply: Click "Apply" to save your settings.
Copy: Use the "Copy" function to apply all settings to other connected cameras.

Import Template: button, select the schedule template to import, and then click "Import" to import the schedule.



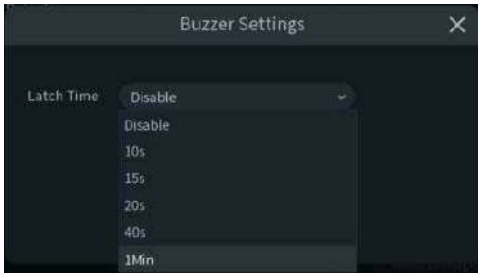
Save Template: Click the "Save Template" button, enter a name, and then click "OK" to save the currently set schedule as a template.





Event: Alarm Linkage

Common Linkage:



Full Screen: Turn on the full screen switch. When an event is detected, the channel will be displayed in full screen on the preview page.
Buzzer: Turn on the buzzer switch and set the buzzer duration to 10 seconds, 15 seconds, 20 seconds, 40 seconds, or 1 minute. The NVR will sound an alarm when an event is detected. If the buzzer switch is turned on but the buzzer duration is set to disabled, the NVR will not sound an alarm when an event is detected.
Send Email: Turn on the "Send Email" switch. When an event is detected, you will receive a system notification via email (assuming the email sending function has been set up).

Alarm Output:

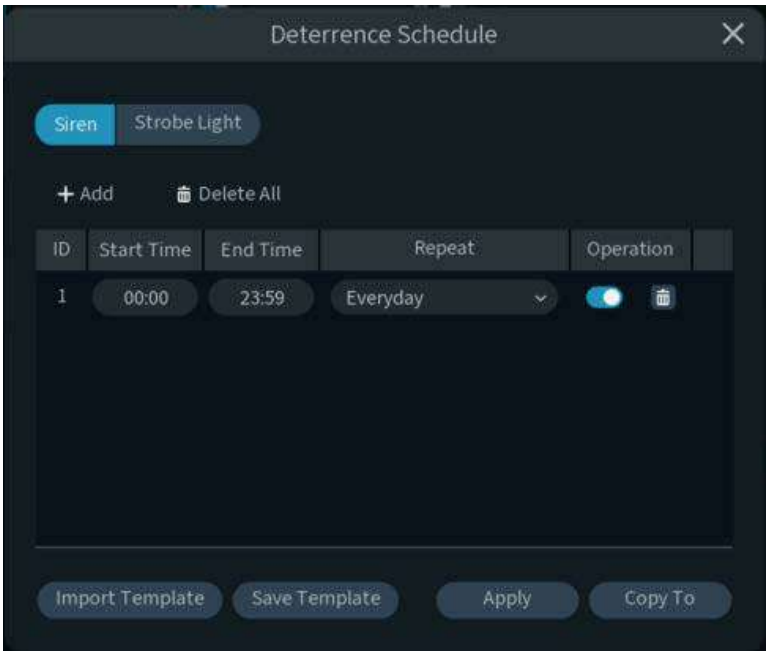
Deterrence Switch: Click the button to enable the deterrence function.

Deterrence Configuration:

Siren: The camera's siren is off by default. If you need the siren, click the button to enable it. Once enabled, you can adjust the siren's value (the higher the value, the brighter the light).
Siren Level: Increase or decrease the volume of the siren.
Siren Mode: Choose a fixed volume or gradually increase the volume.
Siren Duration(s): This allows you to change the length of time the siren remains on when motion is detected.
Strobe Light: Tap the button to enable the feature that flashes red and blue lights when motion is detected.
Lighting Duration: This allows you to change how long the spotlight remains on when motion is detected.
Strobe Light Mode: Click to select a light mode.
Time Interval: This allows you to change the length of the deterrent interval between alarm events.
Apply: Click “Apply” to save the settings.

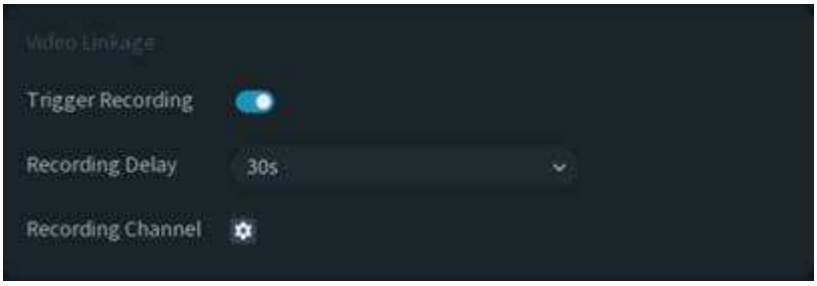
Deterrence Schedule:

Modify the default times for the alarm and flashing lights. The default times for the alarm and flashing lights are all day, but you can modify them if needed. Click "Apply" to save your changes.

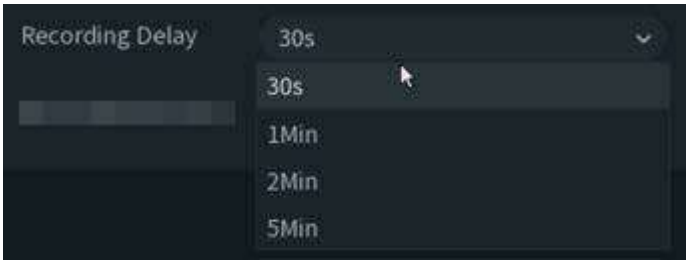


Video Linkage:

Trigger Recording: When an event is detected, the switch can be turned on to continuously record video, and the switch can be turned off to stop recording.



Recording Delay: Set the length of recording time after the event is triggered to achieve delayed recording.



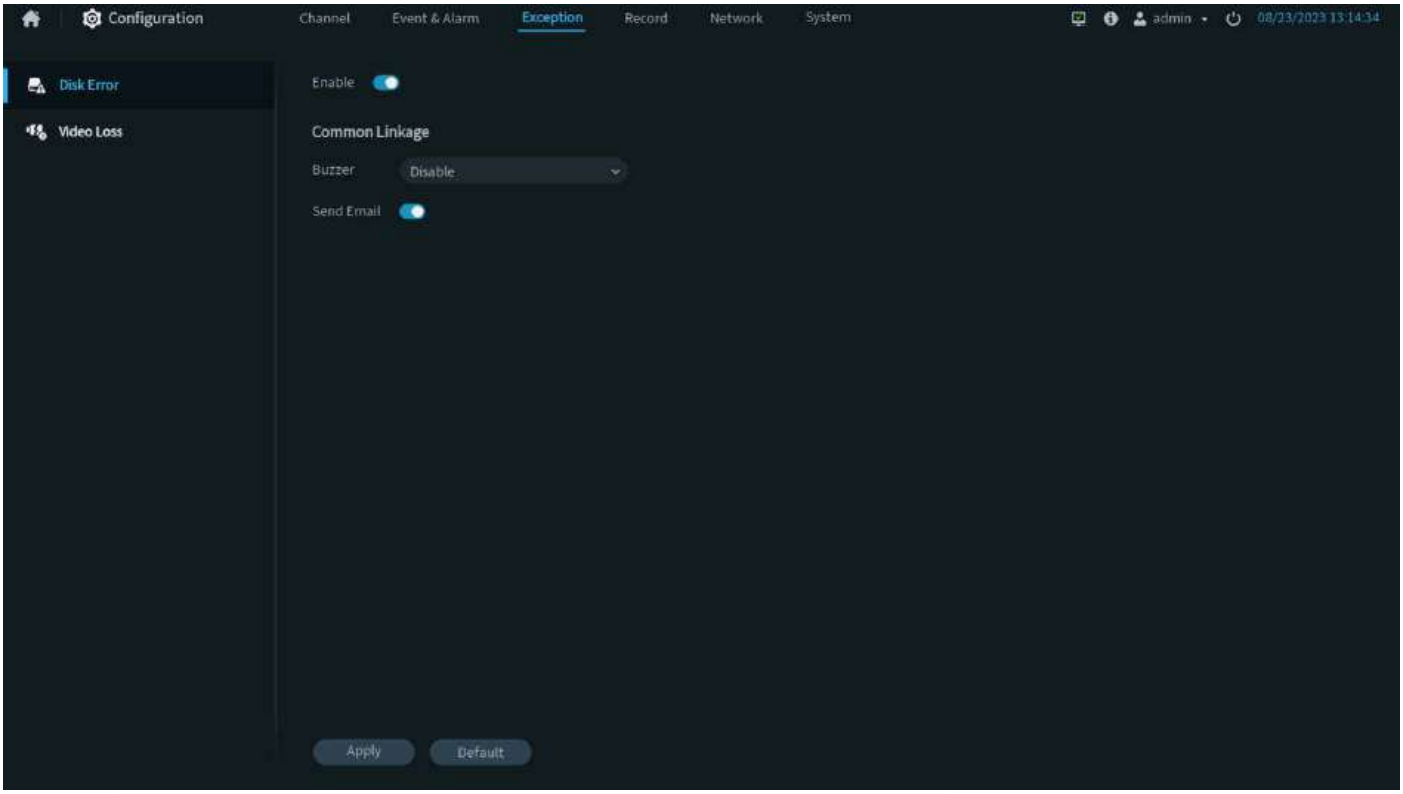
Recording Channel: After the event is triggered, you can set multiple channels to record simultaneously. The default recording channel is the current channel.

Exception

Whenever an event occurs or the NVR exhibits unusual behavior, you can be alerted in a variety of ways, such as receiving an email, displaying a message on the screen, receiving an alert in the Verox 247 app, and activating its internal buzzer. The NVR detects two types of events as anomalies.

Exception: Disk Error

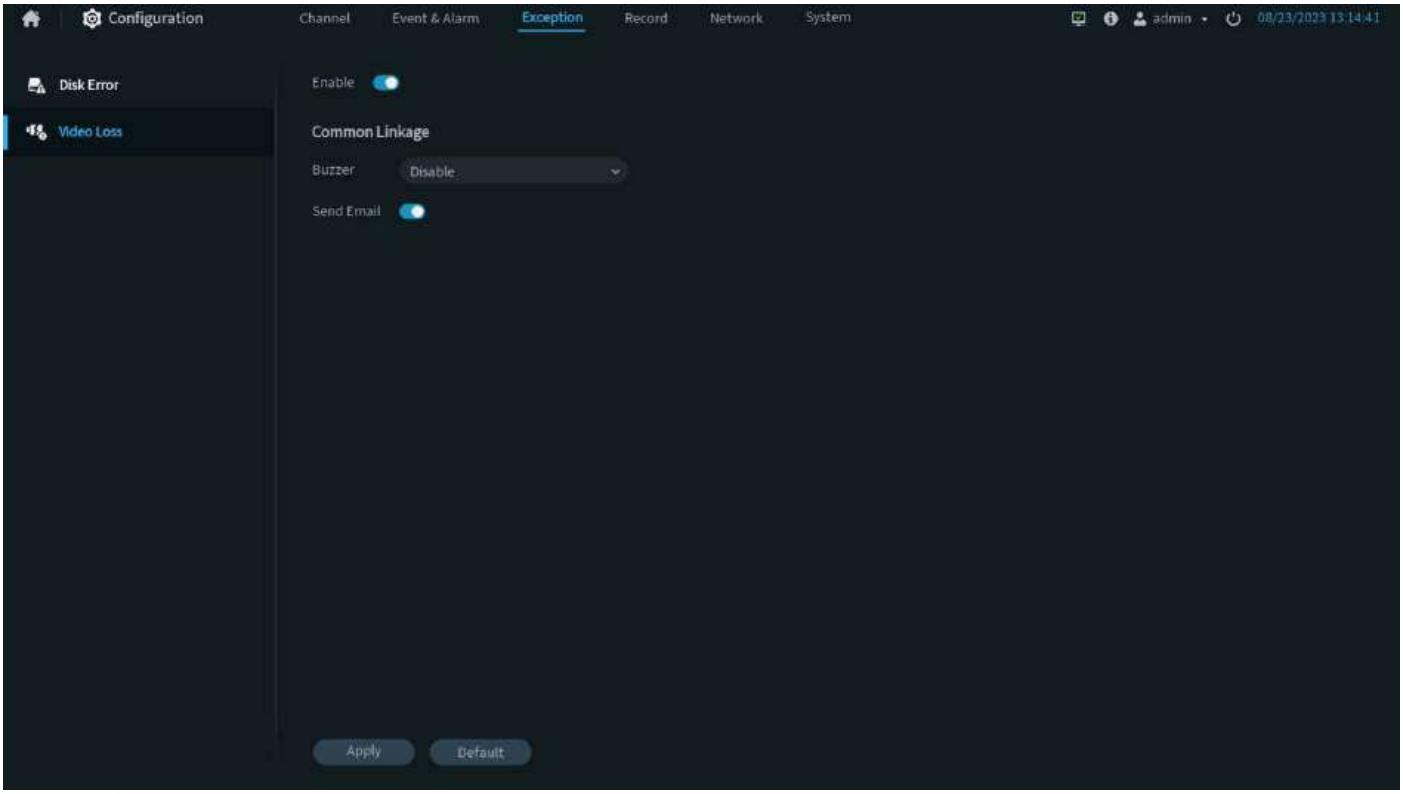
When a disk is damaged or removed, the NVR will sound a buzzer alarm.



Enable : Click this switch if you want to disable alerts for available events.
Buzzer : Click the drop-down menu to select how long the internal buzzer will be activated for available events.
Email : Click this switch if you want to disable email alerts for available events.

Exception: Video Loss

When video is lost, the NVR will sound a buzzer alarm.



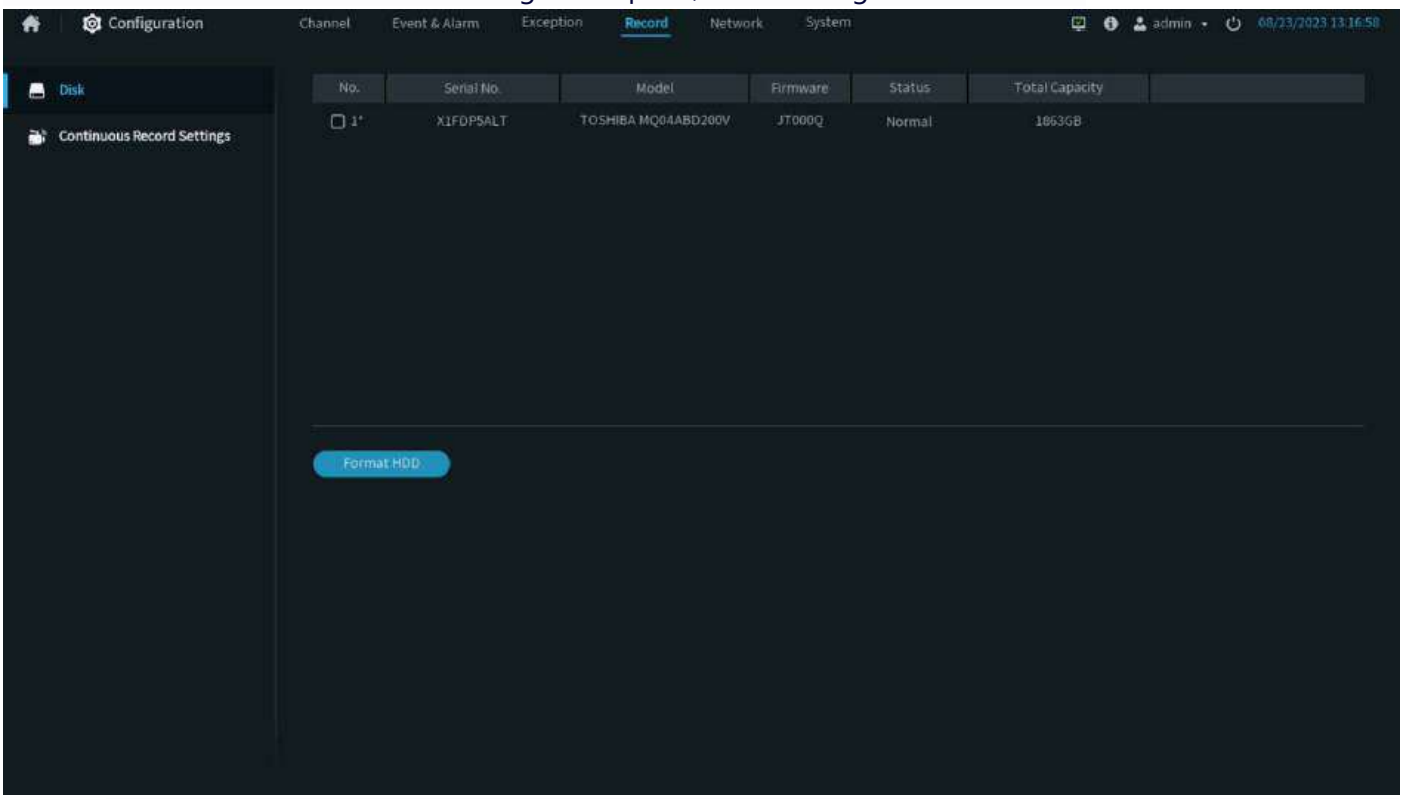
Enable : Click this switch if you want to disable alerts for currently available events.

Buzzer : Click the drop-down menu and select how long the internal buzzer should be activated when triggered by the currently available events.

Email : Click this switch if you want to disable email alerts for currently available events.

Record: Disk

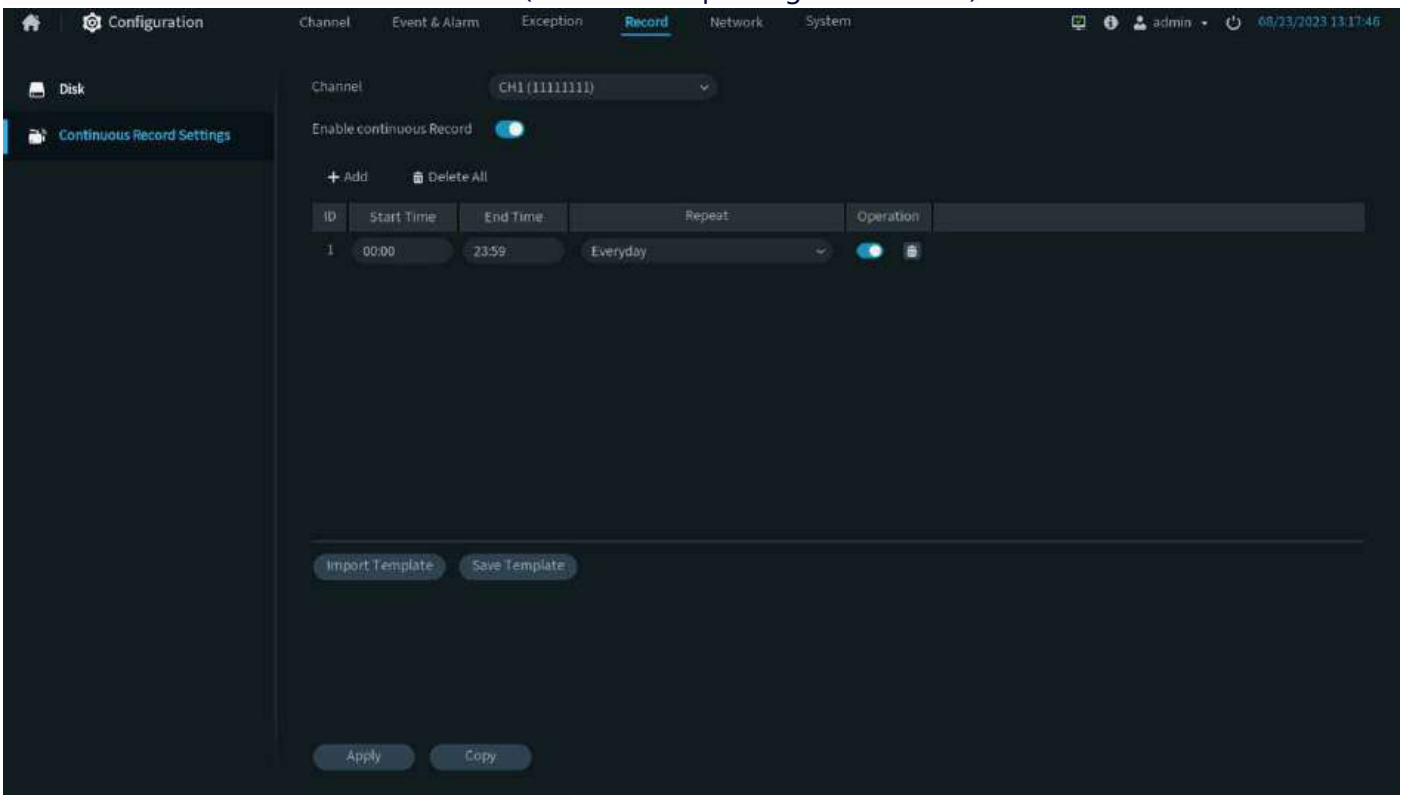
On the Storage page, you can view the status and details of the hard drive. Select the hard drive checkbox and click "Format HDD". Once formatting is complete, all recordings will be deleted.



NOTE : We recommend that you format the hard drive from time to time. This ensures your NVR maintains system integrity. Connect a USB flash drive to copy the events you wish to save. Remember, formatting the hard drive will delete all your recordings.

Record: Continuous Record Settings

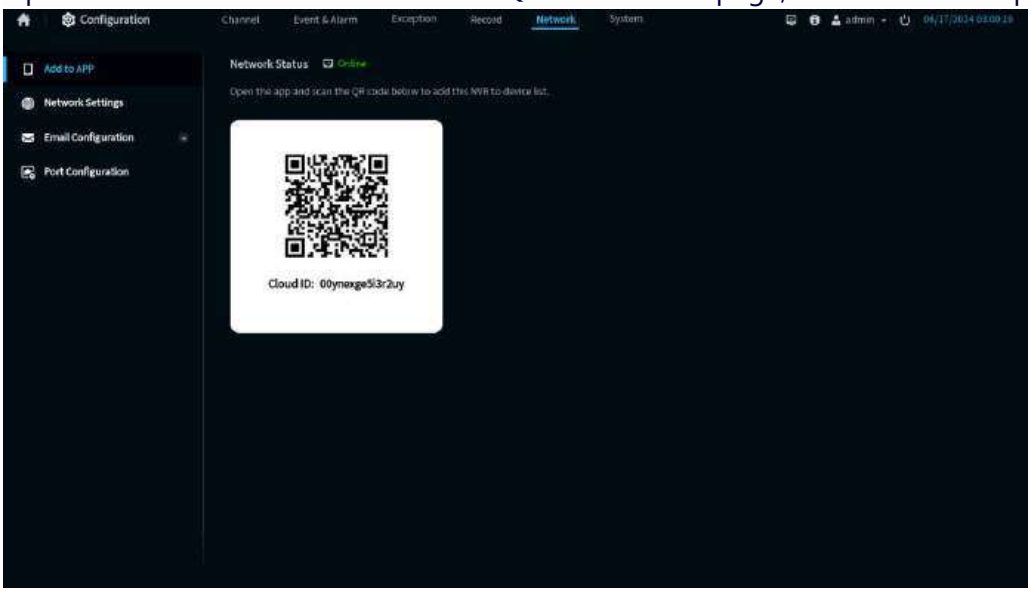
To record video, you must set up a continuous recording schedule for the camera. By default, a 24/7 detection schedule is enabled for each connected camera. You can change the schedule as needed, and each camera can have a different schedule if desired. (You can set up to eight schedules.)



Channel: Select the camera you want to edit
Enable Enable or disable continuous recording
Add: Add a schedule
Delete all: Delete all schedules
Repeat: Set the recurrence time of the schedule
Operation: Enable or delete a schedule
Apply: Click "Apply" to save the settings.
Copy: Use the "Copy" function to apply all settings to other connected cameras.

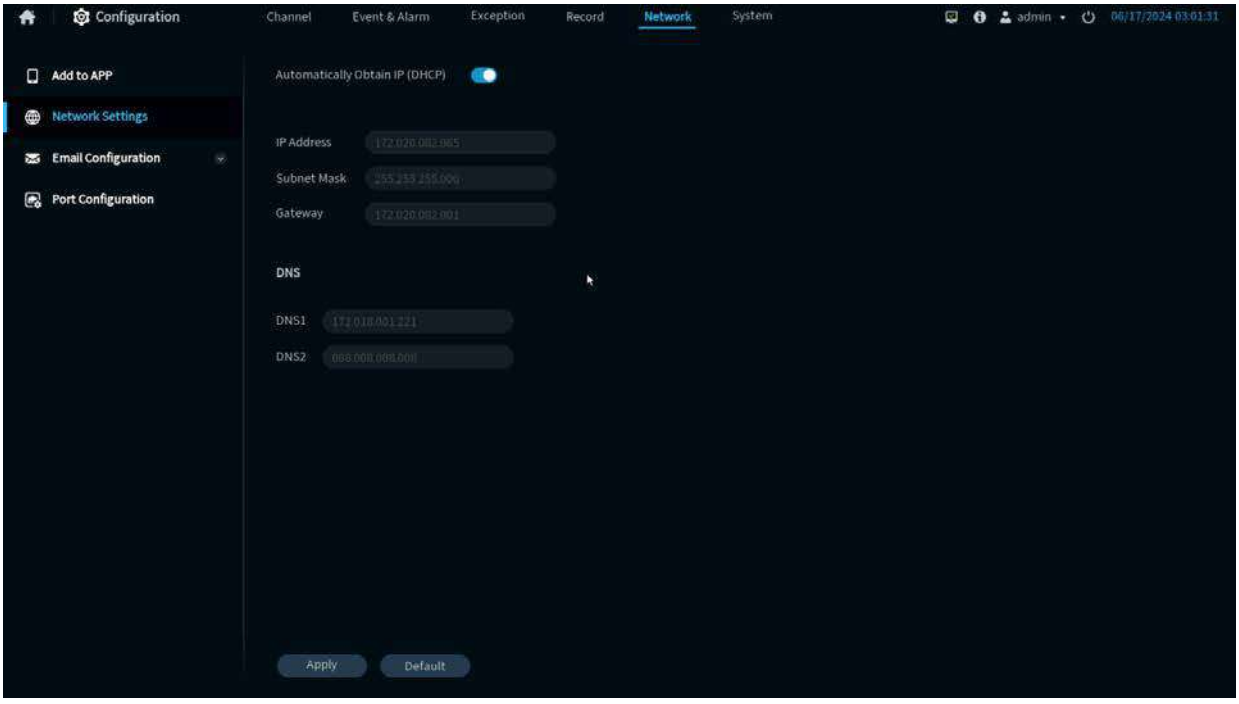
Network: Add to APP

Open the Verox 247 APP and scan the QR code on this page, then follow the app's steps to add your NVR.



Network: Network Settings

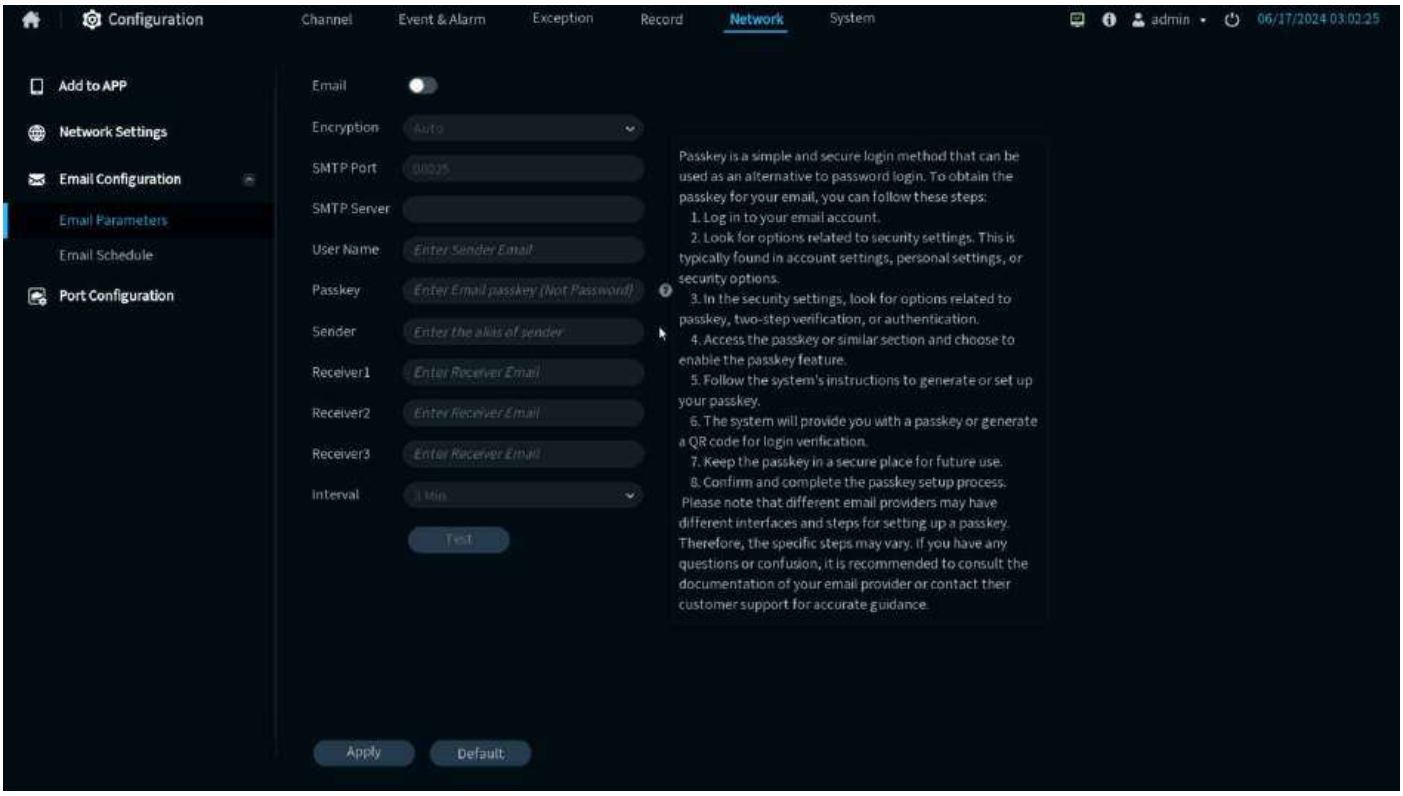
Automatically obtain IP (DHCP): Your router will automatically assign an IP address to each device connected to your network. This is enabled by default and is the recommended connection method.



When disabling DHCP, you can modify the following four options:
IP Address: Every device on the network must have a unique IP address.
Subnet Mask: Allows you to isolate network traffic between hosts based on your network configuration. A typical address might be "255.255.255.0" or similar.
Gateway: This allows your NVR to connect to the internet and is usually at the same IP address as your modem or router.
DNS 1/2: Enter the DNS settings of your Internet service provider.

Network: Email Configuration

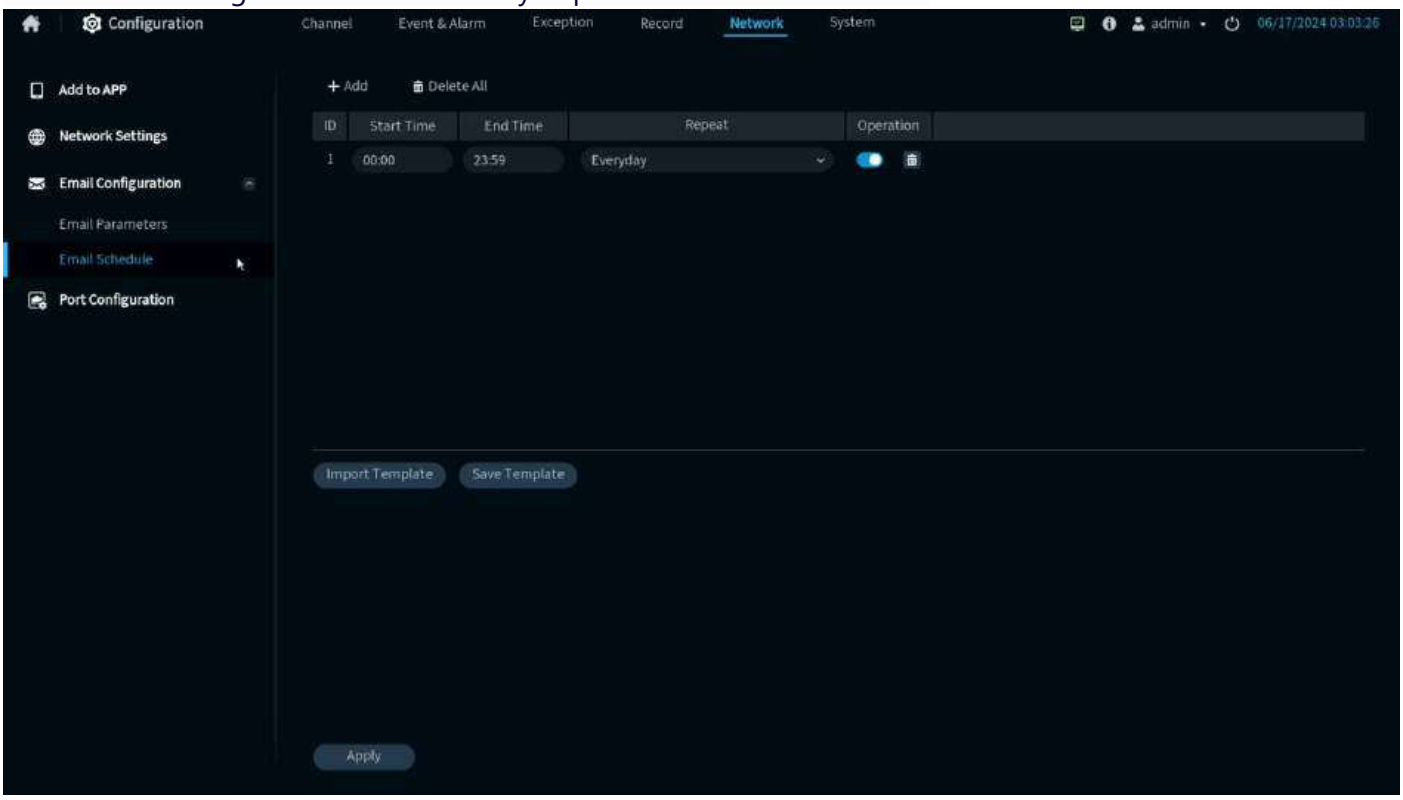
This menu allows you to configure email settings. Complete these settings if you want to receive system notifications via email when an alarm is triggered, the hard drive is full, the hard drive is in an error state, or video loss occurs.



Email: Click to enable.
Encryption: If your email server requires SSL or TLS authentication, enable it. If unsure, set it to "Auto".
SMTP Port: Enter the SMTP port of your email server. For example, "00587".
SMTP Server: Enter the SMTP server address of your email. For example, "mail.iinet.net.au".
User Name: Enter your email address.
Passkey: Enter your email's SMTP authorization code. Click the "Show Password" icon to show or hide your password.
Sender: Enter your email account name, for example: MY NVR.
Receiver1/2/3: Enter the email address where you want to receive event notifications from the NVR.
Interval: Configure the time interval between NVR sending notification emails.
Test: After confirming that the information is correct, click "OK". If the test is successful, you will receive a message to your email.

Network: Email Schedule

You need to configure a schedule to fully implement email notifications.



Add: Add a schedule

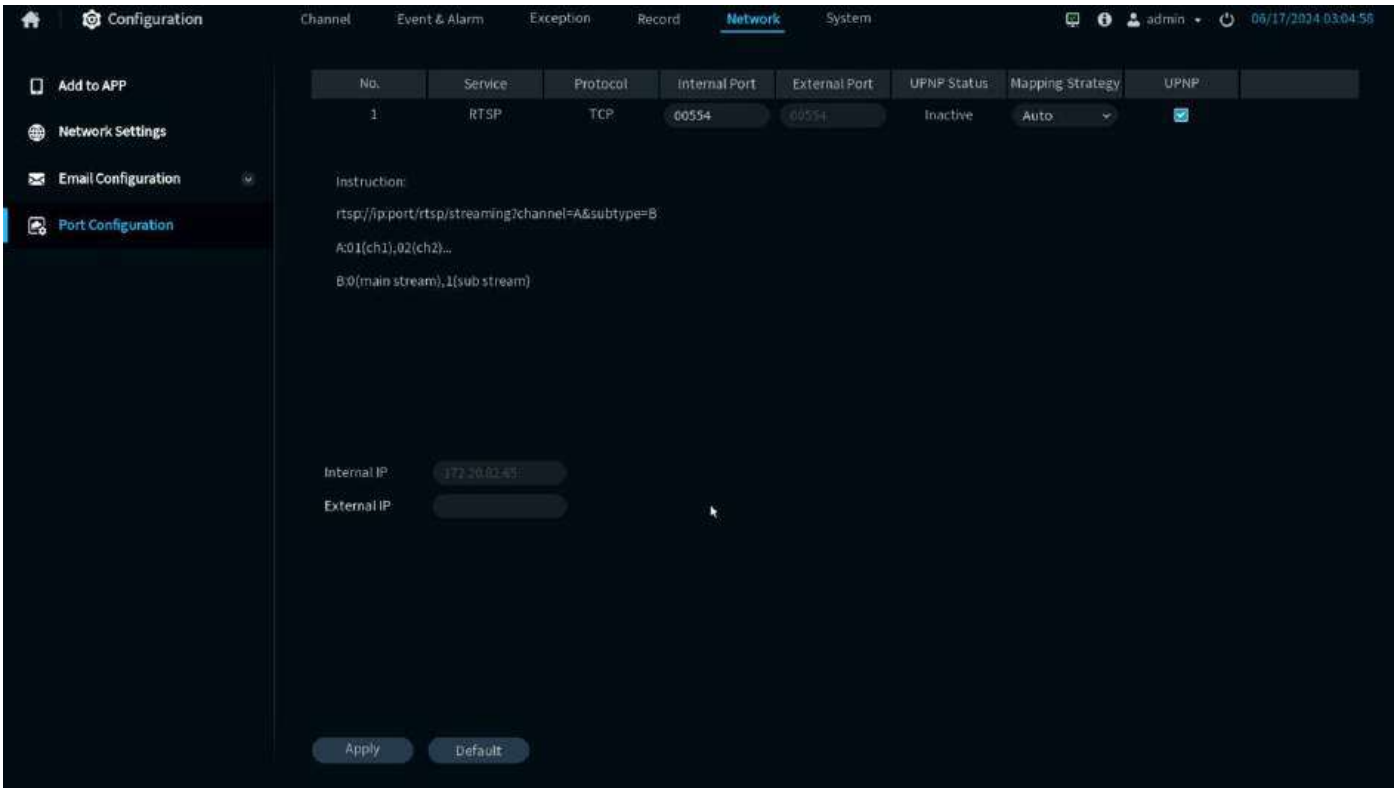
Delete all: Delete all schedules

Repeat: Set the recurrence time of the schedule

Operation: Enable or delete a schedule

Apply: Click "Apply" to save the settings.

Network: Port Configuration



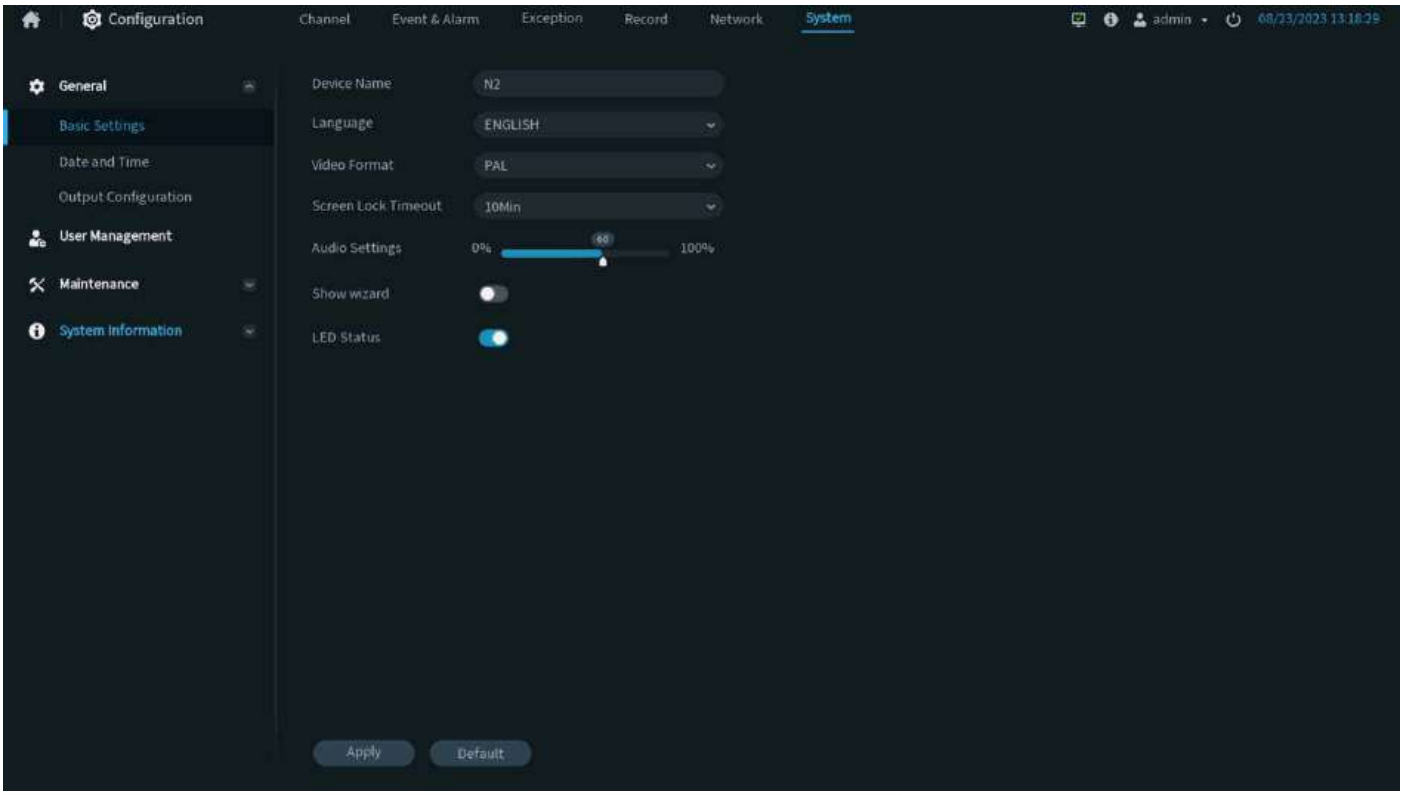
http/https/ rtsp : Set the port for accessing the device via http/https/ rtsp protocol

UPNP (Universal Plug and Play) : UPNP (Universal Plug and Play) enables UPNP's NAT translation rules, implementing automatic port forwarding, allowing external computers to access internal network devices and ensuring efficient network operation. UPNP requires a supported router. Before setting up UPNP, please configure your router and set the internal IP address, subnet mask, and gateway address in the basic network settings to match the router's settings.

Mapping Strategy : If the mapping type is "Manual", the user can edit and set the external port (the port on the router); if it is automatic, an external port (different from the internal port) will be randomly mapped.

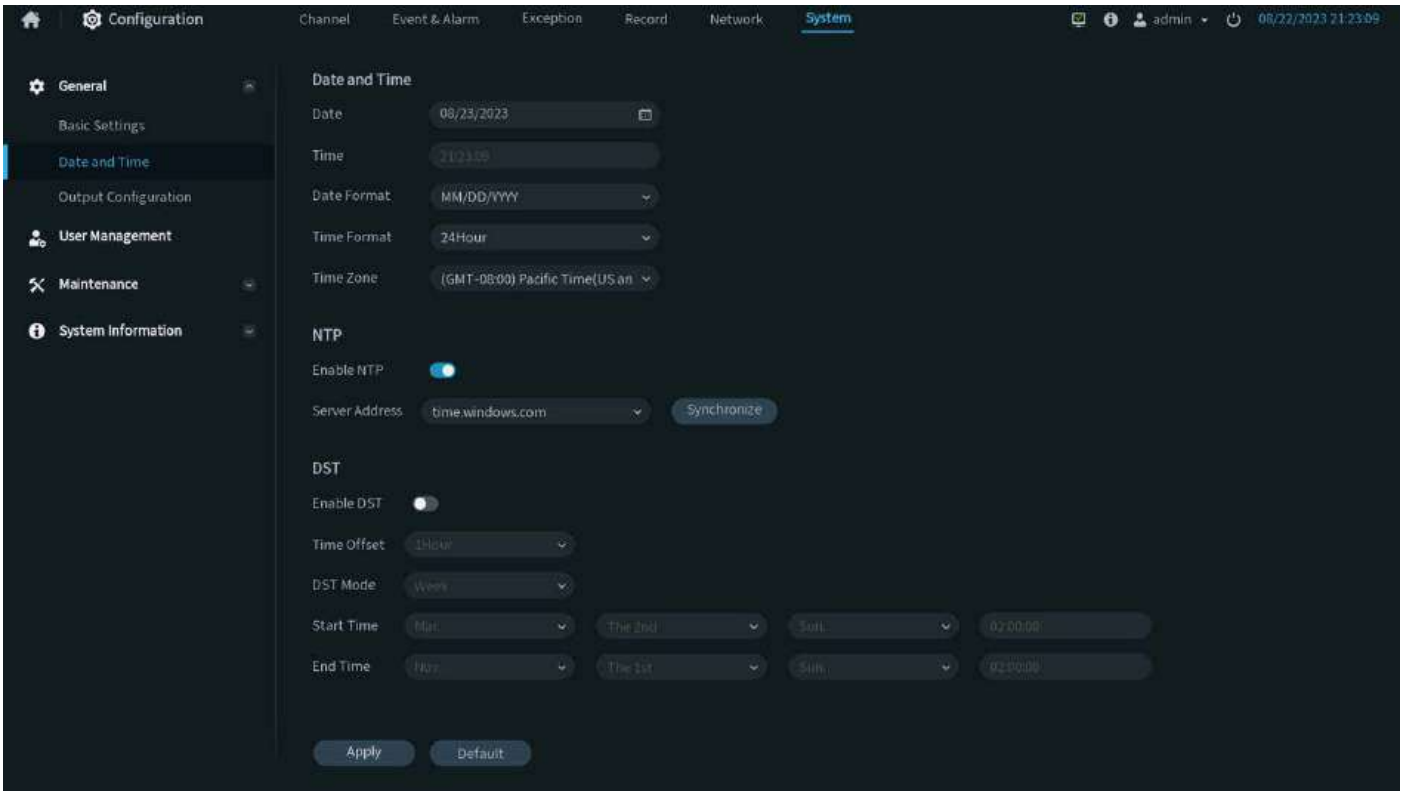
External IP: The device's external network exit IP

System: Basic Settings



Device Name: Click in the dialog box to rename your NVR (if desired).
Language: Select the language you want the system menu to display in. Multiple languages are available.
Video Format: Select the correct video standard for your country. NTSC for the United States and Canada. PAL for the United Kingdom, Australia, and New Zealand. Screen Lock Timeout: Click the drop-down menu to select the time after which the NVR will exit the main menu when idle. You can also disable this feature by selecting "Off" (password protection will be temporarily disabled).
Audio Settings: Click and drag the slider to set the system volume of the NVR.
Show Wizard: Turn on this switch if you want to display the Startup Wizard every time you turn on or restart the NVR.
LED Status: Enable or disable the NVR's LED status.

System: Date and Time



Date and Time

If the date, time, and time zone are incorrect, click the relevant boxes and drop-down menus to make changes.

NTP Settings

The NTP (Network Time Protocol) feature enables your NVR to automatically synchronize its clock with a time server. This ensures date and time accuracy and ensures that events are correctly time-stamped when they occur.

1. Click the "Sync" button to automatically synchronize your NVR's internal clock with the time server immediately.
2. A message will appear on the screen indicating that the time has been successfully updated. Click "OK" to continue.

DST Settings

Enable DST : If your time zone or region uses daylight saving time, click the drop-down menu to enable it.

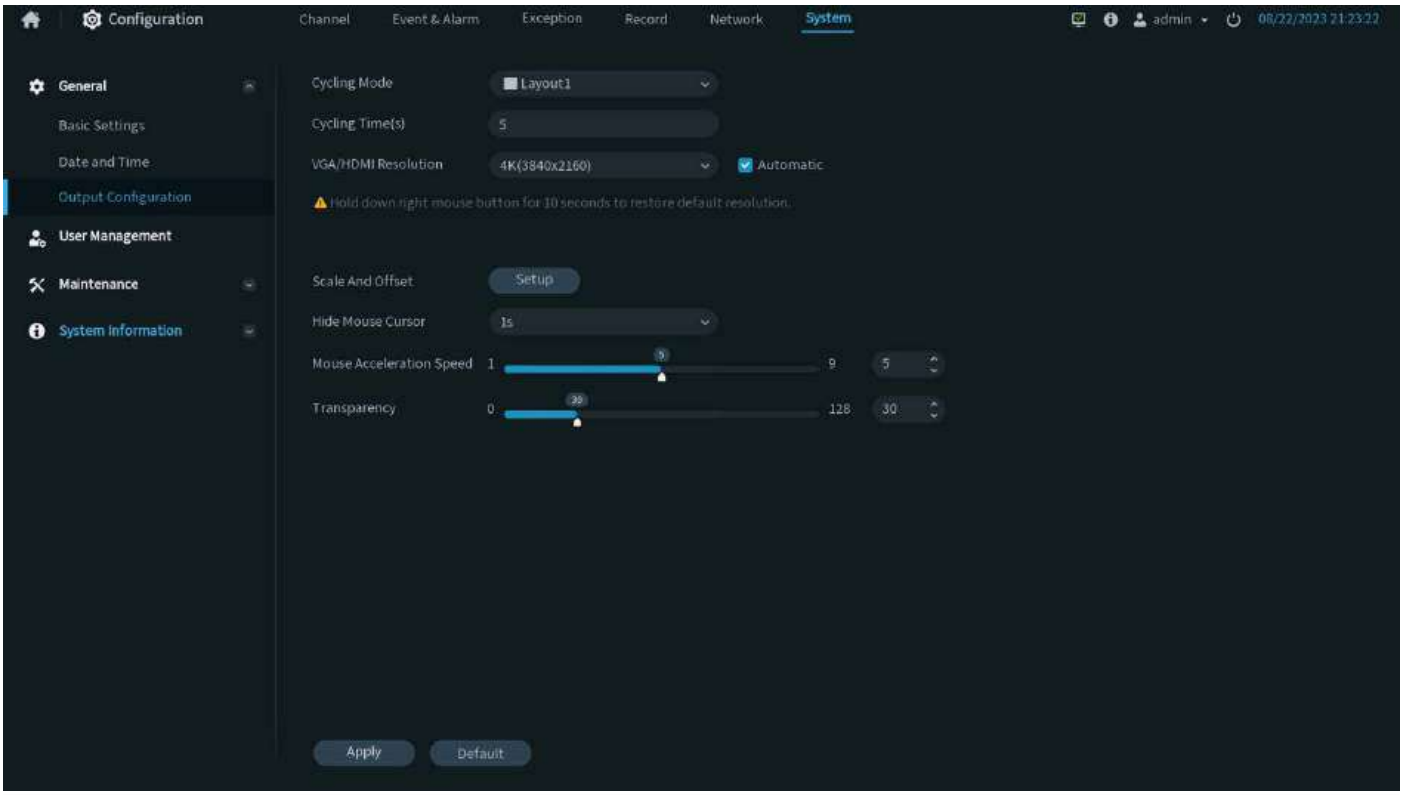
Time Offset : Select the amount of time that daylight saving time adds to your time zone. This is the difference in minutes between Coordinated Universal Time (UTC) and your local time.

DST Mode : You can choose how daylight saving time starts and ends

Week : Select a month, specific date, and time for daylight saving time to start and end. For example, the first Sunday of a month at 2:00 AM.

Date: Select the start date (click the calendar icon), end date, and time for Daylight Saving Time to begin and end.

System: Output Configuration



Cycling Mode: Select the number of video channels your NVR will display in sequential mode. You can choose to display one or four cameras at a time.

Cycling Time (seconds): Enter the maximum length of time (300 seconds maximum) that you want the current video channel to be displayed before the next video channel is displayed in sequential mode.

VGA/HDMI Resolution: Select the display resolution that suits your TV . Check the "Auto" checkbox and the system will automatically adjust the resolution.

Scale and Offset: Set the image scale and offset. Click the "Set" button to configure.

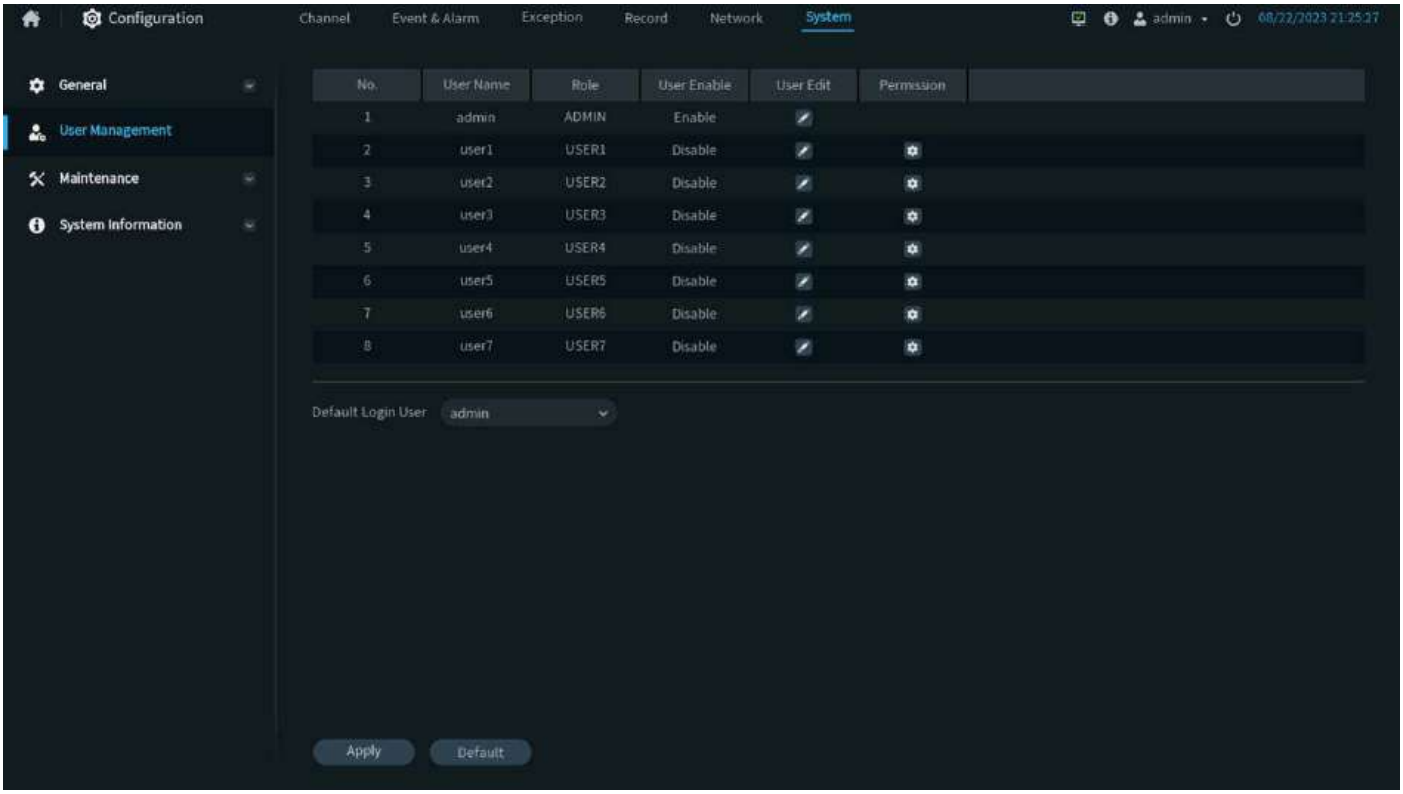
Hide Mouse Cursor: Set how long the mouse cursor will be hidden when there is no mouse operation.

Mouse Acceleration Speed: Set the mouse movement sensitivity.

Transparency: Click and drag the slider left or right to change the transparency of the menu bar and main menu on the screen. Adjust as needed.

System: User Management

This menu allows you to configure username, password, and user permissions.



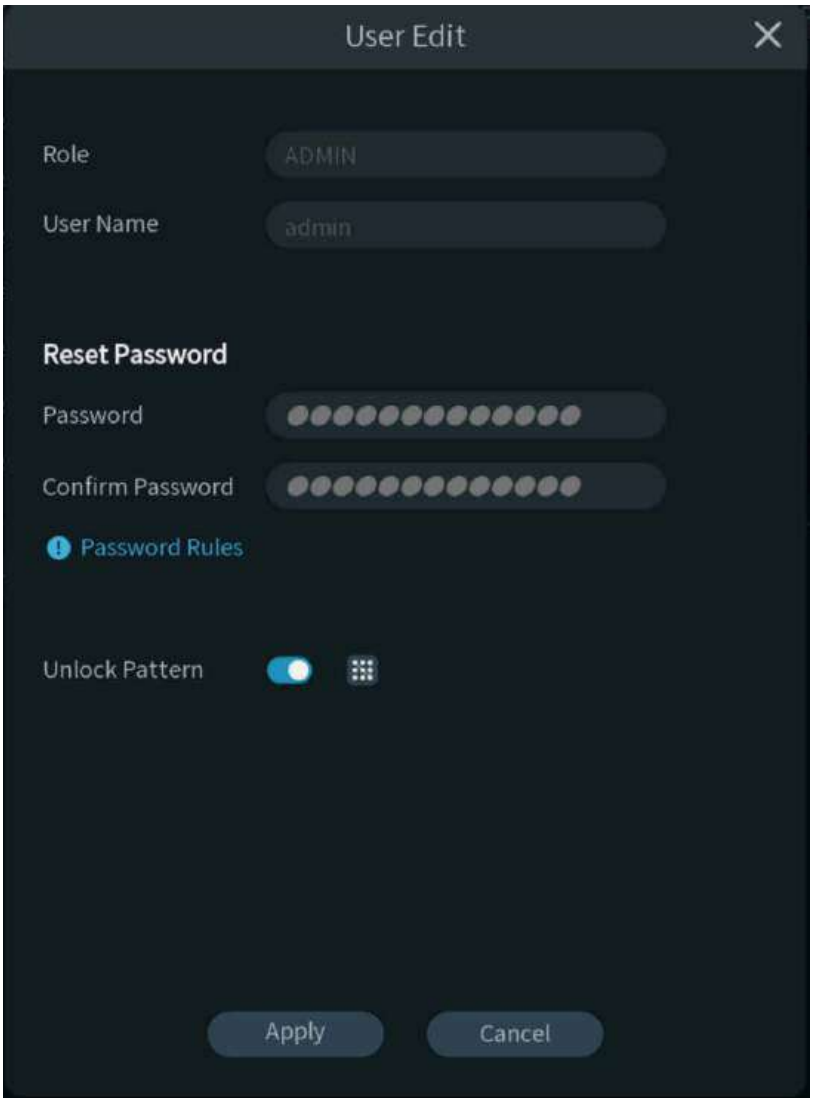
The system supports the following account types:

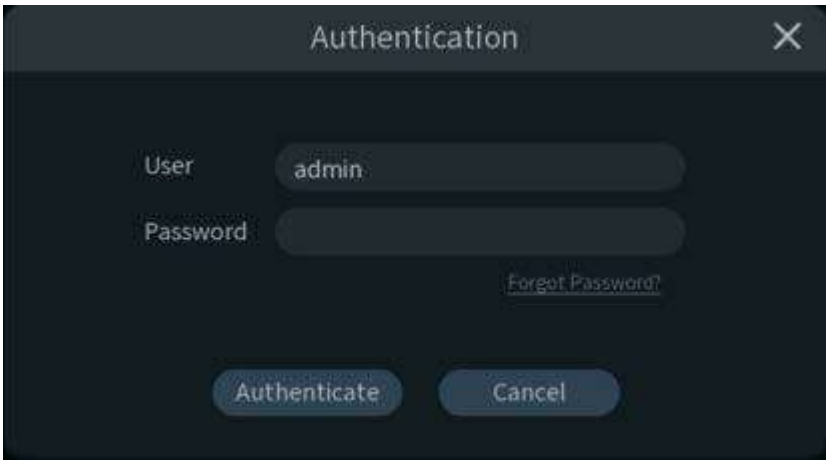
• ADMIN — System Administrator: The administrator has full control over the system and can change administrator and user passwords, and enable/disable password protection.

• USER — Regular user: The user has access rights only to live viewing, search, playback, and other functions. You can set up multiple user accounts and set different system access levels for each account.

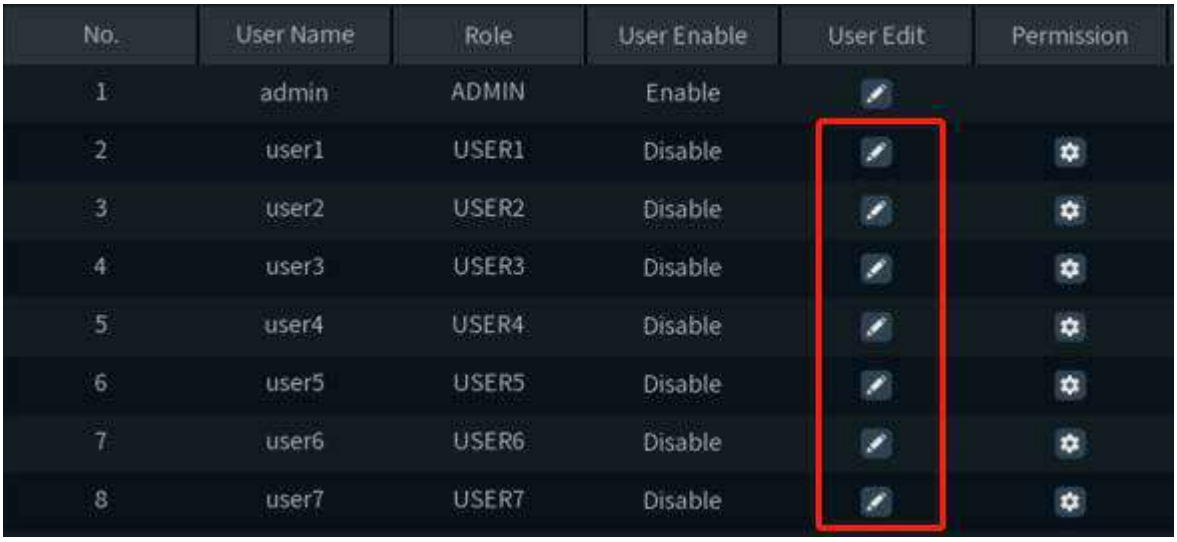
Change Password

To change the password for the administrator or user account, click the User Edit icon. Passwords must be at least 8 characters long and can contain a mix of numbers, letters, and special characters. Enter your new password again to confirm, then click Save to save your new password. You will be asked to enter the ADMIN password for authentication.

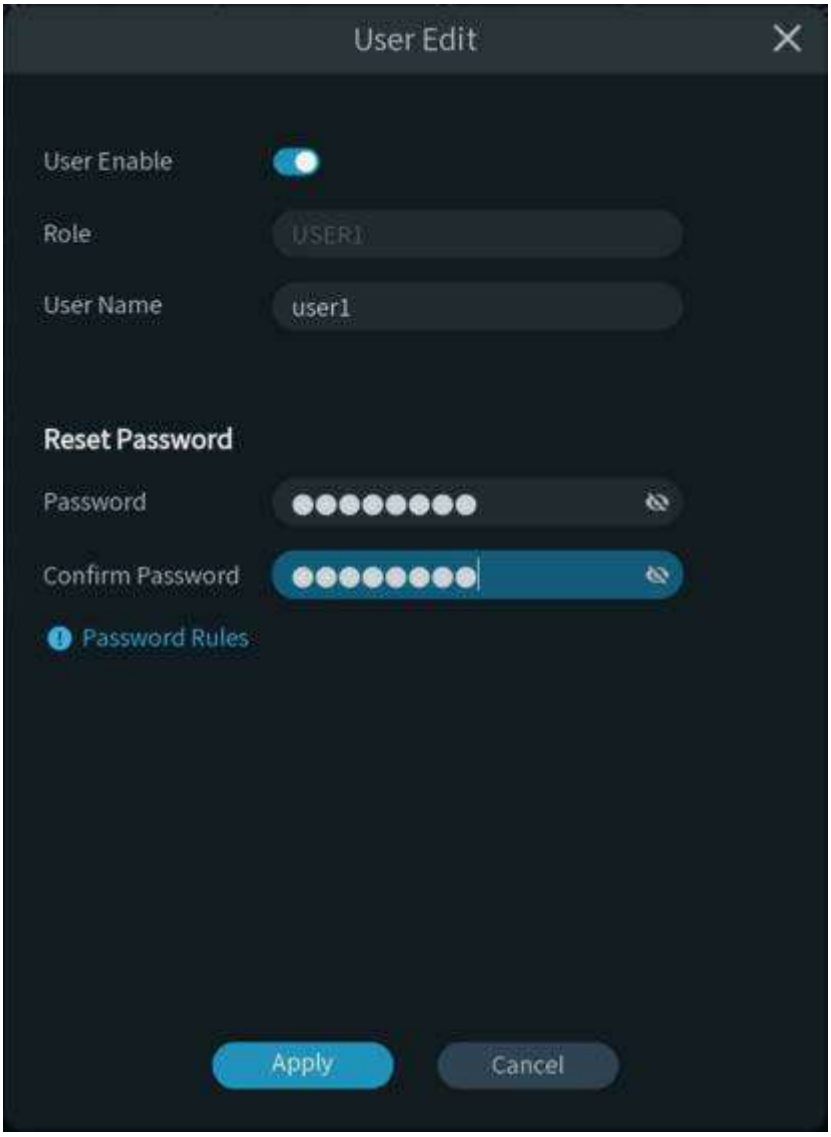




Add New Users:



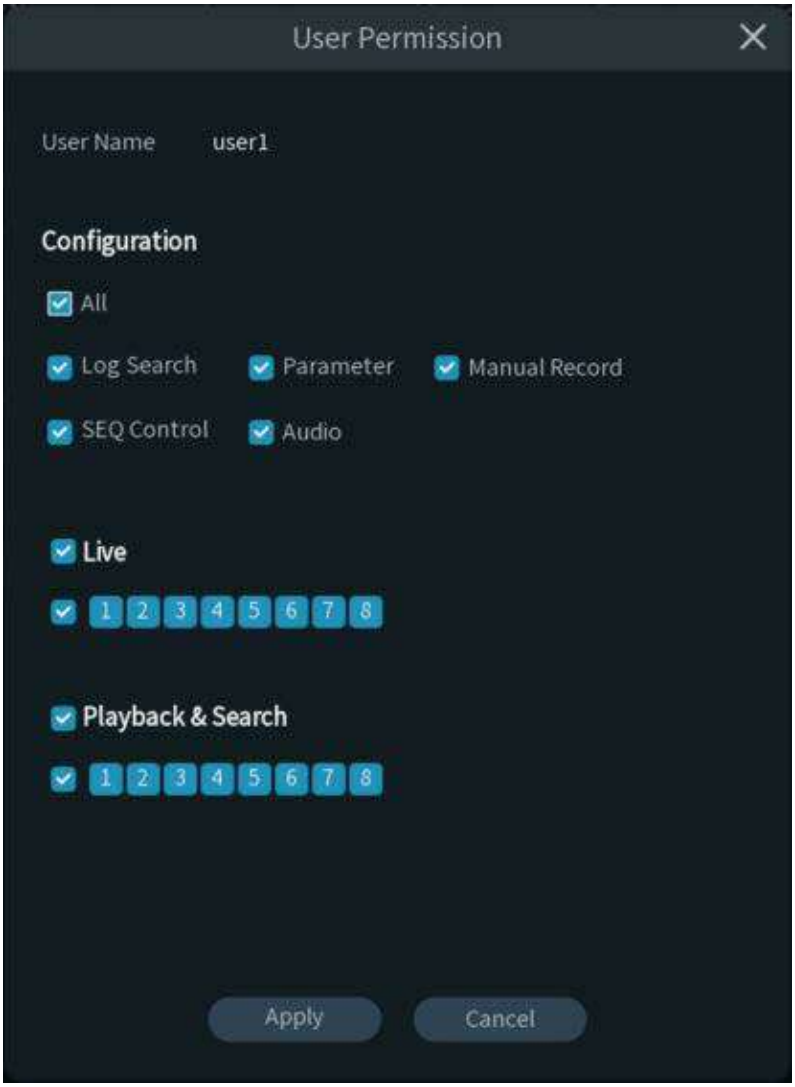
No.	User Name	Role	User Enable	User Edit	Permission
1	admin	ADMIN	Enable		
2	user1	USER1	Disable		
3	user2	USER2	Disable		
4	user3	USER3	Disable		
5	user4	USER4	Disable		
6	user5	USER5	Disable		
7	user6	USER6	Disable		
8	user7	USER7	Disable		



1. Select one of the currently disabled user accounts and click the User Edit icon.
2. Next to "User enabled," enable the switch.
3. Click the field next to "Username" to change the username for that account.
4. Click the field next to "Password" to enter your desired password.
5. Click the field next to "Confirm Password" to re-enter your password.
6. Click Apply. You will be asked to enter your Admin password for authentication.

Settings User Permissions:

The Administrator account is the only account that has full control over all system functions. You can enable or disable access to certain menus and functions for each user account.



1. Click the Edit icon under the "Permissions" tab.
2. Select the checkbox next to any system menus or features you want users to have access to. Click "All" to select all the checkboxes.
3. Click "Apply" to save your changes.

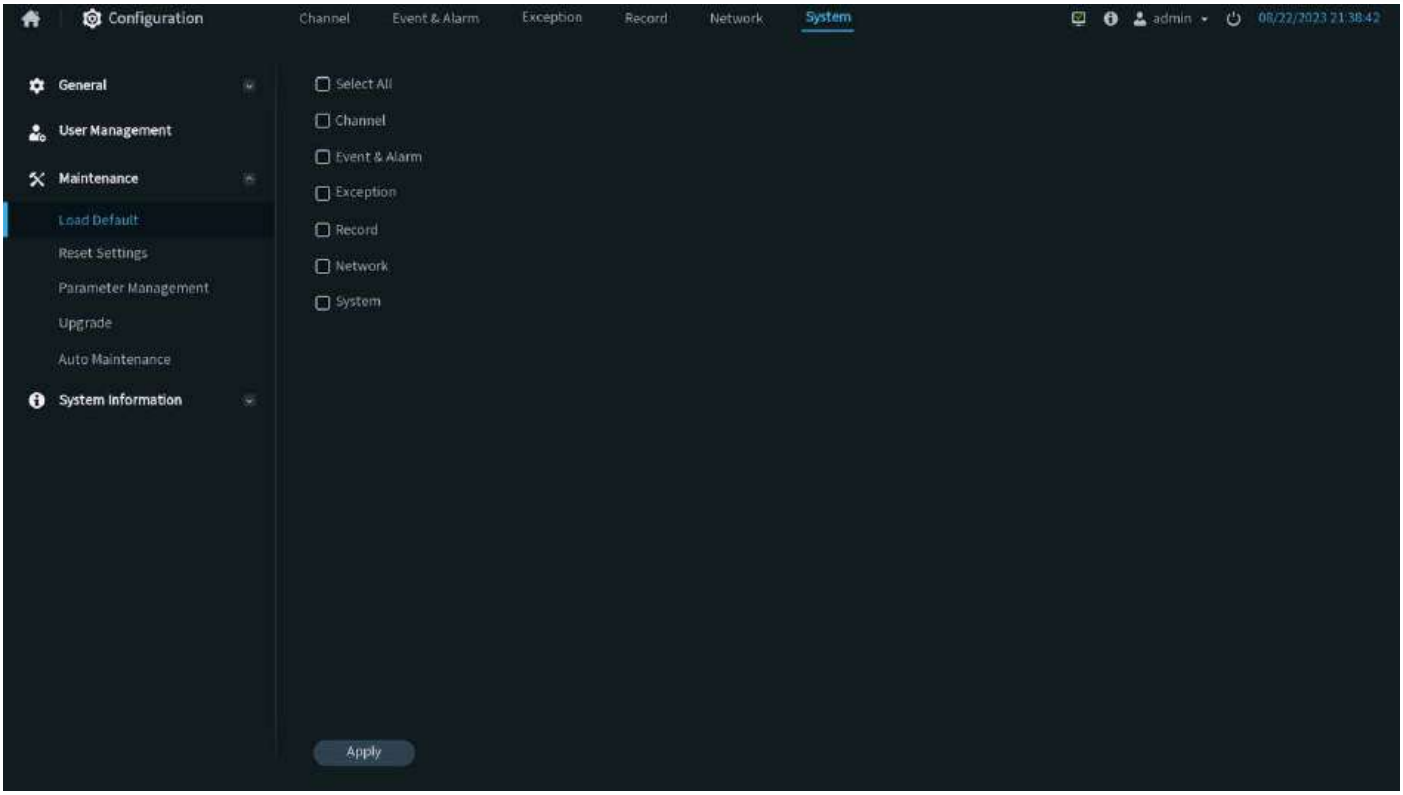
System: Maintenance

In this section, you will be able to load default settings, upgrade the system, export and import system parameters, and manage automatic reboot of the system.

Load Default:

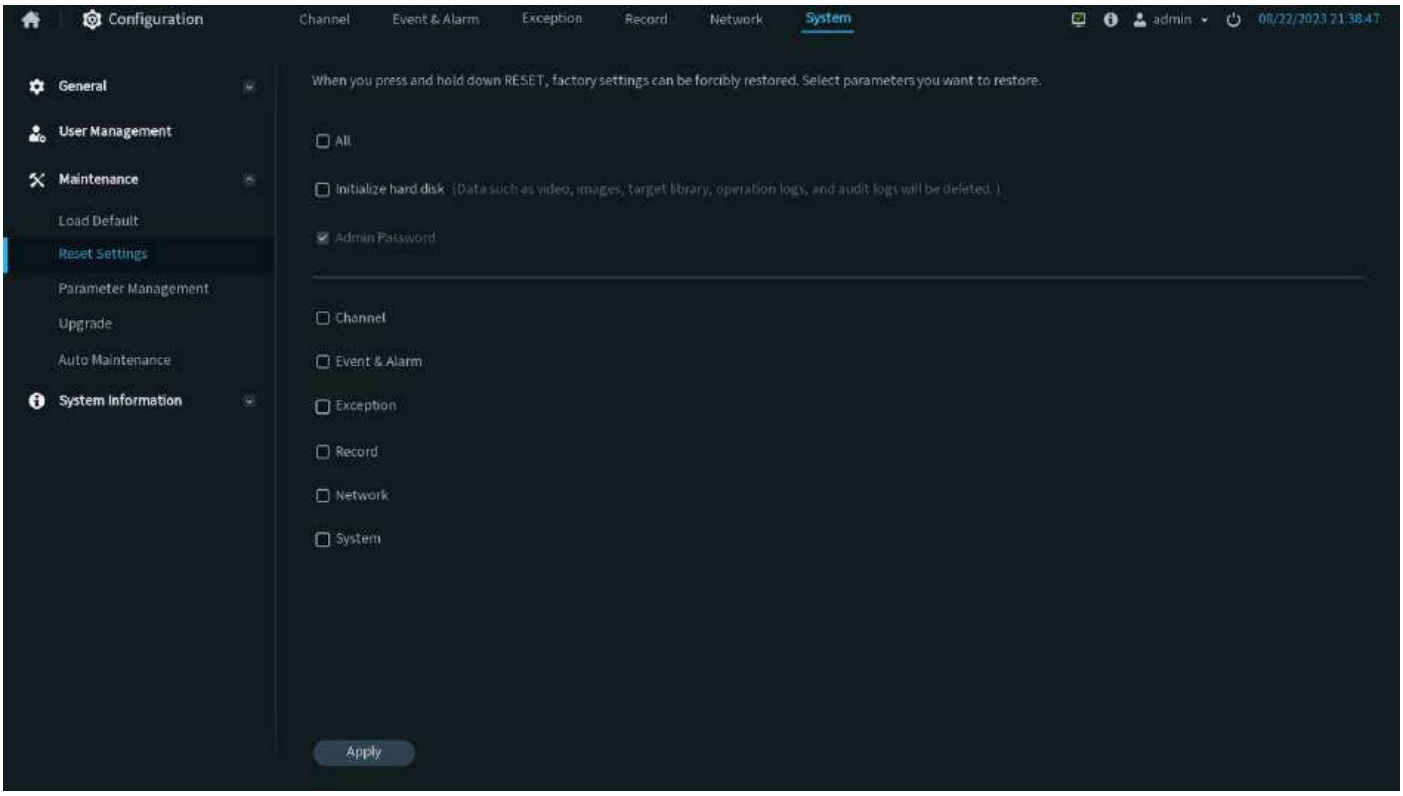
Reset the NVR settings to their factory defaults. You can choose to reset all settings at once, or reset only the settings for a specific menu. Restoring default settings will not delete the recordings saved on the hard drive.

Check the items you want to restore, or check "Select All" to select all items. Click "Apply" to load the default settings for the items you selected.



Reset Settings:

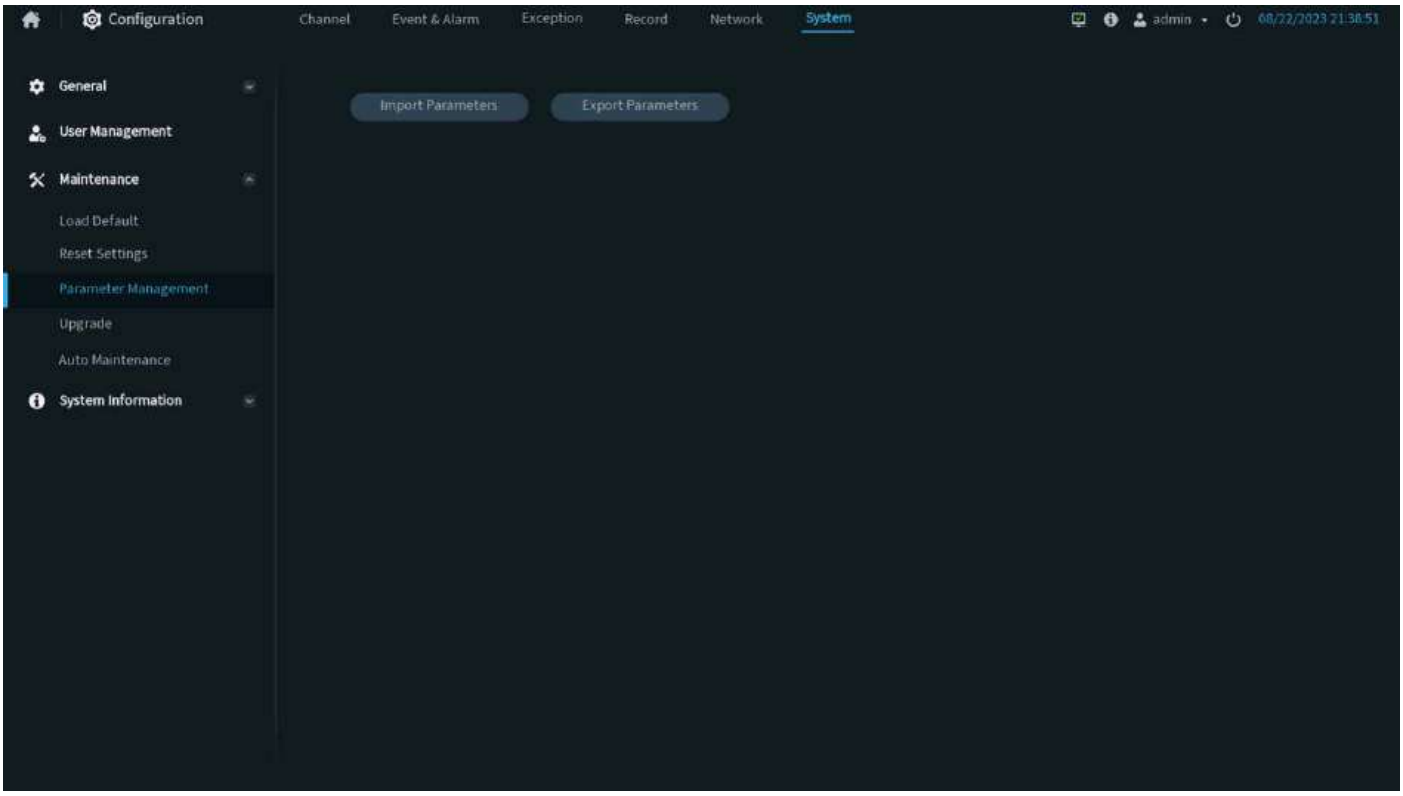
When you long press the RESET button on the NVR, you can force a factory reset. Select the parameters you want to restore. You can choose to reset all settings at once, or only reset the settings of a specific menu.



NOTE: If you choose to initialize the hard disk, data such as videos, images, target libraries, operation logs, and audit logs will be deleted.

Parameter Management:

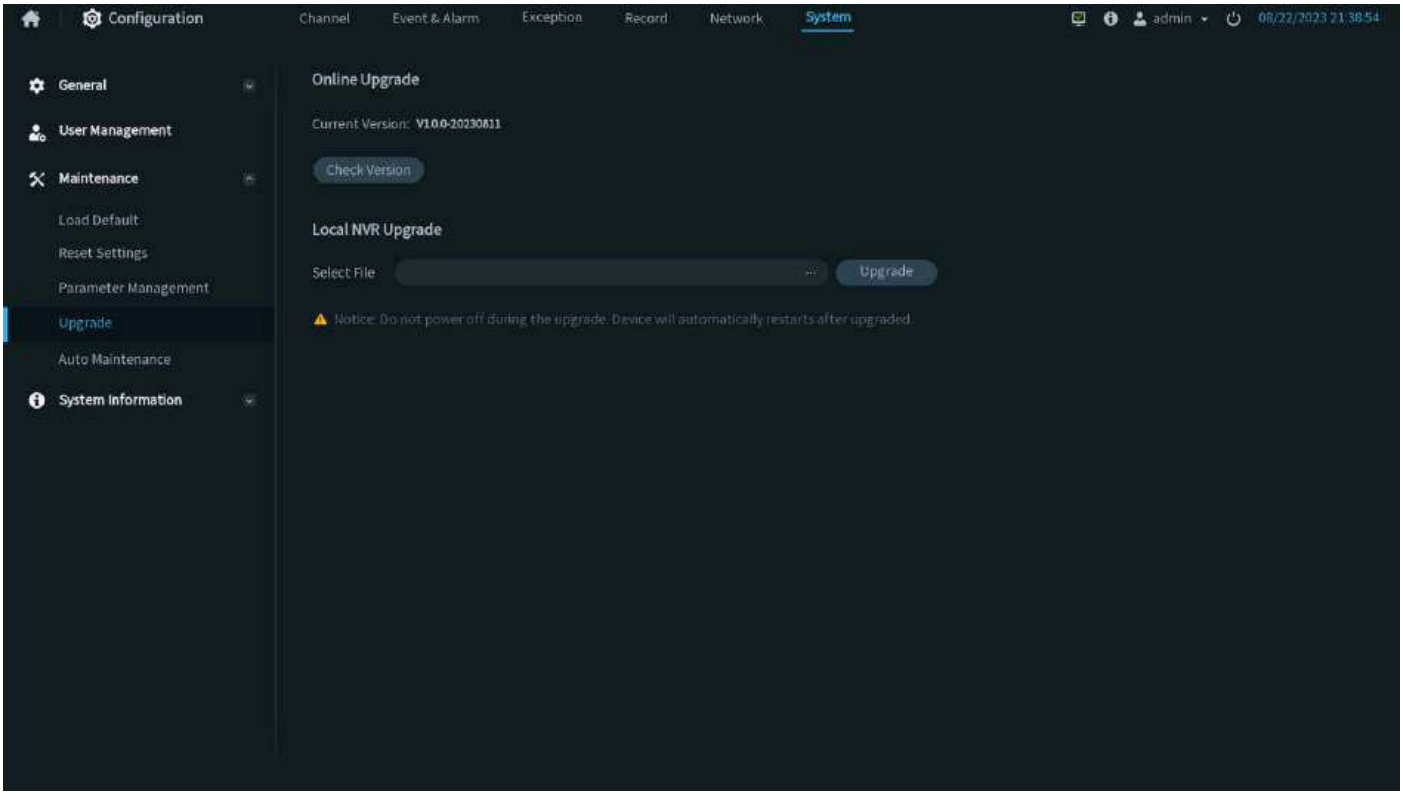
You can export the configured main menu settings to a USB flash drive, or import the exported settings file from a USB flash drive to the NVR.



Export Parameters：Click to save the NVR's current system settings to a USB device. You will need to enter the Admin password for authentication.

Import Parameters: Once you have created an export file of your system settings, you can import those settings on another NVR. Click the "Import Parameters" button and navigate to the system settings file you wish to import from the USB flash drive. You will be required to enter the Admin password for authentication.

Upgrade :



Online Upgrade :

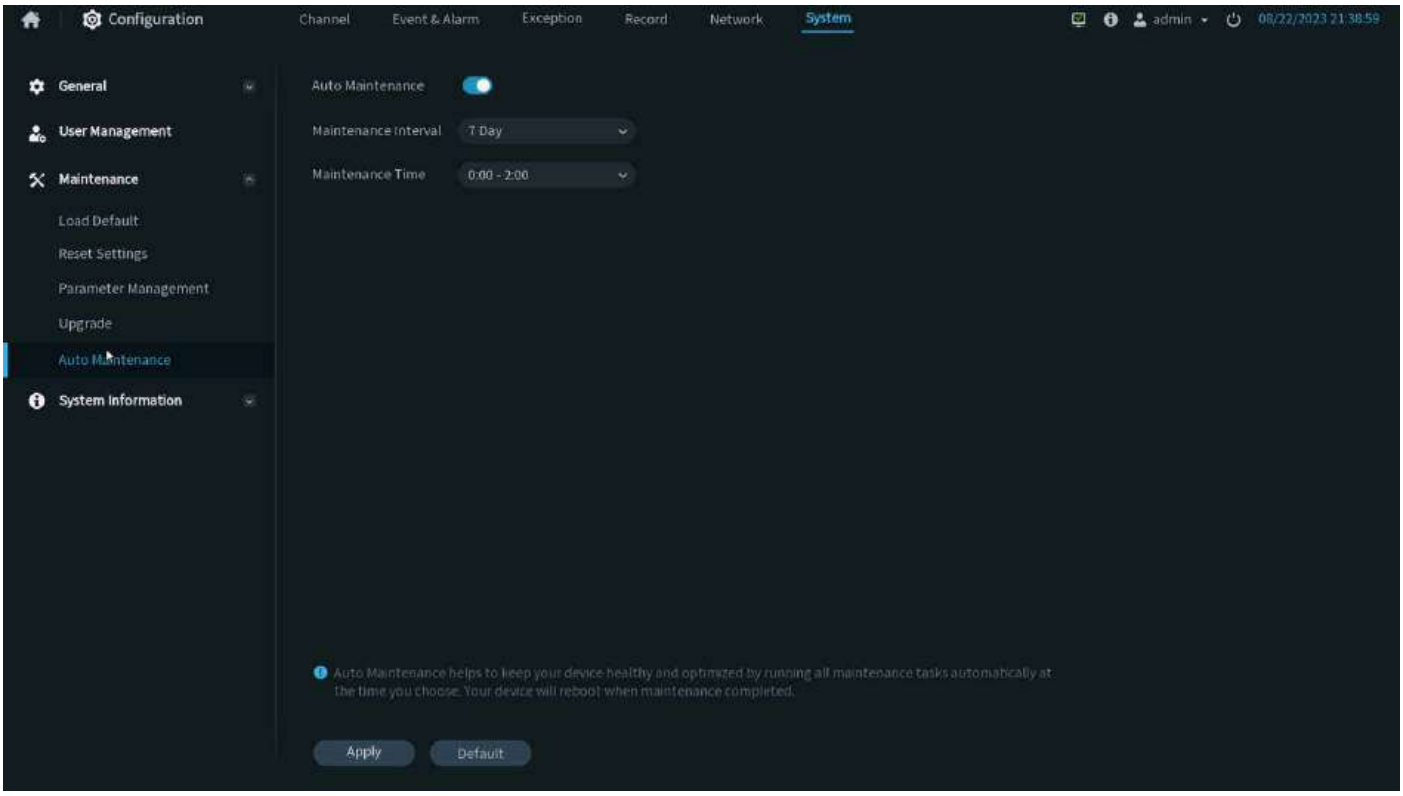
1. Click "Check Version",
2. If a new version is detected, click "Upgrade" and enter the administrator password to verify to upgrade the camera online. The system upgrade may take about 5-10 minutes. Please do not turn off the power of the NVR during the firmware upgrade.

Local Upgrade :

1. Copy the firmware file (.sw file) to your USB drive and insert the USB flash drive into the USB port of the NVR.
2. Click the Select File button to select the firmware file in the USB flash drive, and then click OK.
3. Click the Upgrade button to start the system upgrade. The system upgrade will last about 5-10 minutes. Please do not turn off the power of the NVR or unplug the USB from the NVR during the firmware upgrade process.

Auto Maintenance:

This menu allows the system to automatically reboot the NVR at regular intervals. It is recommended to enable this feature as it maintains the operational integrity of your NVR.



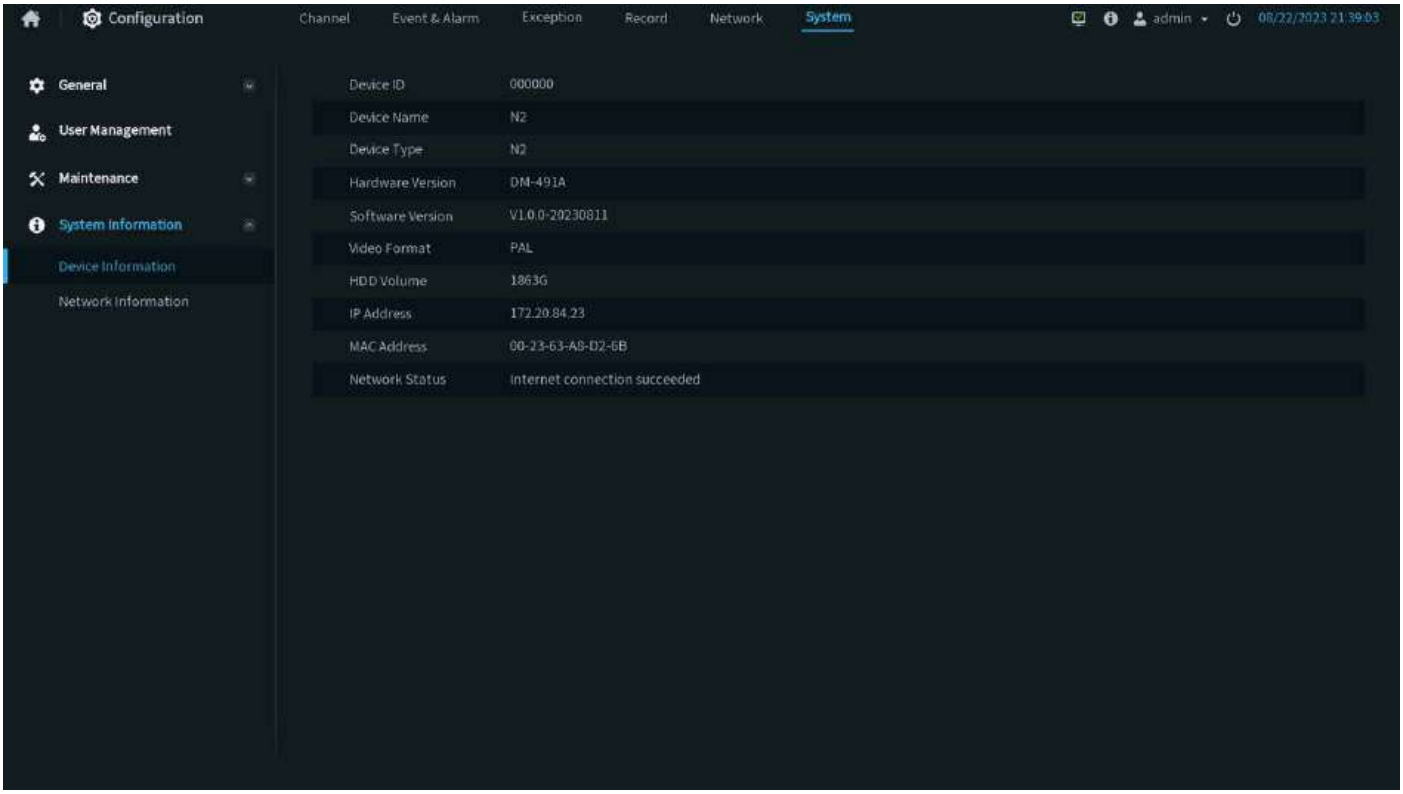
Auto Maintenance：Click to enable.

Maintenance Interval：Set the NVR to reboot after 1 day, 3 days or 7 days.

Maintenance Time：Set the time period for NVR to restart.

System: System Information

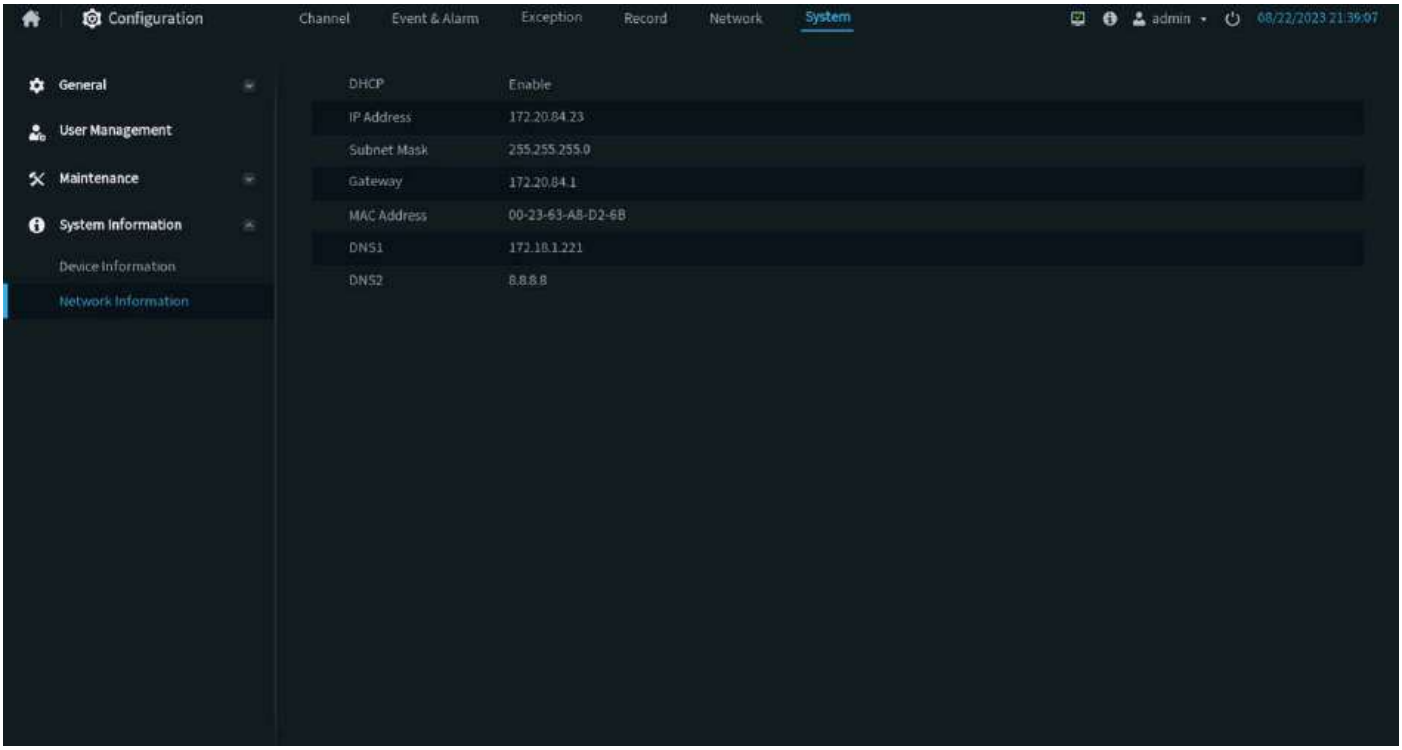
View system information, such as device ID, device name, IP address, MAC address, firmware version, etc.



NOTE : This tab displays technical information about your NVR, along with the device ID. When you call our help desk for assistance, our staff may ask you to access this tab so they can assist with any technical issues you may have.

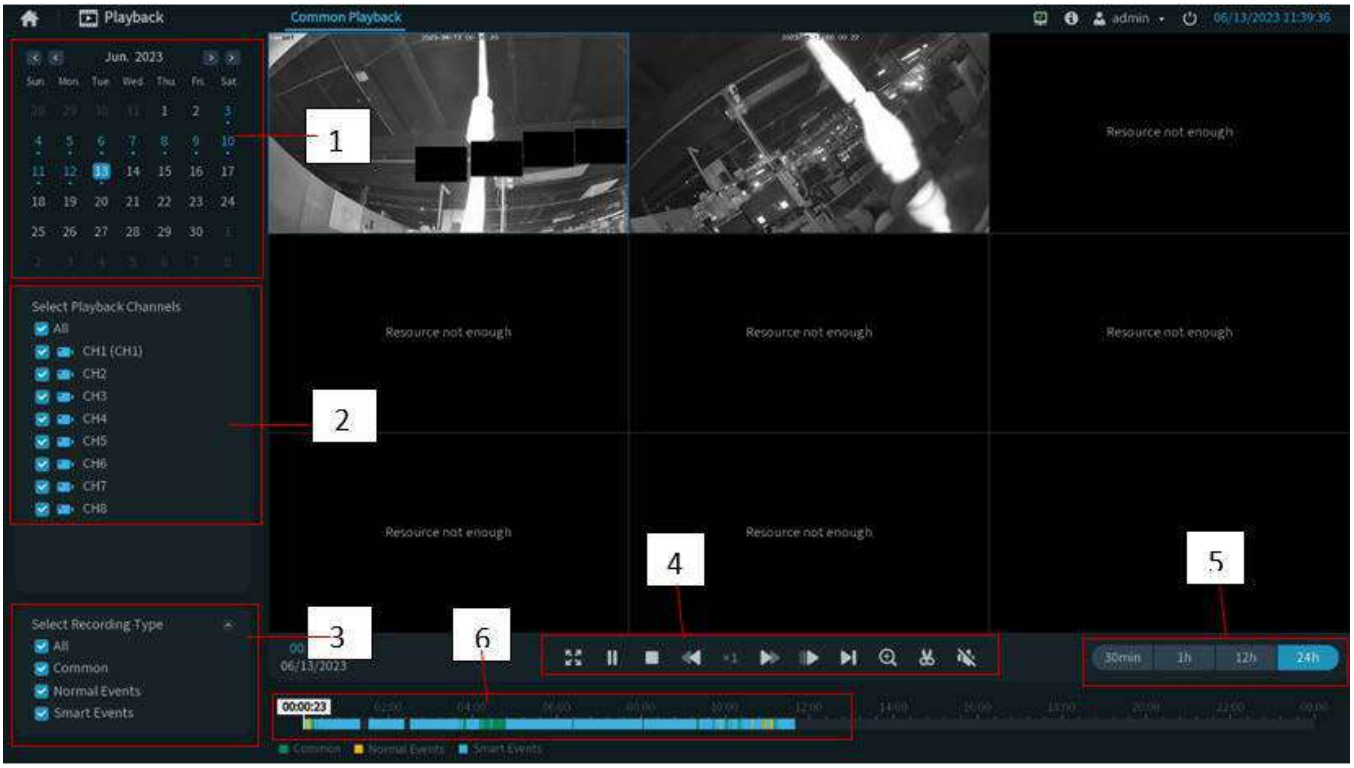
System: Network Information

View network information such as IP address, subnet mask, gateway, MAC address, and DNS.



Playback

Click the Playback button in the main menu to enter the Playback section.



Items	Part Names	Functions
1	Search Date	Search by a date to playback.
2	Channel Selection	To choose the channels you want to search & play
3	Recording Type	The system provides different search types to narrow your search.
4	Video Playback Controls	To control the video playback.
5	Time Frame Options	Represents the visible time. Click on a different period to zoom in for precise control or to zoom out
6	Timeline	Continuous recordings are shown with colored bars to represent different types of recording (legend shown in the bottom-left corner of the display). Use the time frame options.

Enlarge the video playback to full screen

Pause

Stop

Rewind, x2, x4, x8 and x16

Playback Status

Fast Forward, x2, x4, x8 and x16

Slow Play, 1/2, 1/4 and 1/8, 1/16 speed

Play frame by frame. Click once to play a frame of the video

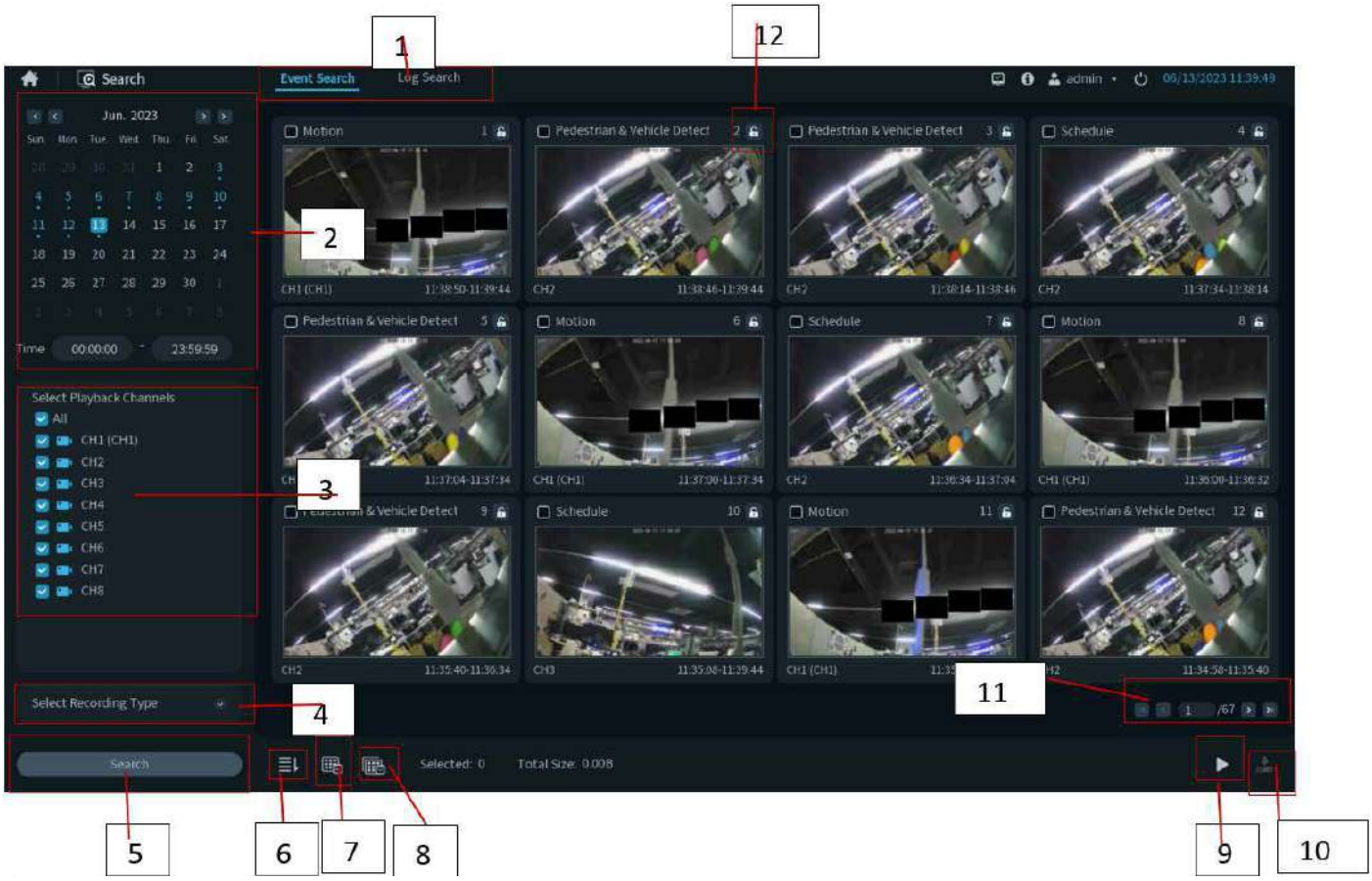
Digital Zoom: Click to zoom in then click-and-drag on a camera image during playback to zoom in on the selected area. Right-click to return to regular playback.

Video Clip. Quickly save a section of video to a USB flash drive.

Volume Control: scroll the slider bar to increase or decrease volume.

Search: Event Search

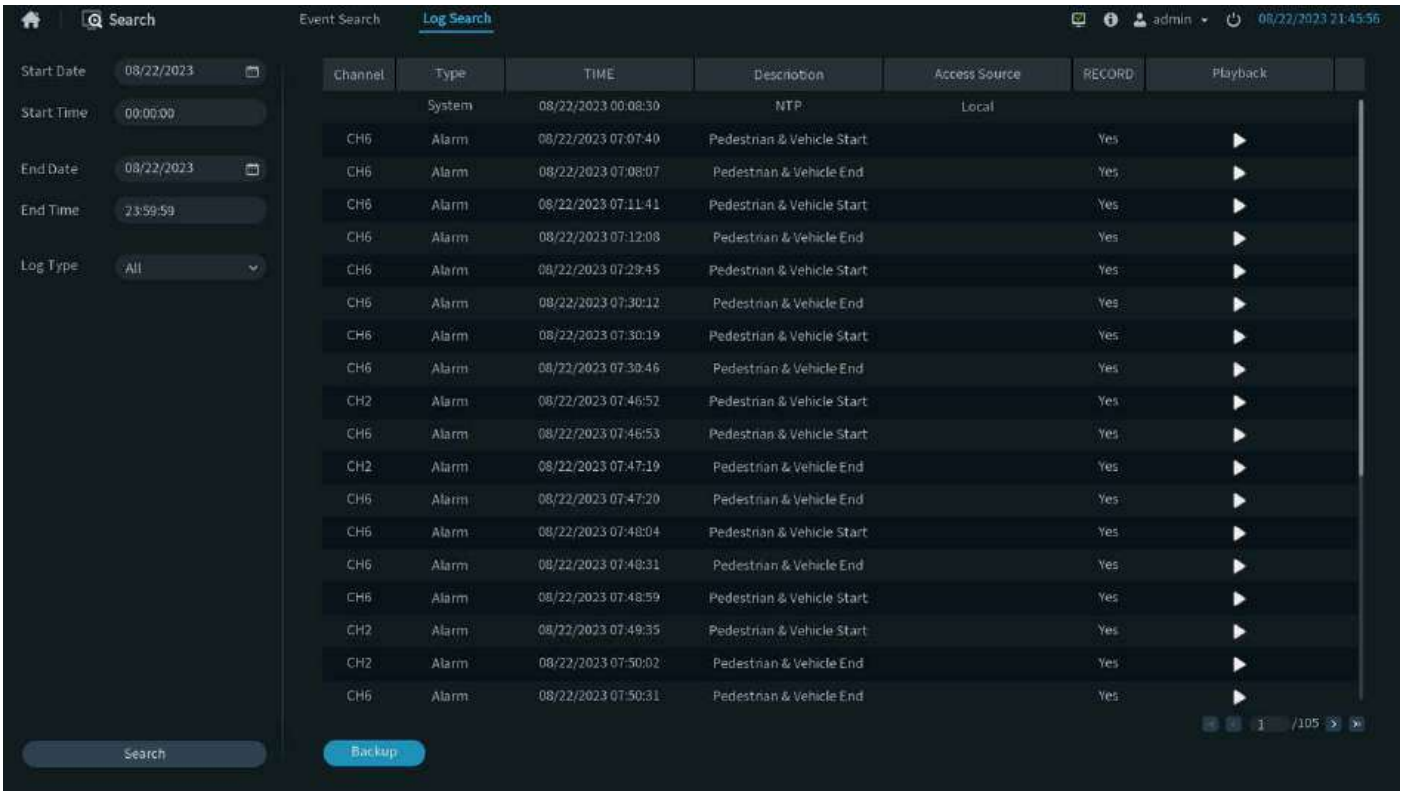
Click **Search** button in the **Main Menu** to enter search section.



Items	Part Names	Functions
1	Search Options	The system provides search & playback methods: Event Search and Log Search.
2	Search Date and Time	Search by a date and time to playback.
3	Channel Selection	To choose the channels you want to search & play.
4	Recording Type	The system provides different search types to narrow your search.
5	Search	Click the search button and the search results will be displayed on the right.
6	Sort	Click the icon to view the events in descending or ascending order.
7	Select Current Page	Click the icon to select all events on the current page.
8	Select All	Click the icon to select all events.
9	Play	Play the selected event, or all events if you do not manually select the event.
10	Download	Select a video then click this button to copy to a USB flash drive
11	Page	Click these to navigate to a different page available. Use the keypad to navigate to a specific page.
12	Lock	The locked events are not overwritten.

Search: Log Search

All actions and events performed and detected by your NVR are recorded. These log files can be searched, viewed, and copied to a USB flash drive for future storage.



Start/End date and Time：Click the calendar icon to select the month, year, and day you want to search. Click the box to enter a specific start and end time.

Log Type：Leave the default selection or click the drop-down menu to select the specific operation you want to search for.

Search：Click this button to display a list of log files that match your search criteria. Double-click a file to display information for that log file.

Backup：Insert a USB flash drive into your NVR and click this button to copy the log files that match your search criteria. If needed, you can choose to format the flash drive or create a new folder. Click "OK" to save, then click "OK" again to close.

Frequently Asked Questions

Q: What should I do if the system cannot detect the HDD?
A: Check that the power supply is properly connected, the HDD's data and power ports are securely connected to the motherboard, and the HDD connector is not faulty. Also, check the specifications or instructions to confirm that your HDD is supported.

Q: I changed my password but have forgotten it. How can I access the system?
A: If you forget your system password, please contact our technicians. We strongly recommend that you set a password that is easy to remember and relatively secure. If you have security requirements, please do not set a very simple password such as 000000.

Q: After connecting the NVR and cameras, we see abnormal video signals or even no video signal, but the power to both devices is normal. What's wrong?
A: Check the network cable on the NVR side to see if it is firmly connected, worn out and needs to be replaced, or check if NTSC or PAL format is consistently selected.

Q: How to protect NVR from heat?
A: The NVR needs to dissipate heat during operation. Please place the NVR in a place with good air circulation and away from heat sources to ensure the stability and life of the NVR.

Q: I want to remove the HDD from my computer and install it in the NVR. Will it work?
A: All HDDs supported by the system can be used. But please keep in mind that the data on your HDD will be lost once the NVR is running.

Q: Can I play back while recording?
A: Yes. The system supports simultaneous recording and playback.

Q: Can I clear some of the records on the NVR hard drive?
A: Considering the security of your files, you may not be able to clear some records. If you want to delete all records, you can format the HDD.

Q: Why can't I log in to the NVR client?
A: Please check whether the network connection settings are correct and whether the RJ-45 port is in good contact. Also check whether your account and password are entered correctly.

Q: Why can't I find any records during playback?
A: Please check that the correct date and time range has been selected and that there is recorded data within that time period. Also, please ensure that the NVR hard drive is not full, as a full drive may prevent new recordings from being saved. If the problem persists, you may need to further check the hard drive or system configuration.

Technical Specifications

Compression	Audio: G.711a Video : H.264/H.265
Operating System	SOC: NT98631 Flash: NAND128MB DDR: 4G bit (4th generation)
Smart Device Support	Apple iOS(iPhone/iPad) and Android Phones and Tablets
Dual Stream	Yes, Set by Channel
Image Quality	3840×2160, 2560×1440
Frame Rate Recording	4K:30fps 4MP:60fps 2MP:120fps Multi display resolution 720P, single channel up to 4K
Image Playback Quality	Max 1CH playback (4K)
Video Mode	Manual, Automatic & Motion Detection
Backup Capability	USB Devices (Hard Disk, Flash Drive, DVD/RW etc.), Mobile Client
User Control	Mouse or Remote Control (Both Included)
Video Input	4 Channel: 4 x POE, 8 Channel: 8 x POE
Video Output	1 x HDMI (up to 4K)
Audio Output	support (1W)
Network Interface	1 RJ45 10/100 Base-T
USB Port	USB2.0×2+(rear)
Alarm Input / Output	No Alarm Input or Output, Not Supported
HDD	1 x SATA HDD , Maximum Support to 10TB
Power	4CH NVR: 48V/1.2A , 8CH NVR: 48V/1.5A
Operating Temperature	0°C~+40°C (32°F ~ 104°F)

Glossary

Live View : This is the default display mode for a DVR (Digital Video Recorder) or NVR (Network Video Recorder). Each connected camera will display its live video feed on the screen .

Motion Detection: This is the primary method used by NVRs to detect motion and is a crucial component of security systems. It works by comparing one frame of video to the next. When there's a certain difference between the two frames, the system interprets it as motion.

On-screen Display: Displays information from the camera on the screen, such as time, date, and camera name.

BLC (Back Light Compensation): Used to improve the exposure of objects in front of a light source. It does this by dividing the entire image into different areas and then applying separate exposure levels to these areas.

WDR (Wide Dynamic Range) is a technology used to balance images with a wide dynamic range. For example, when an indoor camera is pointed at a window or building entrance, the image produced by the camera during daylight hours can be extremely overexposed due to the high brightness of the incoming light . WDR technology can help address this issue.

Hue: Somewhat similar to what is commonly referred to as color. By changing the hue, you can change the color mix of the image.

Mainstream: is the video stream that your NVR will display and record. It generally provides higher video quality and resolution.

Substream : This is the video stream that your DVR or NVR will send to remote devices over the network or internet. To make it easier to send, the video quality will be reduced.

H.264: H.264 is a video compression technology used to reduce the size of video data while maintaining image quality. This is crucial for security surveillance systems that require large amounts of storage space. H.264 is an innovative encoding technology designed specifically for surveillance video.

H.265: It is a successor to H.264. It offers twice the data compression ratio at the same video quality level. This means you can use less storage space or lower bandwidth to transmit video of the same quality.

Resolution: is a measure of the detail visible in an image. The higher the value, the more detail is available.

FPS (Frame Rate): This is a measurement of the number of frames per second displayed in a video. A higher frame rate means smoother video, but also increases storage requirements and network bandwidth. Common frame rates include 30 FPS, 25 FPS, and 15 FPS.

HDD (Hard Disk Drive): An HDD is a storage device inside a DVR (Digital Video Recorder) or NVR (Network Video Recorder). It is used to save and store all data, such as video recordings and configuration files.

Format: Formatting is a command used to prepare a storage device (such as a USB flash drive or hard drive) to store data. Before formatting is performed, all data on the storage device will be deleted.

DHCP (Dynamic Host Configuration Protocol): DHCP uses a server or router to dynamically assign IP addresses to devices connected to the network. This allows devices to automatically obtain network settings without manual configuration.

IP Address: An IP address is the address of a device connected to a network. Every device on a network must use a unique IP address to identify and communicate.

Gateway: A gateway is a node or router that routes traffic from devices on your home network to an external network that provides internet access. It acts as a bridge between your local network and the external network.

MAC Address: A MAC address is a unique identifier for network hardware. It is commonly used for network communication and identification. While a MAC address can be used as a password (in some cases), this is not its primary use and is not recommended.

Firmware: Firmware is the software that runs on a specific device, such as a smartphone. It is called firmware because it is integral to the operation of the device and is usually tightly integrated with the hardware.

Hardware: Hardware is a physical device such as a DVR, NVR, computer, router, etc. It is the foundation for software to run and provides the physical components to perform specific functions.

NTSC: NTSC is a video system used in North America, Canada, and some Latin American countries. In NTSC, 30 frames are transmitted per second.

PAL: PAL is the video system used in the United Kingdom, Australia, and most European countries. In PAL, 25 frames are transmitted per second.

VGA/HDMI Resolution: VGA/HDMI resolution refers to the number of pixels supported by a TV, VGA monitor, or other display device, or the output signal resolution of a viewing device such as a DVR or NVR.

SMTP (Simple Mail Transfer Protocol): SMTP is used to send outbound emails (e.g., from an NVR to an email address). It defines the standard protocol for email transmission.

SMTP Port: The SMTP port is the port number that the SMTP server uses to listen for email outgoing requests. This port number is assigned by your email provider.

SMTP Server: The SMTP server is the address of the server used for SMTP. It usually appears in the form of a web page address (for example, smtp.gmail.com).

Time Zone: Time zones typically maintain the same time . Contiguous and frequently communicated time zones are areas that observe a unified standard time for legal, commercial, and social activities.

Time Server: A server that reads the actual time from a reference clock and distributes that information to clients on the network.

NTP (Network Time Protocol): Used to automatically synchronize your DVR or NVR's clock with a network time server. Most time servers are located on the Internet.

DST (Daylight Saving Time): is the period of time each year when clocks are adjusted forward one hour.

NOTE: For technical support, please contact us sales@Veroxcctv.co.uk