

CONCORD



CNK8868PFA-A

**Professional NVR
Network Surveillance System**

Chapter 1: Product Overview

1.1 Rear Panel

Chapter 2: NVR Installation & Connection

2.1 Connection Diagram

2.2 Power Supply Connection

Chapter 3: NVR Common Operations

3.1 Using the Supplied Mouse

3.2 Using the Virtual Keyboard

3.3 Password

Chapter 4: NVR Starting Up

4.1 Start Wizard

4.1.2 Network Configuration

4.1.3 Date/Time

4.1.4 IP Camera

4.1.5 Disk

4.1.6 Resolution

4.1.7 Mobile

4.1.8 Summary

4.2 Live View Screen Overview

4.2.1 Camera Quick Toolbar

4.2.2 Taskbar

4.2.3 Start Menu

4.2.3.1 Unlock and Lock Screen

4.2.3.2 Shutdown

Chapter 5: NVR System Setup

5.1 Channel

5.1.1 IP Channels

5.1.2 Protocol Manage

5.1.2 Live

5.1.3 PTZ

5.1.4 PTZ Control

5.1.5 Motion

5.1.6 Alarm

5.1.7 PIR

5.1.8 Video Cover

5.1.9 Intelligent

5.1.9.1 PID (Perimeter Intrusion Detection)

5.1.9.2 LCD (Line Crossing Detection)

5.1.9.3 SOD (Stationary Object Detection)

5.1.9.4 PD (Pedestrian Detection)

5.1.9.5 FD (Face Detection)

5.1.9.6 CC (Cross-Counting)

5.1.9.7 Intelligent Analysis

5.1.9.8 Intelligent Schedule

5.2 Record

5.2.1 Encode

5.2.2 Record

5.2.2.1 Record

5.2.2.2 Record Schedule

5.2.3 Capture

5.2.3.1 Capture

5.2.3.2 Capture Schedule

5.3 Alarm

5.3.1 Motion

5.3.2 I/O

5.3.3 PTZ Linkage

5.3.4 Exception

5.4 Network

5.4.1 General

5.4.4.1 PPPoE

5.4.1.3 Port Configuration

5.4.2 DDNS

5.4.3 Email

5.4.3.1 Email Configuration

5.4.3.2 Email Schedule

5.4.4 FTP

5.5 Device

5.5.1 Disk

5.5.1.1 Disk Group

5.5.1.2 S.M.A.R.T

5.6 System

5.6.1 General

5.6.1.1 Date and Time

5.6.1.2 NTP Settings

5.6.1.3 DST Settings

5.6.2 Output Configuration

5.6.2.1 LIVE-OUT

5.6.3 Multi-User

5.6.3.1 Changing Password

5.6.3.2 Add New Users

5.6.3.3 Setting User Permissions

5.6.4 Maintenance

5.6.4.1 Log

5.6.4.2 Load Default

5.6.4.3 Upgrade

5.6.4.4 Parameter Management

5.6.4.5 Auto Reboot

5.6.5 IP Camera Maintain

5.6.5.1 Upgrade IP Camera

5.6.5.2 Load Default Settings for IP Camera

5.6.6 System Information

5.6.6.1 Information

5.6.6.2 Channel Information

5.6.6.3 Record Information

5.6.6.4 Network State

Chapter 6: Search, Playback & Backup

6.1 Using Search Function

6.1.1 Search & Play Video in General

6.1.1.1 Video Clip Backup

6.1.2 Event Search, Playback & Backup

6.1.2.1 Event Playback Control

6.1.3 Sub-periods Playback

6.1.4 Picture Search & View

6.1.5.1 Picture Preview Control

Chapter 7: Remote Access via Web Client

7.1 Basic System Environment Requirements

7.2 Web Plugin Download and Installation

7.3 Web Client Manager

7.3.1 Live Interface

7.3.2 Playback

7.3.2.1 Playback Control Buttons

7.3.3 Remote Setting

7.3.4 Local Setting

Chapter 8: Viewing Backed up Video on PC/Mac

Chapter 9: Remote Access via Mobile Devices

Chapter 10: Appendix

10.1 Troubleshooting

10.2 Usage Maintenance

10.3 Accessories (For References Only)

Safety Precautions

Please carefully read the following safety precautions so as to avoid personal injuries and prevent the equipment and other connection devices from being damaged.

1. Power supply

Never operate the equipment with any power supply other than the one supplied in the box.

2. Never push objects of any kind through the openings of the NVR

Never push objects of any kind through any openings of the NVR to avoid electric shock or damage to your NVR.

3. Do not place the NVR in a dusty environment

Dust could affect the connections and damage the electronics.

4. Do not place the NVR in a wet or humid environment

Do not position the NVR in a location that is likely to get wet or humid such as outdoors or in a basement. If the NVR comes into contact with water, unplug the power cable immediately and contact your local dealer.

5. Keep the surface of the equipment clean and dry

Use a soft slightly damp cloth to clean the outer case of NVR and make sure it is dried straight away (do not use liquid aerosol cleaners).

6. Do not operate if you notice any unusual problems

If you notice any strange smells, sounds or smoke coming from your NVR, unplug the power cable immediately and contact an authorised dealer or service centre.

7. Do not try to remove the upper cover

Warning: Do not remove the cover of your NVR to avoid electric shock or damage to the electronics.

8. Handle with care

If your NVR does not work normally after dropping it or being hit by a hard object, disconnect the power immediately and contact an authorised dealer or service centre.

9. Position the equipment in a place with good ventilation

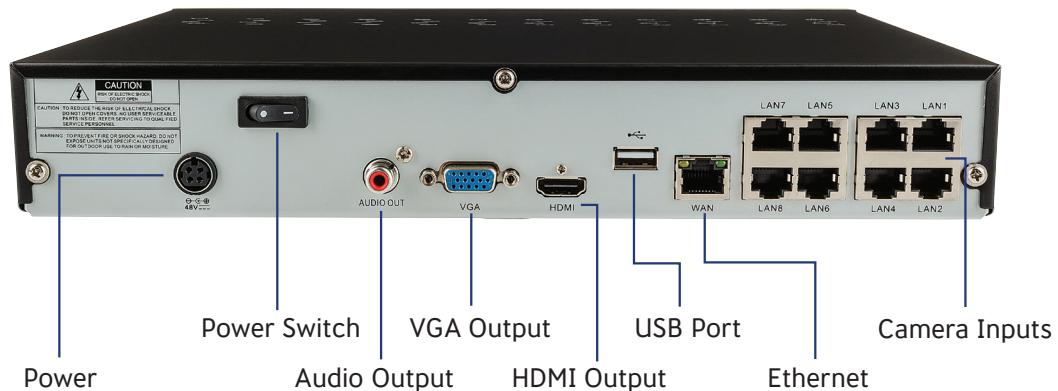
The NVR system includes a HDD, which can produce a significant amount of heat during normal operation. As a result, do not block the ventilation openings (on the top, bottom, both sides and the reverse side) for cooling the system during operation. Make sure your NVR is kept in a well ventilated area and that the cables are kept tidy and do not obstruct air flow.

10. The included power supply can only be used for one NVR system, do not connect more equipment to the power supply, it will not have enough power to operate correctly.

11. Do not place objects containing water, such as a flower vase, on or near the equipment.

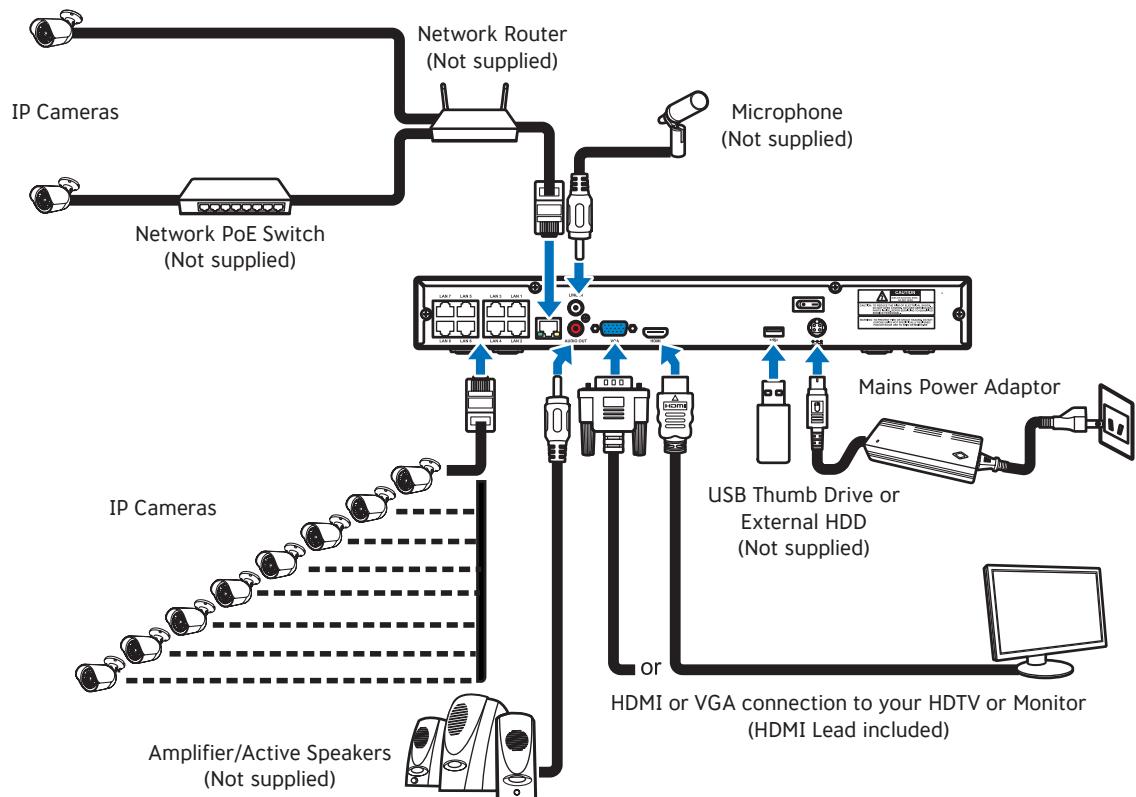
Chapter 1: Product Overview

1.1 Rear Panel



Interface	Description
Power	Connect the attached mains power supply
Power Switch	Startup and Shutdown
Audio Output	Connect to an amplifier or active speakers. RCA connection.
VGA Output	Connect to your TV or monitor if it doesn't have a HDMI input.
HDMI Output	Connect to your TV or monitor's HDMI input using the supplied HDMI cable.
USB Port	Connect the supplied mouse or external USB Hard Drive.
Ethernet/LAN	Connect to your network router using supplied RJ45 Ethernet cable.
Camera Inputs	Camera inputs. Supports PoE (Power over Ethernet). RJ45 connection.

2.1 Connection Diagram



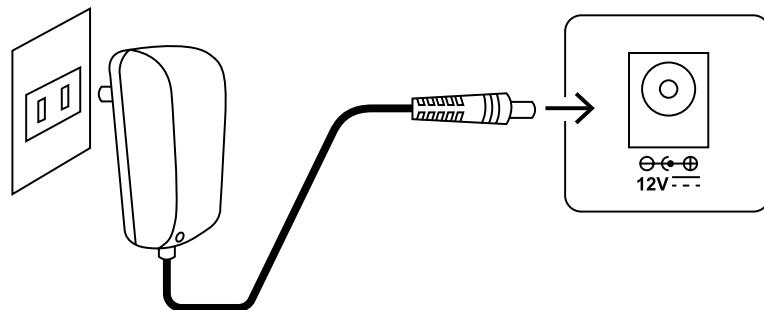
Note:

The above diagram is for reference purposes only.
Your connections and setup may differ slightly from this description.

2.2 Power Supply Connection

CAUTION: Use only the included mains power adaptor that came with the NVR.

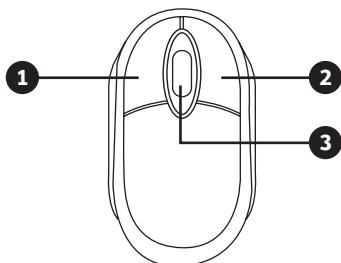
Connect one end of the power adaptor to the power connector on the back of the NVR. Plug the other end of the power adapter into the wall mains outlet.



This NVR has a power switch on the rear that you will need to turn on to turn on the NVR.

Chapter 3 NVR Common Operations

3.1 Using the Supplied Mouse



A USB Mouse is supplied to navigate the on-screen menus. Plug the mouse into an available USB port on the front or back of the NVR.

1. Left Button:

- Click to select menu options.
- During live viewing in split-screen view, double-click on a channel to view it in full-screen. Double-click the channel again to return to split-screen viewing.
- Click on a channel on Live Viewing screen to open Camera Quick Toolbar.
- Click and hold to drag sliders and scales on menu mode

2. Right Button:

- Click once to open the Taskbar on the Live Viewing screen. View Taskbar on **4.2.2 Taskbar**
- In menus, click to go back / close menus.

3. Scroll Wheel:

- In menus, scroll to move up / down through the menu content.
- While hovering over the volume control wheel, scroll to turn system volume up / down.

3.2 Using the Virtual Keyboard

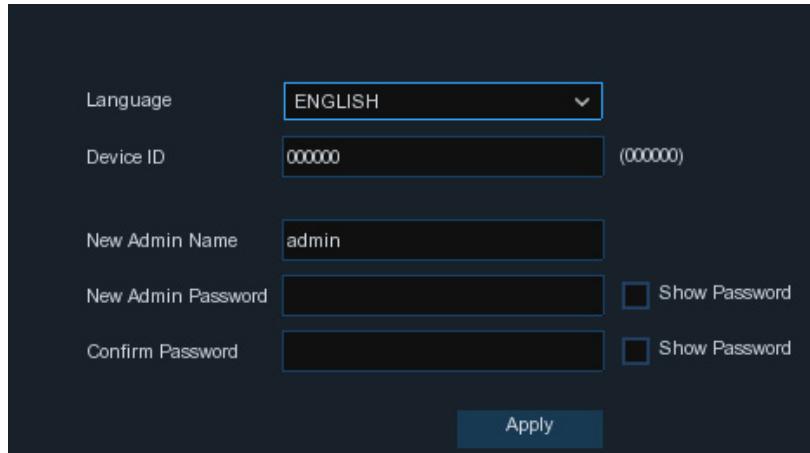
A virtual keyboard will automatically appear on the screen when you need to enter data. Use the mouse to operate this keyboard.

Click to toggle the keyboard to upper case and more punctuation



3.3 Password

The first time you run the NVR, you will be asked to set your own password, which is important to help protect your privacy. You can also change the Admin username for extra security. You may want to write down your username and password in a safe place in case you forget them in the future.



Language	ENGLISH
Device ID	000000 (000000)
New Admin Name	admin
New Admin Password	<input type="password"/>
Confirm Password	<input type="password"/>
<input type="button" value="Apply"/>	

Language: Choose your preferred language to be shown on-screen.

Device ID: Input the device ID shown in the parentheses (). Default ID is 000000.

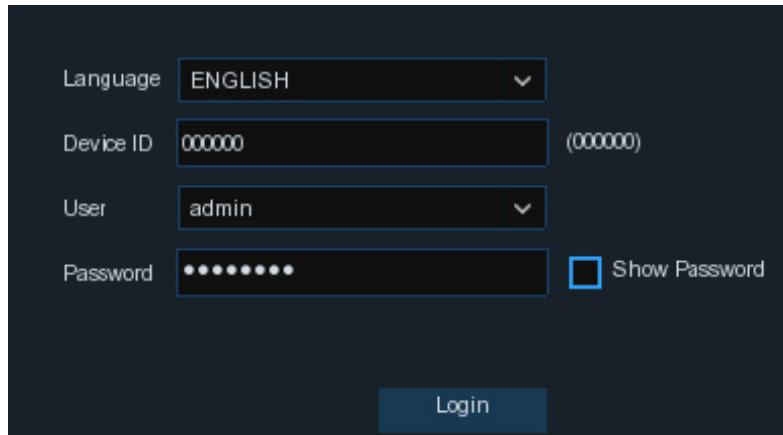
View more about Device ID on **5.6.1 General** further within this manual.

New Admin name: To set your own administrator name.

New Admin Password: To set your own password. The password must be a combination of 8 characters.

Confirm Password: Enter your own password again.

Click **Apply** to confirm your settings you will then be taken to the login interface. Enter your user name & password to Login.



Language	ENGLISH
Device ID	000000 (000000)
User	admin
Password	***** <input type="checkbox" value="Show Password"/>
<input type="button" value="Login"/>	

NOTE: If you forget your password, you will be unable to login to the system. You will need to contact Concord to reset the password if you are locked out. Visit: www.concord.support.

Chapter 4 NVR Starting up

4.1 Start Wizard

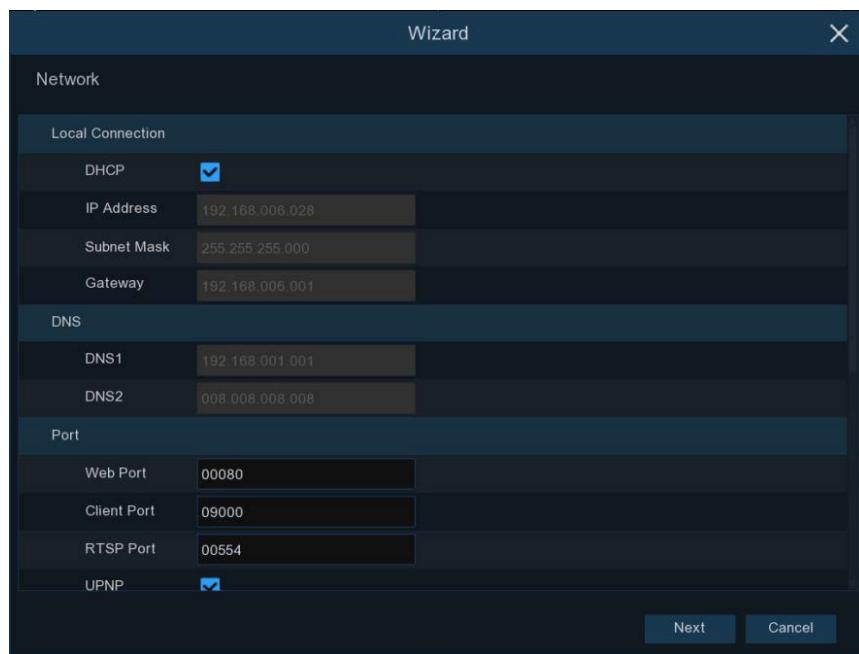
The Startup Wizard will help configure the system and get the NVR working quickly.

4.1.1 Start Wizard

Click the **Start Wizard** to proceed to the next step



4.1.2 Network Configuration

A screenshot of a "Wizard" window titled "Network". The window is divided into sections: "Local Connection", "DNS", and "Port".

- Local Connection:** Contains fields for "DHCP" (checked), "IP Address" (192.168.006.028), "Subnet Mask" (255.255.255.000), and "Gateway" (192.168.006.001).
- DNS:** Contains fields for "DNS1" (192.168.001.001) and "DNS2" (008.008.008.008).
- Port:** Contains fields for "Web Port" (00080), "Client Port" (09000), and "RTSP Port" (00554). It also has a "UPNP" checkbox (checked).

At the bottom right are "Next" and "Cancel" buttons.

If you have connected your NVR to your network, the NVR will need to identify itself on the network with an IP address. In most cases, you will be able to simply tick the **DHCP** box so your network router automatically assigns the IP Address.

If your network requires you to manually assign an IP address you will need to perform the steps on the next page.

IP Address: The IP address identifies the NVR in the network. It consists of four groups of numbers between 0 to 255, separated by periods. For example, “192.168.001.100”.

Subnet Mask: Subnet mask is a network parameter which defines a range of IP addresses that can be used in a network. If IP address is like a street where you live then subnet mask is like a neighbourhood. The subnet address also consists of four groups of numbers, separated by periods. For example, “255.255.000.000”.

Gateway: This address allows the NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, “192.168.001.001”.

DNS1/DNS2: DNS1 is the primary DNS server and DNS2 is a backup DNS server. Usually, it should be enough just to enter the DNS1 server address. You will need to consult your Internet Service Provider (ISP) for these details if you do not know how to find them yourself.

Port

Web Port: This is the port that you will use to log in remotely to the NVR (e.g. using the Web Client). If the default port 80 is already taken by other applications, please change it.

Client Port: This is the port that the NVR will use to send information through (e.g. using the mobile app). If the default port 9000 is already taken by other applications, please change it.

RTSP Port: This is the port that the NVR will be allowed to transmit real-time streaming to other device (e.g. using a streaming Media player.).

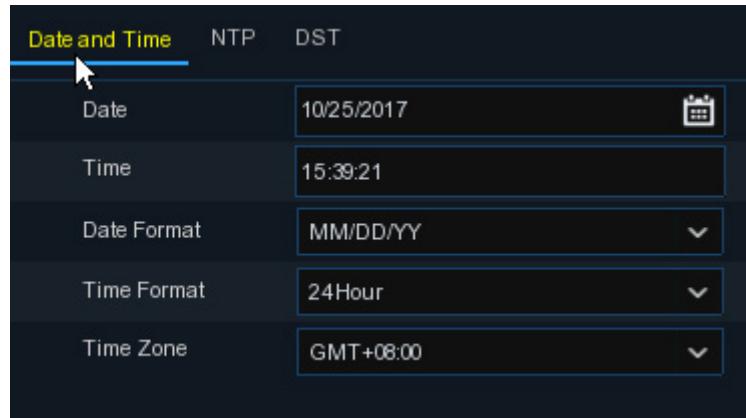
UPnP: If you want to log in remotely to the NVR using Web Client, you need to complete the port forwarding in your router. Enable this option if your router supports the UPnP. In this case, you do not need to configure manually port forwarding on your router. If your router does not support UPnP, make sure the port forwarding is completed manually in your router.

4.1.3 Date/Time

This menu allows you to configure the Date, Time, Date Format, Time Format, Time Zone, NTP and DST.

Date and Time

Click on the calendar icon to set the current system date.



Date	10/25/2017
Time	15:39:21
Date Format	MM/DD/YY
Time Format	24Hour
Time Zone	GMT+08:00

Date: Click on the calendar icon to set the system date.

Time: Click to set the system time.

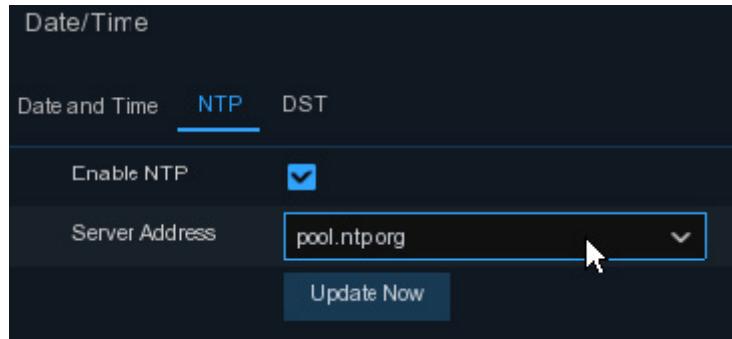
Date Format: Choose from the dropdown menu to set preferred date format.

Time Format: Choose time format between 24Hour and 12Hour.

Time Zone: Set the correct time zone

NTP

NTP stands for Network Time Protocol. This feature allows you to synchronise the date and time automatically on the NVR over Internet. Therefore, the NVR needs to be connected to the Internet.

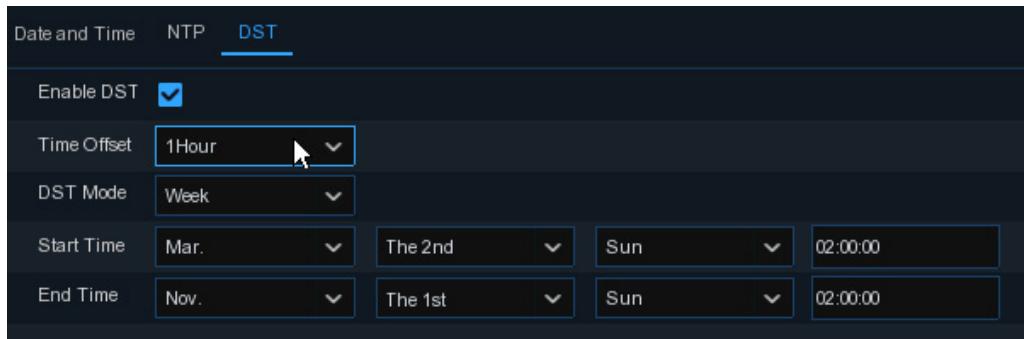


Date/Time	
Date and Time	NTP
Enable NTP	<input checked="" type="checkbox"/>
Server Address	pool.ntp.org
Update Now	

Check the “**NTP**” box, and select the NTP server.

DST

DST stands for Daylight Savings Time.



DST: Enable if Daylight Saving Time (DST) is observed in your region

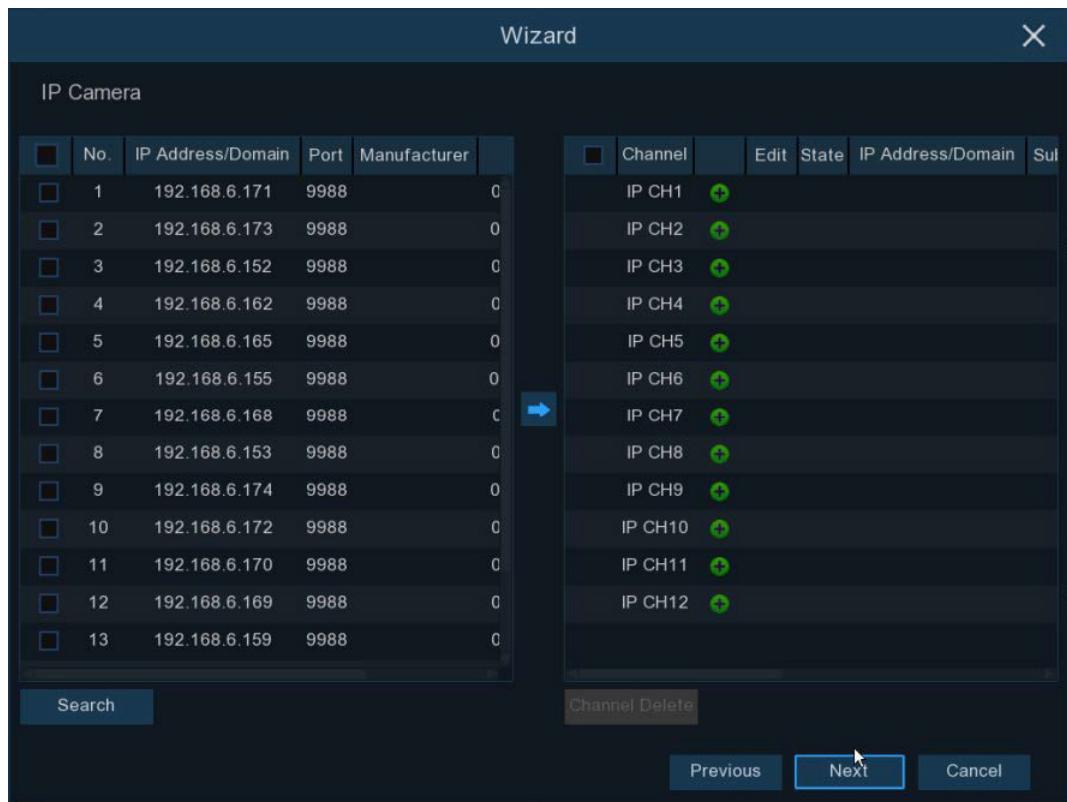
Time Offset: Select the amount of time to offset for DST

Time Mode: Choose to set the daylight saving time in weeks or in days

Start Time/End Time: Set the start time and end time for daylight saving

4.1.4 IP Camera

This menu allows you to add IP cameras to the NVR.



Click **Search** to search IP cameras in the same network. Choose the IP camera(s) you want to add, and then click  icon to add to the NVR.

Position	Left-Top	<input type="button" value="▼"/>
Port	9988	<input checked="" type="checkbox"/> Auto
Protocol	Private	<input checked="" type="checkbox"/> Auto
User Name	admin	
Password	<input type="password"/>	<input type="checkbox"/> Show Password

Enter the camera's user name & password to add the camera(s).

You can also click  button to add individual IP cameras to a single channel.

Add IP Camera

No.	IP Address/Domain	Port	Manufacturer	Device Type	MAC Address	Software Version
1	192.168.1.151	9988		IP Camera	B7-91-06-21-D9-1F	
2	192.168.1.152	9988		IP Camera	02-18-09-3B-A7-BB	
3	192.168.1.153	9988		IP Camera	E1-A1-66-94-46-B9	
4	192.168.1.154	9988		IP Camera	CF-C1-11-5A-CA-7A	
5	192.168.1.155	9988		IP Camera	B3-5B-52-54-0B-1D	
6	192.168.1.156	9988		IP Camera	6B-EC-57-ED-06-19	
7	192.168.1.157	9988		IP Camera	74-E4-95-CE-40-D3	
8	192.168.1.158	9988		IP Camera	E0-56-51-B3-8E-58	
9	192.168.1.159	9988		IP Camera	63-7A-76-1A-58-95	
10	192.168.1.160	9988		IP Camera	05-DA-0A-16-EA-CA	

IP Address/Domain:

Alias:

Position:

Port:

Protocol:

User Name:

Password:

Show Password

Bind channel:

Click **Search** button to search IP cameras, and then click one of the IP camera in the device list.

IP Address/Domain: IP address or domain name of the IP camera

Alias: Name of the IP camera

Position: Position to display the camera name on the screen.

Port: Port of the IP camera

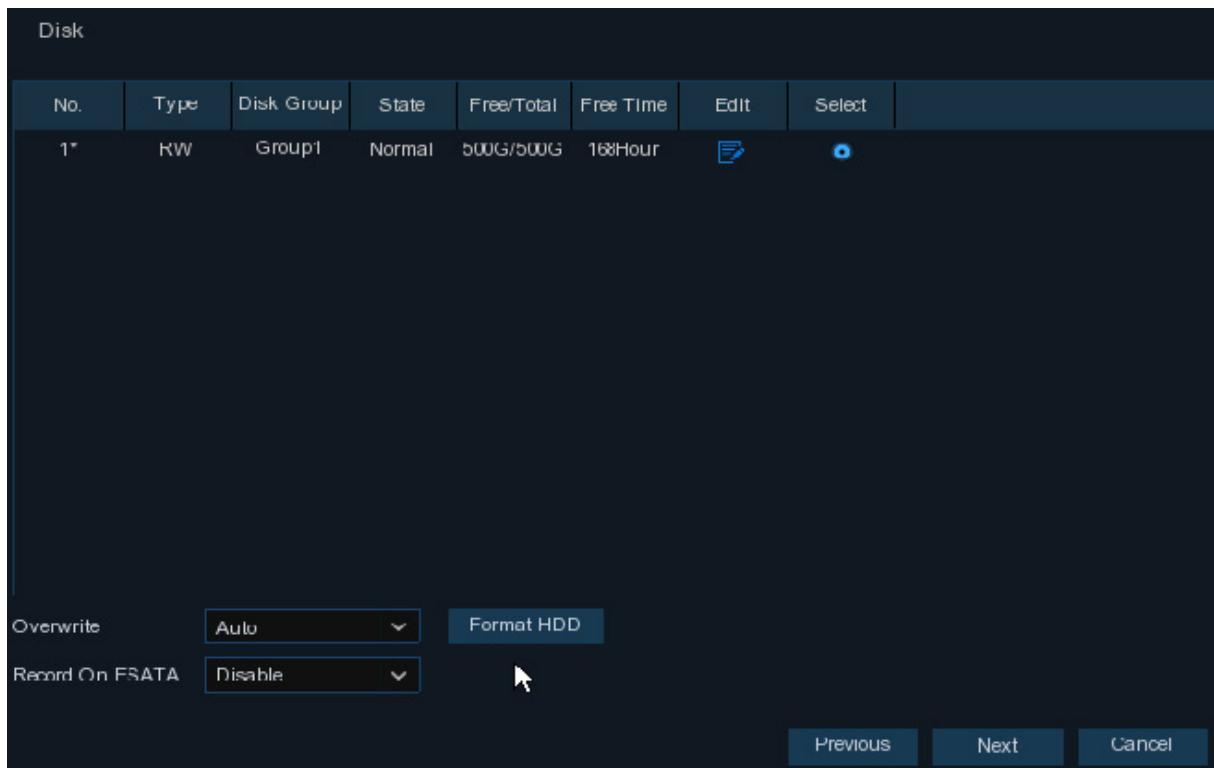
Protocol: Choose the protocol of the IP camera from the dropdown menu

User Name: Username of the IP camera

Password: Password of the IP camera

Bind channel: Choose a channel of the NVR you want to attach to.

4.1.5 Hard Drive



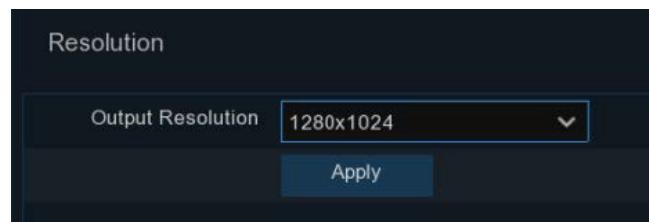
This NVR is supplied with a hard drive already installed.

Overwrite: Use this option to overwrite the old recordings on the HDD when the HDD is full. For example, if you choose the option 7 days then only the last 7 days recordings are kept on the HDD. To prevent overwriting any old recordings, select Disable. If you have disabled this function, please check the HDD status regularly, to make sure the HDD is not full.

4.1.6 Resolution

Choose an output resolution that best suits the HDTV or monitor you are connecting to.

Note: When the NVR system is starting up, it will automatically match the best resolution of your monitor.



4.1.7 Mobile

You can access this NVR remotely from your Smartphone or Tablet, providing you have the NVR connected to the network with Internet access.

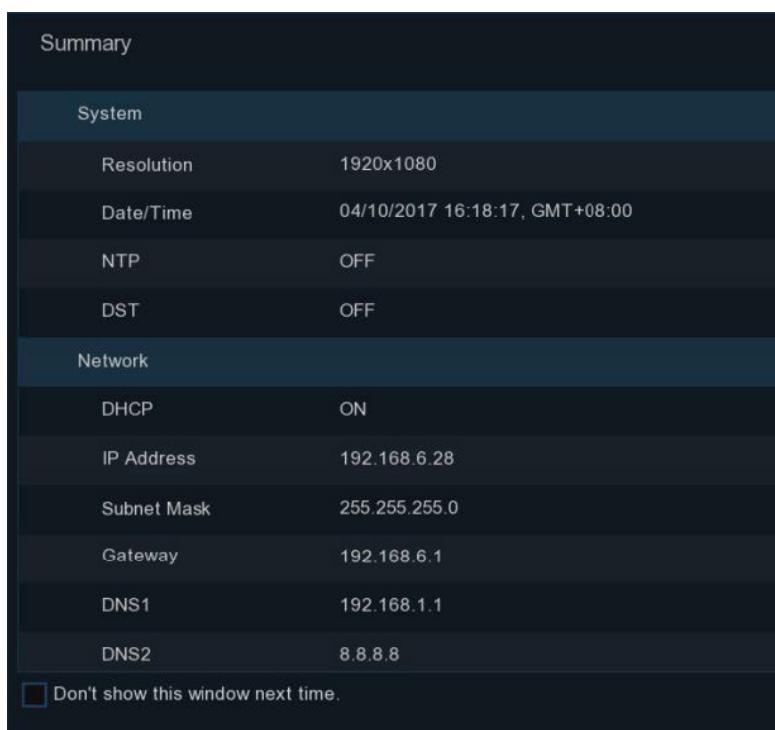
The P2P (Peer to peer) ID makes it easy to connect a Smart device. Once you have the app installed in your Smartphone or Tablet you scan this QR code and follow the instructions in the app to complete the setup.



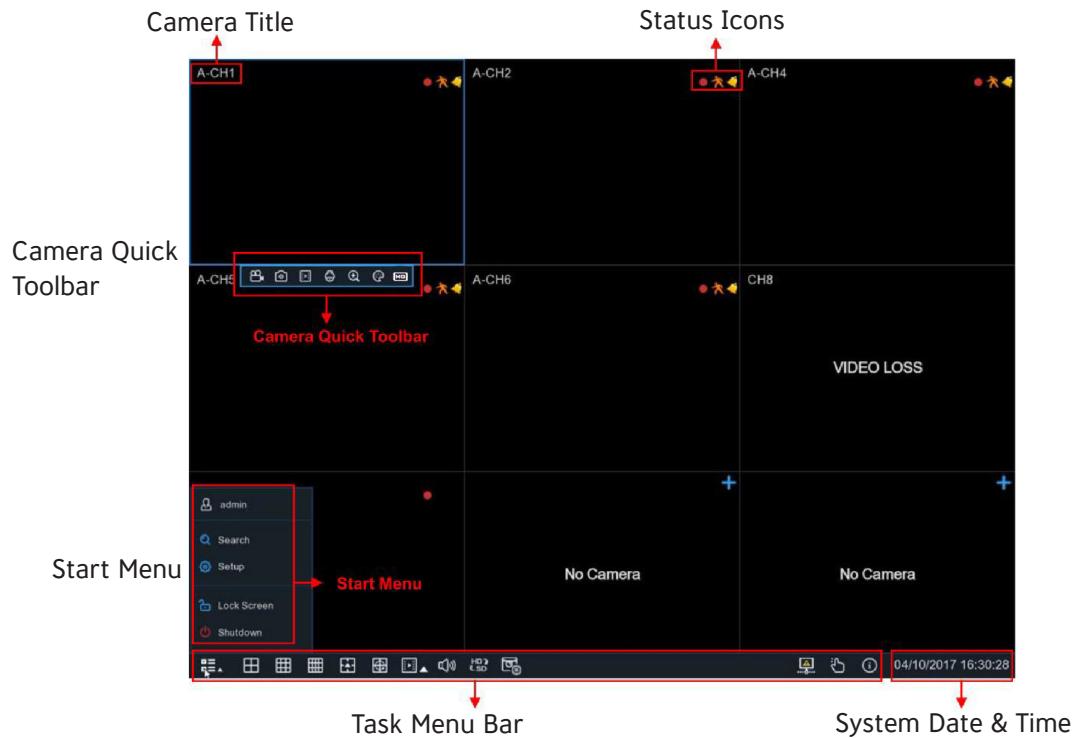
4.1.8 Summary

You can check the system summary information you had set in the start wizard and finish the wizard.

Tick “**Don’t show this window next time**” if you don’t want to display the start wizard when your NVR system reboots. Click **Finish** button to save & exit.



4.2 Live View Screen Overview



Camera Title

To display the camera title

IP: This indicates that the camera connected is an IP camera

Status Icons

- This indicates that the NVR is currently recording.
- This icon appears when the camera has detected motion.
- The icon indicates that the external I/O alarm device is triggered. (Not supported)
- This icon indicates that the HDD is in error to work.
- This icon indicates the HDD is unformatted.
- This icon indicates the HDD is full.
- This icon indicates the HDD is read-only.

Signal Lost: The analogue camera is disconnected.

No Camera: IP camera is disconnected.

Decoding Failed: The NVR doesn't support this kind of IP camera compression standard, please change to H.264 compression standard.

 Click to open **Quick Add** menu to add IP camera

 Click to edit current IP camera

4.2.1 Camera Quick Toolbar

In live viewing, click the left button of your mouse on a connected camera to display the Camera Quick Toolbar.



 Click to manually record the channel immediately. If manual recording is in progress, the icon will be red. Click one more time to stop manual recording.

 Click to save a snapshot of the current camera image. Manual Capture must be enabled to use this feature. For details on enabling Manual Capture, see **5.2.3.1 Capture**.

 Click to play the latest 5 minutes recording of this channel

 Click to enter PTZ control panel

 Click to zoom in on the selected channel. When the  icon appears, press and hold the left button of your mouse to drag the area you want to zoom in.

 Click to adjust the colour settings of the channel. You can adjust the HUE, BRIGHT, CONTRAST & SATURATION of the image.

4.2.2 Taskbar



 Click to open the Start Menu

 Click to choose different layouts for live view

 Click to choose more layouts for live view

 Click to start viewing channels in a sequence

 Quick playback. You can choose to play the latest recording for all channels from the beginning of the day, or you can choose the playback from the last 5s, 10s, 30s, 1Min, 5Min.

 Click to adjust audio volume

 Click to switch all IP channels between mainstream and substream (for live view resolution)

 Click to switch among real-time, balanced, or smooth view. The view effect modes affect only the live view video quality by bitrate and frame rate but do not affect the recording quality.

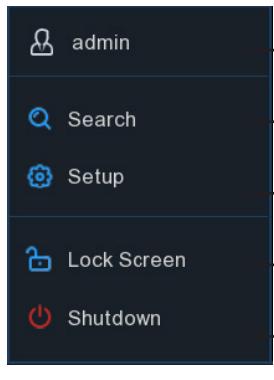
 To start or stop Manual Record and Manual Alarm.

 To view system information, channel information, record info and network state.

 This icon will appear if the network is disconnected.

4.2.3 Start Menu

With the start menu, you can switch user, search & playback, enter system setup menu, lock & unlock the screen, shut down, reboot & logout of the system.



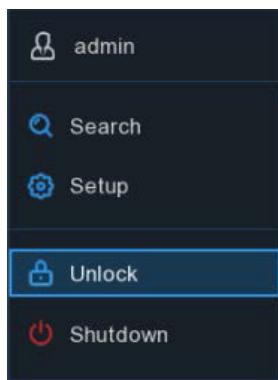
👤 admin	To switch users. To enable multi-user read 5.6.3 Multi-User .
🔍 Search	Search & Playback. To learn more, read Chapter 6 Search, Playback & Backup .
⚙️ Setup	System Setup. To learn more read Chapter 5 NVR System .
🔒 Lock Screen	Lock & Unlock Screen. To learn more read 4.2.3.1 Unlock and Lock Screen below.
⏻ Shutdown	Shutdown, reboot & logout of the system. Learn more by reading 4.2.3.2 Shutdown .

4.2.3.1 Unlock and Lock Screen

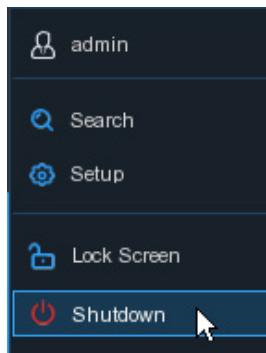
The screen will automatically lock after 1 minute of inactivity to prevent unauthorised access.

If necessary, you can also lock the screen operation manually. To do so, go to Start Menu, and then click the Lock Screen  icon to lock the system immediately.

If the system is locked, you can click the Unlock icon  to unlock the system for further operation.



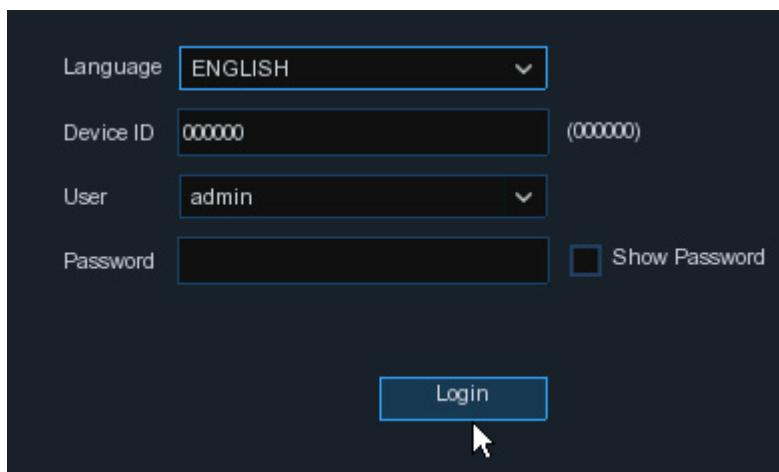
4.2.3.2 Shutdown



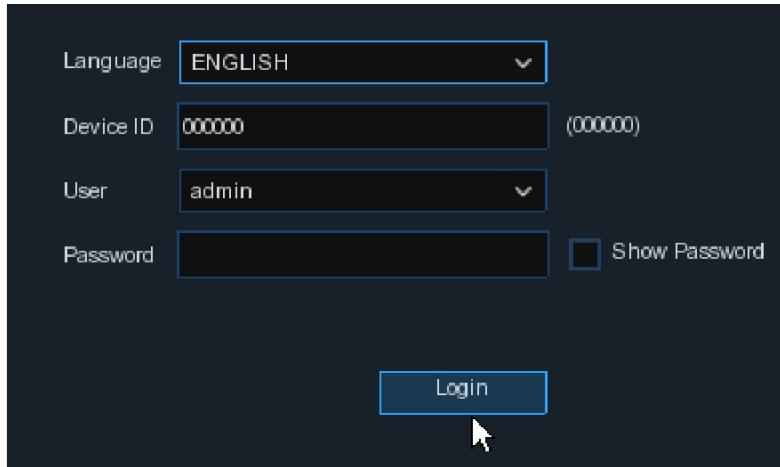
Click the **Shutdown** button from Start Menu, and select the Shutdown, Reboot or Logout action you want to perform, then click the **OK** button. The system may require you to enter the Admin password to authenticate.



If you choose **Logout**, the live viewing screen will no longer be visible. You will need to log into the system for further operations.



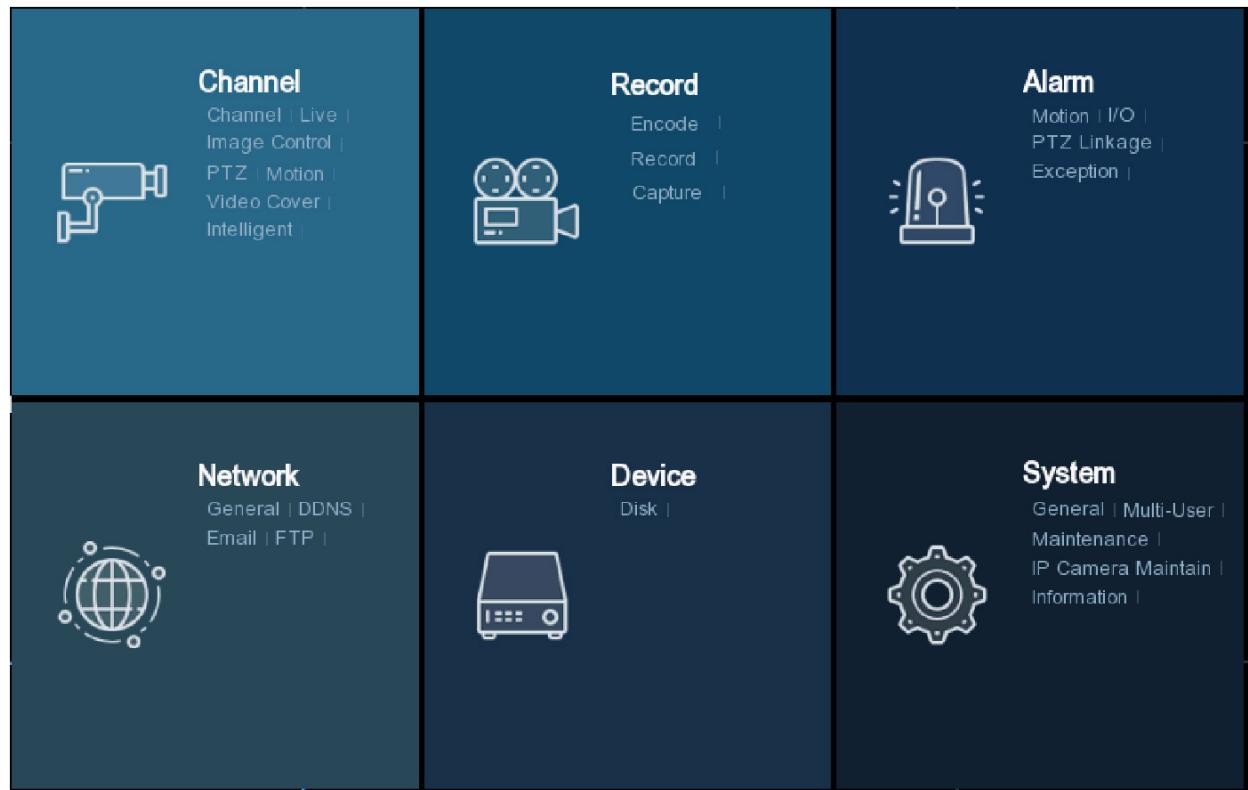
If you choose **Logout** of the system, the live viewing screen will disappear.
You will need to login the system for further operations.



The image shows a dark-themed login interface. At the top, there are four input fields: 'Language' (set to 'ENGLISH'), 'Device ID' (set to '000000'), 'User' (set to 'admin'), and 'Password'. Below these is a 'Show Password' checkbox. At the bottom center is a blue 'Login' button with a white mouse cursor pointing to it.

Chapter 5: NVR System Setup

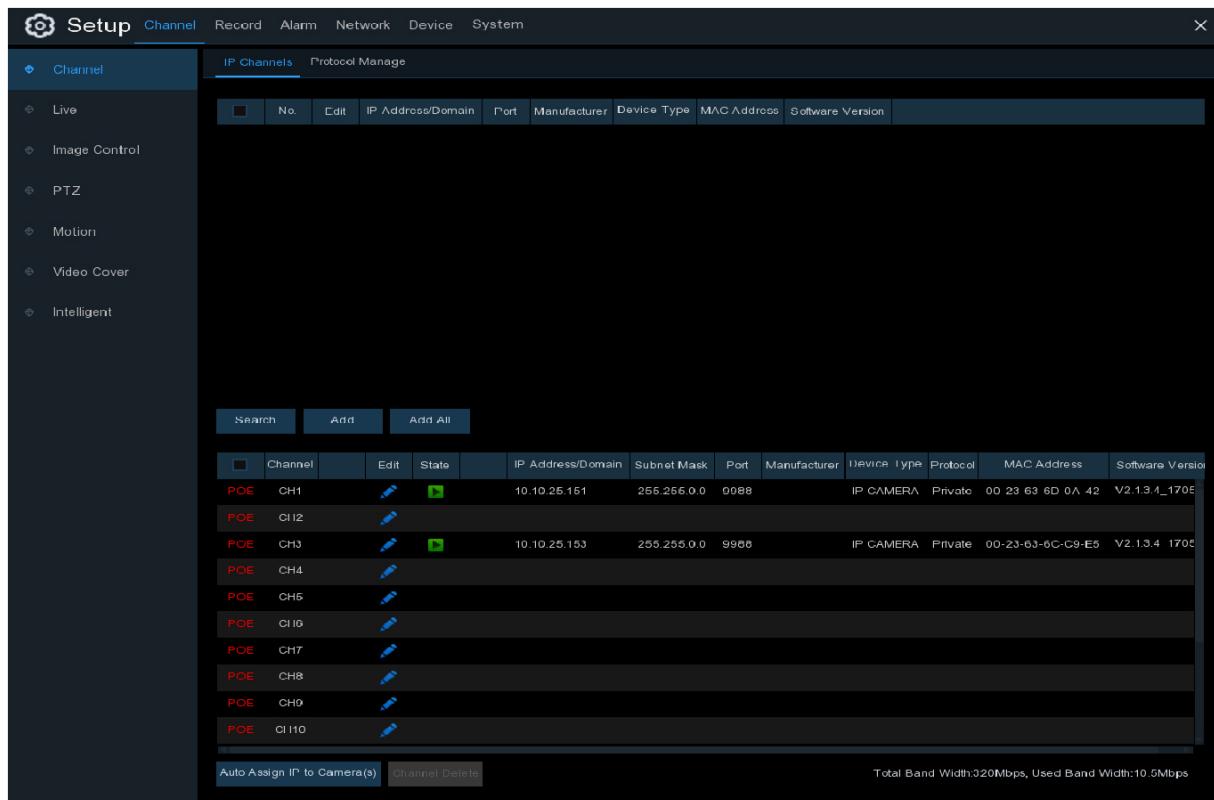
You are able to configure the NVR for Channel, Record, Alarm, Network, Device & System from Start **Menu > Setup**.



5.1 Channel

In this section, you are allowed to configure the camera, live view display, manage IP cameras, adjust IP camera's image, PTZ setup, motion setup, convert mode, and more.

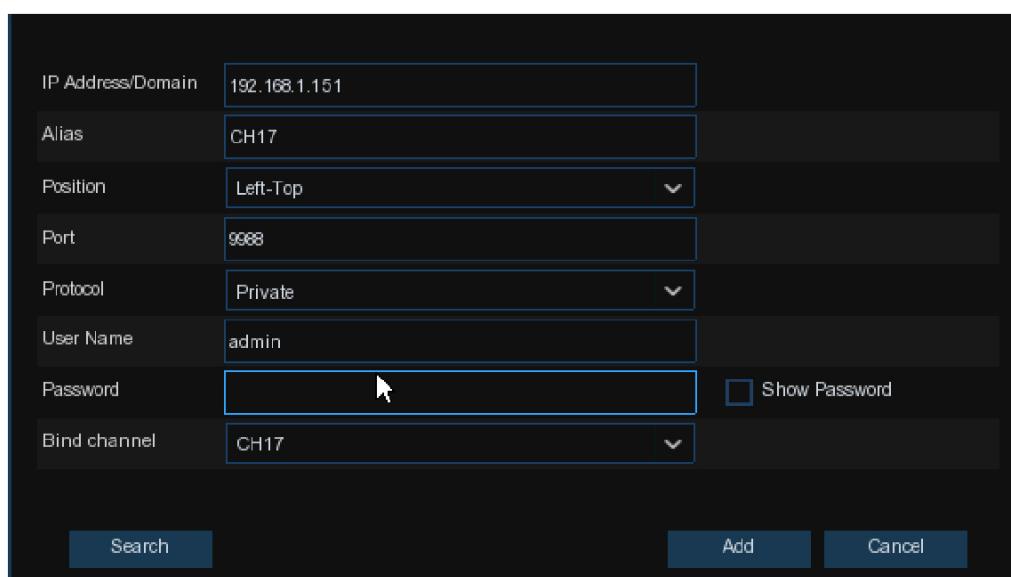
5.1.1 IP Channels



The screenshot shows the 'IP Channels' tab of the 'Channel' setup. The left sidebar lists categories: Live, Image Control, PTZ, Motion, Video Cover, and Intelligent. The main area displays a table of 11 IP cameras, each with a checkbox, Channel name, Edit icon, State icon, IP Address/Domain, Subnet Mask, Port, Manufacturer, Device Type, Protocol, MAC Address, and Software Version. The cameras are labeled POE CH1 through CH11. A summary at the bottom indicates Total Band Width: 320Mbps, Used Band Width: 10.5Mbps.

Channel	IP Address/Domain	Subnet Mask	Port	Manufacturer	Device Type	Protocol	MAC Address	Software Version
POE CH1	10.10.25.151	255.255.0.0	9988		IP CAMERA	Private	00-23-63-6D-0A-42	V2.1.3-1_1705
POE CH2								
POE CH3	10.10.25.153	255.255.0.0	9988		IP CAMERA	Private	00-23-63-6C-C9-E5	V2.1.3-4_1705
POE CH4								
POE CH5								
POE CH6								
POE CH7								
POE CH8								
POE CH9								
POE CH10								
POE CH11								

Click **Search** to search IP cameras from local network, click **Add** to add individual IP camera, click **Add All** to add all IP cameras.



The dialog box for adding a new IP camera. The fields are as follows:

- IP Address/Domain: 192.168.1.151
- Alias: CH17
- Position: Left-Top
- Port: 9988
- Protocol: Private
- User Name: admin
- Password: (Redacted)
- Show Password:
- Bind channel: CH17

At the bottom are 'Search', 'Add', and 'Cancel' buttons.

Click **Search** button to search IP cameras, and then click one of the IP camera in the device list.

IP Address/Domain: IP address or domain name of the IP camera

Alias: Name of the IP camera

Position: Position to display the camera name on the screen.

Port: Port of the IP camera

Protocol: Choose the protocol of the IP camera from the dropdown menu

User Name: User Name of the IP camera

Password: Password of the IP camera

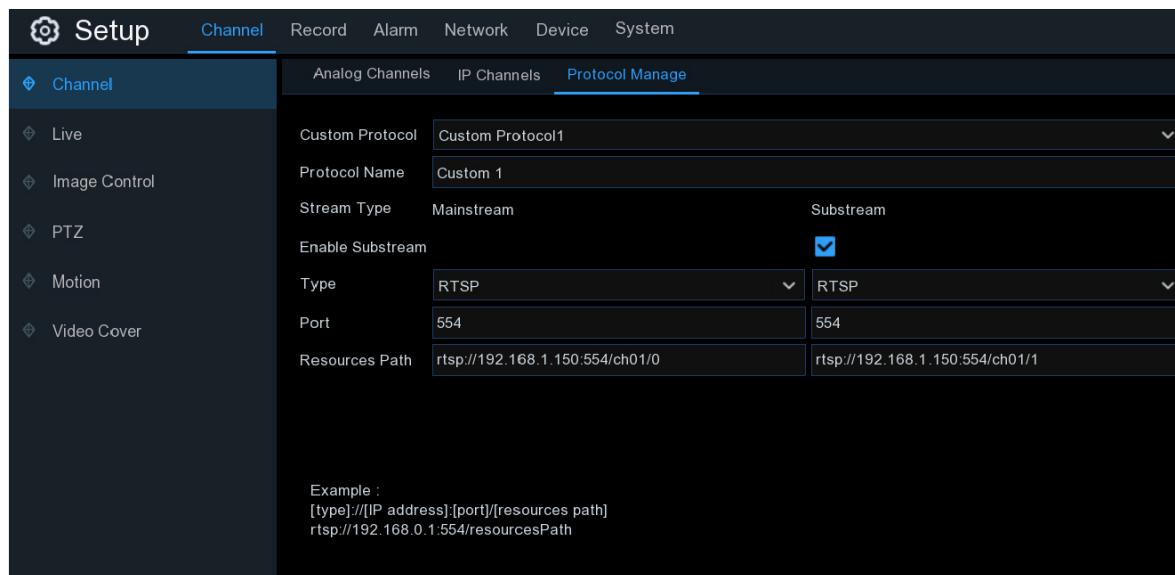
Bind channel: Choose a channel of the NVR you want to attach to

Auto Assign IP to Camera(s): The added IP camera would be not able to connect if its IP address is not in the same network segment with NVR. With this function to reassign an IP address to all added IP cameras.

Channel Delete: Choose one or more added IP cameras, and click this button to delete.

5.1.2 Protocol Manage

With the Protocol Manage, you can edit your own RTSP protocol for IP camera connection.



Custom Protocol: The system supports up to 10 custom protocol options.

Protocol Name: To give a name to your custom protocol.

Enable Substream: Check the box if you want to enable sub-stream.

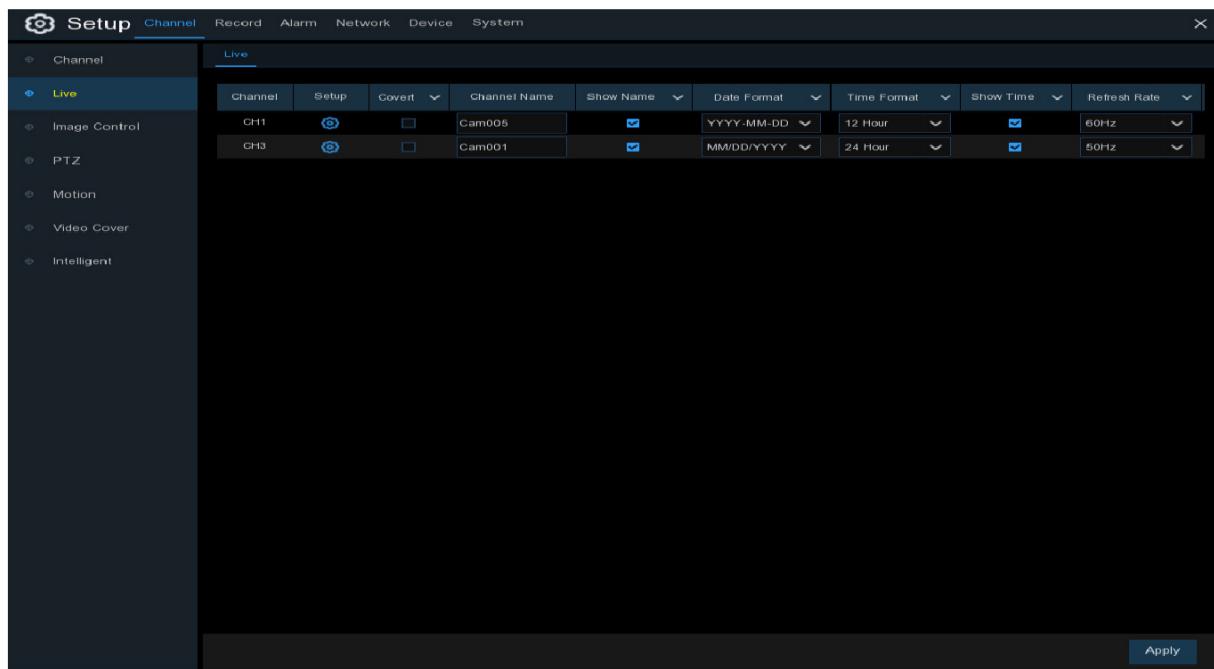
Type: Only RTSP available now.

Port: Input the RTSP port of your IP camera.

Resources Path: Input the RTSP address of your IP camera.

5.1.2 Live

To configure camera parameters.



Channel: Display channel name.

Setup: Click icon into the setup page.

Channel	CH17	Choose a channel to configure.																
Channel Name	IP CH17	Give a name to the camera.																
Date Format	MM/DD/YYYY	Date format to display for the camera (for IP camera only).																
Time Format	24 Hour	Time format to display for the camera (for IP camera only).																
Refresh Rate	50Hz	Refresh Rate of the camera (for IP camera only).																
Camera Type	AUTO	Choose a camera type (Auto, AHD, TVI, CVI) for analogue camera.																
EQ Level	AUTO	Choose an AHD EQ (Enhanced Quality) level depends on your camera video cable.																
<input checked="" type="checkbox"/> Convert		Check the box if you want to hide the live image of this channel.																
<input checked="" type="checkbox"/> Show Name		To show the camera name in live view screen.																
<input checked="" type="checkbox"/> Show Time		To show the system time in live view screen.																
<table border="0"> <tr> <td>HUE</td> <td><input type="range" value="32"/></td> <td>32</td> <td>Adjust the Hue value for the image colour.</td> </tr> <tr> <td>BRIGHT</td> <td><input type="range" value="23"/></td> <td>23</td> <td>Adjust the Bright value for the image colour.</td> </tr> <tr> <td>CONTRAST</td> <td><input type="range" value="27"/></td> <td>27</td> <td>Adjust the Contrast value for the image colour.</td> </tr> <tr> <td>SATURATION</td> <td><input type="range" value="20"/></td> <td>20</td> <td>Adjust the Saturation value for the image colour.</td> </tr> </table>			HUE	<input type="range" value="32"/>	32	Adjust the Hue value for the image colour.	BRIGHT	<input type="range" value="23"/>	23	Adjust the Bright value for the image colour.	CONTRAST	<input type="range" value="27"/>	27	Adjust the Contrast value for the image colour.	SATURATION	<input type="range" value="20"/>	20	Adjust the Saturation value for the image colour.
HUE	<input type="range" value="32"/>	32	Adjust the Hue value for the image colour.															
BRIGHT	<input type="range" value="23"/>	23	Adjust the Bright value for the image colour.															
CONTRAST	<input type="range" value="27"/>	27	Adjust the Contrast value for the image colour.															
SATURATION	<input type="range" value="20"/>	20	Adjust the Saturation value for the image colour.															
Default																		

Click **Default** to load default settings, click **Apply** to save settings, click right buttons of your mouse to exit.

5.1.3 Image Control

This menu allows you to control image settings for supported IP cameras.

Channel	Setup	IR CUT Modo	IR-CUT Delay	Lens Flip	Angle Flip	Angle Trad	BLC Level	3D Noise Reduction	WDR	AGC	White Balance	Time Exposure
CH1	GPIO Auto	2	OFF	OFF	0	OFF	Auto	OFF	Middle	Auto	Auto	
CH3	GPIO Auto	2	OFF	OFF	0	OFF	Disable	OFF	OFF	Auto	Auto	

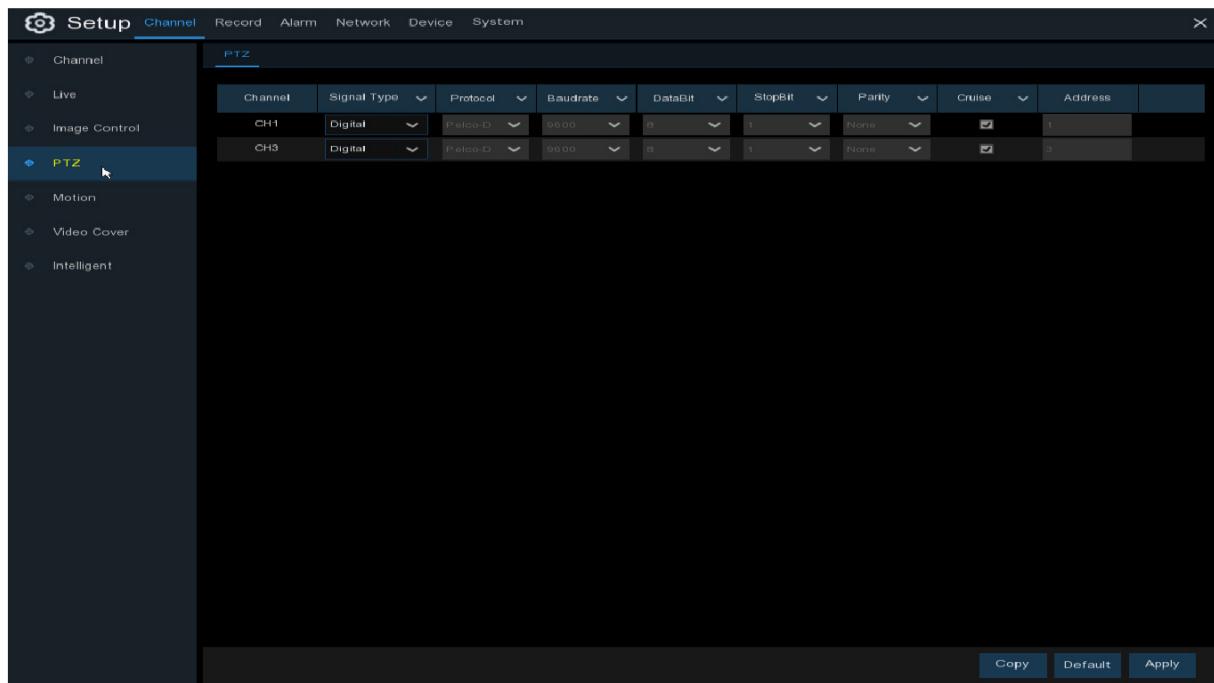
Channel: Channel name.

Setup: Click  icon into the setup page.

Channel	CH17	Choose a channel to configure.
IR-CUT Mode	GPIO Auto	Select the desired built-in IR cut filter mode to ensure the camera works properly both in the day and night.
IR-CUT Delay	2	Set the delay time of IR-CUT switching.
<input checked="" type="checkbox"/> Lens Flip	<input checked="" type="checkbox"/> Angle Flip	Check to enable lens flip and angle flip.
Angle Trad	0	Set the flip angle.
Back Light	Enable	To enable or disable Backlight compensation.
BLC Level	Low	Choose the backlight compensation level.
3D Noise Reduction	Auto	To enable or disable 3D noise reduction function.
Level	128	Set the 3D noise reduction level.
WDR	Enable	Enable to automatically adjust the brightness and contrast of the video when shooting in darkness with bright light sources.
Level	128	Set the WDR level.
AGC	Middle	Automatic Gain Control.
White Balance	Auto	Configure white balance.
Shutter	Auto	Set the shutter mode.
Time Exposure	1/8	Choose the exposure time of the camera.
Defog Mode	Auto	Use in foggy environments to improve the video quality.

5.1.4 PTZ

This menu allows you to configure the PTZ (Pan-Tilt-Zoom) settings for the dome camera.



Channel: Channel name

Signal Type: Digital for IP channels.

Protocol: Choose the communication protocol between the PTZ capable camera and NVR. If your camera support UTC (Up the Coax) function, you can choose COAX1 or COAX2 to display your camera OSD menu or control the UTC PTZ function.

Baudrate: The speed of the information sent from the NVR to the PTZ-capable camera. Make sure it matches the compatibility level of your PTZ-capable camera.

DataBit / StopBit: The information between the NVR and PTZ-capable camera is sent in individual packages. The DataBit indicates the number of bits sent, while the EndBit indicates the end of the package and the beginning of the next (information) package. The available parameters for **DataBit** are: 8, 7, 6, 5. the available parameters for the **StopBit** are 1 or 2.

Parity: For error check. See the documentation of your PTZ-capable camera, to configure this setting.

Cruise: Enable to use the Cruise mode. In order to use the Cruise mode, you need to set a number of preset points.

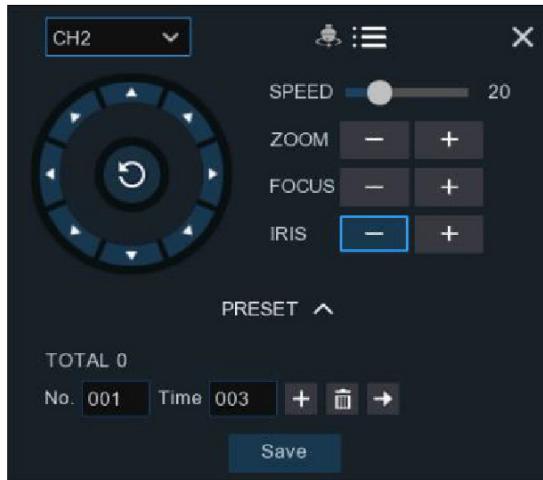
Address: Set the command address of the PTZ system. Please be noted that each PTZ-capable camera needs a unique address to function properly

5.1.4.1 PTZ Control

After finishing the PTZ setup, you can use the PTZ function to control your PTZ camera.

1) Click left your mouse upon a channel on Live Viewing screen to open Camera Quick Toolbar, and choose the PTZ control icon .

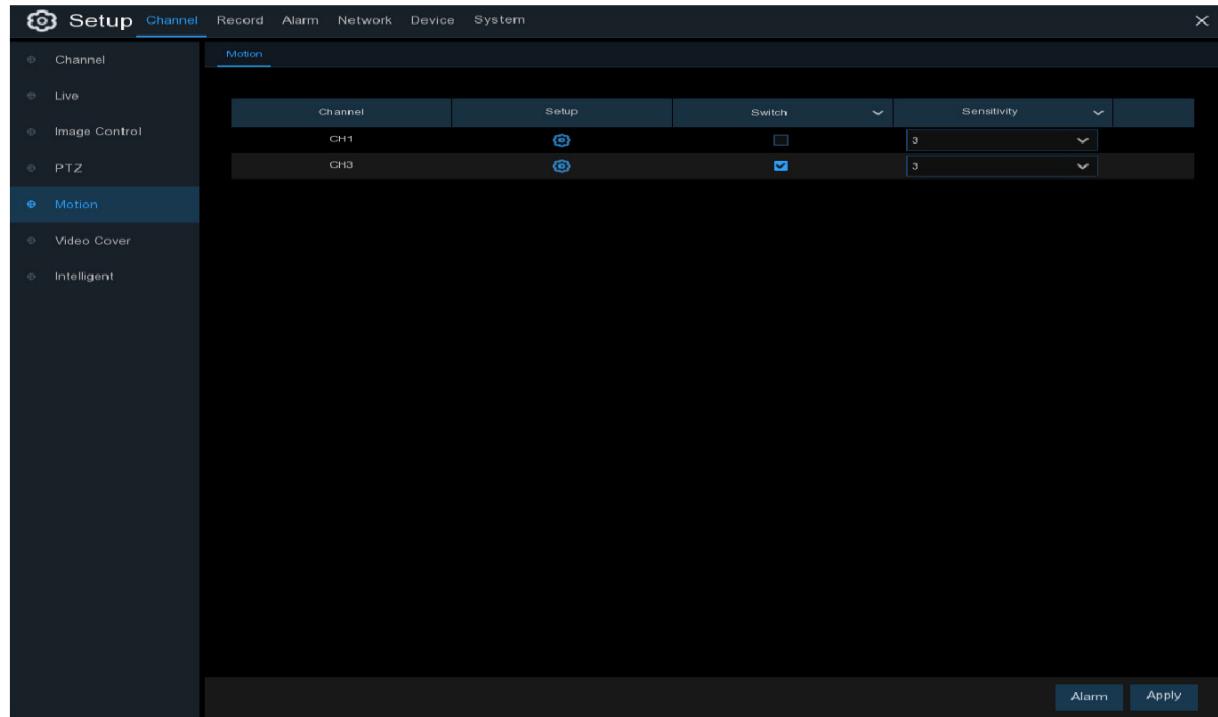
2) PTZ control panel will be displayed.



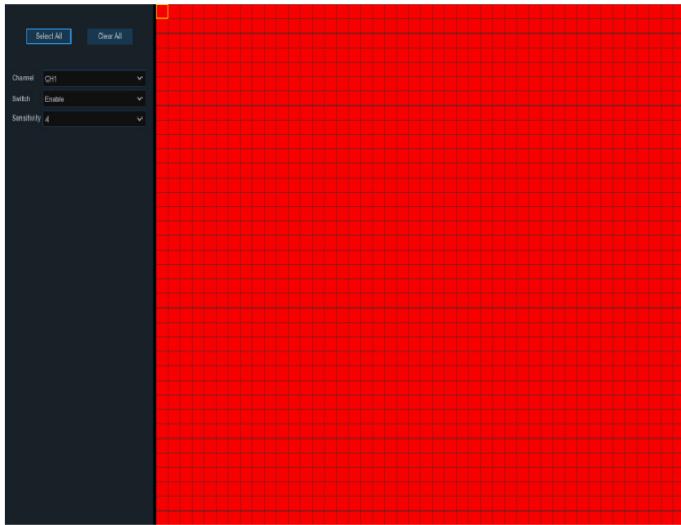
No.	Icon	Item	Description
1		Channel	Click to select the channel of the PTZ camera.
2		Cruise	Start/stop PTZ cruise by preset points. Make sure you had enable the Cruise function for this channel in 5.1.4 PTZ.
3		UTC Menu	If you have chosen protocol for this channel as COAX1 or COAX2, the UTC menu button will be displayed. Click this icon to enter UTC OSD menu. It is also the confirm button for your selection in the UTC OSD menu.
4	Speed	Speed	Adjust the PTZ speed.
5		Pointer Panel	A) Click the direction arrow to select the direction of the PTZ camera B) Click up/down/left/right arrow to move cursor in UTC OSD menu C) Click  to switch to auto pan mode
6	-ZOOM+	Zoom	Click to zoom in/out.
	-FOCUS+	Focus	Click to adjust the focus.
	-IRIS+	Iris	Click to adjust the iris setting.
7		Preset	To display or hide the preset point panel.
8	Total	Total	Display the total number of preset points.
9	No.	No.	Number of preset point.
10	Time	Time	Set the time how long the camera will stay in the preset point.
11	Save	Save	Click to save the settings and preset points.
12		Set	Enter the number of a specific preset point, click this button to move your PTZ camera to the preset point.
13		Delete	Click to delete the selected preset point.
14		Go to	Click to set a specific preset point on a PTZ camera. You can add up to 255 preset points for the NVR.

5.1.5 Motion

This menu allows you to configure motion parameters. When motion has been detected by one or more cameras, your NVR will alert you to a potential threat at your home. It does this by sending you an email alert with an attached image from the camera to use as a reference (if this option is enabled) and/or sending push notifications via the mobile app.



Setup: Click  icon into the setup page.



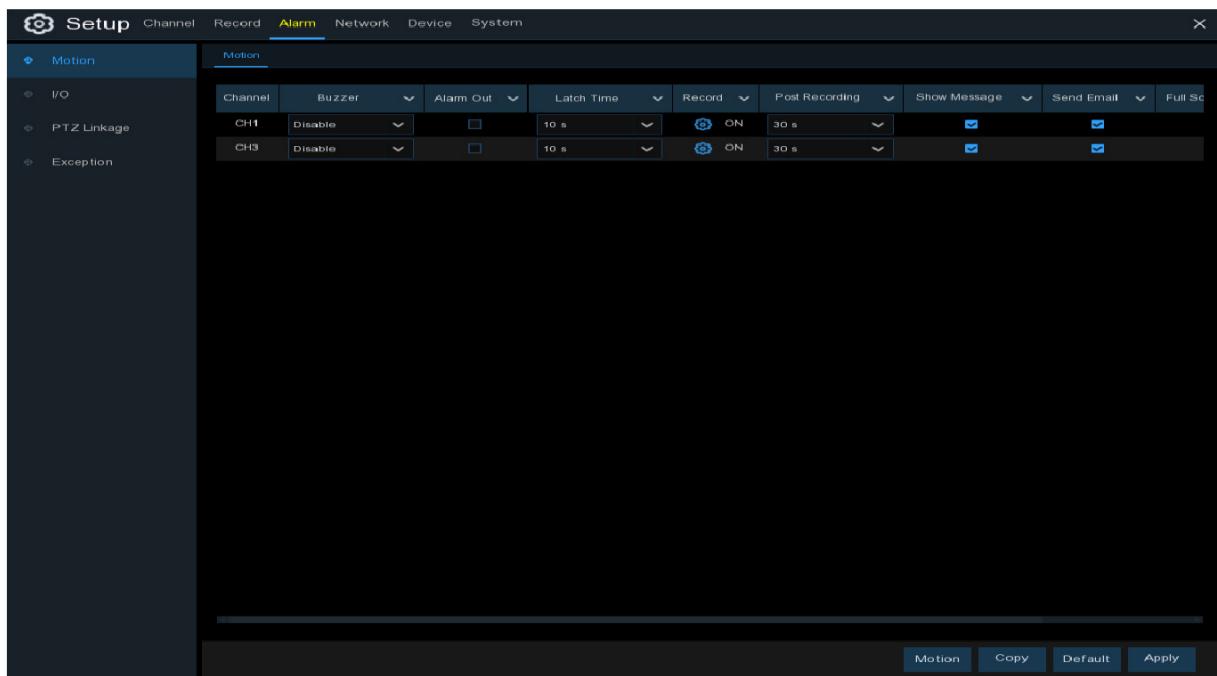
Motion Detection Area: The whole screen is marked for motion detection (red blocks) as default. If you want to disable the motion detection on a certain area, click the grid cursor and then drag the mouse to highlight the scope to unmark the area into transparent blocks. After setting is completed, click the right button of your mouse to return and click **Save** to make the area setup effective.

Switch: Enable or disable motion detection.

Sensitivity: Set the sensitivity level. Level 1 the lowest sensitivity level while level 8 is the highest sensitivity level.

5.1.6 Alarm

Click **Alarm** button to configure the motion detection alarm function:



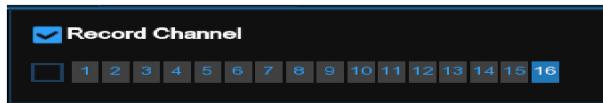
Channel: Channel name

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the motion is detected.

Alarm Out: Not supported

Latch Time: Not supported.

Record: Click icon and choose which channel(s) you want to record when the motion detection is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

Show Message: Check the box to display  icon on the live view screen when the motion is detected.

Send Email: You can let the NVR to send you an auto-email when the motion is detected.

Full Screen: If this function is enabled and a motion is detected in a channel, you will see that channel in full screen.

FTP Upload: To upload alarm images to FTP server when motion is detected. To enable FTP, please view [5.4.4 FTP](#).

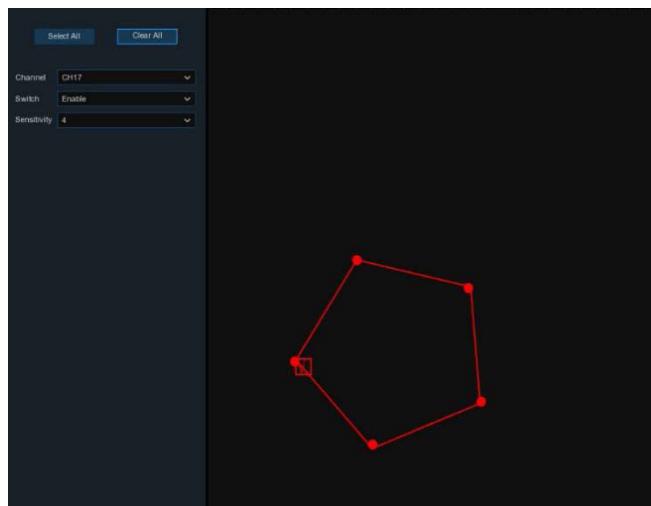
5.1.7 PIR

Channel	Setup	Switch	Sensitivity
CH1	⊕	<input checked="" type="checkbox"/>	4
CH2	⊕	<input checked="" type="checkbox"/>	4
CH3	⊕	<input checked="" type="checkbox"/>	4
CH4	⊕	<input checked="" type="checkbox"/>	4

Switch: Enable or disable PIR recording.

Sensitivity: Set the sensitivity level. Level 1 is the lowest sensitivity level while level 8 is the highest sensitivity level.

Setup: Click  icon into the setup page.



PIR Detection Area:

Click **Select All** to set the whole screen of the camera as PIR detection area. Click **Delete All** to clear the area.

You can also set an area in the screen by drawing a pentagon in the screen.

If you want to edit the size of the area, please check the box and change the position.

After setting is completed, click the right button of your mouse to return and click **Save** to make the area setup effective.

Click **Alarm** button to configure the motion detection alarm function:

Channel	Buzzer	Alarm Out	Latch Time	Record	Post Recording	Show Message	Send Email	Full Screen
CH1	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH2	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH3	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH4	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH5	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH6	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH7	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
CH8	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IP CH1	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IP CH4	Disable	<input type="checkbox"/>	10 s	<input checked="" type="checkbox"/> ON	30 s	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Copy **Default** **Save**

Buzzer: The NVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when the PIR is detected.

Alarm Out: NVR does not support this function

Latch Time: To configure the external alarm time when PIR detection is triggered.

Record: Click  icon and choose which channel(s) you want to record when the PIR detection is triggered.



Post Recording: You can set how long after an event occurs that the NVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

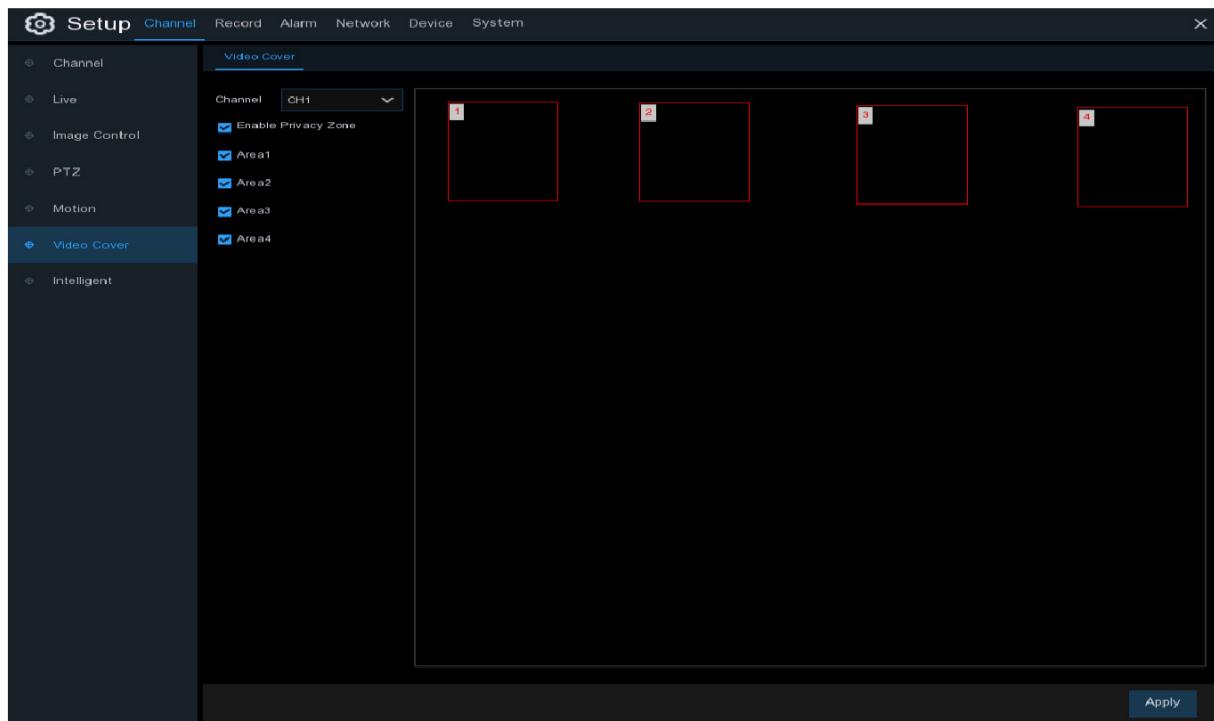
Show Message: Check the box to display PIR on the live view screen when the PIR alarm is detected.

Send Email: You can set the NVR to send you an auto-email when PIR detection is triggered.

Full Screen: If this function is enabled and PIR is detected in a channel, you will see that channel in full screen.

5.1.8 Video Cover

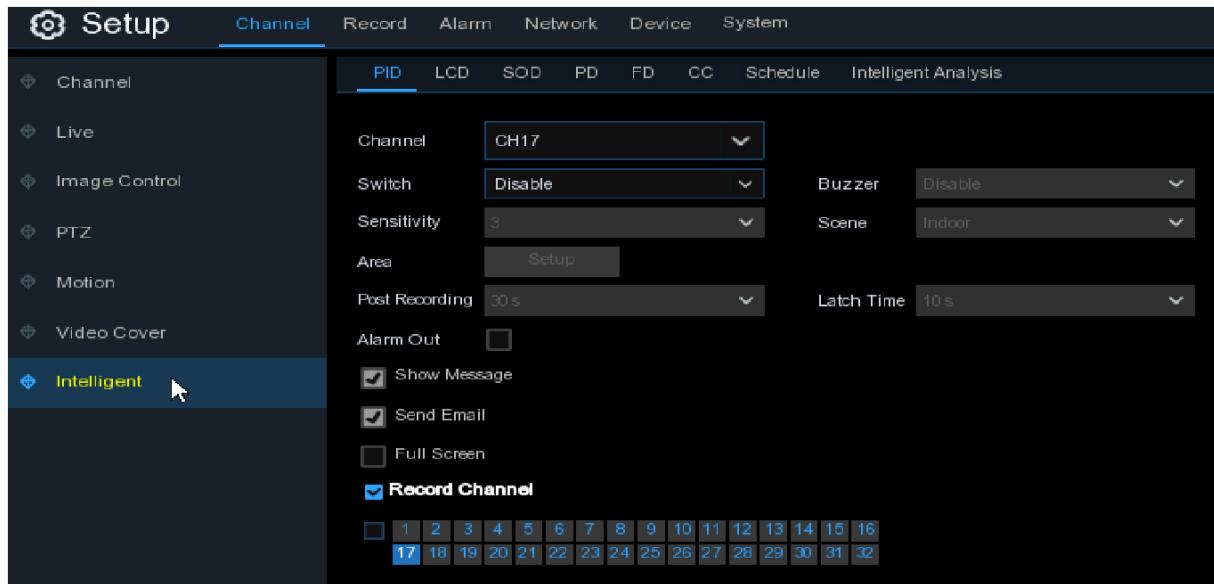
This menu allows you to create privacy zone(s) if you want to partially cover some certain part of the image. You can create up to 4 privacy zones in any size and location on the camera image. Enable the Privacy Zone, and choose how many zones you need. The zone(s) appear as “red box”. Click the edge of the red box and drag it to any size to create a privacy zone.



Note: The area of privacy zones you had set will be invisible in both live view & recording video.

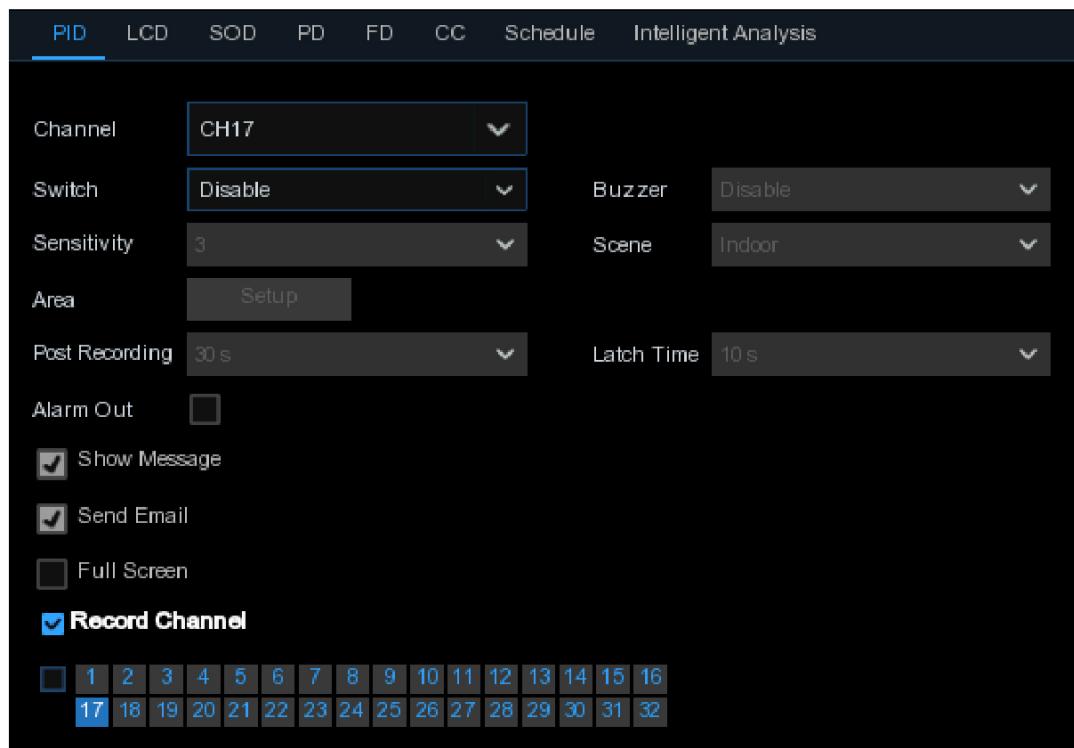
5.1.9 Intelligent

The optional intelligent functions, including Perimeter Intrusion Detection, Line Crossing Detection, Stationary Object Detection, Pedestrian Detection, Face Detection, and Cross Counting.



5.1.9.1 PID (Perimeter Intrusion Detection)

Perimeter Intrusion Detection function detects people, vehicles or other objects which enter and loiter in a predefined virtual region, and some certain actions can be taken when the alarm is triggered.



Channel: Select the channel you want to configure

Switch: Enable or disable the PID function

Buzzer: Disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Sensitive: The sensitivity level is from 1 to 4. Higher sensitivity will be easier to trigger the detection.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera is installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: Not supported.

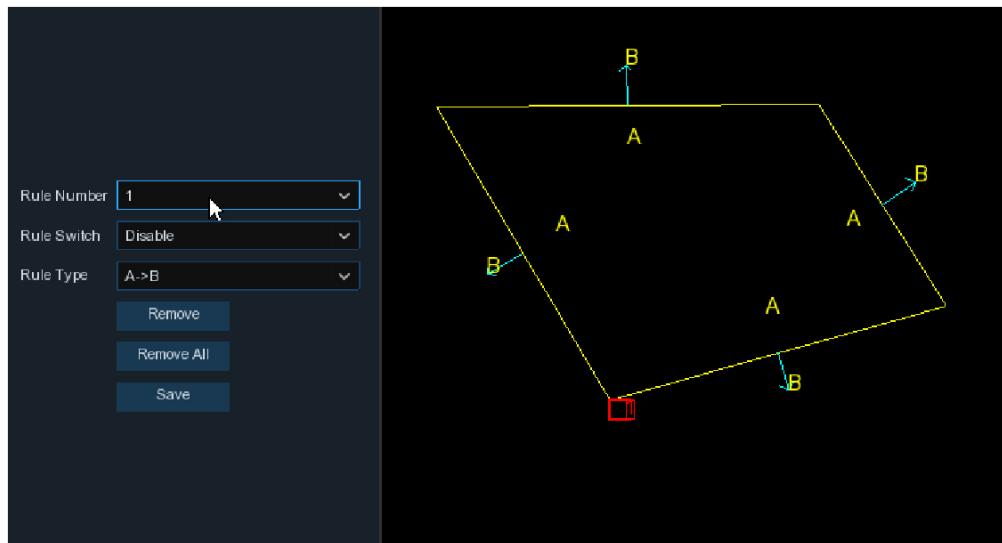
Alarm Out: Not supported.

Show Message: A letter “S” will be displayed on the screen when the PID function is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered. Area: Click **[Setup]** to draw a virtual region in the camera picture.



1. Choose one of the Rule Number. It is the number of PID area. Maximum 4 areas you can set for PID function.
2. To enable the detection in Rule Switch.
3. Choose a Rule Type.
A>B: NVR will only detect the action from side A to side B;
B>A: NVR will only detect the action from side B to side A;
A<>B: NVR will detect the action from either side B to side A or side A to side B.
4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
5. Click **Save** to save your settings.
6. If you want to modify the position or sharp of region, click the red box in the region, the borders of the region will be changed to red colour. Long press the left button of your mouse to move the position of the region, or drag the corners to resize the region.
7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

Note:

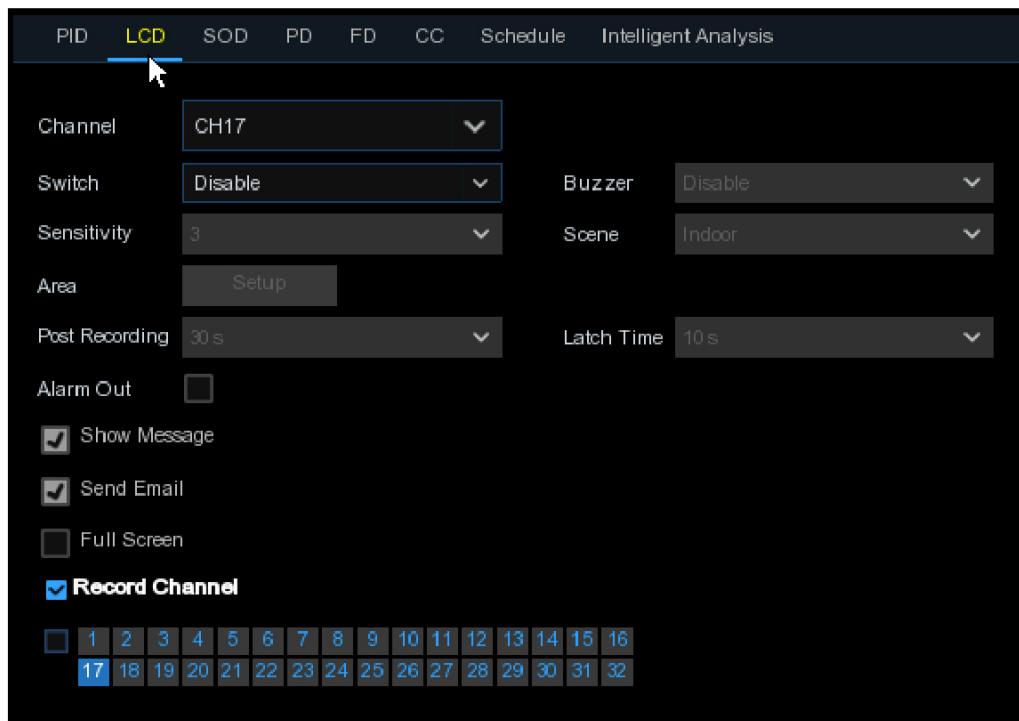
- 1) The perimeter shall not be too close to the edges/corners of the camera picture, since it may fail to trigger the detection when the target pass through the edges/corners.

2) The shape of the regions shall not be too narrow/small, since it may fail to trigger the detection when the target passes through outside the perimeter.



5.1.9.2 LCD (Line Crossing Detection)

Line Crossing Detection function detects people, vehicles or other objects which cross a pre-defined virtual line, and some certain actions can be taken when the alarm is triggered.



Channel: Select the channel you want to configure

Switch: Enable or disable the LCD function

Buzzer: Disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Sensitive: The sensitivity level is from 1 to 4. Higher sensitivity will be easier to trigger the detection.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: Not supported.

Alarm Out: Not supported.

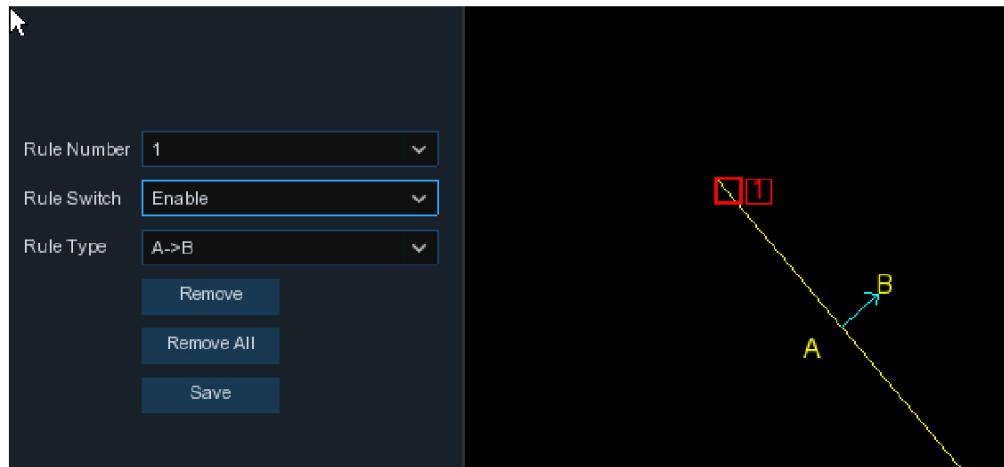
Show Message: A letter “S” will be displayed on the screen when the LCD function is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered.

Area: Click **[Setup]** to draw a virtual line in the camera picture.



1. Choose one of the Rule Number. It is the number of LCD lines. Maximum 4 lines you can draw.

2. To enable the detection in **Rule Switch**.

3. Choose a **Rule Type**.

A>B: NVR will only detect the action from side A to side B;

B>A: NVR will only detect the action from side B to side A;

A<>B: NVR will detect the action from either side B to side A or side A to side B.

4. Use your mouse to click 2 points in the camera picture to draw a virtual line.

5. Click **Save** to save your settings.

6. If you want to modify the position or length of the line, click the red box in the line, the colour of the line will be changed to red colour. Long press the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.

7. If you want to remove one of the lines from the camera picture, click the red box in the line and then click **Remove** button. Click **Remove All** will delete all lines.

Note:

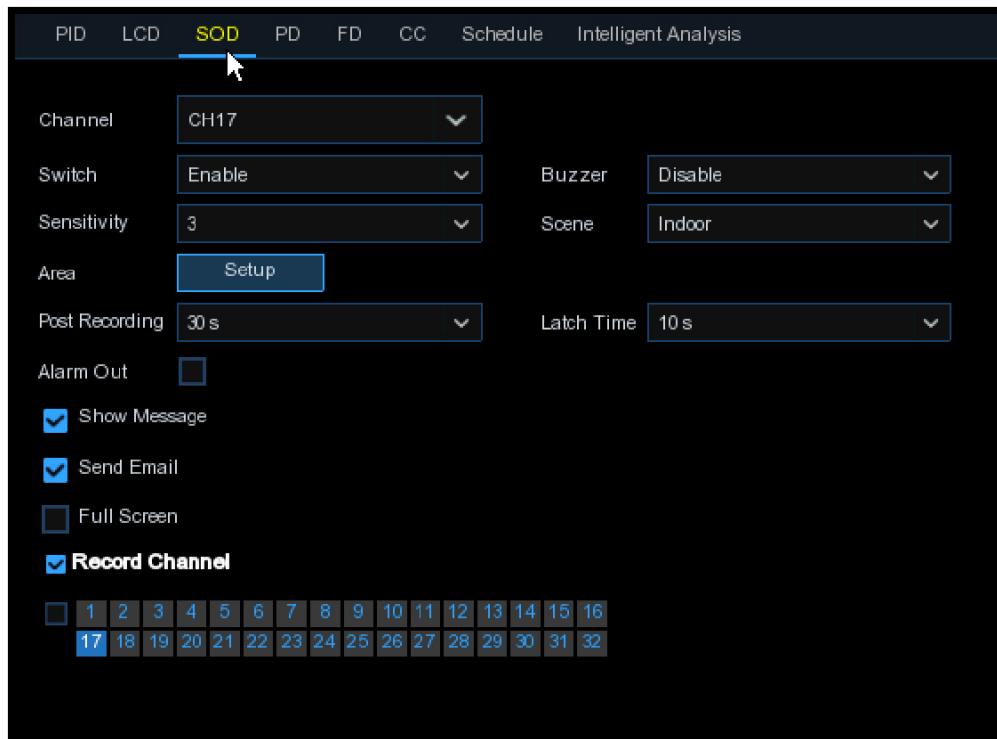
1) The lines shall not be too close to the edges of the camera picture, to avoid any failure to trigger an alarm when the target cross through it.

2) The lines shall not be set too short, to avoid any failure to trigger an alarm when the target passes outside it.



5.1.9.3 SOD (Stationary Object Detection)

Stationary Object Detection function detects if objects are left over in the pre-defined region such as the baggage, purse, dangerous materials, etc., and a series of actions can be taken when the alarm is triggered.



Channel: to select the channel you want to configure

Switch: to enable or disable the SOD function

Buzzer: to disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Sensitive: The sensitivity level is from 1 to 4, with a default value of 2. Higher sensitivity will be easier to trigger the detection.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: Not supported.

Alarm Out: Not supported.

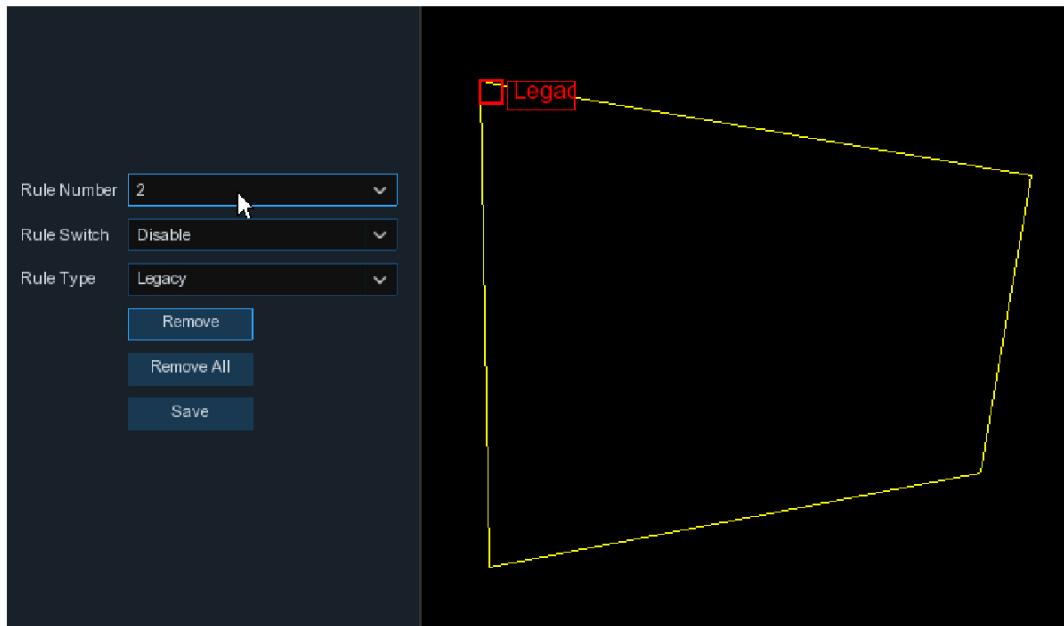
Show Message: A letter “S” will be displayed on the screen when the intelligent detection is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered.

Area: Click **[Setup]** to draw a virtual region in the camera picture.



1. Choose one of the Rule Number. It is the number of SOD area. Maximum 4 areas you can set for SOD function.

2. To enable the detection in **Rule Switch**.

3. Choose a **Rule Type**.

Legacy: NVR will only detect the left-over objects;

Lost: NVR will only detect the lost objects;

Legacy & Lost: NVR will detect both left-over & lost objects.

4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The shape of the region should be a convex polygon.

5. Click **Save** to save your settings.

6. If you want to adjust the size of the region, click the red box in the region, the borders of the region will change to a red colour. Long press the left button of your mouse to move the whole region, or drag the corners to resize the region.

7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

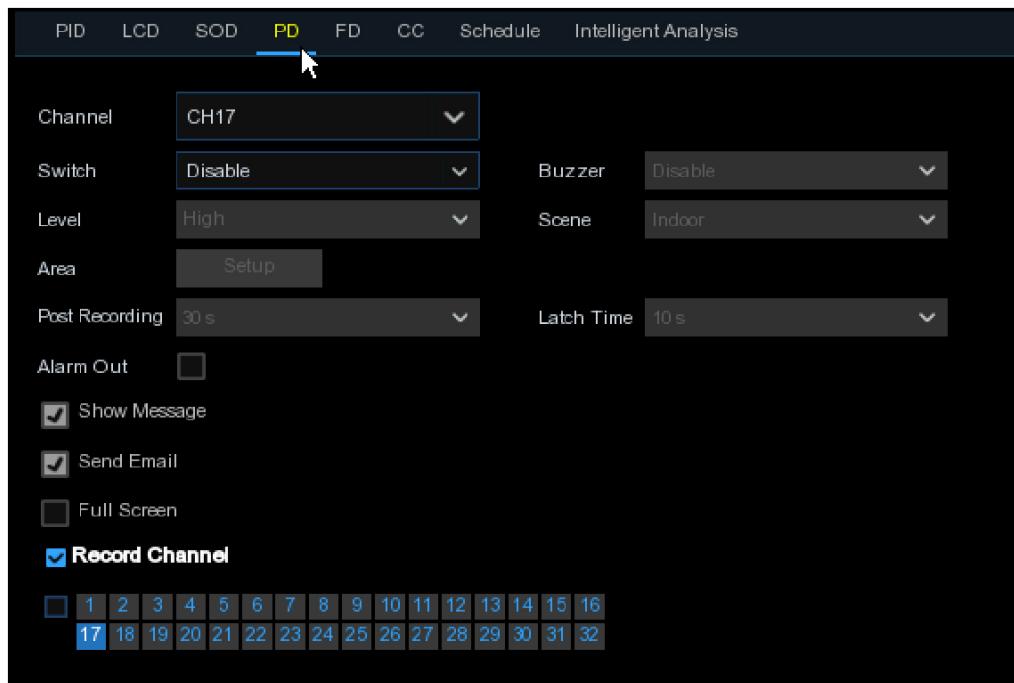
Note:

- 1) The area for detection shall be greater than or equal to the size of the detected object, such as the detection of the white bottle in this example.
- 2) The detected object cannot be covered.



5.1.9.4 PD (Pedestrian Detection)

Pedestrian Detection function detects moving people in a pre-defined region, and a series of actions can be taken when the alarm is triggered.



Channel: to select the channel you want to configure

Switch: to enable or disable the PD function

Buzzer: to disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Level: Small, Middle & Big. Small level is recommended for detecting objects at a distance. Big level is recommended for detecting objects that are close.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: Not supported.

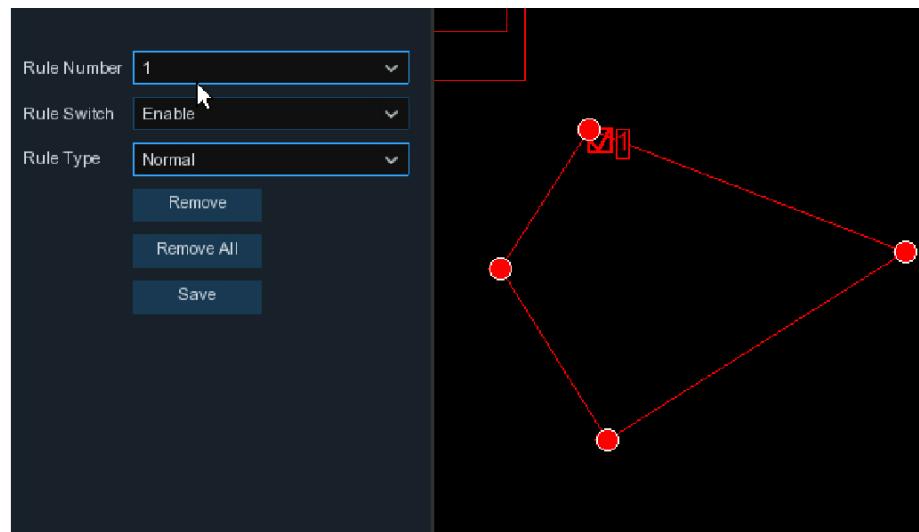
Alarm Out: Not supported.

Show Message: A letter “S” will be displayed on the screen when the intelligent detection is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered. Area: Click **[Setup]** to draw a virtual region in the camera picture.



1. Choose one of the Rule Number. It is the number of PD area. Maximum 4 areas you can set for PD function.
2. To enable the detection in Rule Switch.
3. Choose a Rule Type, only Normal available for this detection.
4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
5. Click **Save** to save your settings.
6. If you want to adjust the size of the region, click the red box in the region, the borders of the region will be changed to red colour. Long press the left button of your mouse to move the whole region, or drag the corners to resize the region.
7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

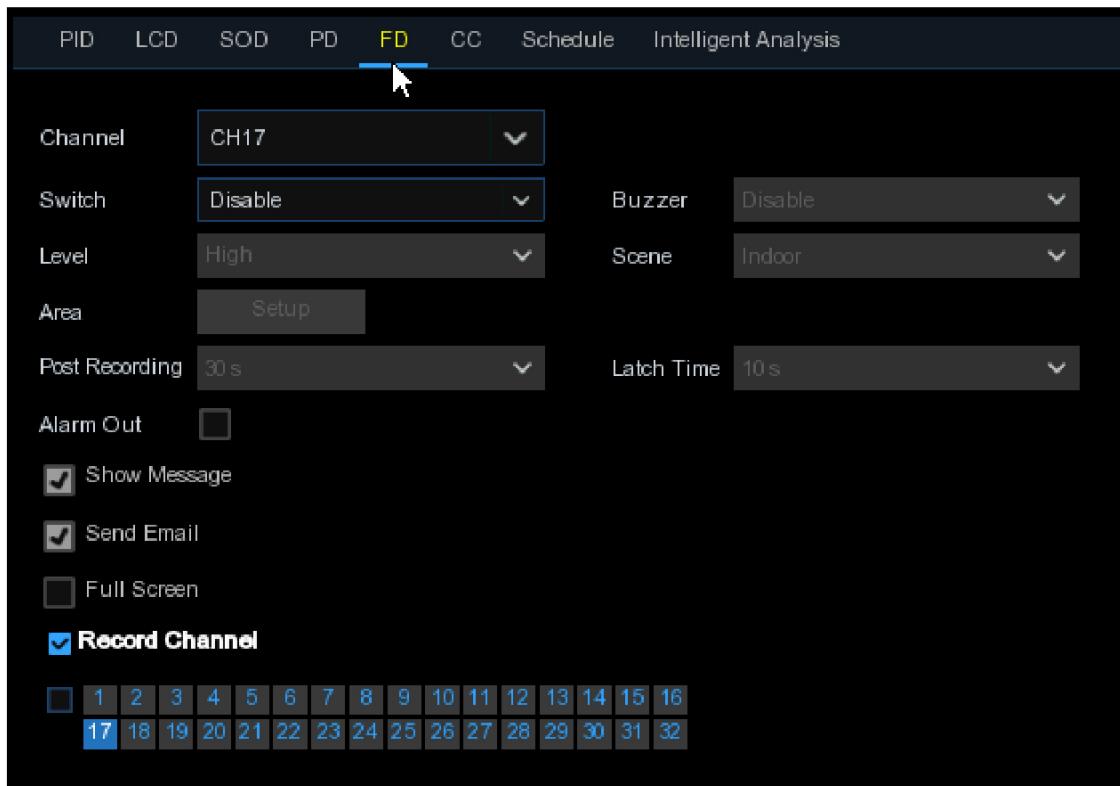
Note:

- 1) The region for detection should not be in the area that people cannot reach.
- 2) The detected people should be completely surrounded in the region.



5.1.9.5 FD (Face Detection)

Face Detection function detects the faces of moving people appear in a pre-defined region, and a series of actions can be taken when the alarm is triggered.



Channel: to select the channel you want to configure

Enable: to enable or disable the FD function

Buzzer: to disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Level: Small, Middle & Big. Small level is recommended to detect objects in long distance. Big level is recommended to detect objects in short distance.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: Not supported.

Alarm Out: Not supported.

Show Message: A letter “S” will be displayed on the screen when the intelligent detection is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

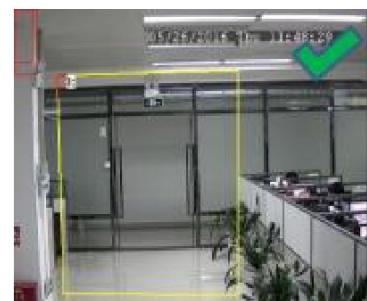
Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered. Area: Click [Setup] to draw a virtual region in the camera picture.

1. Choose one of the Rule Number. It is the number of FD area. Maximum 4 areas you can set for FD function.
2. To enable the detection in Rule Switch.
3. Choose a Rule Type, only Normal available for this detection.
4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
5. Click **Save** to save your settings.
6. If you want to adjust the size of the region, click the red box in the region, the borders of the region will be changed to red colour. Long press the left button of your mouse to move the whole region, or drag the corners to resize the region.
7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

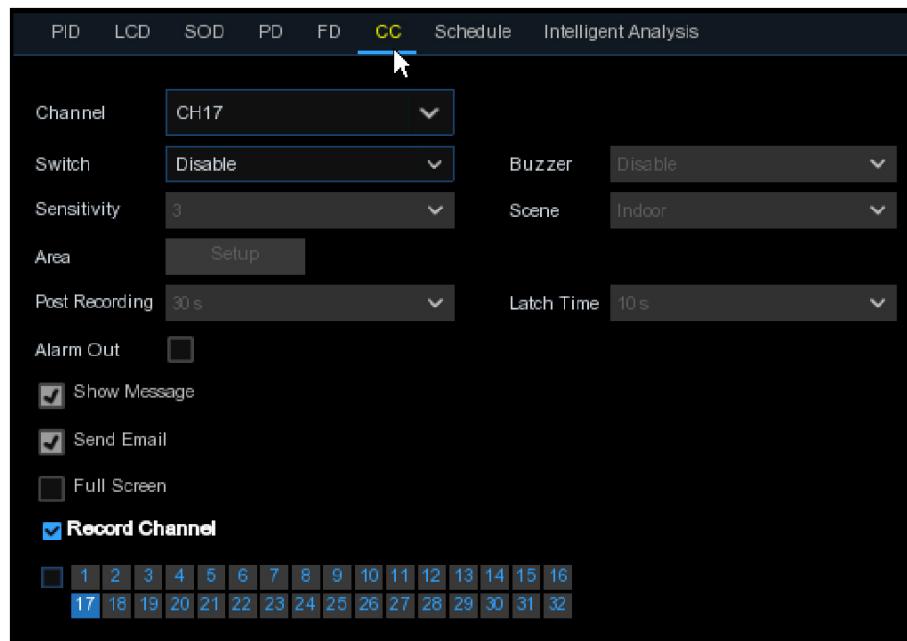
Notice:

- 1) The region for detection should not be in the area that people cannot reach.
- 2) The region should include the complete front face.



5.1.9.6 CC (Cross-Counting)

Cross-Counting function counts the times for moving objects or people across the virtual lines.



Channel: to select the channel you want to configure

Switch: to enable or disable the CC function

Buzzer: to disable or to active the buzzer to emit an alarm tone in 10, 20, 40 or 60 seconds when the detection is triggered

Sensitive: The sensitivity level is from 1 to 4, with a default value of 2. Higher sensitivity will be easier to trigger the detection.

Scene: Scene setting includes Indoor and Outdoor. Please choose the scene to match with the place your camera installed.

Post Recording: You can set how long after an event occurs that the NVR will continue to record.

Latch Time: Not supported.

Alarm Out: Not supported.

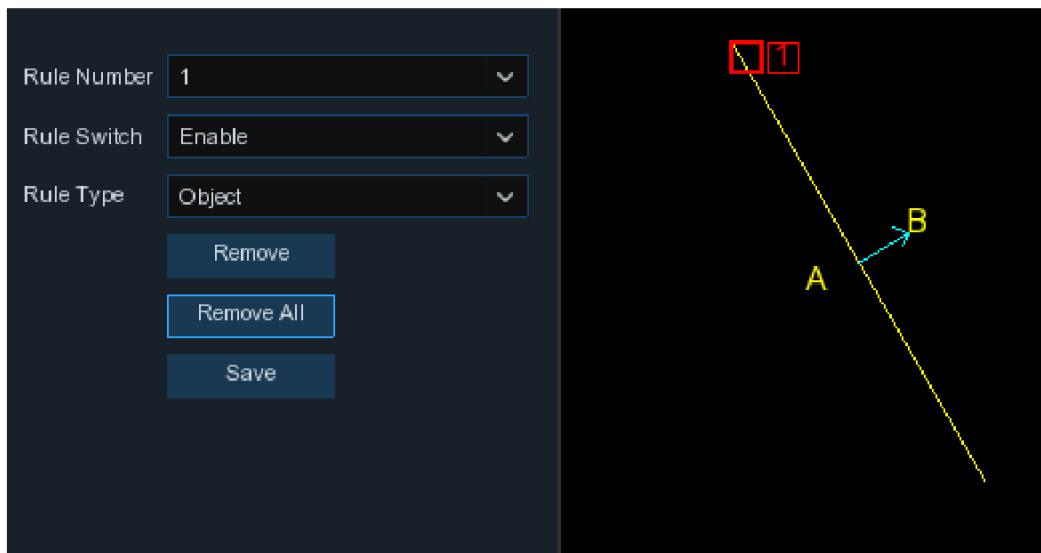
Show Message: A letter "S" will be displayed on the screen when the intelligent detection is triggered.

Send Email: If an alarm is triggered, an Email will be sent to your preset email account.

Full Screen: When the detection is triggered, the channel will be enlarged into full screen.

Record Channel: to select the channel(s) you want to record when a detection is triggered.

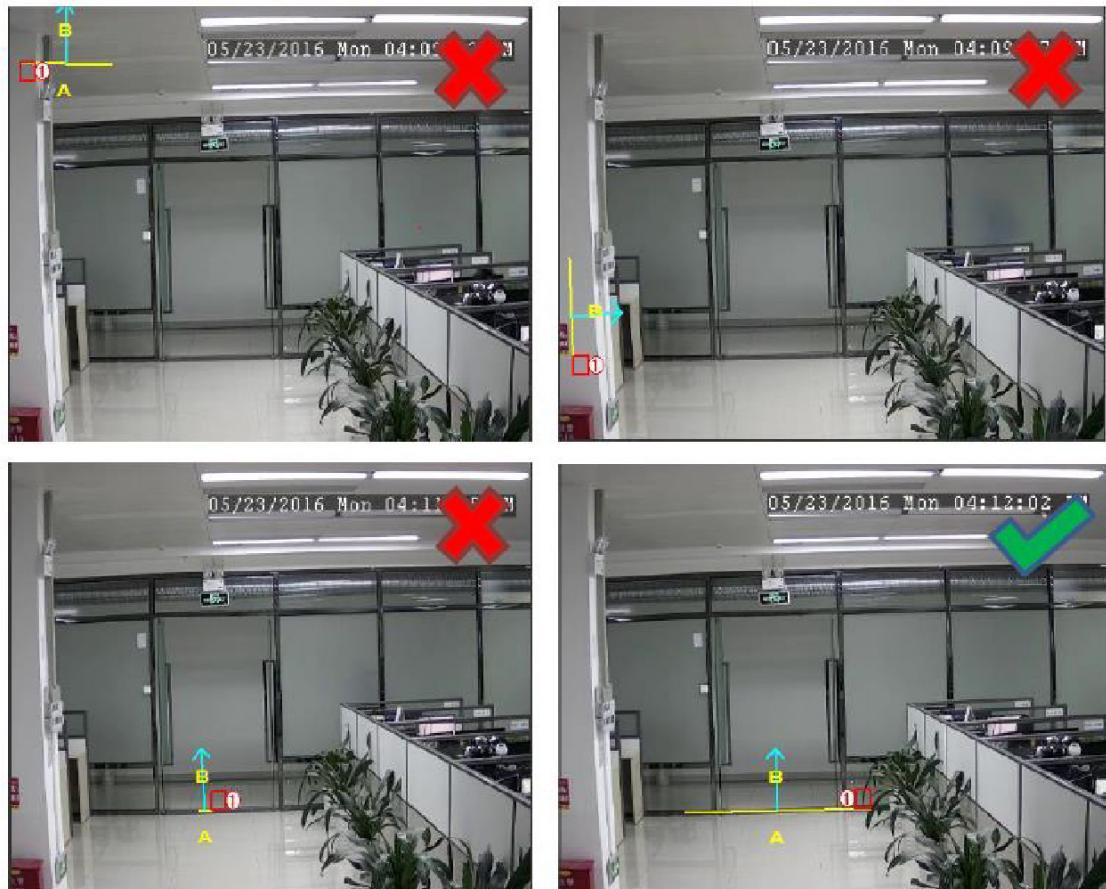
Area: Click [Setup] to draw a virtual region in the camera picture.



1. Choose one of the Rule Numbers, which is the number of virtual lines you can draw. Maximum 4 lines.
2. To enable the detection in **Rule Switch**.
3. Choose a Rule Type
Object: Will count for only moving objects.
Pedestrian: Will count only moving people.
4. Use your mouse to click 2 points in the camera picture to draw a virtual line.
From Side A to Side B is Enter, from Side B to Side A is Exit.
5. Click **Save** to save your settings.
6. If you want to modify the position or length of the line, click the red box in the line, the colour of the line will be changed to red colour. Long press the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.
7. If you want to remove one of the lines from the camera picture, click the red box in the line and then click **Remove** button. Click **Remove All** will delete all lines.

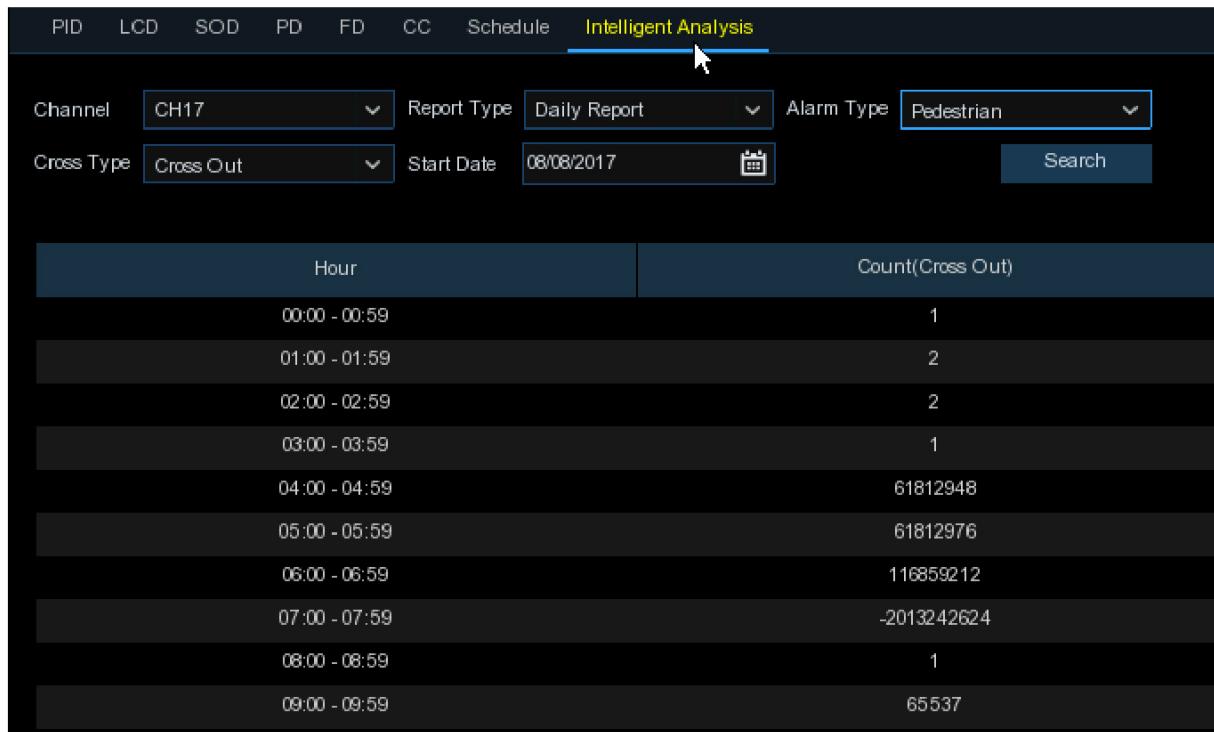
Note:

- 1) The lines should not be too close to the edges of the camera picture, to avoid any failure to trigger an alarm when the target cross through it.
- 2) The lines should be in the area that detected object can be reach.
- 3) The lines should not be set too short, to avoid any failure to trigger an alarm when the target passes outside it.



You are able to search & view the statistical result of cross counting in **5.1.8.7 Intelligent Analysis**.

5.1.9.7 Intelligent Analysis

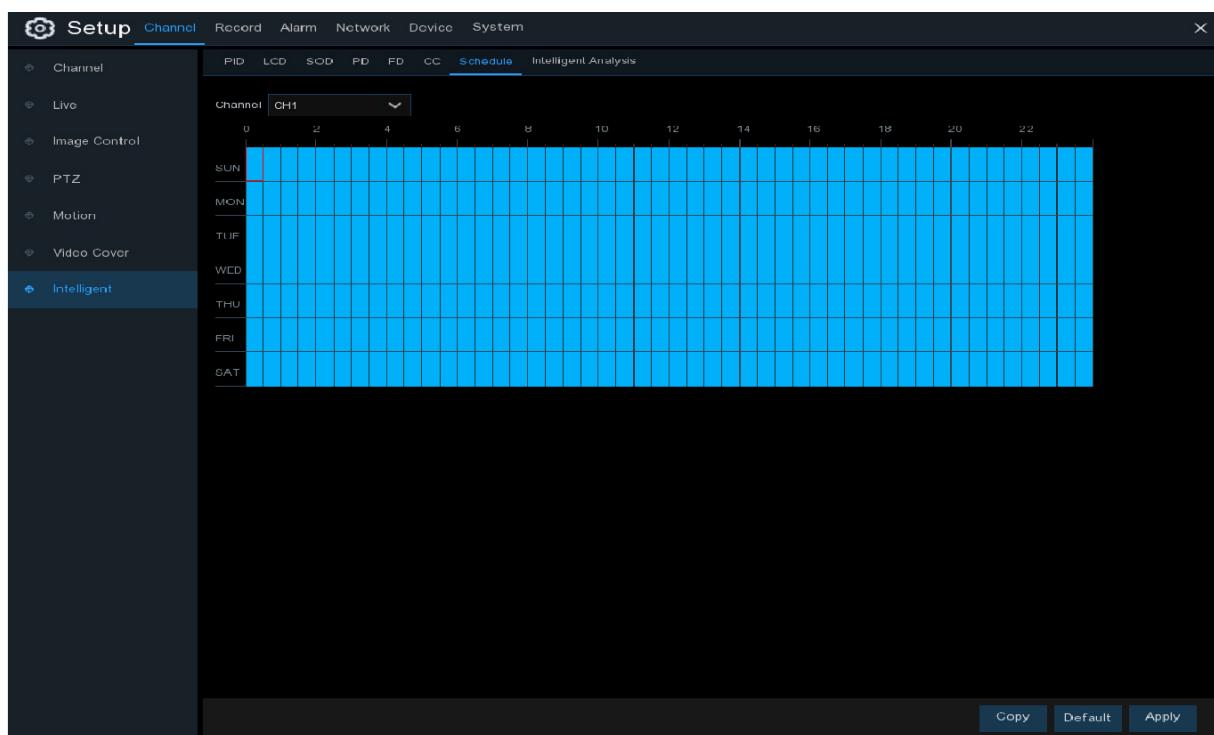


The screenshot shows the 'Intelligent Analysis' tab selected in a top navigation bar. Below the bar are several search and filter fields: 'Channel' (CH17), 'Report Type' (Daily Report), 'Alarm Type' (Pedestrian), 'Cross Type' (Cross Out), 'Start Date' (08/08/2017), and a 'Search' button. The main content is a table with two columns: 'Hour' and 'Count(Cross Out)'. The data shows the following counts for different hour intervals:

Hour	Count(Cross Out)
00:00 - 00:59	1
01:00 - 01:59	2
02:00 - 02:59	2
03:00 - 03:59	1
04:00 - 04:59	61812948
05:00 - 05:59	61812976
06:00 - 06:59	116859212
07:00 - 07:59	-2013242624
08:00 - 08:59	1
09:00 - 09:59	65537

The statistical result can be queried by Daily / Weekly / Monthly / Annual for Cross In & Cross Out.

5.1.9.8 Intelligent Schedule



The screenshot shows the 'Schedule' tab selected in a top navigation bar. On the left is a sidebar with navigation links: Channel, Live, Image Control, PTZ, Motion, Video Cover, and Intelligent (which is currently selected). The main area displays a weekly grid for channel CH1. The grid has days of the week (SUN, MON, TUE, WED, THU, FRI, SAT) on the y-axis and hours (0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22) on the x-axis. The grid cells are solid blue, indicating scheduled events. At the bottom right are buttons for 'Copy', 'Default', and 'Apply'.

In order to active the intelligent function, you need to config the schedule.
The schedule will be active in 24 hours x 7 days.

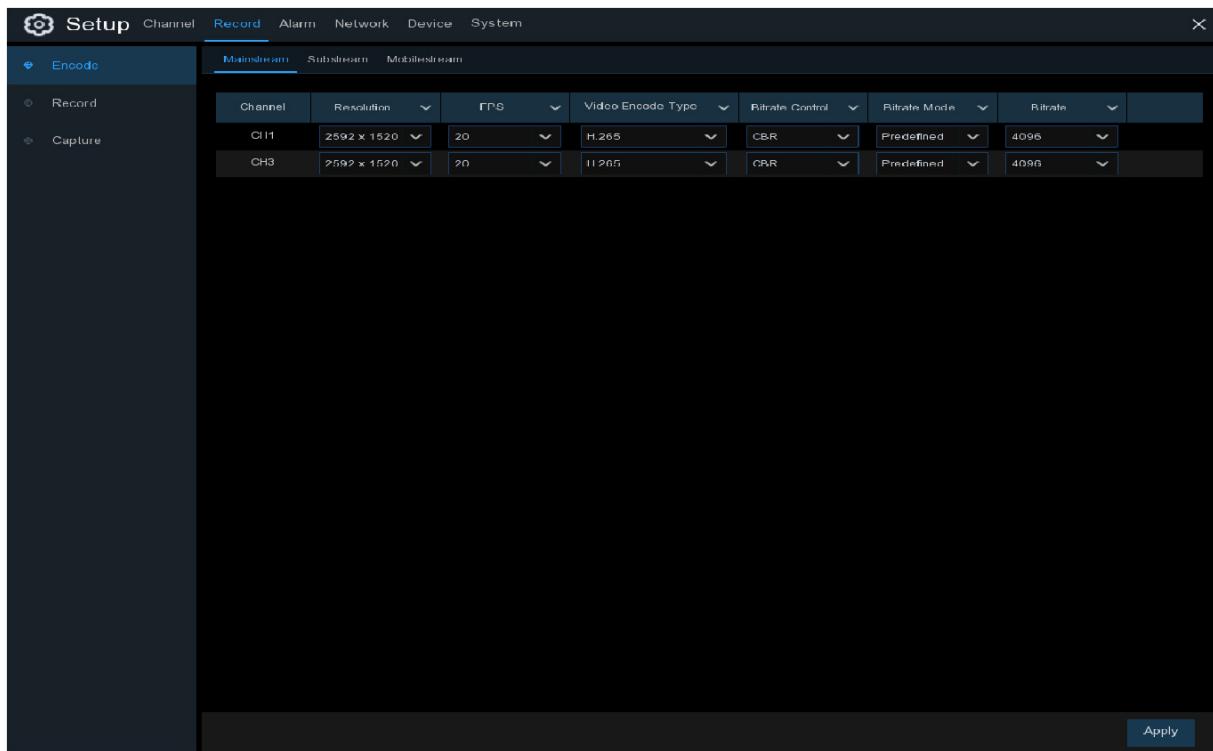
To set the schedule, choose one channel then drag the cursor to mark the slots. The sky-blue blocks in the time slots will be active for Intelligent detections. The schedule is valid only for the selected channel each time when you set. If you want to use the same schedule for other channels, use the Copy function. Click **Save** to save your settings.

5.2 Record

This menu allows you to configure the recording parameters

5.2.1 Encode

This menu allows you to configure the recording video or network transmission picture quality. Generally, Mainstream defines the recording video quality, which will be saved in the HDD; Substream defines the video quality which is being viewed via remote access, for example web client & CMS; Mobilestream defines the video quality which is being viewed via remote access via mobile devices.



Resolution: This parameter defines how large the recorded image will be.

FPS: This parameter defines the number of frames per second the NVR will record.

Video Encode Type: For IP camera only. NVR support H.264 IP camera only. If you choose H.265, live view screen of the IP channel will display “**Decoding Failed**”.

Bitrate Control: Select the bitrate level.

For a simple scene, such as a grey wall, select constant bitrate (CBR).

For more complex scene, such as a busy street, select variable bitrate (VBR).

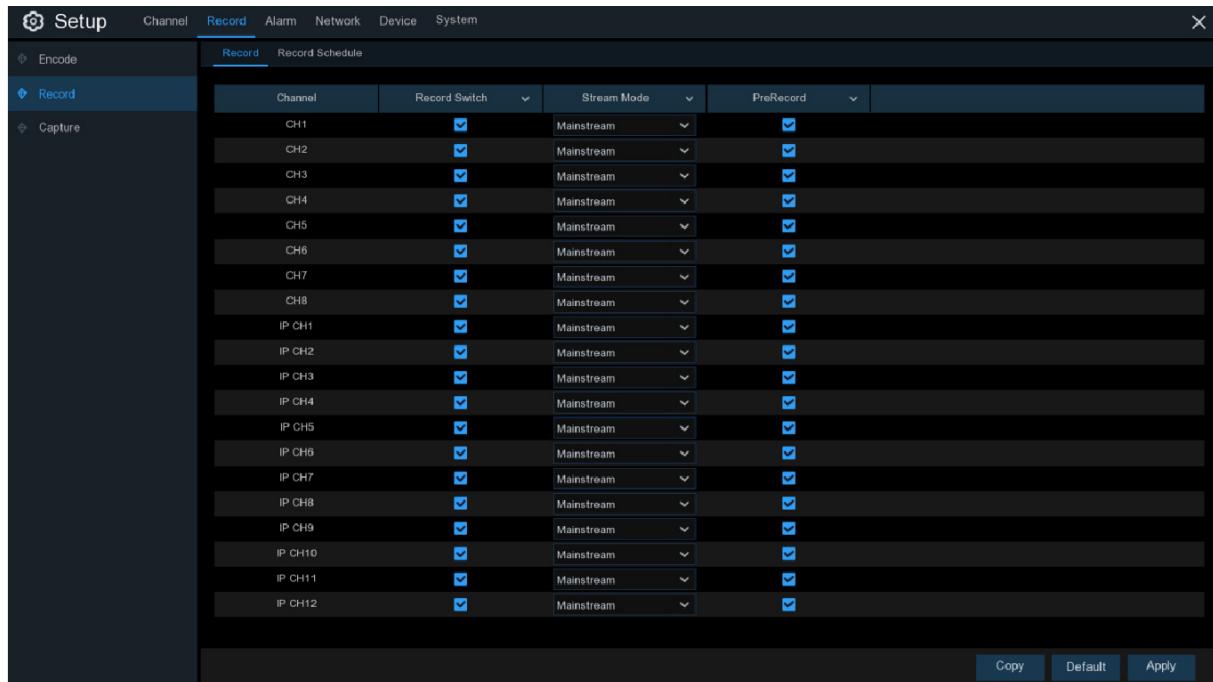
Bitrate Mode: If you want to set the bitrate by yourself, then choose User-defined mode. If you want to select the predefined bitrate, choose Predefined mode.

Bitrate: This parameter corresponds to the speed of data transfer that the NVR will use to record video. Recordings that are encoded at higher bitrates, will be of a better quality.

5.2.2 Record

This menu allows you to configure the channel recording parameters.

5.2.2.1 Record



Channel	Record Switch	Stream Mode	PreRecord
CH1	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
CH2	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
CH3	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
CH4	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
CH5	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
CH6	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
CH7	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
CH8	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH1	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH2	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH3	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH4	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH5	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH6	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH7	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH8	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH9	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH10	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH11	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>
IP CH12	<input checked="" type="checkbox"/>	Mainstream	<input checked="" type="checkbox"/>

Copy Default Apply

Record Switch: Check to enable the recording in this channel.

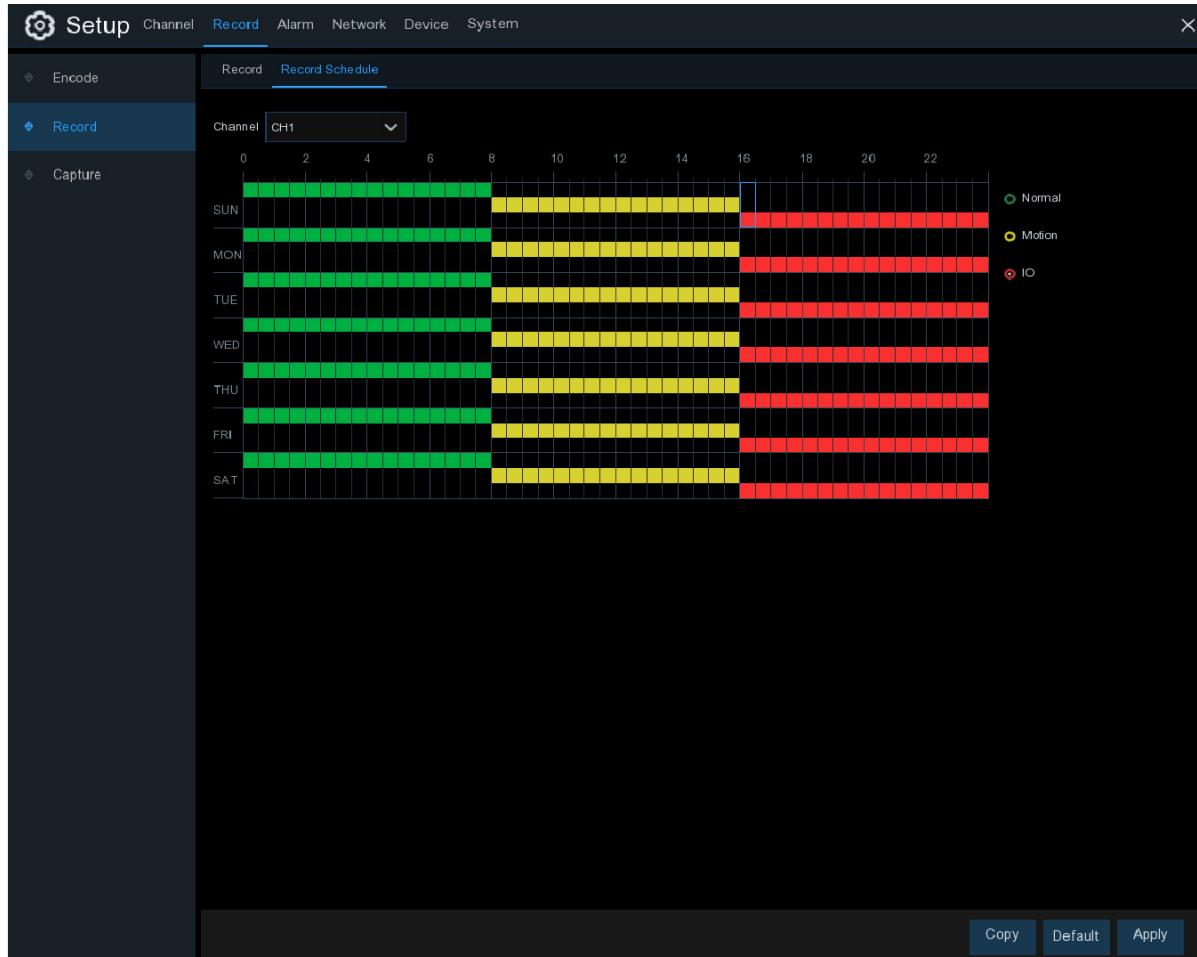
Stream Mode: Choose the recording quality. If you choose Dualstream, the system will record in both Mainstream & Substream.

PreRecord: If this option is enabled, the NVR starts recording a few seconds before an alarm event occurs. Use this option if your primary recording type is motion based.

5.2.2.2 Record Schedule

This menu allows you to specify when the NVR records video and defines the recording mode for each channel. The recording schedule lets you set up a schedule like, daily and hourly by normal (continuous) recording, motion recording, and PIR recording. To set the recording mode, click first on the mode radio button (Normal, Motion, IO, PIR), then drag the cursor to mark the slots. The recording schedule is valid only for one channel. If you want to use the same recording schedule for other channels, use Copy function. Click **Apply** to save your settings.

Note: Alarm I/O is not supported.



Channel: Select the channel to set its recording parameters.

Normal: When the time slot is marked green, this indicates the channel performs normal recording for that time slot.

Motion: When the time slot is marked yellow, this indicates the channel records only when a motion is detected during that time slot.

IO: When the time slot is marked red, this indicates the channel records only when the sensor is triggered during that time slot. Note: Alarm I/O is not supported.

No Record: A time slot marked black means that there is no recording scheduled for the time slot.

5.2.3 Capture

This menu allows to configure the image capture function.

5.2.3.1 Capture

Channel	Enable Capture	Stream Type	Normal Interval	Alarm Interval	Manual Capture
CH1	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
CH2	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
CH3	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
CH4	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
CH5	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
CH6	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
CH7	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
CH8	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH1	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH2	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH3	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH4	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH5	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH6	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH7	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH8	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH9	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH10	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH11	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>
IP CH12	<input checked="" type="checkbox"/>	Mainstream	5 s	5 s	<input checked="" type="checkbox"/>

Enable Capture: Enable or disable automatic capturing on the channel.

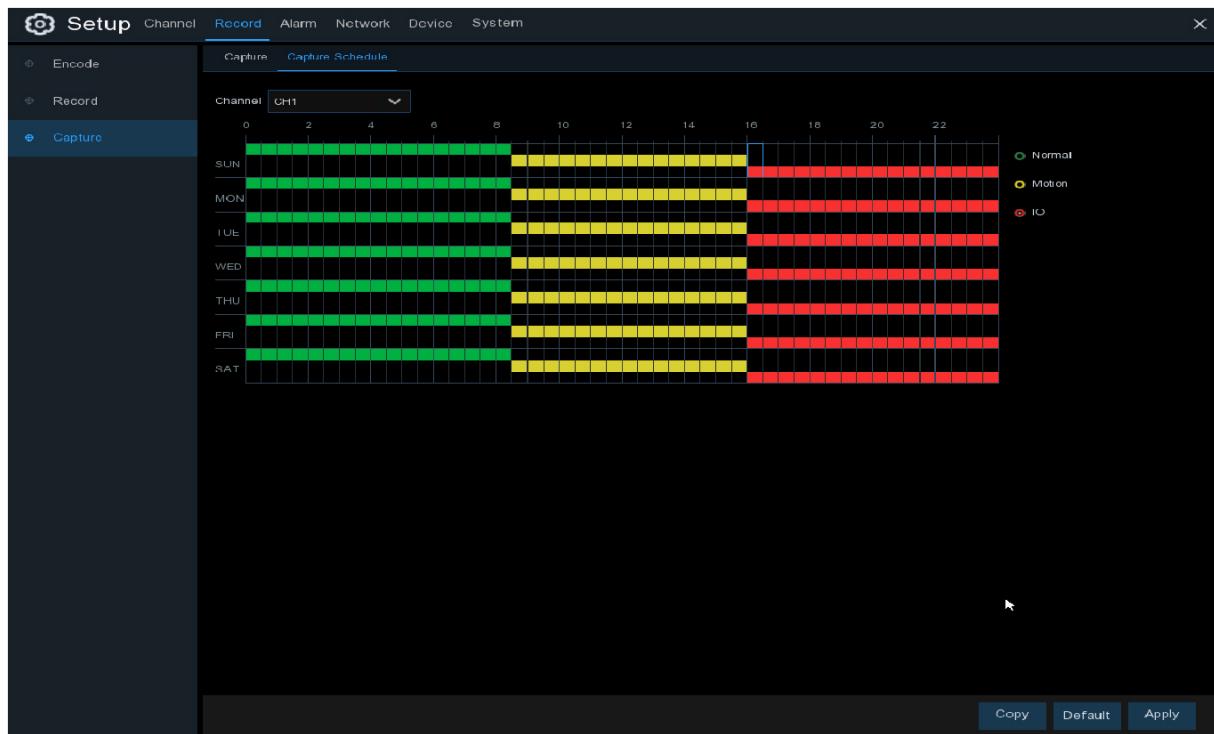
Stream Type: Select the image resolution by mainstream or substream.

Normal Interval: Time interval to capture an image in normal recording.

Alarm Interval: Time interval to capture an image when motion or PIR is triggered

Manual Capture: Enable or disable manual capture in the channel

5.2.3.2 Capture Schedule



Channel: Select the channel to set its capture parameters.

Normal: When the time slot is marked green, this indicates the channel performs normal capture for that time slot.

Motion: When the time slot is marked yellow, this indicates the channel capture images only when a motion is detected during that time slot.

IO: When the time slot is marked red, this indicates the channel capture images only when the sensor is triggered during that time slot. Note: Alarm I/O is not supported.

No Capture: A time slot marked black means that it won't capture any images for the time slot, but you can manually capture images if you enable the manual capture function in the channel.

5.3 Alarm

In these section, you can configure the alarm parameters.

5.3.1 Motion

Operation is the same as [5.1.5 Motion](#)

5.3.3 PTZ Linkage

If you had connected the PTZ cameras, you can set the linkage between PTZ cameras and Motion Alarm and/or external I/O sensor alarm. With the linkage function, you can turn your PTZ cameras focus to the preset point when a motion or I/O alarm happens.

Channel	Switch	Motion	IO	PTZ1	PTZ2	PTZ3	PTZ4
CH17	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON	ON	ON	ON
CH18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON	ON	ON	ON
CH19	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON	ON	ON	ON
CH20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON	ON	ON	ON
CH21	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON	ON	ON	ON
CH22	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ON	ON	ON	ON

Switch: Enable or disable the PTZ linkage function.

Motion: Motion detection alarm will trigger the PTZ linkage function it is checked.

IO: IO alarm will trigger the PTZ linkage function it is checked. Note: Alarm I/O is not supported.

PTZ: Click icon to associate the PTZ cameras with preset points. View preset point at 5.1.4.1 PTZ control.

5.3.4 Exception

This menu allows you to set the type of events that you want the NVR to inform you.

Exception							
Event Type	Switch	Buzzer	Latch Time	Alarm Out	Show Message	Send Email	
Video Loss	<input checked="" type="checkbox"/>	10 s	10 s	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Disk Error	<input checked="" type="checkbox"/>	10 s	10 s	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
No Space on Disk	<input checked="" type="checkbox"/>	10 s	10 s	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Event Type: Select the event type from below options:

- No Space on Disk: When an HDD is full.
- Disk Error: If the HDD is not detected properly.
- Video Loss: If a camera is not connected properly.

Switch: Check the box to enable the monitoring of the event.

Buzzer: Set the buzzer duration when the event occurs (Off/10s/20s/40s/60s). To disable buzzer, select OFF.

Latch Time: Not supported.

Alarm Out: Not supported.

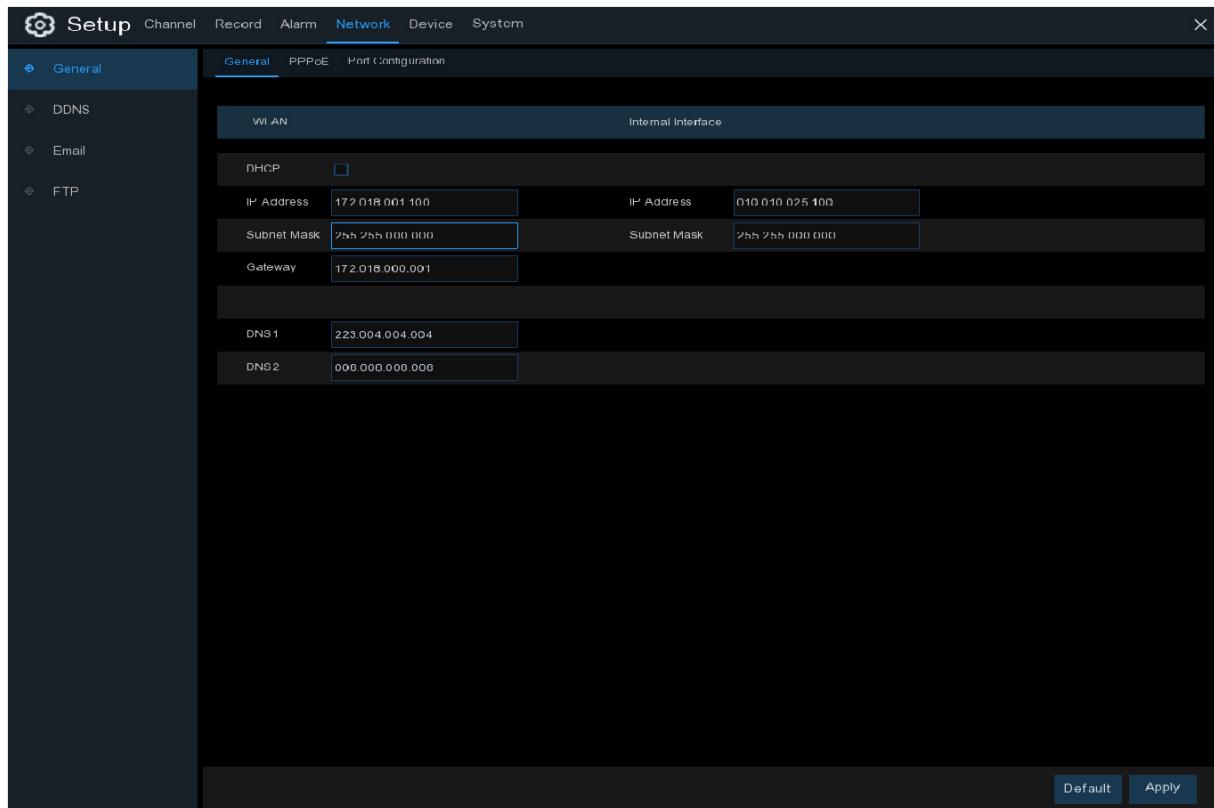
Show Message: Check the box to display a message on the screen when No Space on Disk, Disk Error, or Video Loss event happens.

Send Email: Let the NVR to send you an auto-email when an event occurs.

5.4 Network

This menu allows you to configure network parameters, such as PPPoE, DHCP. The most common types are DHCP. Most probably your network type is DHCP, unless the network is manually addressed. If you need an authentication user name and password to the Internet, then choose PPPoE.

5.4.1 General



If you connect to a router using DHCP, please check the DHCP box. The router will automatically assign all the network parameters for your NVR. If your network is manually addressed, see below parameters:

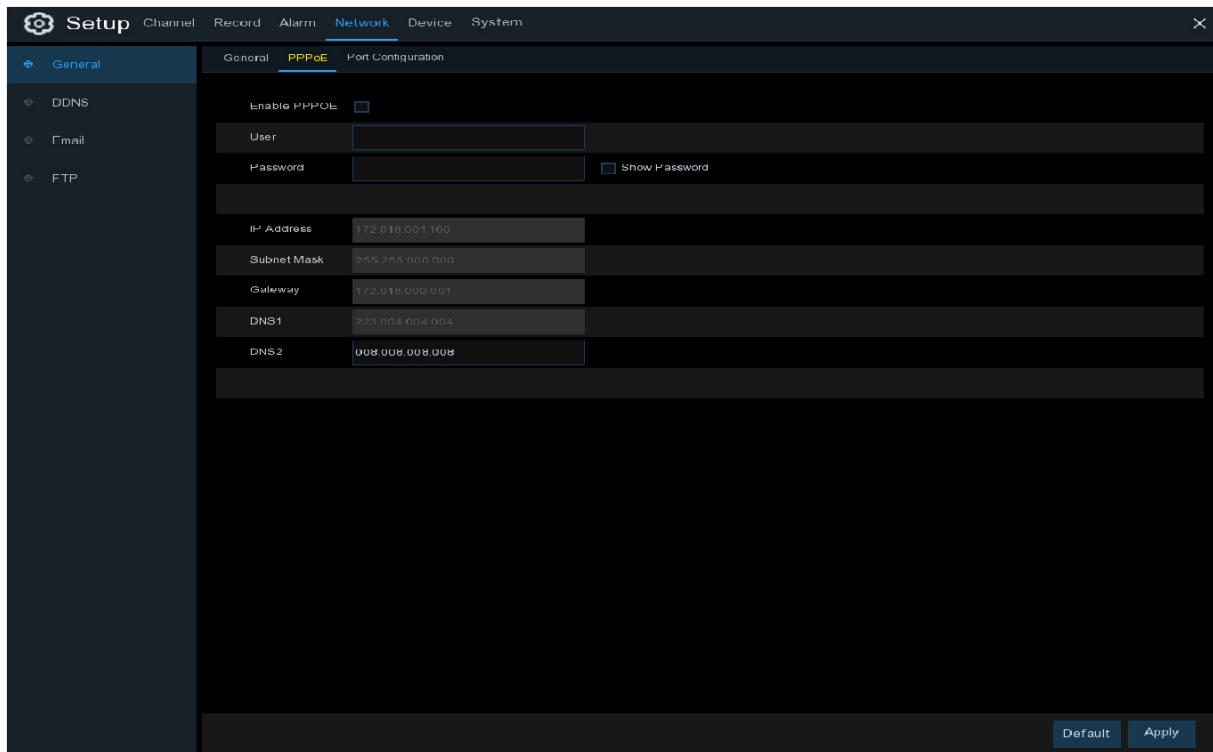
IP Address: The IP address identifies the NVR in the network. It consists of four groups of numbers between 0 to 255, separated by periods. For example, “192.168.001.100”.

Subnet Mask: Subnet mask is a network parameter which defines a range of IP addresses that can be used in a network. If IP address is like a street where you live then subnet mask is like a neighbourhood. The subnet address also consists of four groups of numbers, separated by periods. For example, “255.255.000.000”.

Gateway: This address allows the NVR to access the Internet. The format of the Gateway address is the same as the IP Address. For example, “192.168.001.001”.

DNS1/DNS2: DNS1 is the primary DNS server and DNS2 is a backup DNS server. Usually should be enough just to enter the DNS1 server address.

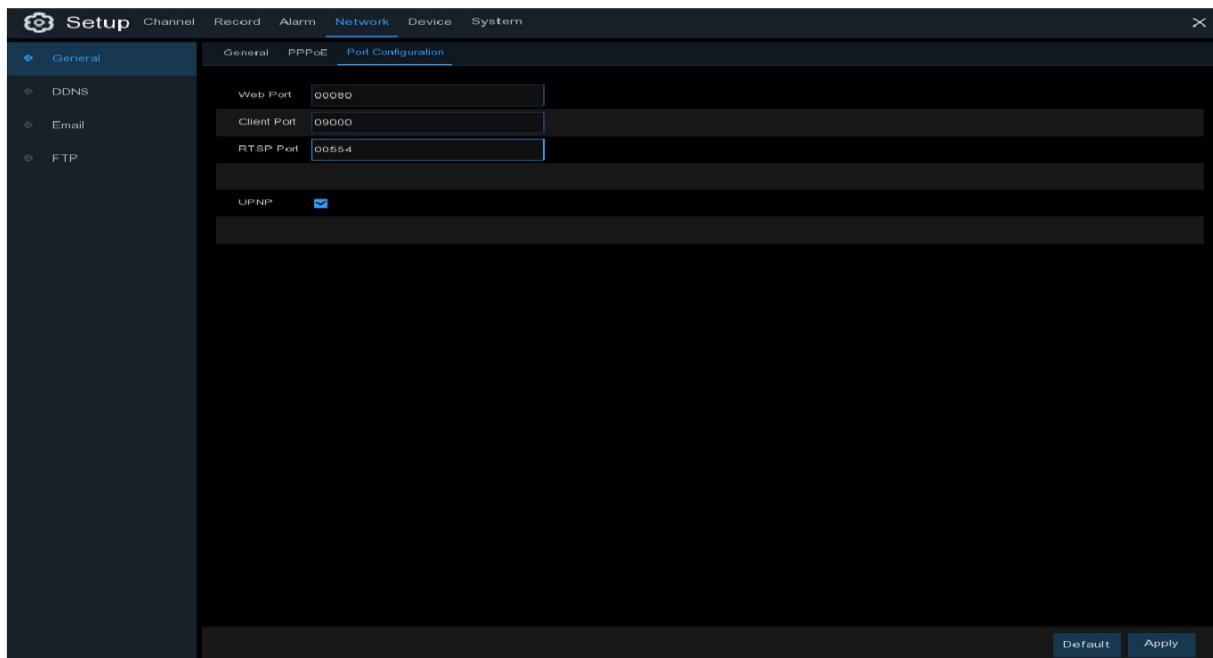
5.4.4.1 PPPoE



This is an advanced protocol that allows the NVR to connect to the network more directly via DSL modem.

Check the “Enable PPPOE” box, and then enter the User name & Password of the PPPOE. Click **Apply** to save, system will reboot to active the PPPOE setting.

5.4.1.3 Port Configuration



Web Port: This is the port that you will use to log in remotely to the NVR (e.g. using the Web Client). If the default port 80 is already taken by other applications, please change it.

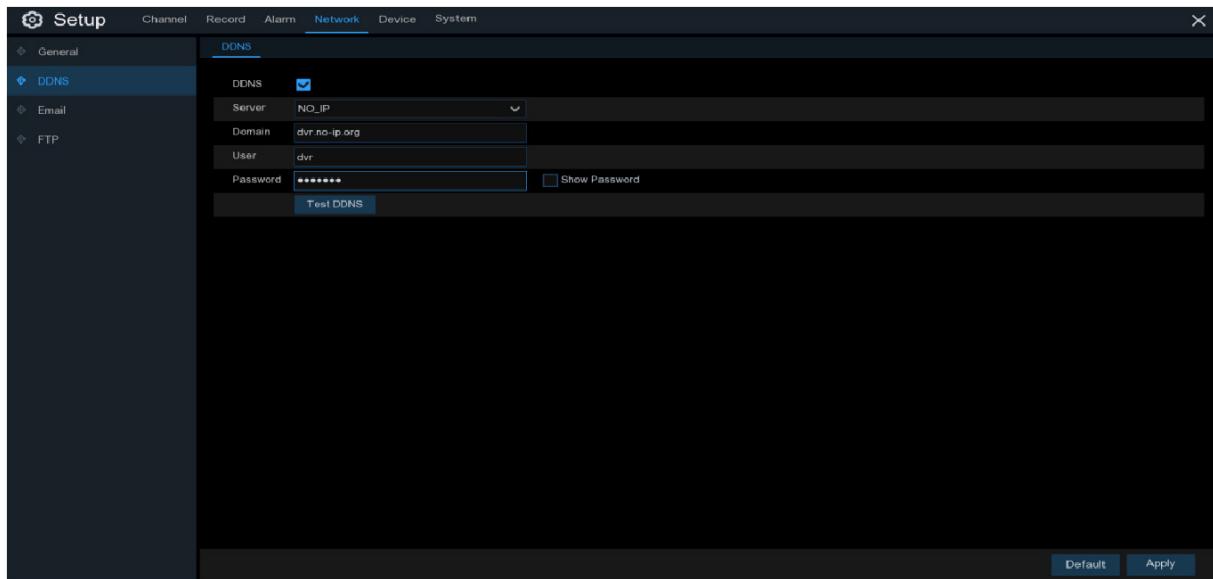
Client Port: This is the port that the NVR will use to send information through. If the default port 9000 is already taken by other applications, please change it.

RTSP Port: Default is 554, if the default port 554 is already taken by other applications, please change it.

UPnP: If you want to log in remotely to the NVR using Web Client, you need to complete the port forwarding. Enable this option if your router supports the UPnP. You need to enable UPnP both, on NVR and router. In this case, you do not need to configure manually port forwarding on your router. If your router does not support UPnP, make sure the port forwarding is completed manually

5.4.2 DDNS

This menu allows you to configure DDNS settings. The DDNS provides a static address to simplify remote connection to your NVR. To use the DDNS, you first need to open an account on the DDNS service provider's web page.



DDNS: Check to enable DDNS.

Server: Select the preferred DDNS server (DDNS_3322, DYNDNS, NO_IP, CHANGEIP, DNSEXIT).

Domain: Enter the domain name you created on the DDNS service provider's web page. This will be the address you type in the URL box when you want to connect remotely to the NVR via PC. For example: NVR.no-ip.org.

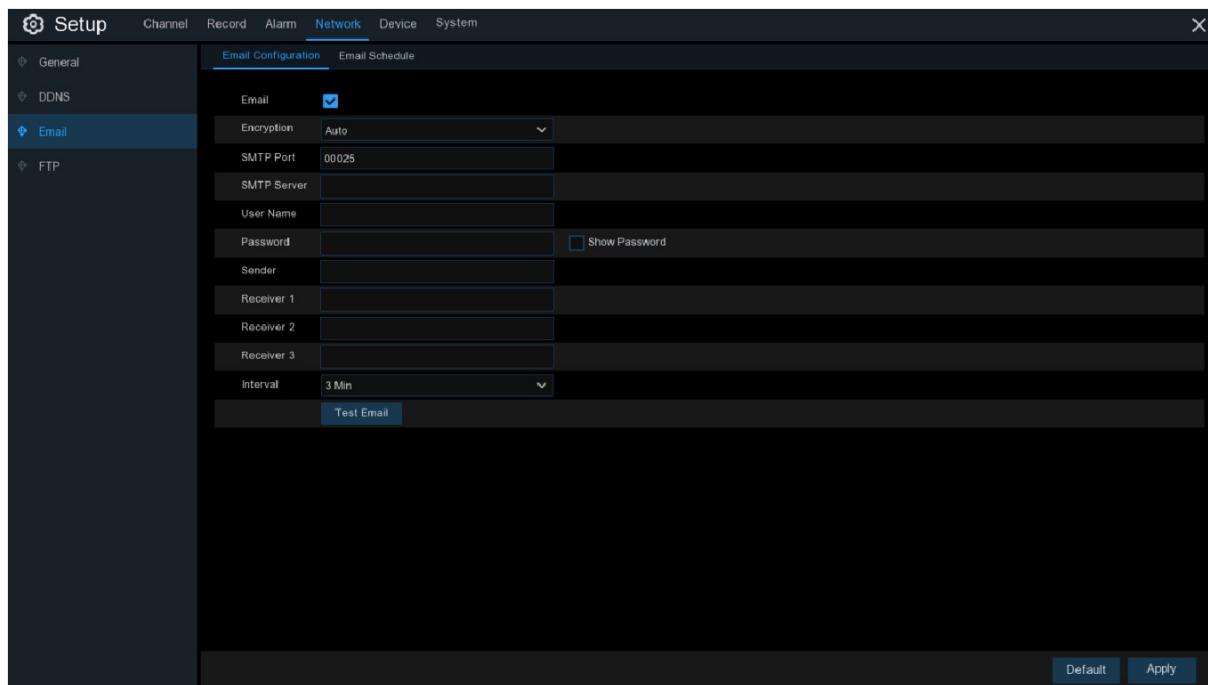
User/Password: Enter the user name and password you obtained when creating an account on the DDNS service provider's web page.

After all parameters are entered, click Test DDNS to test the DDNS settings. If the test result is "Network is unreachable or DNS is incorrect", please check whether the network works fine, or the DDNS information is correct or not.

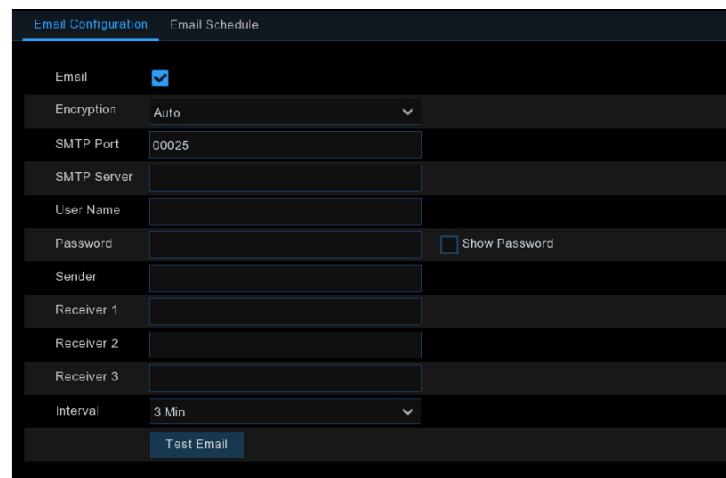
5.4.3 Email

This menu allows you to configure email settings. Please complete these settings if you want to receive the system notifications on your email when an alarm is triggered, HDD becomes full, HDD is in error state, or Video Loss occurs.

Note: You may need to refer to your Internet Service Provider (ISP) for your email server settings.



5.4.3.1 Email Configuration



Email: Check to enable.

Encryption: Enable if your email server requires the SSL or TLS verification. If you are not sure, set to be Auto.

SMTP Port: Enter the SMTP port of your email server.

SMTP Server: Enter the SMTP server address of your email.

User Name: Enter your email address.

Password: Enter the password of your email.

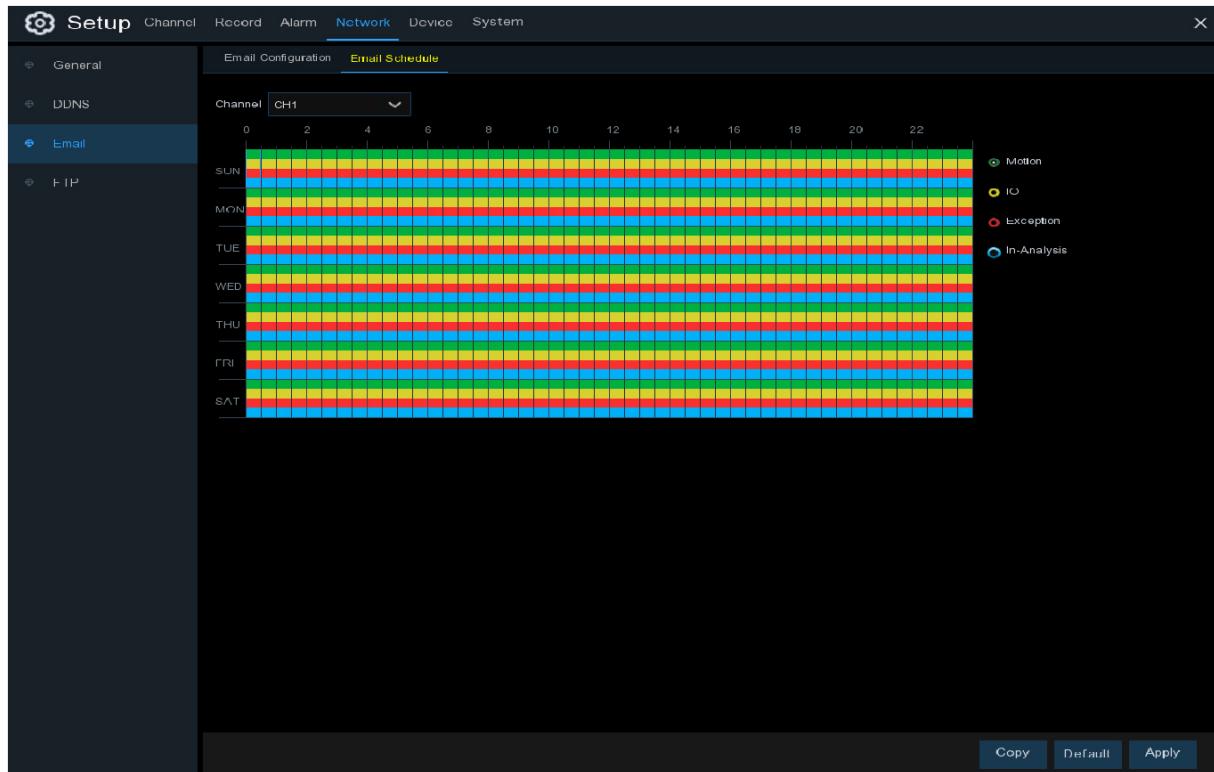
Receiver 1~3: Enter the email address where you want to receive the event notifications from the NVR.

Interval: Configure the length of the time interval between the notification emails from the NVR.

To make sure all settings are correct, click **Test Email**. The system sends an automated email message to your inbox. If you received the test email, it means the configuration parameters are correct.

5.4.3.2 Email Schedule

You need to configure the schedule to fully implement the Email notification.



The colour codes on email schedule have the following meanings:

Green: Slot for Motion detection.

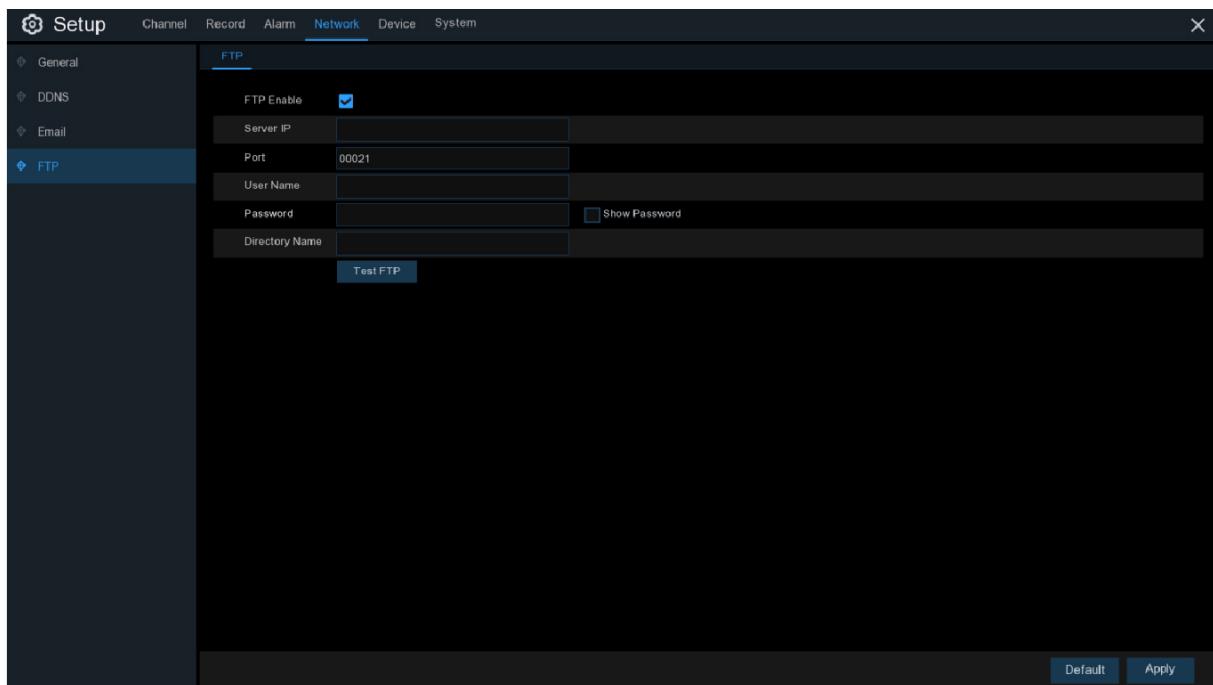
Yellow: Slot for I/O Alarm (Not supported).

Red: Slot for Exception (HDD full, HDD error, or Video Loss).

Blue: Slot for Intelligent Analysis detection.

5.4.4 FTP

This menu allows you to enable FTP function to view and load captured snapshots from NVR to your storage device over FTP.



FTP Enable: Click to enable FTP function.

Server IP: Enter your FTP server IP address or domain name.

Port: Enter the FTP port for file exchanges.

Name/ Password: Enter your FTP server user name and password.

Directory Name: Enter the default directory name for the FTP file exchanges.

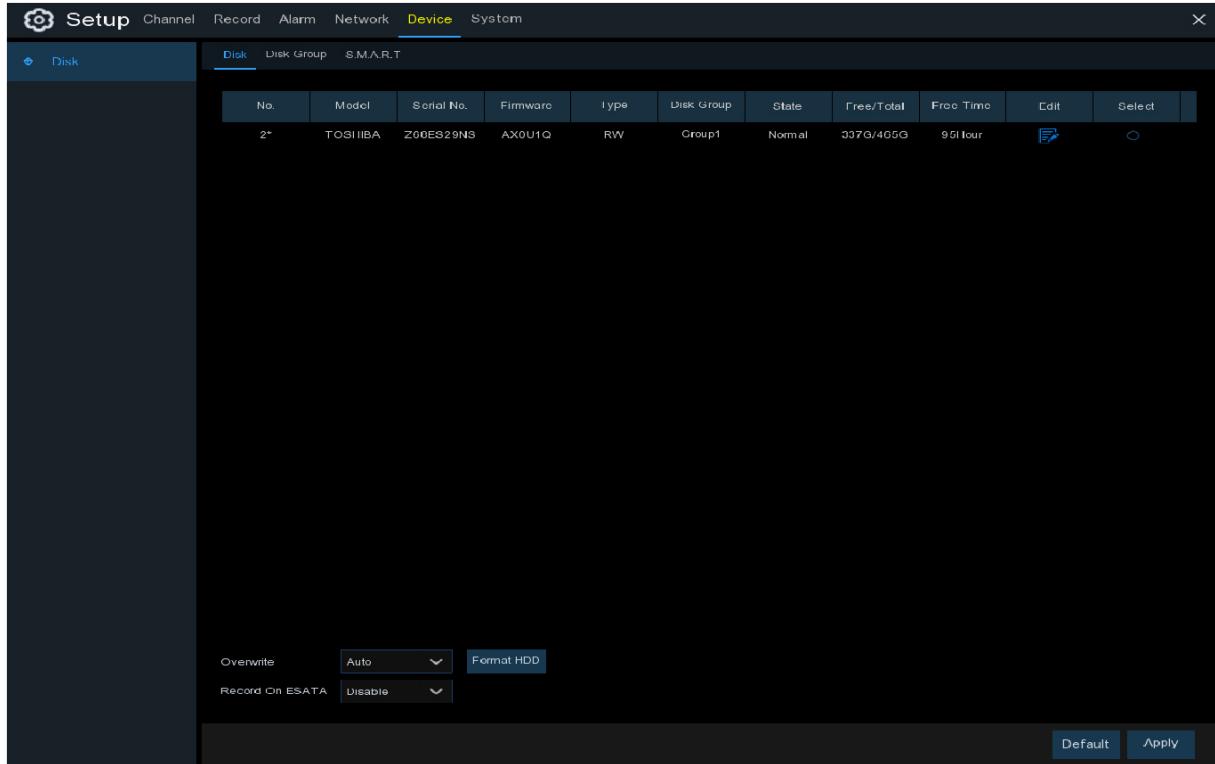
Test FTP: Click to test the FTP settings.

5.5 Device

In this section, you can configure the internal HDD function.

5.5.1 Disk

This menu allows you to check & configure the internal HDD(s). You need to format the HDD only at the first startup and if you replace a new HDD.

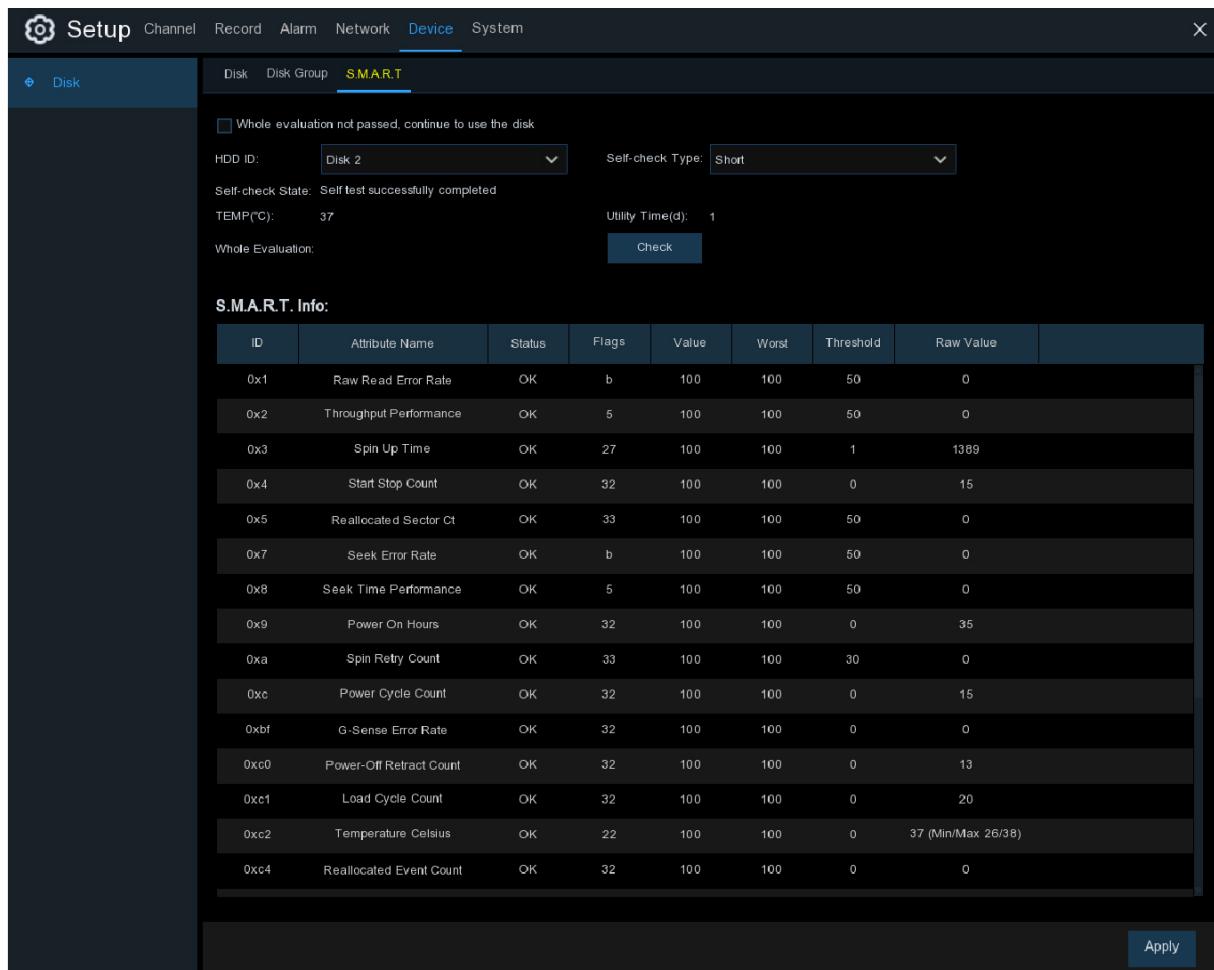


Format HDD: Select the HDD you want to format and then click Format HDD. To start formatting, you need to enter your user name and password and then click OK to confirm to continue formatting.

Overwrite: Use this option to overwrite the old recordings on the HDD when the HDD is full. For example, if you choose the option 7 days then only the last 7 days recordings are kept on the HDD. To prevent overwriting any old recordings, select OFF. If you have disabled this function, please check the HDD status regularly, to make sure the HDD is not full. Recording will be stopped if HDD is full.

5.5.1.2 S.M.A.R.T

This function can be used to display technical information on the hard drive installed inside your NVR. You can also perform a test (there are three types available) to evaluate and detect potential drive errors.



Whole evaluation not passed, continue to use the disk

HDD ID: Disk 2 Self-check Type: Short

Self-check State: Self test successfully completed

TEMP(°C): 37 Utility Time(d): 1

Whole Evaluation: Check

S.M.A.R.T. Info:

ID	Attribute Name	Status	Flags	Value	Worst	Threshold	Raw Value
0x1	Raw Read Error Rate	OK	b	100	100	50	0
0x2	Throughput Performance	OK	5	100	100	50	0
0x3	Spin Up Time	OK	27	100	100	1	1389
0x4	Start Stop Count	OK	32	100	100	0	15
0x5	Reallocated Sector Ct	OK	33	100	100	50	0
0x7	Seek Error Rate	OK	b	100	100	50	0
0x8	Seek Time Performance	OK	5	100	100	50	0
0x9	Power On Hours	OK	32	100	100	0	35
0xa	Spin Retry Count	OK	33	100	100	30	0
0xc	Power Cycle Count	OK	32	100	100	0	15
0xbf	G-Sense Error Rate	OK	32	100	100	0	0
0xc0	Power-Off Retract Count	OK	32	100	100	0	13
0xc1	Load Cycle Count	OK	32	100	100	0	20
0xc2	Temperature Celsius	OK	22	100	100	0	37 (Min/Max 26/38)
0xc4	Reallocated Event Count	OK	32	100	100	0	0

Apply

Whole Evaluation not passed, continue to use the disk: If for some reason the hard drive has developed a fault (such as one or more bad sectors), you can instruct your NVR to continue saving to the drive.

Self-check Type: There are three types available:

Short: This test verifies major components of the hard drive such as read/write heads, electronics and internal memory.

Long: This is a longer test that verifies the above as well as performing a surface scan to reveal problematic areas (if any) and forces bad sector relocation

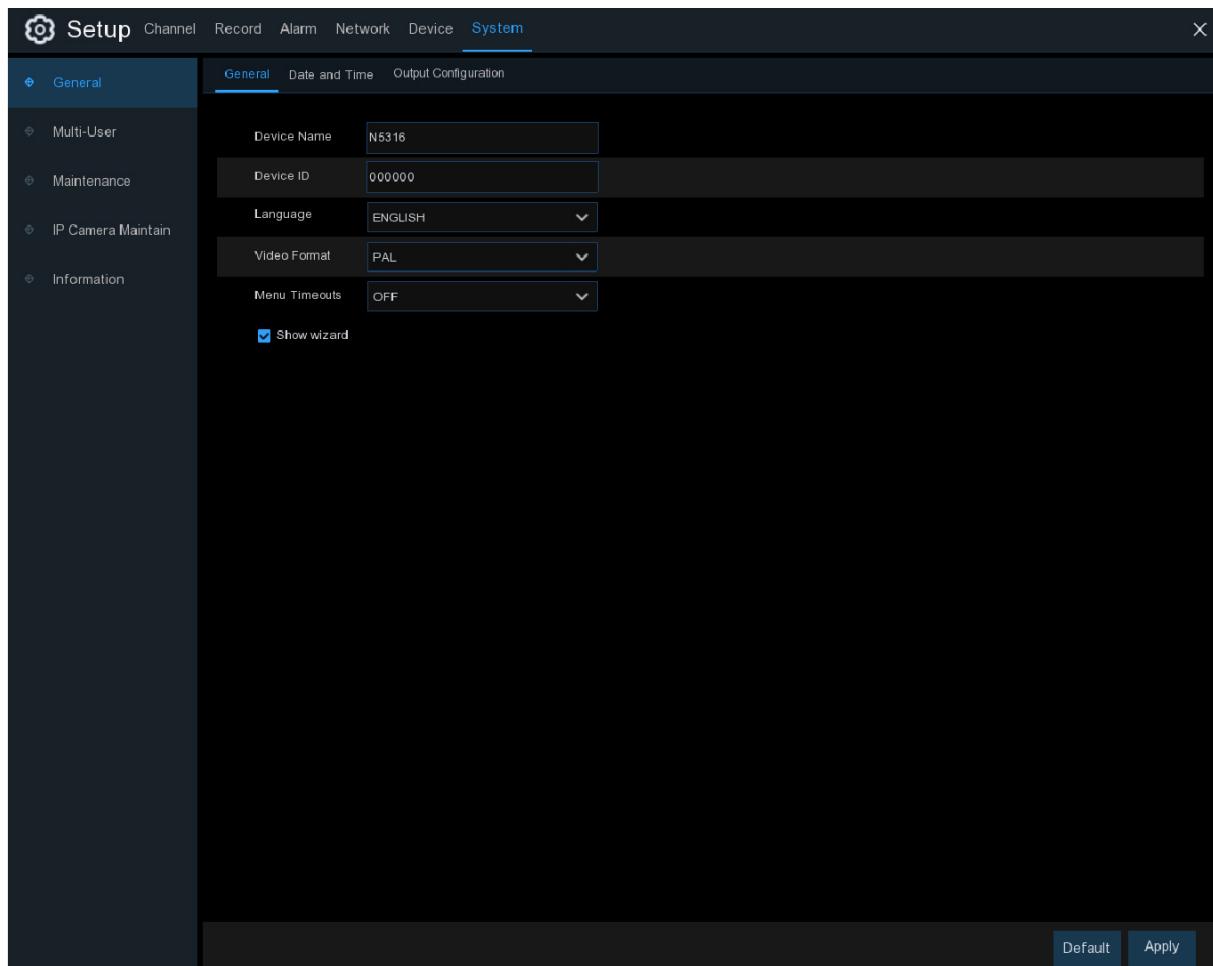
Conveyance: This is a very quick test that verifies the mechanical parts of the hard drive are working.

Note: When performing a test, your NVR will continue to work as normal. If an HDD S.M.A.R.T error found, the HDD can be continued to use, but there will be a risk to lose recording data. It is recommended to replace a new HDD.

5.6 System

Change general system information such as date, time and region, edit passwords and permissions, and more.

5.6.1 General



Device Name: Enter the desired name for your NVR. The name can include both letters and numbers.

Device ID: Enter the desired ID for your NVR. The device ID is used to identify the NVR, and can only be composed of numbers. For example, 2pcs NVRs are installed in the same place, the Device ID is 000000 for one of the NVRs, and 111111 for another NVR. When you want to operate the NVR with a remote controller, both of the NVR may receive the signal from controller & act at the same time. If you want to control only the NVR with ID 111111, you can input the Device ID 111111 in login page with remote controller for further operations.

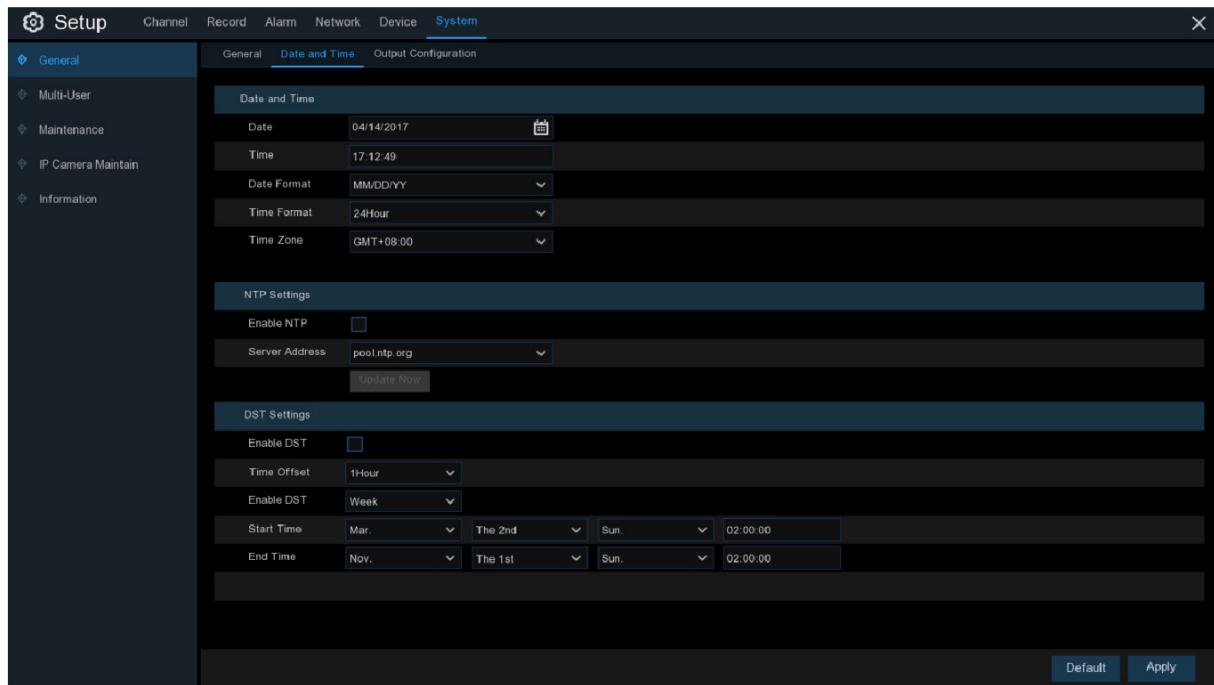
Language: Select a language you would like the system menus to be displayed in. Multiple languages are available.

Video Format: Select the correct video standard for your region.

Menu Timeouts: Click the drop-down menu to select the time your NVR will exit the Main Menu when idle. You can also disable this by selecting “OFF” (password protection will be temporarily disabled).

Show Wizard: Click the checkbox if you would like to display the Startup Wizard each time you turn on or reboot your NVR.

5.6.1.1 Date and Time



Date & Time

Date: Click the calendar icon to change the date.

Time: Click the dialogue box to change the time.

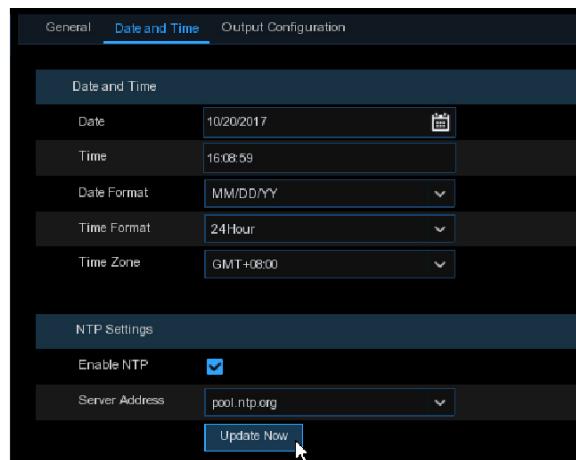
Date Format: Select the preferred date format.

Time Format: Select the preferred time format.

Time Zone: Select a time zone relevant to your region or city.

5.6.1.2 NTP Settings

The NTP (Network Time Protocol) function allows your NVR to automatically sync its clock with a time server. This gives it the ability to constantly have an accurate time setting (your NVR will periodically sync automatically).



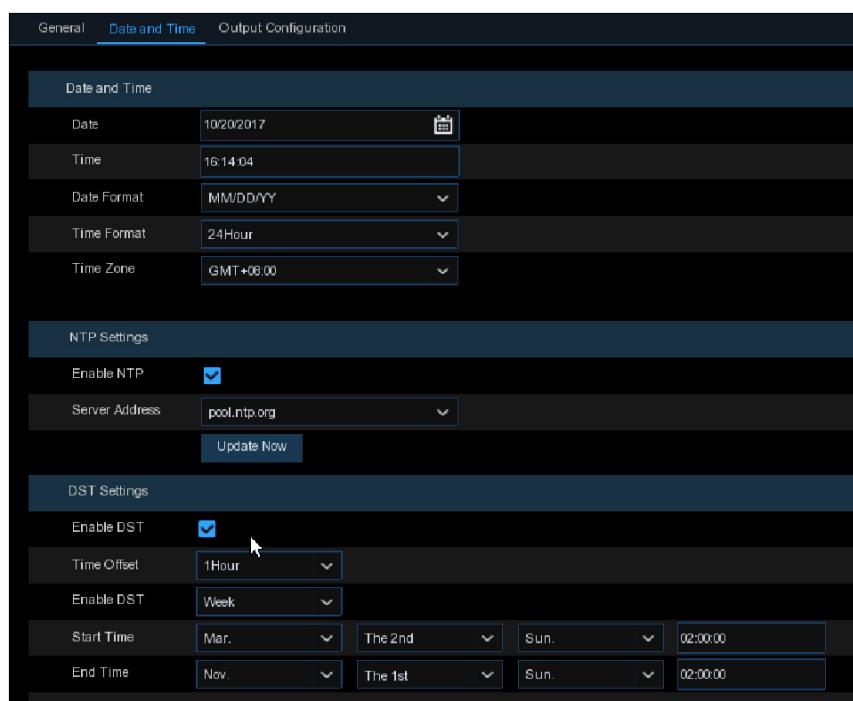
Check to enable the **NTP**, and select a **Server Address**, click **Update Now** to manually sync the date & time.

Click **Apply** to save your settings.

When NTP function is enabled, system will update the system time at 00:07:50 per day, or every time when the system is starting up.

5.6.1.3 DST Settings

The DST (Daylight Saving Time) function allows you to select the amount of time that Daylight Saving has increased by in your particular time zone or region.



Enable DST: If Daylight Saving applies to your time zone or region, check this option to enable.

Time Offset: Select the amount of time that Daylight Saving has increased by in your time zone. This refers to the difference in minutes, between Coordinated Universal Time (UTC) and the local time.

Enable DST: You can select how Daylight Saving starts and ends:

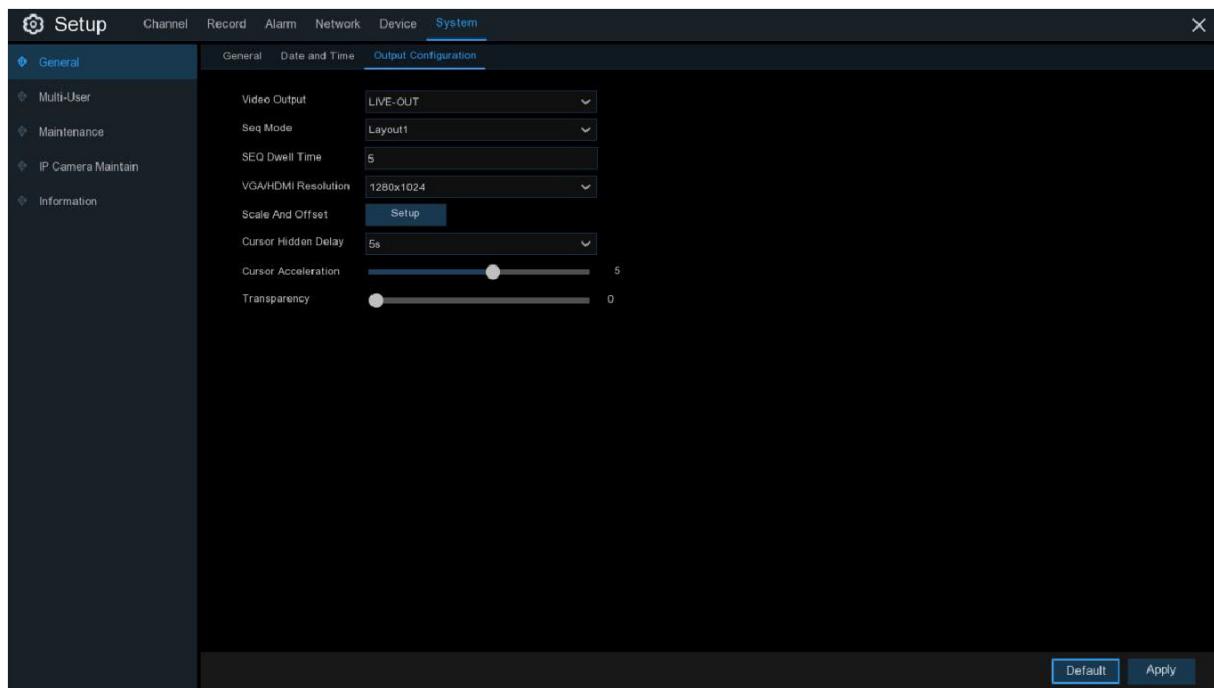
Week: Select the month, a particular day and time when Daylight Saving starts and ends. For example, 2 a.m. on the first Sunday of a particular month.

Date: Select the start date (click the calendar icon), end date and time when Daylight Saving starts and ends.

Start Time / End Time: Set the start time and end time for Daylight Saving.

5.6.2 Output Configuration

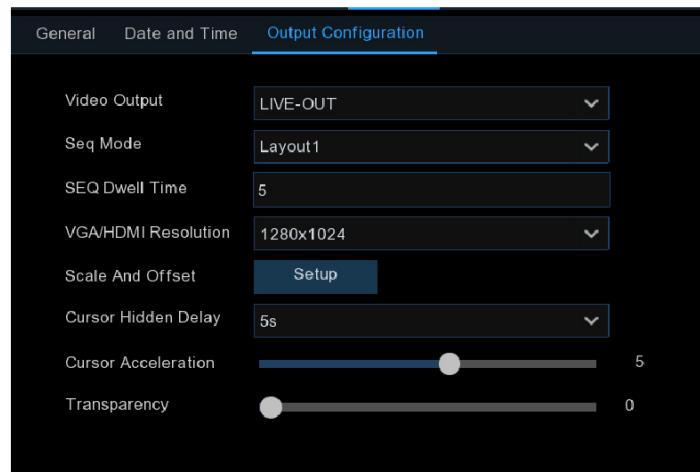
This menu allows you to configure video output parameters.



Video Output: To choose the output options:

LIVE-OUT is used to configure the main output parameters.

5.6.2.1 LIVE-OUT



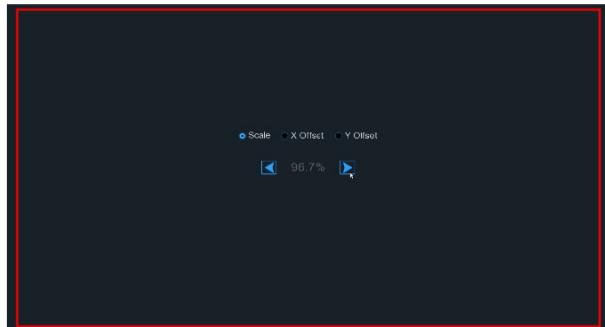
Choose **LIVE-OUT** from the Video Output drop-down menu.

SEQ Mode: Select how many video channels you would like to display when your NVR is in sequence mode.

SEQ Dwell Time: Enter in seconds the maximum length of time you would like to display a video channel in sequence mode before displaying the next video channel (300 seconds is the maximum).

Output Resolution: Select a display resolution that is suitable for your TV. 1920 x 1080 will suit most TVs. If your NVR supports 4K output resolution, you can select either 2K (2560 x 1440) or 4K (3840 x 2160) to take advantage of the higher resolution that your 4K TV provides.

Scale and Offset: The NVR supports to adjust the size & position of the display screen to match your monitor or TV. Click **Setup** button to adjust.



Scale: To adjust the size of the displayed screen by scale.

X Offset: To move the displayed screen to left or right.

Y Offset: To move the displayed screen to up or down.

Click once or long press the left button of your mouse on the arrow to adjust the size and position, or you can scroll the wheel of the mouse to adjust. Click the right button of your mouse to exit, and click **Apply** to save your modifications.

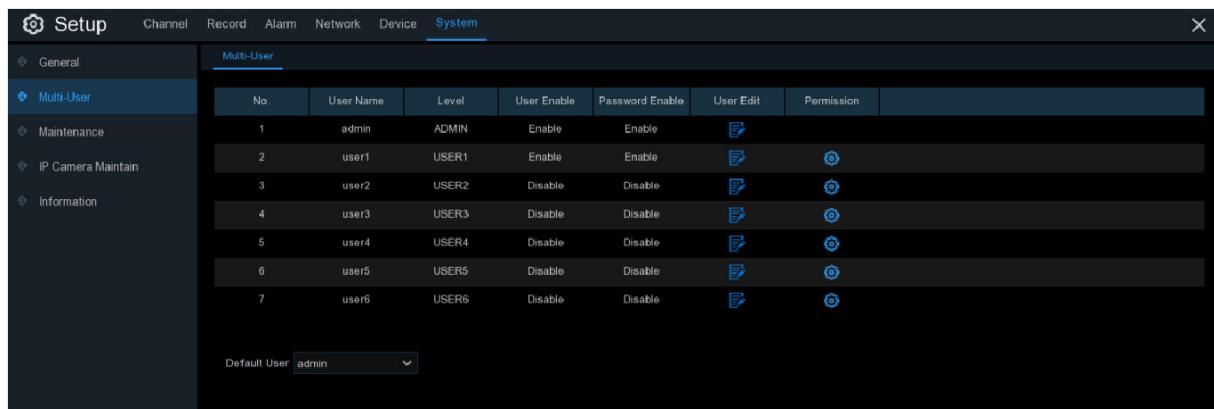
Cursor Hidden Delay: Click the drop-down menu to select the time your NVR will hide the mouse cursor when idle. You can also disable this by selecting “OFF” (password protection will be temporarily disabled).

Cursor Acceleration: To adjust the speed to move the mouse cursor.

Transparency: Click and hold the slider left or right to change how transparent the Menu Bar and Main Menu will appear on-screen. Adjust accordingly.

5.6.3 Multi-user

This menu allows you to configure the user name, password and user permission.



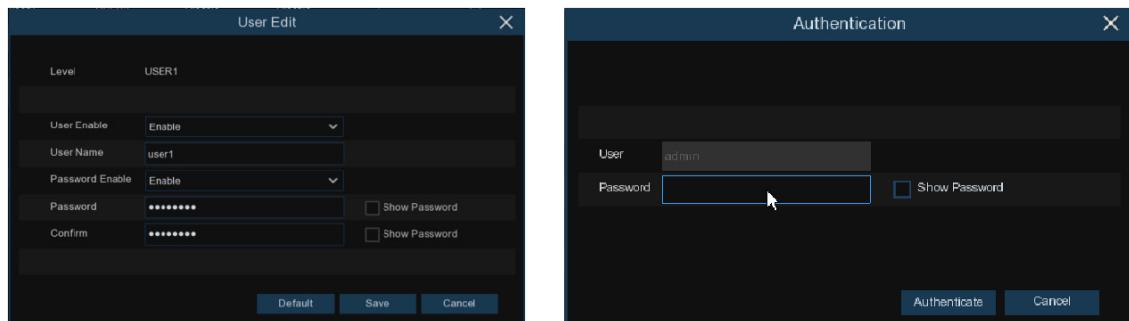
No.	User Name	Level	User Enable	Password Enable	User Edit	Permission
1	admin	ADMIN	Enable	Enable		
2	user1	USER1	Enable	Enable		
3	user2	USER2	Disable	Disable		
4	user3	USER3	Disable	Disable		
5	user4	USER4	Disable	Disable		
6	user5	USER5	Disable	Disable		
7	user6	USER6	Disable	Disable		

The system supports the following account types:

- ADMIN - System Administrator:** The administrator has full control of the system, and can change both administrator and user passwords and enable/disable password protection.
- USER - Normal User:** Users only have access to live viewing, search, playback, and other functions. You may set up multiple user accounts with varying levels of access to the system.

5.6.3.1 Changing Password

To change the password for the administrator or user accounts, click the User Edit icon . The password has to be a minimum of 8 characters and can contain a mixture of numbers and letters. Enter your new password again to confirm, and then click **Save** to save your new password. You will be required to input your old password to authenticate.



Password Enable: It's strongly recommended to enable the password to protect your privacy. If you want to disable the password protection, please ensure your NVR is placed in a secure place.

5.6.3.2 Add New Users

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

Default User: admin

1. Select one of the user accounts that is currently disabled, click the User Edit icon .

User Edit

Level	USER1
User Enable	<input type="button" value="Enable"/>
User Name	<input type="text" value="user1"/>
Password Enable	<input type="button" value="Enable"/>
Password	<input type="text" value="*****"/> <input type="checkbox" value="Show Password"/>
Confirm	<input type="text" value="*****"/> <input type="checkbox" value="Show Password"/>
<input type="button" value="Default"/> <input type="button" value="Save"/> <input type="button" value="Cancel"/>	

2. Select **Enable** from the drop-down next to **User Enable**.
3. Click the field next to **User Name** to change the user name for the account.
4. Select **Enable** from the drop-down next to **Password Enable**.
5. Click the field next to **Password** to enter the desired password.
6. Click the field next to **Confirm** to reenter the password.
7. Click **Save**. You will be required to input your Admin password to authenticate.

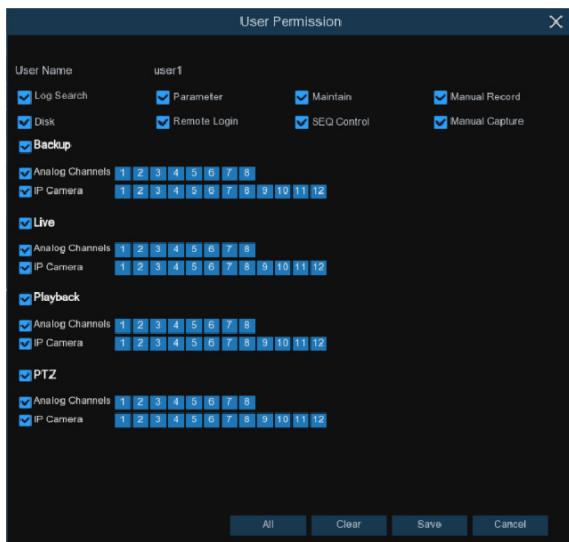
5.6.3.3 Setting User Permissions

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

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

Default User

1. Click the edit icon  under Permission tab.

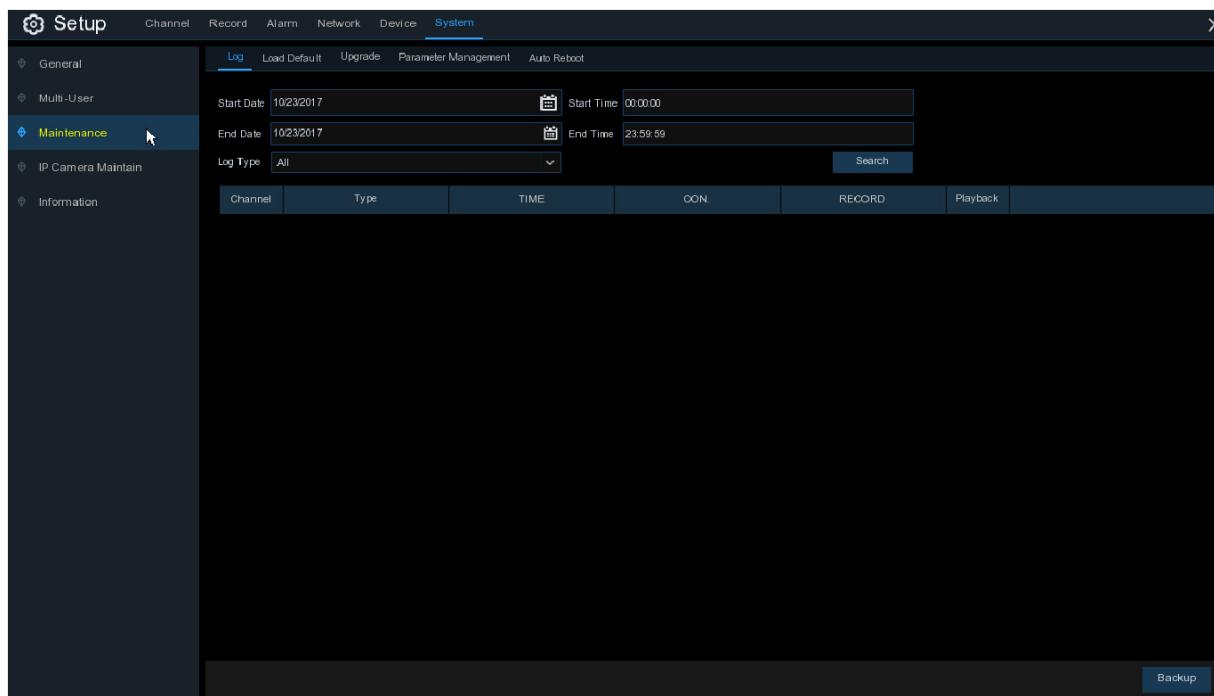


2. Check the boxes next to any system menus or capabilities you would like the user to access.
Click **All** to check all boxes.
Click **Clear** to check none of the boxes.

3. Click **Save** to save your modifications.

5.6.4 Maintenance

In this section, you will be able to search & view the system log, load default settings, upgrade the system, export & import system parameters and manager system auto reboot.



5.6.4.1 Log

The system log shows you important system events, such as motion alarms and system warnings. You can easily create a backup file of the system log for a set time period to a USB flash drive.

Channel	Type	TIME	CON.	RECORD	Playback
IP CH1	Alarm	04/17/2017 00:39:52	Motion Start	Yes	<input type="checkbox"/>
IP CH1	Alarm	04/17/2017 00:40:23	Motion End	Yes	<input type="checkbox"/>
IP CH1	Alarm	04/17/2017 07:59:36	Motion Start	Yes	<input type="checkbox"/>
CH1	Alarm	04/17/2017 08:01:10	Motion Start	Yes	<input type="checkbox"/>
CH2	Alarm	04/17/2017 08:01:10	Motion Start	Yes	<input type="checkbox"/>
CH3	Alarm	04/17/2017 08:01:10	Motion Start	Yes	<input type="checkbox"/>
CH4	Alarm	04/17/2017 08:01:10	Motion Start	Yes	<input type="checkbox"/>
CH5	Alarm	04/17/2017 08:01:10	Motion Start	Yes	<input type="checkbox"/>
CH6	Alarm	04/17/2017 08:01:10	Motion Start	Yes	<input type="checkbox"/>
CH7	Alarm	04/17/2017 08:01:10	Motion Start	Yes	<input type="checkbox"/>
CH8	Alarm	04/17/2017 08:01:10	Motion Start	Yes	<input type="checkbox"/>
CH8	Alarm	04/17/2017 08:01:42	Motion End	No	
CH1	Alarm	04/17/2017 08:09:34	Motion Start	Yes	<input type="checkbox"/>
CH2	Alarm	04/17/2017 08:09:34	Motion Start	Yes	<input type="checkbox"/>
CH4	Alarm	04/17/2017 08:09:34	Motion Start	Yes	<input type="checkbox"/>

Page: 1 / 27

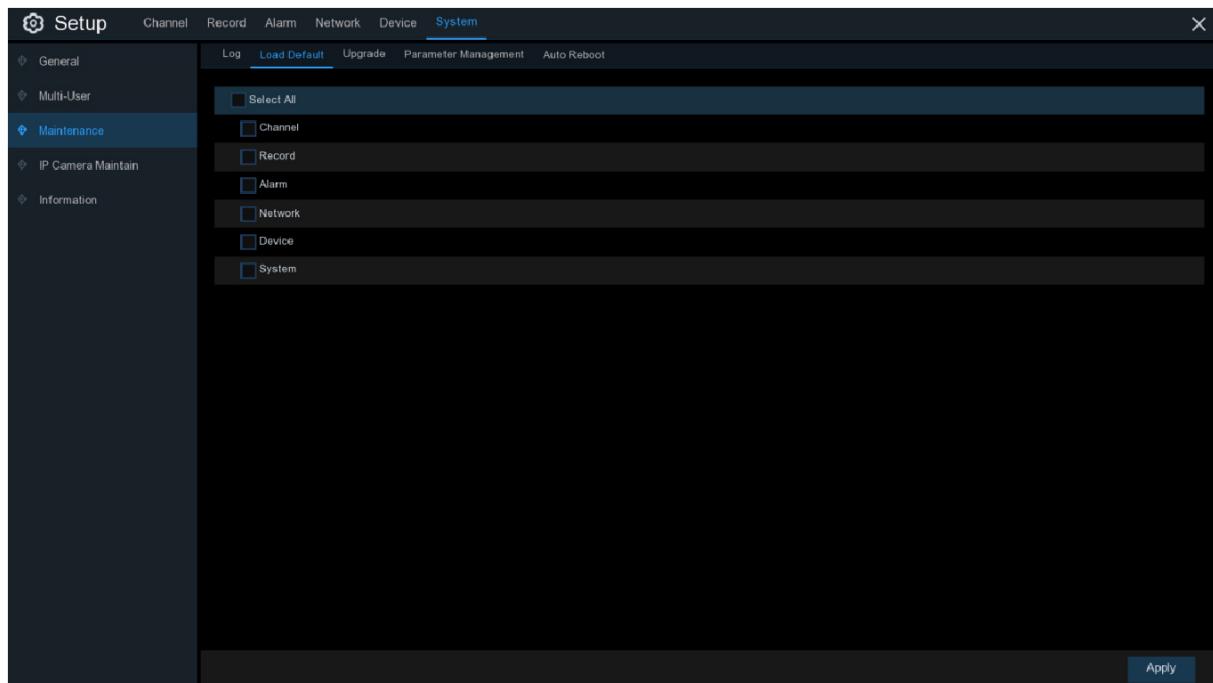
Backup

Log Searching and Backing Up:

1. Click the field next to **Start Date & Start Time** to choose the starting date & time for your search from the on-screen calendar.
2. Click the field next to **End Date & End Time** to choose the end date & time for your search from the on-screen calendar.
3. Select the type of events you would like to search for from the dropdown next to **Log Type**, or select **All** to see the entire system log for the selected time period.
4. Click **Search**.
5. Browse system log events from your search period:
 - Video events can be played back instantly by clicking in the **Playback** column. Right-click to return to your search results.
 - Use the **◀◀ / ▶▶** buttons in the bottom-right corner of the menu to move between pages of system log events.
6. Click **Backup** to create a backup of the system log for your search period.
Please make sure your flash device has been connected to the NVR's USB port.
7. The backup drive menu appears. Navigate to the folder you want the backup file to be saved in, then click **OK** to begin.

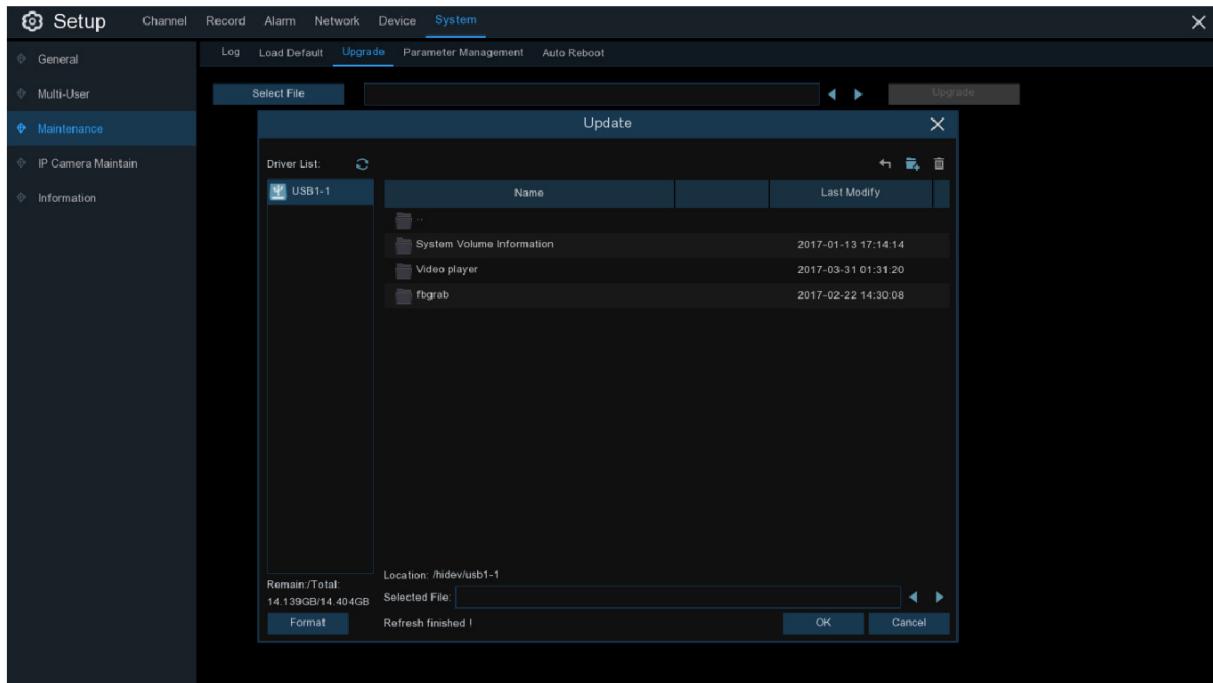
5.6.4.2 Load Default

Reset the NVR settings to its out-of-box state. You can choose to reset all settings at once, or just settings on specific menus. Restoring default settings will not delete recordings and snapshots saved to the hard drive.



Check the items you want restore, or check **Select All** to choose all items. Click **Apply** to load default settings of your chosen items.

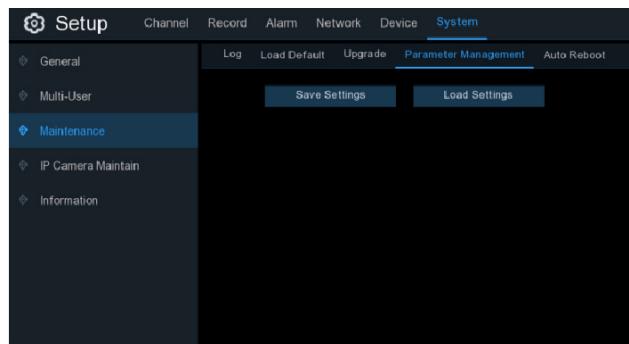
5.6.4.3 Upgrade



1. Copy the firmware file (.sw file) to your USB drive, and insert the USB flash drive into the NVR's USB port.
2. Click Select File button to choose the firmware file in your USB flash drive, then Click **OK**.
3. Click **Upgrade** button to start system upgrade. The system upgrade will last around 5-10 minutes, please do **NOT** power off the NVR or remove the USB from NVR during firmware upgrade.

5.6.4.4 Parameter Management

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

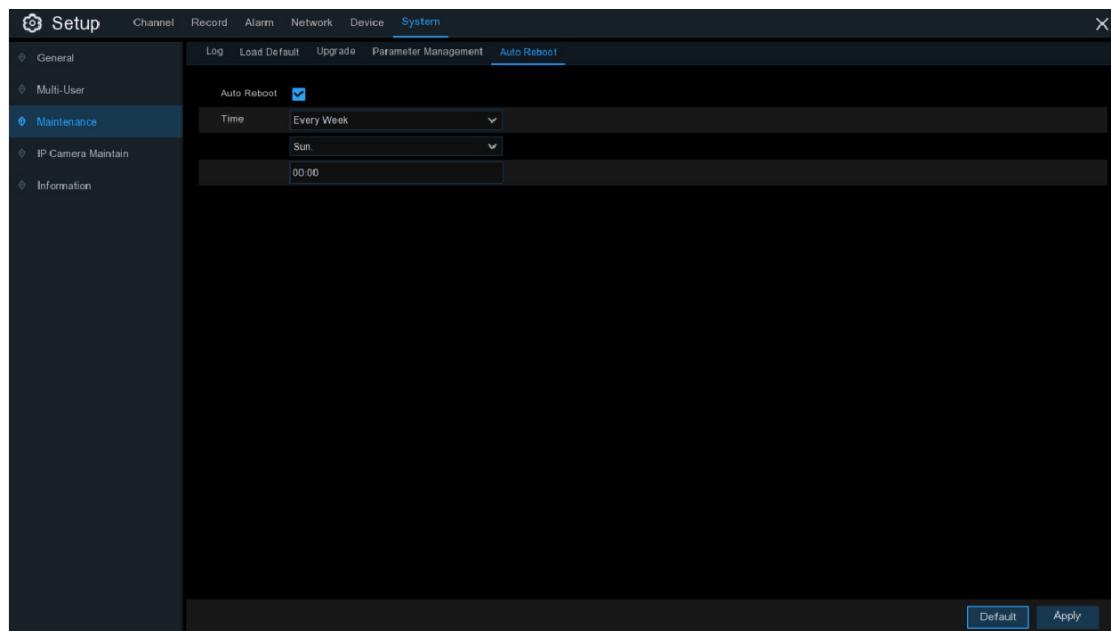


Save Settings: Click to save the NVR current system settings to the USB device. You will be required to input the Admin password to authenticate.

Load Settings: Once you have created a system settings export, you can import the settings on another NVR. Click **Load Settings** button to navigate to the system settings file you want to import from your USB flash driver. You will be required to input the Admin password to authenticate.

5.6.4.5 Auto Reboot

This menu allows the system to auto reboot the NVR regularly. It is recommended to leave this function enabled, as it maintains the operational integrity of your NVR.

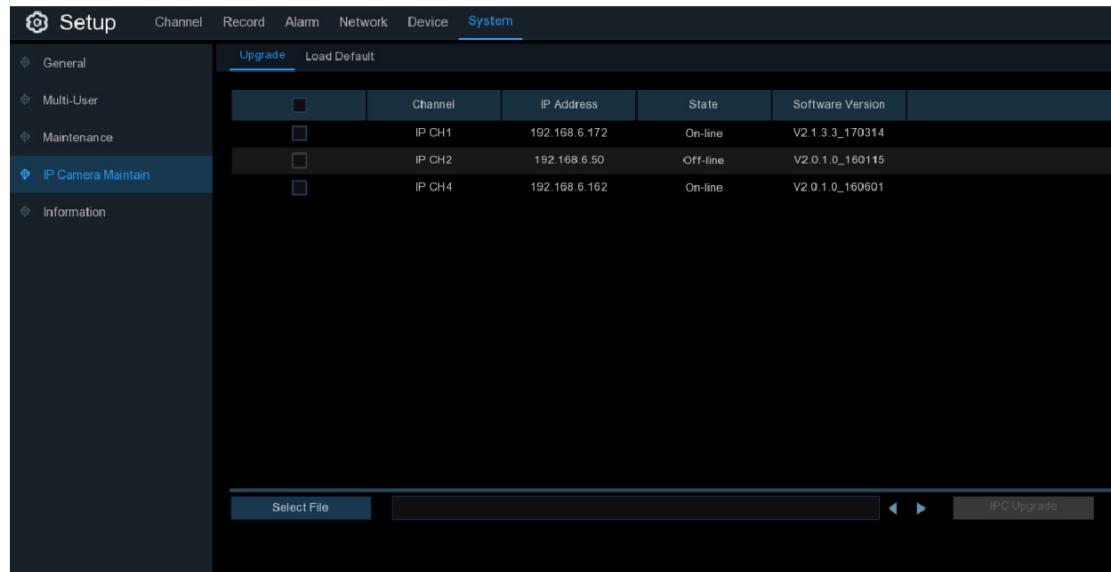


Auto Reboot: Check to enable.

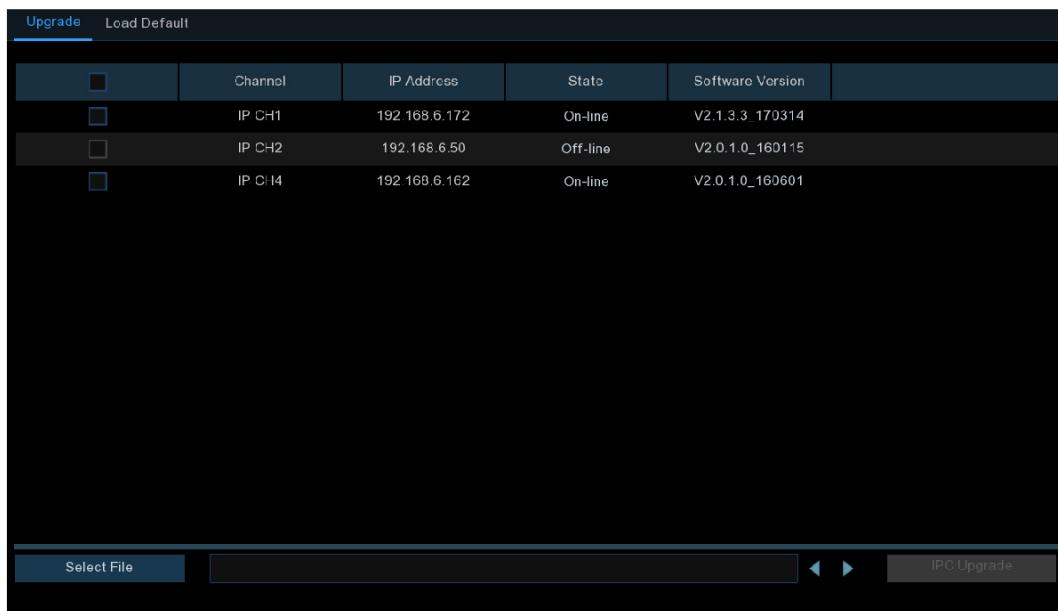
Time: You can set the NVR to reboot by day, week or month.

5.6.5 IP Camera Maintain

This menu allows you to upgrade the IP camera's firmware and restore default settings of IP camera.

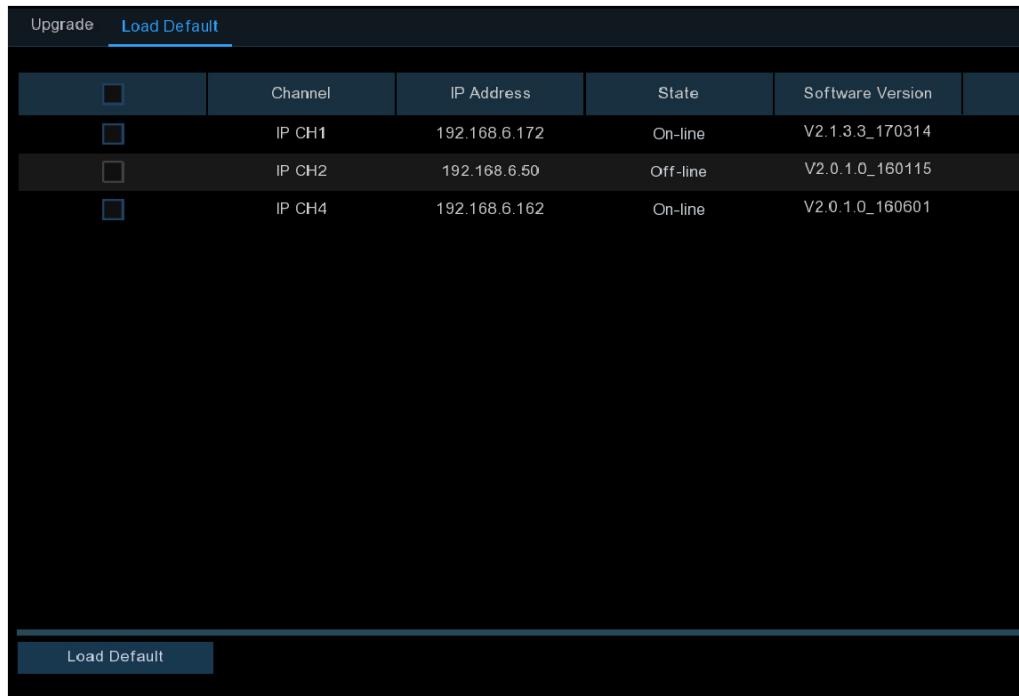


5.6.5.1 Upgrade IP Camera



1. Choose one of the IP cameras you want to upgrade firmware.
2. Click **Select File** select the update file from your USB flash drive, then click **OK**.
3. Click **IPC Upgrade** button to start upgrading. You will be required to input the Admin password to authenticate. Please do **NOT** power off the NVR and IP camera or remove the USB during the upgrading.

5.6.5.2 Load Default Settings for IP Camera



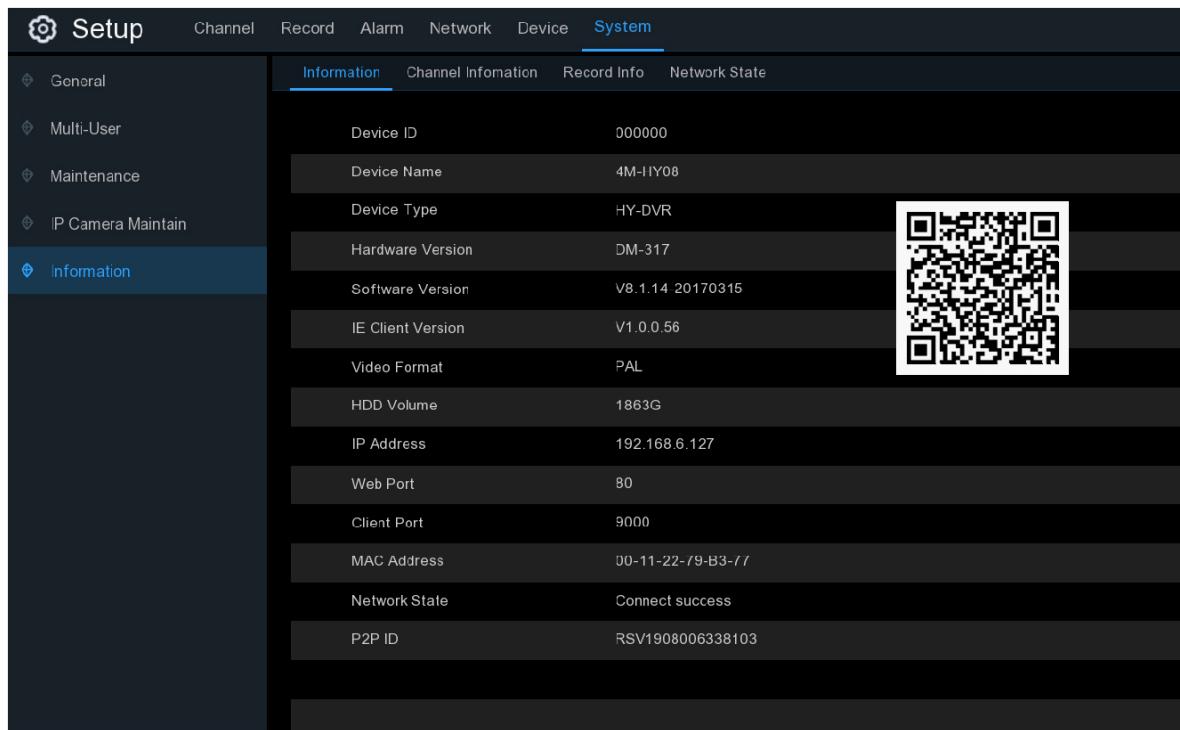
1. Choose the IP cameras you want to restore.
2. Click **Load Default** to restore settings. You will be required to input the Admin password to authenticate.

5.6.6 System Information

This menu allows you to view the system information, channel information, record information & network status.

5.6.6.1 Information

View system information such as device ID, device model name, IP address, MAC address, firmware version and more.

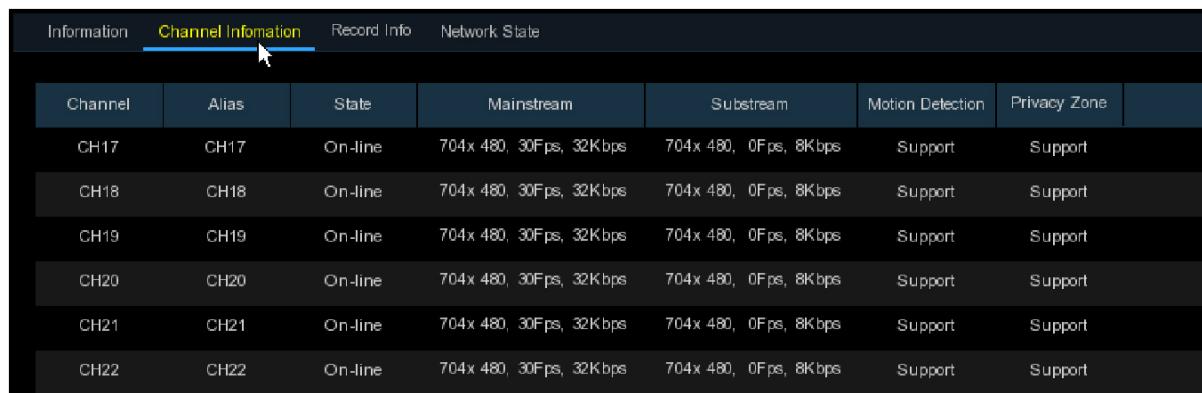


Information		Channel Infomation	Record Info	Network State
Device ID	000000			
Device Name	4M-HY08			
Device Type	HY-DVR			
Hardware Version	DM-317			
Software Version	V8.1.14 20170315			
IE Client Version	V1.0.0.56			
Video Format	PAL			
HDD Volume	1863G			
IP Address	192.168.6.127			
Web Port	80			
Client Port	9000			
MAC Address	00-11-22-79-B3-77			
Network State	Connect success			
P2P ID	RSV1908006338103			

You will find the P2P ID & P2P QR code in the information page.

You can scan this QR cord with mobile app to remote view the NVR.

5.6.6.2 Channel Information



Channel	Alias	State	Mainstream	Substream	Motion Detection	Privacy Zone
CH17	CH17	On-line	704x 480, 30Fps, 32Kbps	704x 480, 0Fps, 8Kbps	Support	Support
CH18	CH18	On-line	704x 480, 30Fps, 32Kbps	704x 480, 0Fps, 8Kbps	Support	Support
CH19	CH19	On-line	704x 480, 30Fps, 32Kbps	704x 480, 0Fps, 8Kbps	Support	Support
CH20	CH20	On-line	704x 480, 30Fps, 32Kbps	704x 480, 0Fps, 8Kbps	Support	Support
CH21	CH21	On-line	704x 480, 30Fps, 32Kbps	704x 480, 0Fps, 8Kbps	Support	Support
CH22	CH22	On-line	704x 480, 30Fps, 32Kbps	704x 480, 0Fps, 8Kbps	Support	Support

View channel information for each connected camera such as alias, mainstream and substream recording specifications, motion detection status & privacy zone.

5.6.6.3 Record Information

Information	Channel Infomation	Record Info	Network State				
Channel	Record State	Record Switch	Stream Type	Resolution	FPS	Bitrate	
CH17	OFF	Enable					
CH18	OFF	Enable					
CH19	OFF	Enable					

View recording information for each connected camera such as bitrate, stream type, recording resolution and frame rate (FPS).

5.6.6.4 Network State

Information	Channel Infomation	Record Info	Network State
Attribute	Value		
WLAN			
IP Address	192.168.1.100		
Subnet Mask	255.255.255.0		
Gateway	192.168.1.1		
MAC Address	88-72-29-86-A3-23		
DHCP	Enable		
Internal Interface	Connected		
IP Address	10.10.25.100		
Subnet Mask	255.255.0.0		
DNS1	192.168.1.1		
DNS2	8.8.8.8		
PPPoE	Disable		
Port			
Web Port	80		
Client Port	9000		
RTSP Port	554		
UPNP	Disable		
Total Band Width:	320Mbps		
Used Band Width:	5.013Mbps		

View network information.

Total Band Width: It shows the NVR's total input band width for IP cameras.

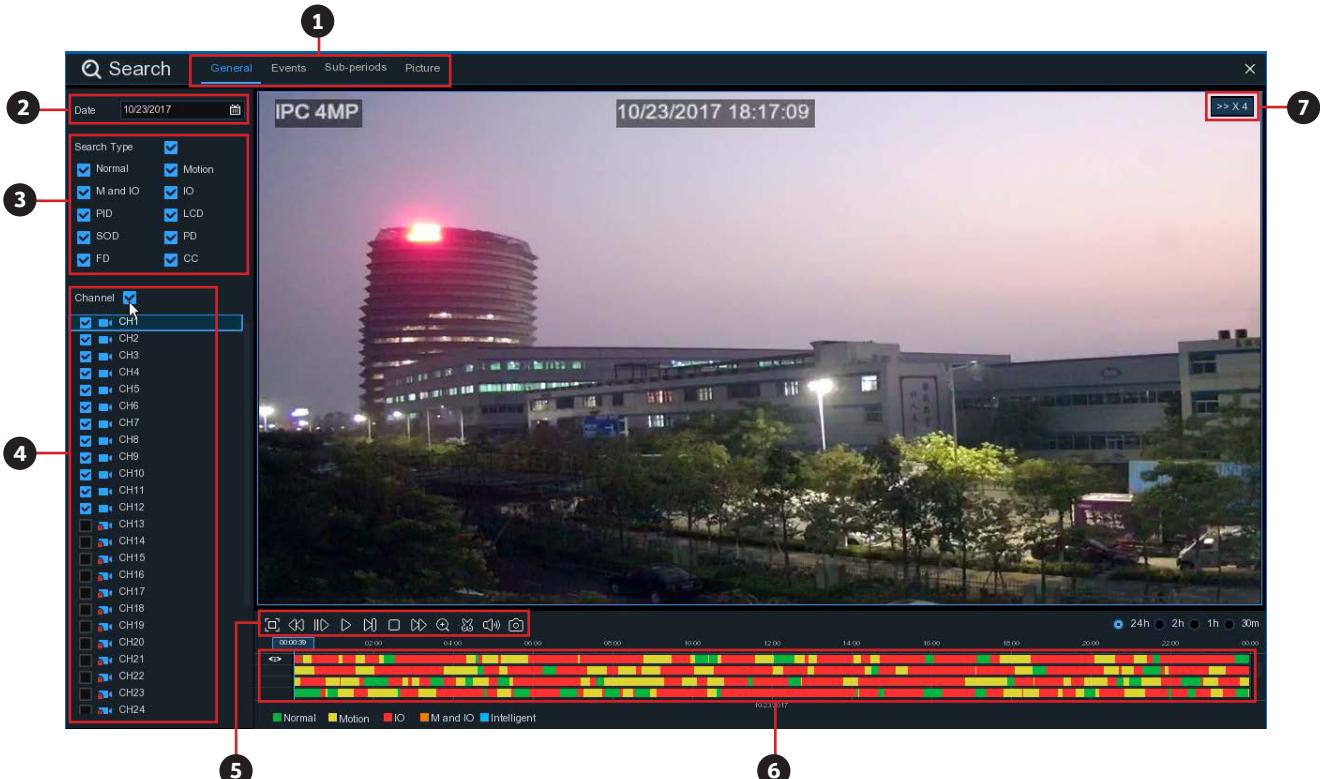
Used Band Width: It shows the used band width of IP cameras.

Chapter 6: Search, Playback & Backup

The Search function gives you the ability to search for and play previously recorded videos as well as snapshots that are stored on your NVR's hard drive. You have the choice of playing video that matches your recording schedule, manual recordings or motion events only. The Backup function gives you the ability to save important events (both video and snapshots) to a USB flash drive or USB Harddrive.

6.1 Using Search Function

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



1. Search Options: the system provides various search & playback methods:

General, Events, Sub-periods, Smart & Pictures

2. Search Date: search by a date to play back.

3. Search Type: the system provides different search types to narrow your search.

4. Channel Selection: to choose the channels you want to search & play.

5. Video Playback Controls: to control the video playback.



- [] Enlarge the video playback to full screen
- [] Rewind, x2, x4, x8 and x16
- [] Slow Play, 1/2, 1/4 and 1/8, 1/16 speed
- [] Play
- [] Pause
- [] Play frame by frame. Click once to play a frame of the video
- [] Stop
- [] Fast Forward, x2, x4, x8 and x16
- [] 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. View more on 6.1.1.1 Video Clip Backup
- [] Save Video Clip.
- [] Volume Control: scroll the slider bar to increase or decrease volume.
- [] Snapshots: to capture a snapshot image to your external USB drive. If the video playback is in split-screen view, move the mouse cursor to the channel you want to capture, and then click the icon to save the snapshot.

6. Timeline: Continuous recordings are shown with coloured bars to represent different types of recording (legend shown in the bottom-right corner of the display). Use the timeframe options to view a smaller or larger time period.

Different types of recording shown in different colours:



Continuous Recording in **Green** colour;

Motion Recording in **Yellow** color;

I/O Recording in **Red** colour;

Motion & I/O Recording in **Orange** colour;

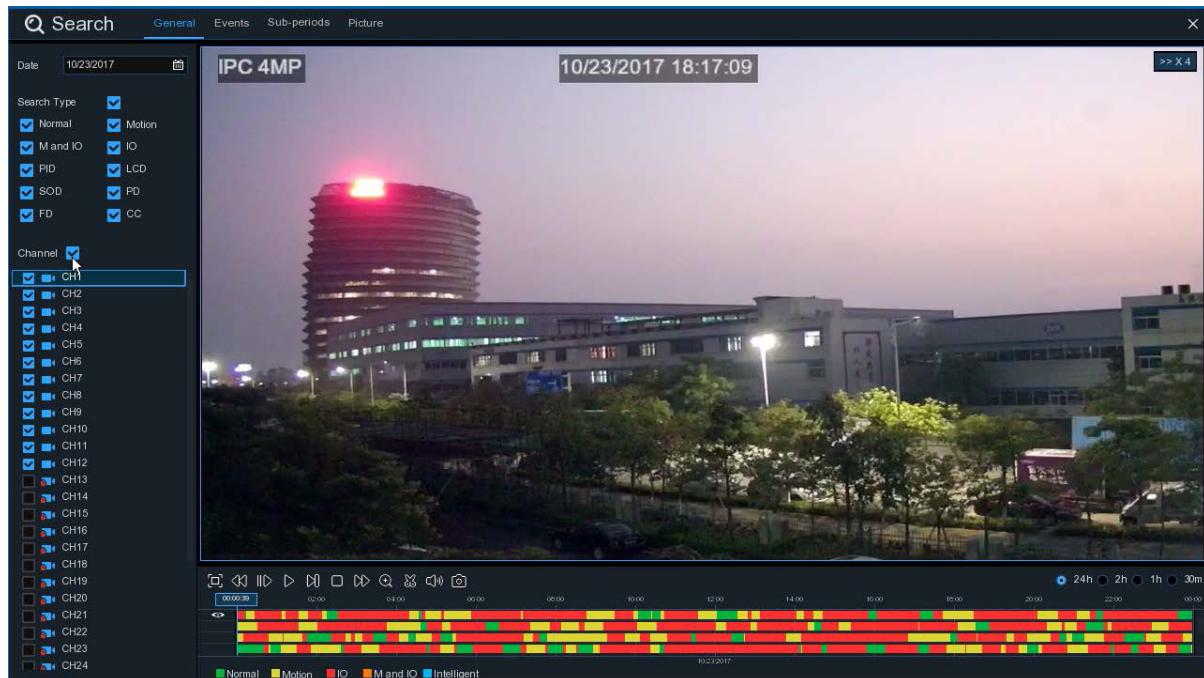
Intelligent Recording in **Blue** colour;

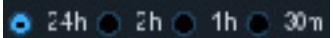
PIR Recording in **Purple** colour;

7. Playback Status: display the video play status.

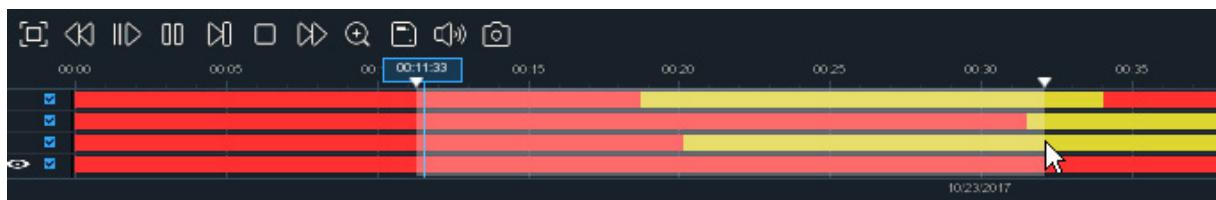
6.1.1 Search & Play Video in General

This menu gives you an option to search & play recordings for a selected date.



1. Select a date to search for video recordings from the calendar.
2. Choose a search type.
3. Check channels you would like to search, or check **Channel** to search all connected channels.
4. The search result will display on the timeline from 00:00 to 24:00.
5. Click  button to start playback.
6. Control the playback with buttons on **Video Playback Controls**.
7. Use the timeframe options  to view a smaller or larger time period.
8. If you want to quickly save a section of video during playing back to a USB flash drive, use the  **Video Clip** backup function.

6.1.1.1 Video Clip Backup

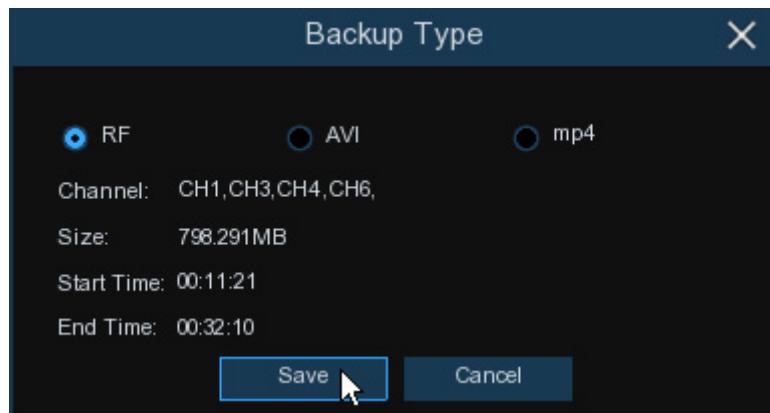


1. Insert your external USB drive to the NVR.
2. Start a video recording playback.
3. Click .
4. Check the channel(s) you want to make a video clip backup.
5. Move the mouse cursor to the timeline where you want to start the video clip.

6. Press and hold the left button of your mouse, and drag the cursor to the timeline where you want to end the video clip.

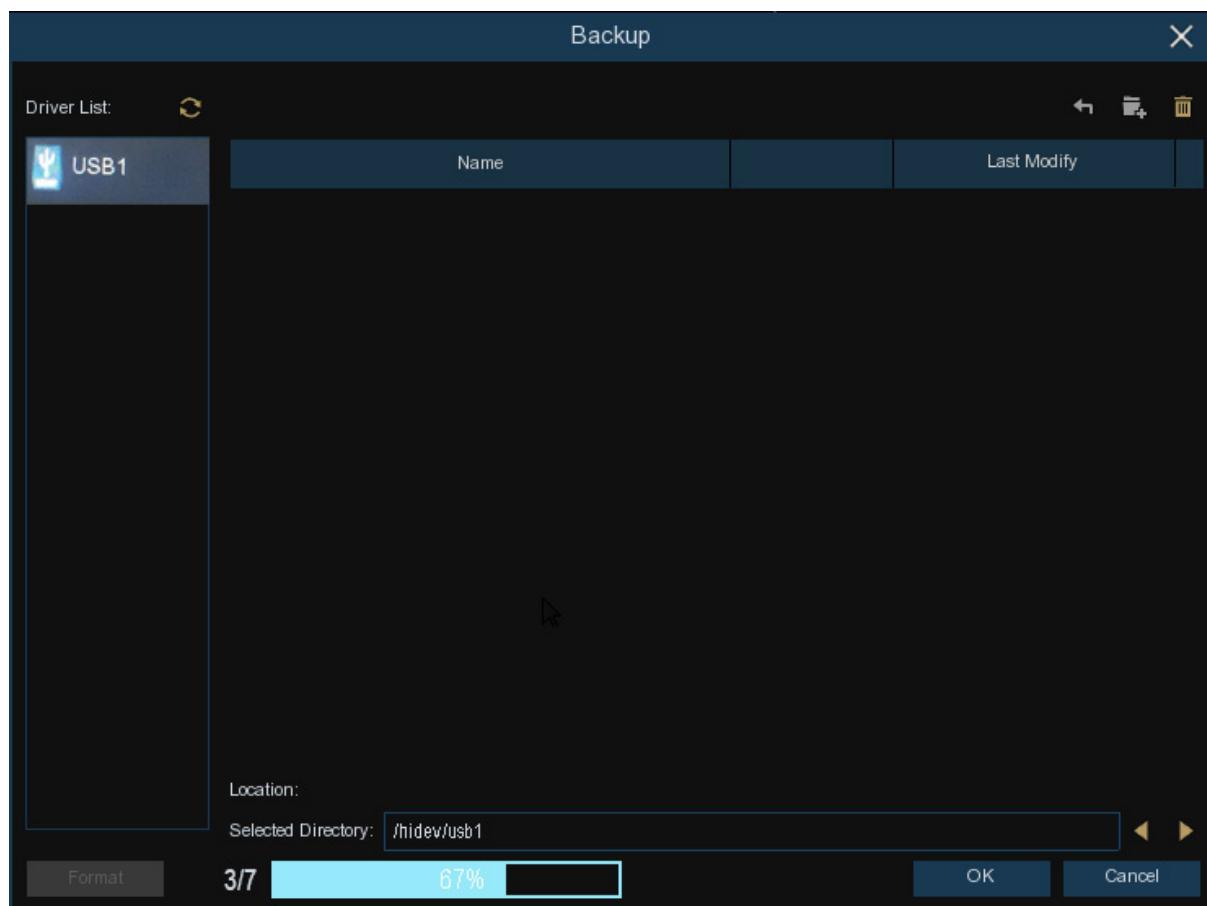
7. The  icon has been changed to  icon, click  to save the video clip.

8. Select a file type for your backup files, click **Save** button to save the video clips. Please make sure your USB drive has enough space to save the video clips.



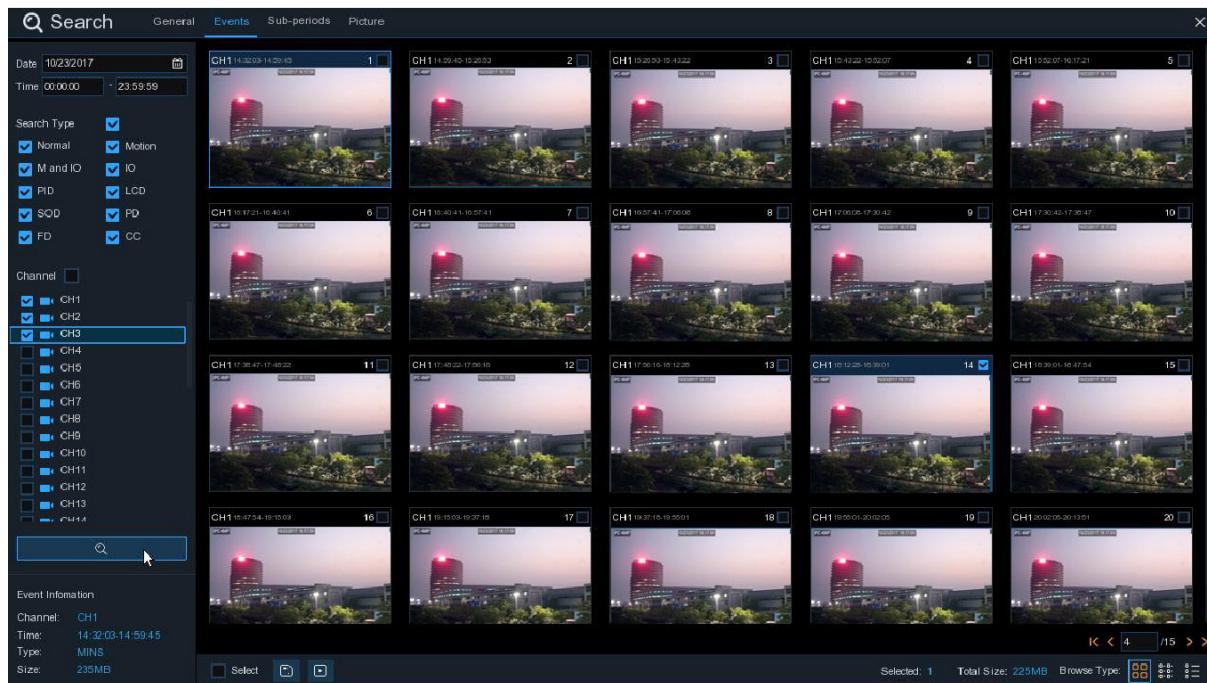
9. The backup drive menu appears. Navigate to the folder you want the backup files to save in.

10. Click **OK** to begin. The progress bar at the bottom of the window shows you the progress of the backup.



6.1.2 Event Search, Playback & Backup

Event search lets you view a list of video recordings with the channel, start and end time, and recording type conveniently summarised. You can also quickly back up events to a USB flash drive.



To search, play and back up for events:

1. Choose the date and time you want to search.
2. Check the recording types you want to search, or check **Search Type** to choose all.
3. Choose the channels you want to search, or check **Channel** to choose all channels.
4. Click icon to start search,
5. Events fitting your search criteria are displayed in list form. You can double-click the left button of your mouse upon one of the events to play the video immediately.
6. Click icons in the bottom-right corner of the menu to browse between pages of events, or input the page you want to browse.
7. You can switch the view of list form in by clicking below icons which is shown at the right bottom corner of the screen.



Thumbnails View. You can view the snapshots of the events.



List View. The events will be displayed in list.



Detailed View. You can view the details of the events.

1 CH1 00:00:00	2 CH1 00:00:45	3 CH1 00:18:30	4 CH1 00:44:03	5 CH1 01:10:48	6 CH1 01:19:22	7 CH1 01:35:37	8 CH1 01:43:32
9 CH1 02:01:12	10 CH1 02:25:38	11 CH1 02:43:17	12 CH1 03:02:08	13 CH1 03:08:37	14 CH1 03:10:01	15 CH1 03:14:54	16 CH1 03:42:12
17 CH1 04:07:23	18 CH1 04:10:35	19 CH1 04:36:40	20 CH1 05:00:20	21 CH1 05:24:12	22 CH1 05:45:55	23 CH1 06:04:07	24 CH1 06:14:27
25 CH1 06:41:12	26 CH1 06:44:25	27 CH1 07:01:42	28 CH1 07:20:43	29 CH1 07:31:23	30 CH1 07:48:04	31 CH1 08:17:33	32 CH1 08:40:16
33 CH1 08:50:34	34 CH1 09:07:05	35 CH1 09:25:12	36 CH1 09:44:07	37 CH1 09:48:08	38 CH1 10:00:52	39 CH1 10:14:18	40 CH1 10:34:42
41 CH1 10:45:57	42 CH1 11:12:48	43 CH1 11:20:27	44 CH1 11:48:18	45 CH1 12:07:25	46 CH1 12:30:12	47 CH1 12:44:43	48 CH1 12:55:49
49 CH1 13:08:48	50 CH1 13:30:46	51 CH1 13:37:51	52 CH1 13:57:01	53 CH1 14:10:24	54 CH1 14:11:16	55 CH1 14:18:12	56 CH1 14:35:26
57 CH1 14:40:31	58 CH1 14:44:42	59 CH1 14:48:38	60 CH1 15:15:44	61 CH1 15:39:06	62 CH1 16:01:07	63 CH1 16:16:00	64 CH1 16:24:41
65 CH1 16:27:29	66 CH1 16:43:47	67 CH1 16:45:43	68 CH1 17:01:14	69 CH1 17:05:03	70 CH1 17:28:30	71 CH1 17:54:23	72 CH1 18:08:49
73 CH1 18:36:07	74 CH1 18:44:14	75 CH1 18:57:14	76 CH1 19:07:37	77 CH1 19:12:12	78 CH1 19:30:50	79 CH1 19:50:34	80 CH1 20:01:42
81 CH1 20:28:40	82 CH1 20:34:32	83 CH1 20:49:48	84 CH1 21:04:51	85 CH1 21:21:09	86 CH1 21:42:12	87 CH1 21:47:38	88 CH1 22:02:49
89 CH1 22:29:59	90 CH1 22:39:14	91 CH1 22:54:42	92 CH1 22:57:45	93 CH1 23:08:03	94 CH1 23:22:59	95 CH1 23:35:50	

	Channel	Type	Date	Start Time	End Time	Size	Playback	Lock
<input type="checkbox"/>	1	CH1	MINS	10/23/2017	00:00:00	00:00:45	6MB	
<input type="checkbox"/>	2	CH1	MINS	10/23/2017	00:00:45	00:18:30	150MB	
<input type="checkbox"/>	3	CH1	MINS	10/23/2017	00:18:30	00:44:03	217MB	
<input type="checkbox"/>	4	CH1	MINS	10/23/2017	00:44:03	01:10:48	227MB	
<input type="checkbox"/>	5	CH1	MINS	10/23/2017	01:10:48	01:19:22	72MB	
<input type="checkbox"/>	6	CH1	MINS	10/23/2017	01:19:22	01:35:37	138MB	
<input type="checkbox"/>	7	CH1	MINS	10/23/2017	01:35:37	01:43:32	67MB	
<input type="checkbox"/>	8	CH1	MINS	10/23/2017	01:43:32	02:01:12	150MB	
<input type="checkbox"/>	9	CH1	MINS	10/23/2017	02:01:12	02:25:38	207MB	
<input type="checkbox"/>	10	CH1	MINS	10/23/2017	02:25:38	02:43:17	150MB	
<input type="checkbox"/>	11	CH1	MINS	10/23/2017	02:43:17	03:02:08	160MB	
<input type="checkbox"/>	12	CH1	MINS	10/23/2017	03:02:08	03:08:37	55MB	

In the detailed view mode, you can lock the video events to keep events from being overwritten in the hard drive. Click the icon to lock or click to unlock the events.

8. When you click the left button of your mouse upon one of the event, system will show the event information on the left bottom corner of the screen.
9. Check the box next the number of the event to select files, or check the box next Select to select all events in the page.
10. The number of selected files, total size information will be displayed at the right bottom of the screen.
11. After selecting file, you can click icon to save the video to USB flash drive. Or click icon into event playback control window to play the video.

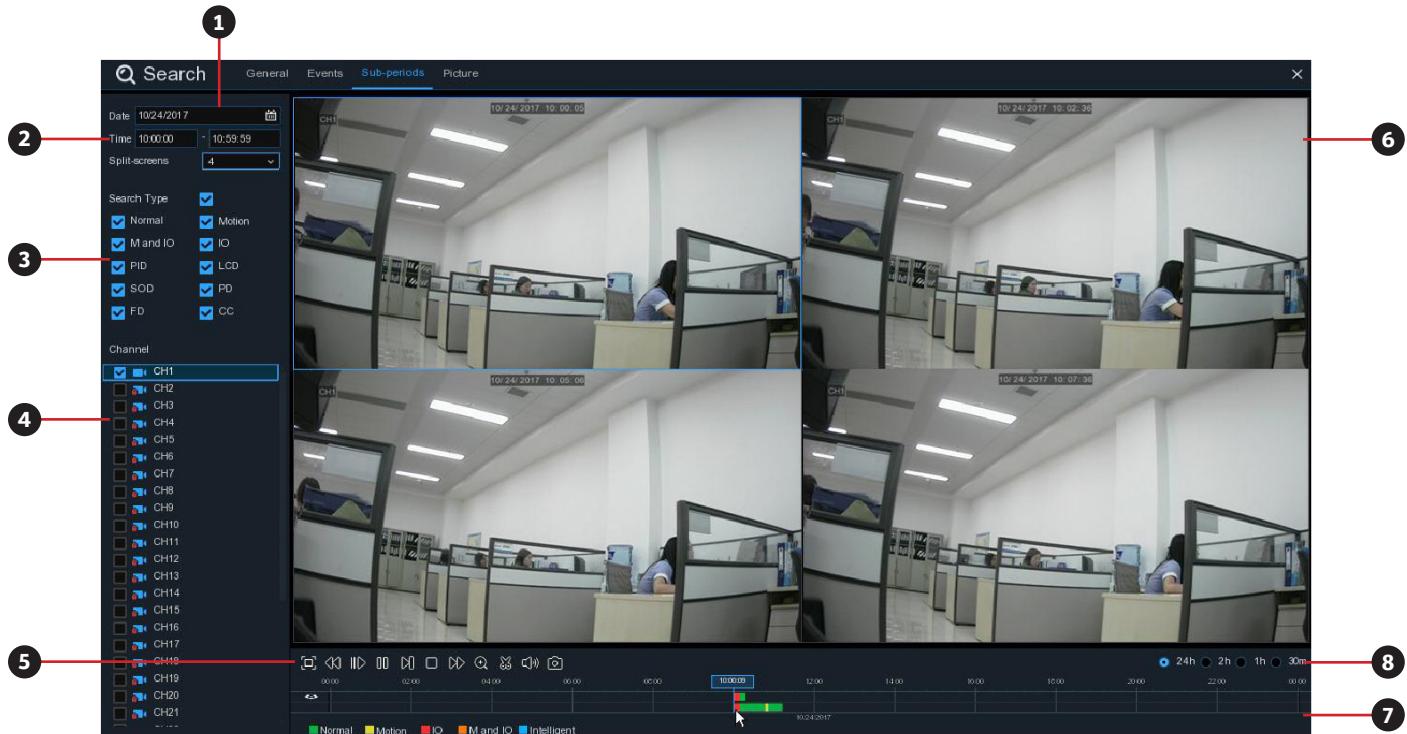
6.1.2.1 Event Playback Control



1. Event List, you can select the events here.
2. Click icon to save your selected event videos to USB flash drive. Click icon to play video.
3. Control the playback with buttons on **Video Playback Controls**. You can click icon or click right button of your mouse to exit the playback and return to event search window.
4. The event you are playing now will be displayed on the timeline.
5. Use the timeframe options 24h 2h 1h 30m to view a smaller or larger time period.

6.1.3 Sub-periods Playback

Sub-periods playback allows you to play multiple normal recordings and motion events simultaneously from a single channel. With normal and event recordings, the video is divided evenly depending on the split-screen mode that has been selected. For example, if the video is an hour long and you have selected Split-screens x 4, each split-screen will play for 15 minutes.



To search and play video in sub-periods:

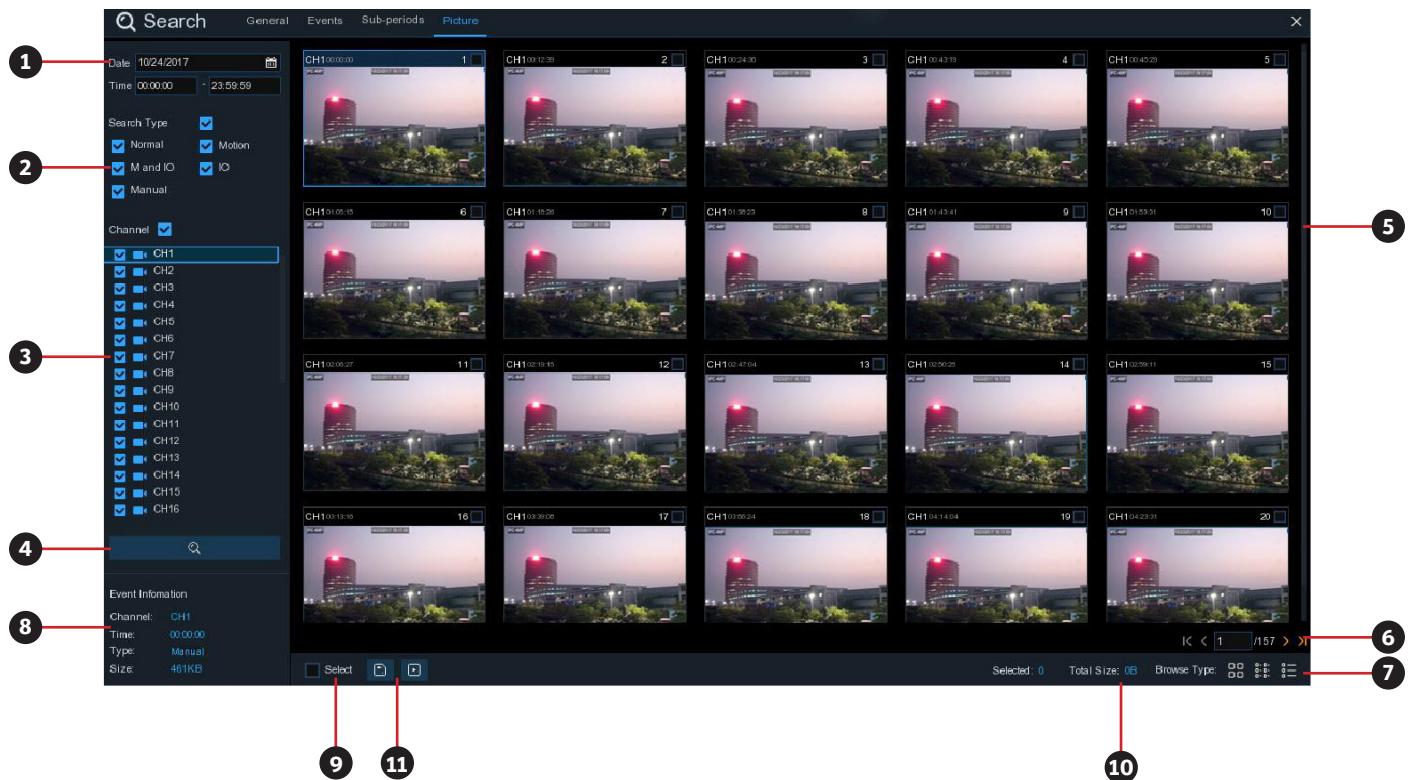
1. Choose the date & time you want to search.
2. Choose the split-screens you want the videos to be played in.
3. Check the recording types you want to search, or check Search Type to choose all.
4. Choose the channels you want to search. Please note that this function only supports to search & play one channel at a time.
5. Click the play button  to start playing. Control the playback with buttons on **Video Playback Controls**.
6. Videos are being played in split-screens.
7. Click the left button of your mouse upon a particular split-screen, the time period of the video split-screen will be displayed on the timeline. The colour bar on the top of the timeline indicates the time span of the video split-screen you have clicked. The colour bar on the bottom of the timeline indicates the time span for the whole videos you have searched.



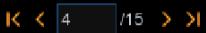
8. Use the timeframe options  to view a smaller or larger time period.

6.1.4 Picture Search & View

This function can be used to search, play and copy snapshots to a USB flash drive.



To search, play and back up pictures:

1. Choose the date & time you want to search.
2. Check the picture capture types you want to search, or check **Search Type** to choose all.
3. Choose the channels you want to search, or check **Channel** to choose all channels.
4. Click  button to start search.
5. Pictures fitting your search criteria are displayed in list form. You can double-click one of the pictures to get a larger view.
6. Click  icons in the bottom-right corner of the menu to browse between pages of pictures, or input the page you want to browse.
7. You can switch the view of list form in by clicking below icons which is shown at the right bottom corner of the screen:

 **Thumbnails view.** You can view the snapshots of the events.

 **List view.** The events will be displayed in list.

1 CH1 00:00:00	2 CH1 00:00:45	3 CH1 00:18:30	4 CH1 00:44:09	5 CH1 01:10:48	6 CH1 01:19:22	7 CH1 01:35:57
9 CH1 02:01:12	10 CH1 02:25:38	11 CH1 02:43:17	12 CH1 03:02:08	13 CH1 03:08:37	14 CH1 03:10:01	15 CH1 03:14:54
17 CH1 04:07:23	18 CH1 04:19:35	19 CH1 04:36:40	20 CH1 05:00:20	21 CH1 05:24:12	22 CH1 05:45:55	23 CH1 06:04:07
25 CH1 06:41:12	26 CH1 06:44:25	27 CH1 07:01:42	28 CH1 07:20:43	29 CH1 07:31:23	30 CH1 07:48:04	31 CH1 08:17:33
33 CH1 09:50:34	34 CH1 09:07:05	35 CH1 09:25:12	36 CH1 09:44:07	37 CH1 09:45:06	38 CH1 10:00:52	39 CH1 10:14:18
41 CH1 10:45:57	42 CH1 11:12:48	43 CH1 11:20:27	44 CH1 11:48:18	45 CH1 12:07:25	46 CH1 12:30:12	47 CH1 12:44:43
49 CH1 13:06:48	50 CH1 13:30:46	51 CH1 13:37:51	52 CH1 13:57:01	53 CH1 14:10:24	54 CH1 14:11:16	55 CH1 14:16:12
57 CH1 14:40:31	58 CH1 14:44:42	59 CH1 14:48:38	60 CH1 15:15:44	61 CH1 15:39:06	62 CH1 16:01:07	63 CH1 16:16:00

 **Detailed view.** You can view the details of the events.

	Channel	Type	Date	Time	Size	Playback
<input type="checkbox"/> 1	CH1	MIN	10/24/2017	00:00:00	160KB	<input type="checkbox"/>
<input type="checkbox"/> 2	CH1	MIN	10/24/2017	00:12:01	201KB	<input type="checkbox"/>
<input type="checkbox"/> 3	CH1	MIN	10/24/2017	00:21:20	401KB	<input type="checkbox"/>
<input type="checkbox"/> 4	CH1	MIN	10/24/2017	00:24:38	111KB	<input type="checkbox"/>
<input type="checkbox"/> 5	CH1	MIN	10/24/2017	00:37:25	167KB	<input type="checkbox"/>
<input type="checkbox"/> 6	CH1	MIN	10/24/2017	00:55:58	210KB	<input type="checkbox"/>

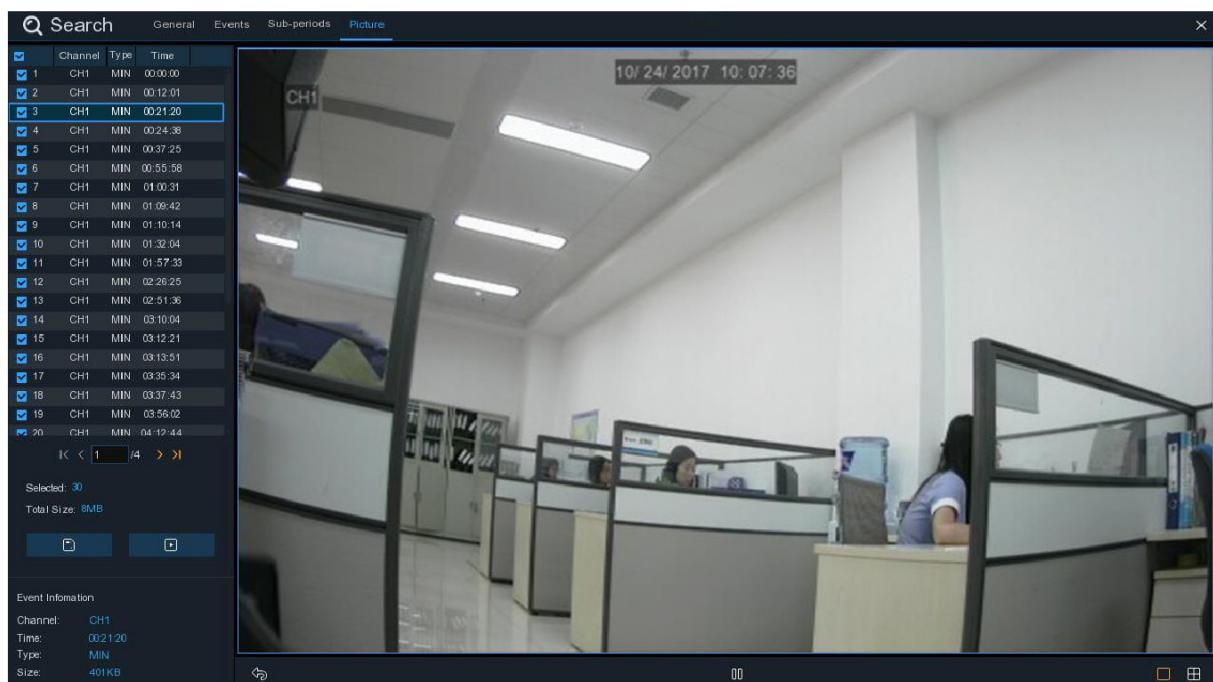
8. When you click the left button of your mouse upon one of the pictures, system will show the picture information on the left bottom corner of the screen.

9. Check the box next the number of the event to select files, or check the box next **Select** to select all pictures in the page.

10. The number of selected files, total size information will be displayed at the right bottom of the screen.

11. After selecting file, you can click  button to save the pictures to USB flash drive. Or click  button to go into picture preview control window.

6.1.5.1 Picture Preview Control



1. Picture List, you can select the pictures here.

2. Click  button to save your selected pictures to a USB flash drive. Click  button to view the pictures in slideshow.

3. Press  button to exit preview control window and go back to picture search window.

Press  button to pause, press  to resume slideshow.

Press  button to display previous snapshot or group of snapshots, or press  to display the next snapshot or group of snapshots.

Click  button to view a single snapshot at a time, click  button to view four snapshots at a time, press  buttons to view nine snapshots at a time.

Chapter 7: Remote Access via Web Client

Use the Web Client to remotely access your NVR at any time via a PC. Before you access the Web Client, you need to ensure that the internet settings of the NVR are configured properly.

7.1 System Environment Requirements

The minimum hardware and OS requirements to run the Web Client are below.

Item	Minimum	Recommended
CPU	Intel® Core™ i5 CPU	Intel® Core™ i5 CPU or higher
RAM	4G or more	8G or more
Hard Drive	500G or more	1000G or more
Display RAM	2G or more	4G or more
Display Resolution	1280*1024	1920*1080
OS	Windows 7 or above Mac OS X® 10.9 or above	
DirectX	DirectX 11	
Direct 3D	Acceleration Function	
Ethernet Adapter	10/100/1000M Ethernet Adapter	
IE	Microsoft Internet Explorer (Ver. 11,10,9,8). It doesn't support Edge.	
Mozilla Firefox	V51 or below. It doesn't support V52 or above version.	
Google Chrome	V44 or below. It doesn't support V45 or above version.	
Mac Safari	5.1 or above	

7.2 Web Plugin Download and Installation

To access the Web Client, do the following:

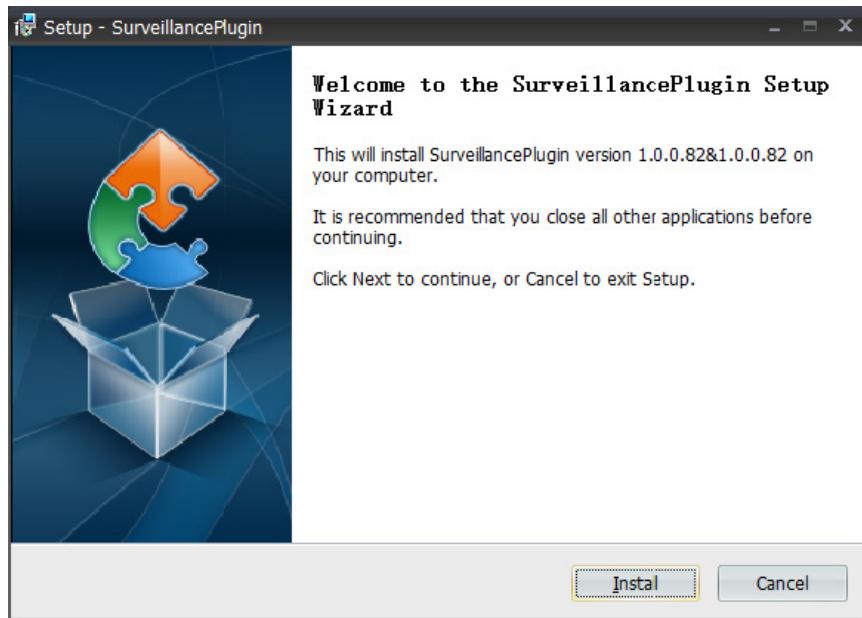
For IE/Chrome/Firefox:

1. Launch the explorer on your PC and enter the NVR IP address or DDNS domain name (HostName) you have set on NVR in the URL box.
2. For the first time running the web client, the system will require you to install the web client plugin. Click download to **download** the plugin and install to your computer.

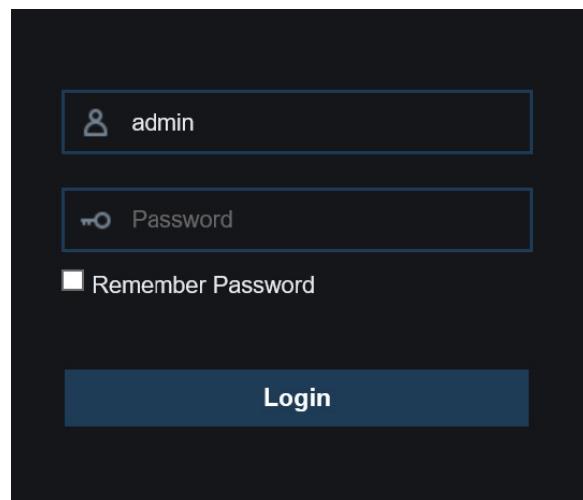
You haven't installed the plugin or it is not the latest version.

Please click [download](#) to download the latest plugin.

Please close browser before plugin installation!!!



3) After installing the plug-in, close & launch your browser again and repeat step 1 to open the login page. Input your user name and password to login the web client.



Note: If you use Google Chrome, please use Version V41 or below. If you use V42 to V44, you need to enable NPAPI plugins. Please enter **chrome://flags/#enable-npapi** on URL bar to find and enable NPAPI. V45 or above is not supported

For Mac SAFARI:

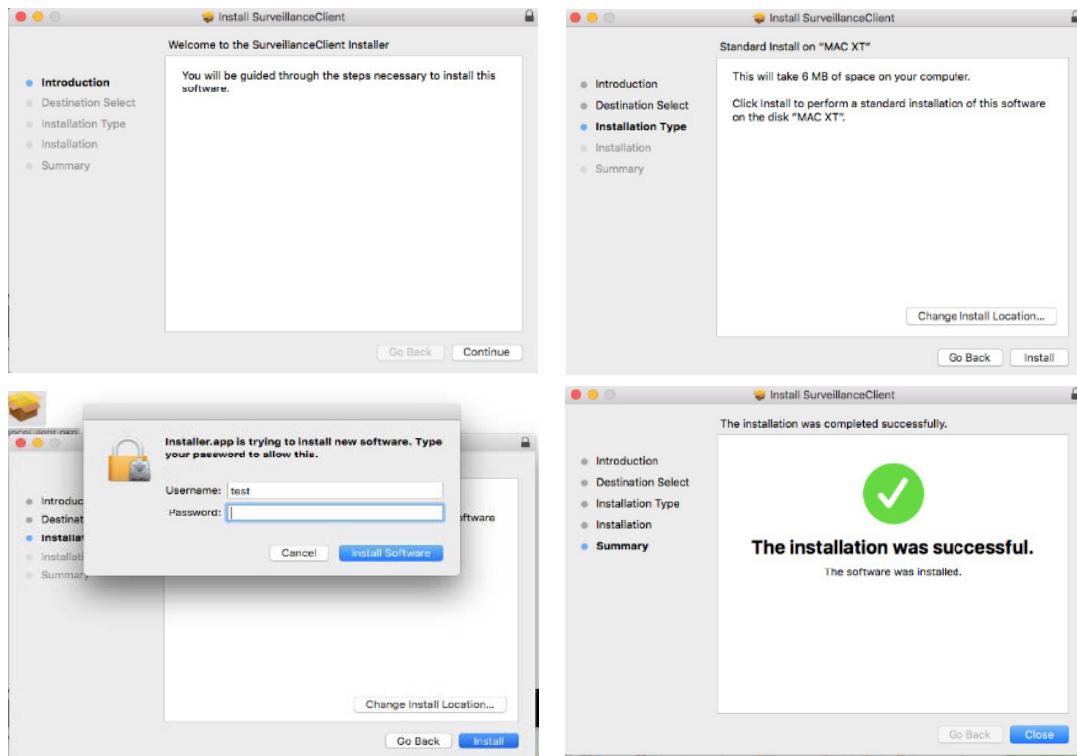
- 1) Launch Safari in your Mac, and enter the NVR IP address or DDNS domain name (Host Name) you have set on the NVR in the URL box.



- 2) Download the plug-in “SurveillanceClient.dmg”, locate the downloaded file and double click it.



- 3) Click on “Continue” → “Install”. Enter user name and password for your Mac computer, Click on “Install Software” → “Close” to finish installation.



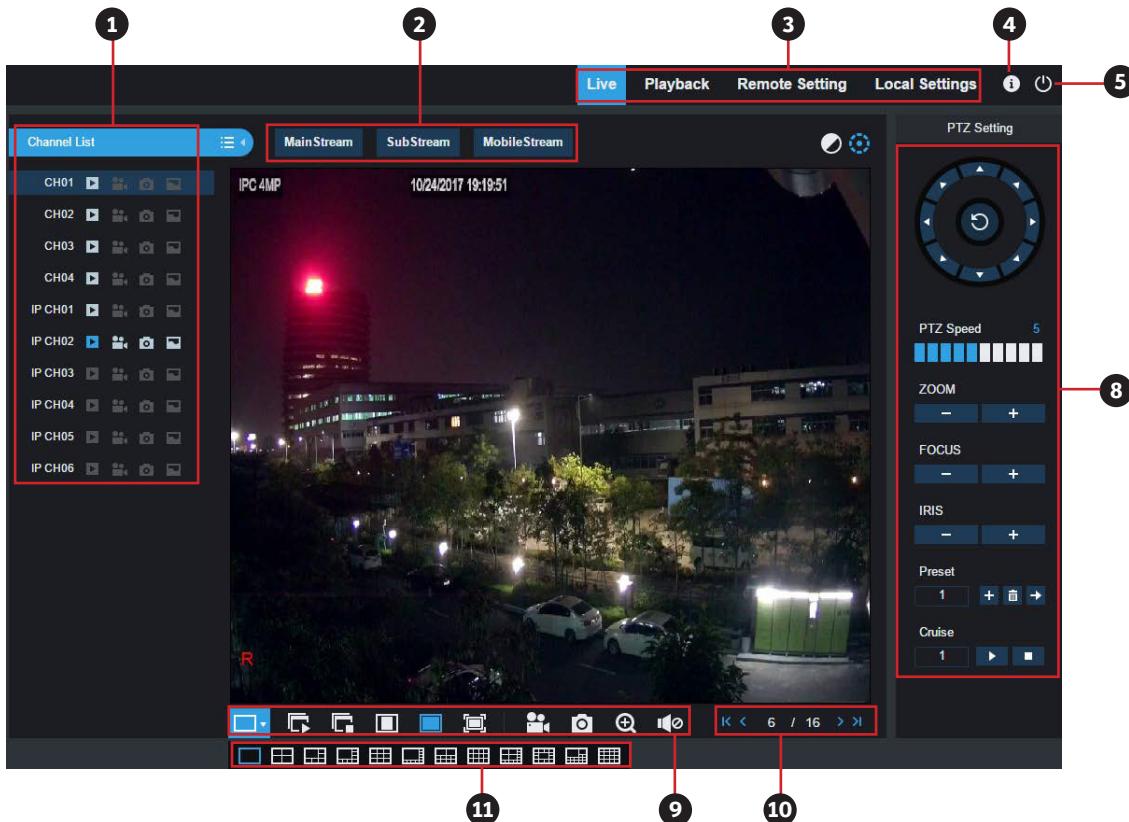
- 4) Close Safari repeat step 1 to open the Web Client login page.

7.3 Web Client Manager

The web client allows you to fully control the NVR with the administrator account. Please make sure to protect your user name & password to prevent unauthorised access.

7.3.1 Live Interface

This is the first screen that opens after you have logged in to the Web Client. Here you can open or close live preview, record video to local computer manually, take snapshots of the screens, PTZ control, colour adjustment, etc.



1 - Channel List: Open the channel list for quick camera function

Click button to display the Channel List.

Click button to hide the Channel List.

- Turn the Live video stream on/off. The button is in blue color if the live video stream is on.
- Manual Recording buttons. Click to start manually recording live stream video. Click again to stop recording. Manual recordings are saved to your computer. While in recording, the button is in blue color.
- Manual snapshot button. Click to save a snapshot of the current live display to your computer.
- Bitrate button. Set camera to use mainstream, substream or mobile stream video settings. Mobile stream is available for IP channels only.

2 - Live Video Stream Options:

Mainstream: View all live videos using high-quality mainstream video settings.

Substream: View all live videos using middle-quality substream video settings.

Mobile Stream: View all live video using lower-quality mobile stream video settings to conserve bandwidth. Available for IP channels only.

3 - Main Menus:

Live: View live video from cameras.

Playback: View recorded video which are saved on the NVR's HDD.

Remote Setting: Access functions of the NVR setting menus.

Local Settings: Set download locations for recordings and snapshots taken using Web Client, and choose file type for video files.

4 - Information: Hover over to see system details.

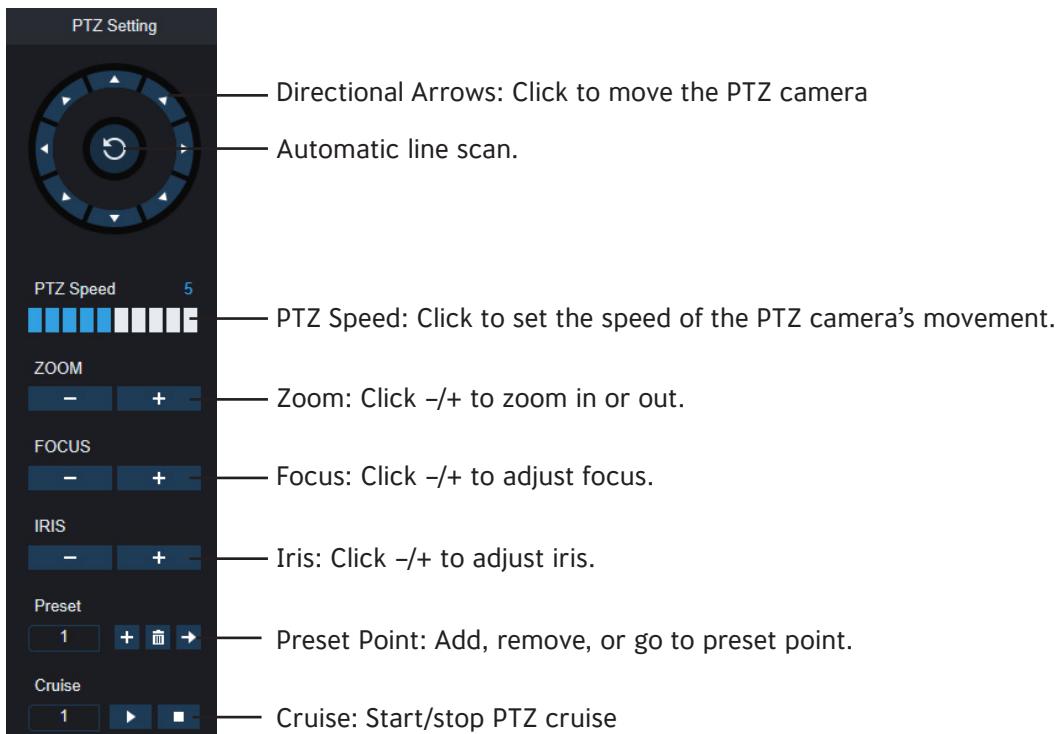
5 - Exit.

6 - Color Controls. Click to display or hide the colour controls.



7 - PTZ Controls: Click to display or hide the PTZ controls for using PTZ cameras.

8 - PTZ Controls



9- Live View Control Buttons:



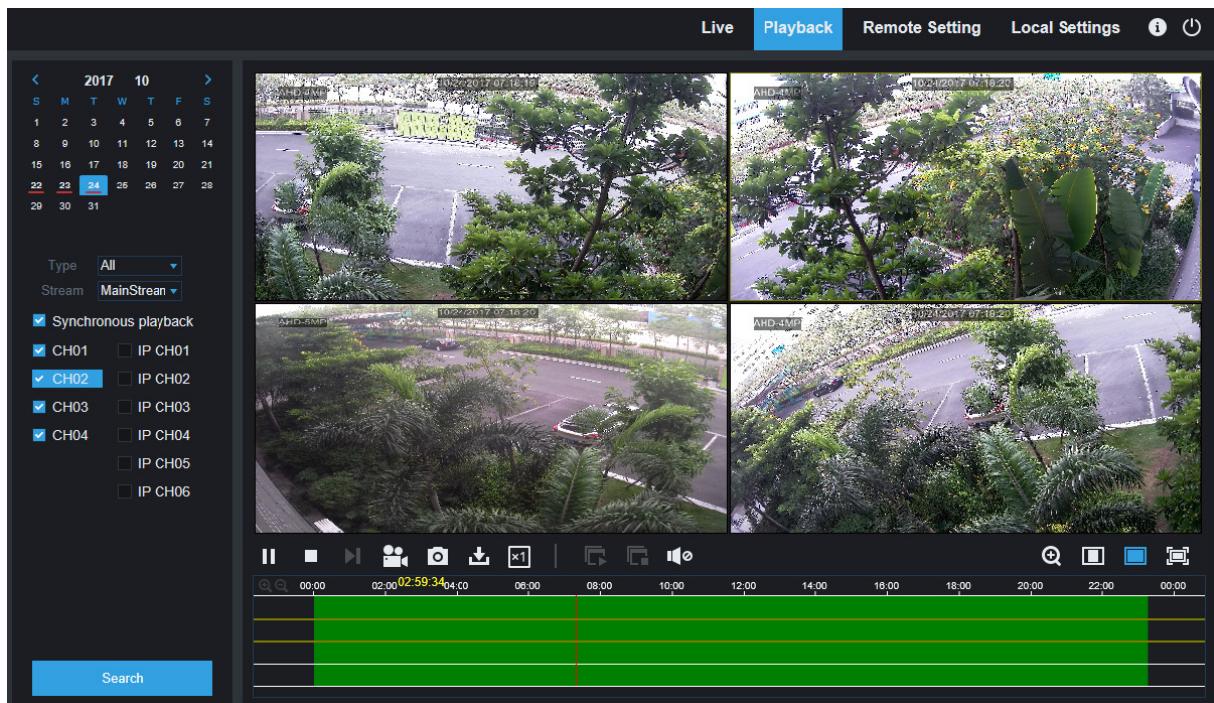
- Open the images in Live window.
- Close all the Live channels
- Original Proportions: Shows live video with the original proportions
- Stretch: Stretch live video to fit the full area for each channel on screen.
- To enlarge the web client to full screen.
- Manual Recording: Click to start manually recording for all displayed channels. Click again to stop recording. Manual recordings are saved to your computer.
- Snapshot: Click to save snapshots of all current displayed channels to your computer.
- Digital Zoom: Click upon on a live image, then click-and-drag over an area of the live image to enlarge. Right-click to return to the normal display.
- Volume Control. Volume is mute.

10 - Navigation: Shows current page number for the channels shown on screen. Use the arrow keys to switch between pages.

11 - Page View: Click to select how many channels appear on screen at a time.

7.3.2 Playback

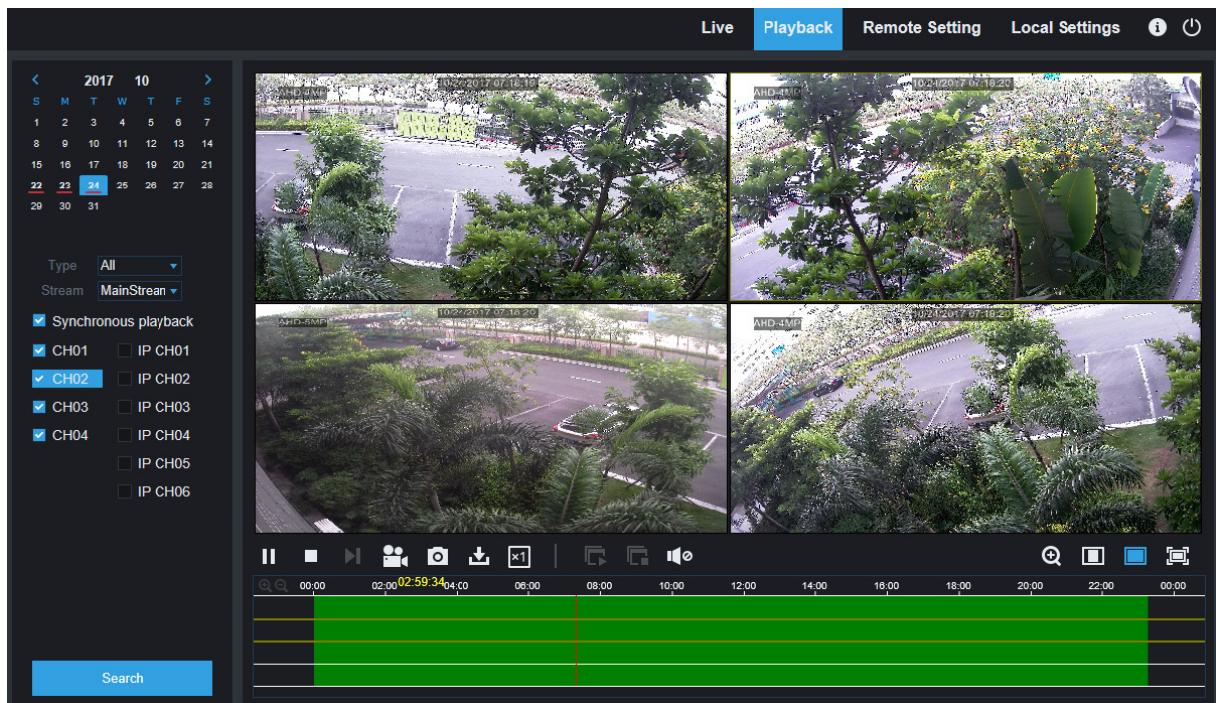
You can search & play recording videos stored in the HDD inside the NVR, and download the videos to your computer.



To search recordings:

1. Click **Playback** in the top-right corner of the window.
2. Select a day on the calendar to search for recordings from. Days with recordings appear with a red underline.
3. Select the recording type to search for, from the dropdown next to **Type**, or select **All** to search for all recordings.
4. To choose the video stream you want to search & play. If you want to play Substream recordings, please make sure you have set the NVR to record with Dualstream at **5.2.2.1 Record**.
5. Check the channels you would like to search for recordings from. Check **Synchronous playback** to play all channels at once.
6. Click **Search**.
7. Recordings that fit your search will be displayed in the timeline. Click a section of video where you would like to begin playback and click the  play button.

7.3.2.1 Playback Control Buttons



-  Play the recordings
-  Pause
-  Stop
-  Go Forward One Frame: Move frame-by-frame through playback. Only available when the **Synchronous playback** option is not checked.
-  Click on one of the channels which is being played and then click the record button to record current video to your computer. Click again to stop recording.
-  Click on one of the channels which is being played and then click the capture button to take a snapshot and save to your computer.
-  Opens the Download menu, which allows you to download several video recordings at once.

	<input type="checkbox"/>	Start Time	End Time	Status	File Size
1	<input checked="" type="checkbox"/>	2017-10-25 00:00:00	2017-10-25 00:01:04	Completed	47.00M
2	<input checked="" type="checkbox"/>	2017-10-25 00:01:04	2017-10-25 00:06:56	2%	253.76M
3	<input type="checkbox"/>	2017-10-25 00:06:56	2017-10-25 00:12:48	Not Downloaded	253.71M
4	<input type="checkbox"/>	2017-10-25 00:12:48	2017-10-25 00:18:41	Not Downloaded	253.91M
5	<input type="checkbox"/>	2017-10-25 00:18:41	2017-10-25 00:24:34	Not Downloaded	253.64M
6	<input type="checkbox"/>	2017-10-25 00:24:34	2017-10-25 00:30:27	Not Downloaded	253.68M
7	<input type="checkbox"/>	2017-10-25 00:30:27	2017-10-25 00:36:18	Not Downloaded	253.75M
8	<input type="checkbox"/>	2017-10-25 00:36:18	2017-10-25 00:42:10	Not Downloaded	253.90M
9	<input type="checkbox"/>	2017-10-25 00:42:10	2017-10-25 00:48:03	Not Downloaded	253.74M
10	<input type="checkbox"/>	2017-10-25 00:48:03	2017-10-25 00:53:56	Not Downloaded	253.63M

10 ◀◀ 1 / 10 ▶▶ ⟳
Show from 1 to 10, total 95. Per page : 10

Start Download Stop Download

Choose the files you want to download, press **Start Download** button to begin, you will see the download status. Press **Stop Download** button to stop.

-  **Playback Speed:** Click to choose the playing speed.
-  **Play All Channels:** Click to play all channels you have chosen to searched. Only available when the **Synchronous playback** option is not checked.
-  **Stop All Channels:** Click to stop playing all channels. Only available when the **Synchronous playback** option is not checked.
-  **Digital Zoom:** Click on on a playing video, then click-and-drag over an area of the video to enlarge. Right-click to return to the normal display.
-  **Original Proportions:** Shows the playing video at the original proportions
-  **Stretch:** Stretch the playing video to fit the full area for each channel on screen.
-  **To enlarge the web client to full screen.**

7.3.3 Remote Setting

Here you can remotely configure the settings of the NVR. Please see “**Chapter 5 NVR System Setup**” for more details on the NVR settings..

7.3.4 Local Setting

Set download locations for recordings and snapshots taken using Web Client, and choose file type for video files.

Record Path: Click to browse for and select the folder where you would like the manual video recordings to be saved on your computer.

Download Path: Click to browse for and select the folder where you would like to save the download video recordings to your computer.

Snapshot Path: Click to browse for and select the folder where you would like the manual capture snapshots to be saved on your computer.

File Type: Choose your preferred file type for manual recordings.

Save: Click to save the modifications.

Chapter 8 Viewing Backed Up Video on PC/Mac

This section will help you to play the backup files with the powerful video player.

The software can be downloaded from the www.concord.support website.

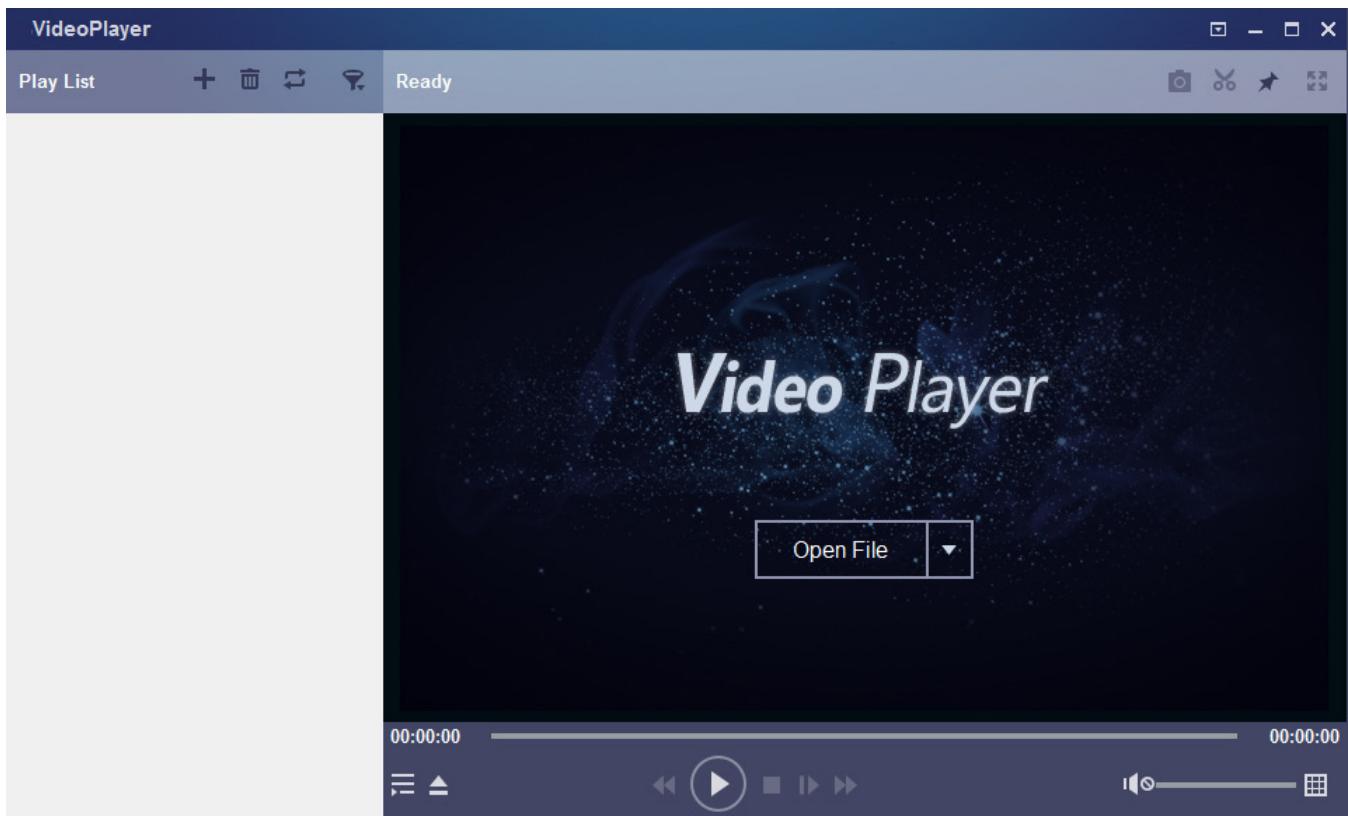
For Mac users, please download and install the app “VideoPlayer_x.x.xx_xxx_xx_x.dmg”, for example: VideoPlayer_1.0.15_2017_01_6.dmg.

For PC users, please download and install the software “VideoPlayer_x.x.xx_xxx_xx_xx.exe”, for example: VideoPlayer_1.0.15_2017_01_06.exe.

Minimum System Requirements

- Intel Pentium 4 or above
- Microsoft Windows XP / Vista / 7 / 8 / 10
- 256MB RAM
- 16MB video memory

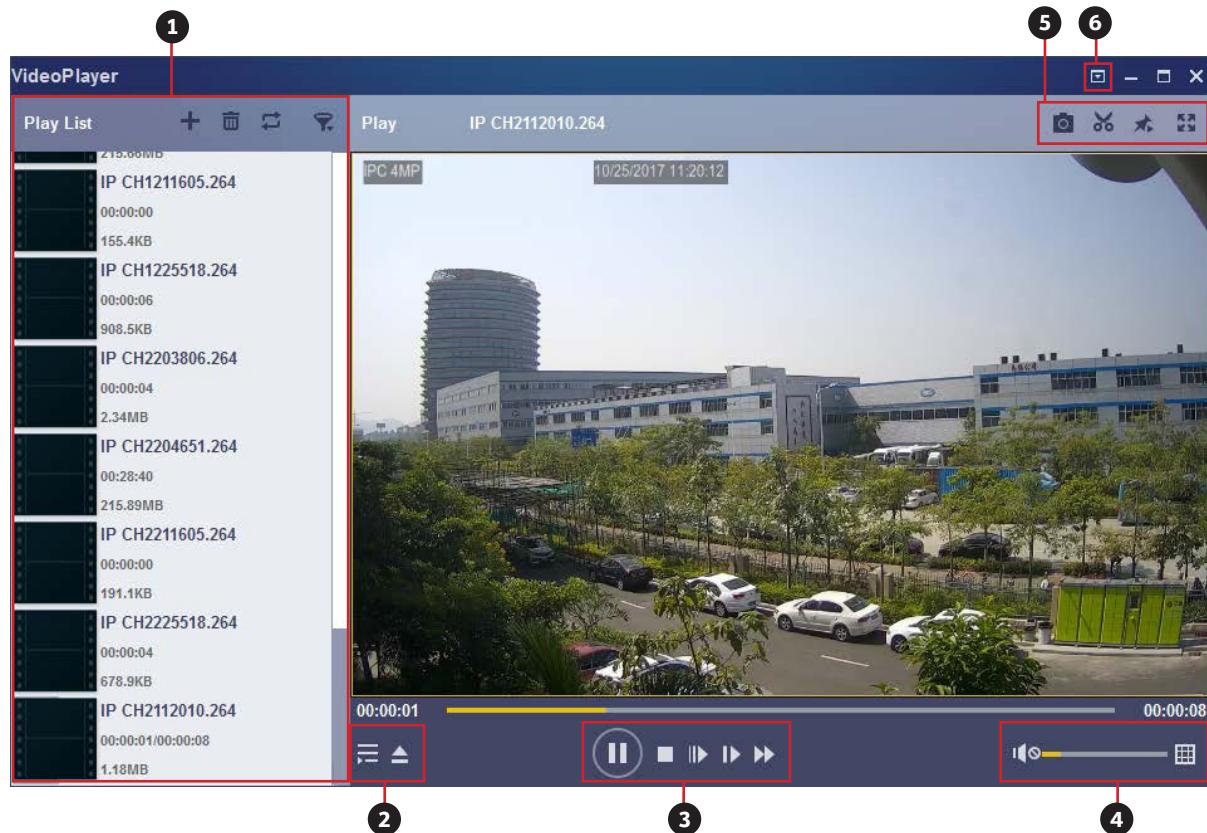
1. Install the Video Player software that you downloaded from the Concord website, and run.



2. Copy the backup files to your computer.

3. Click **Open File** button or click **+** button on the Play List to load single or multiple video files. It supports to add & play “.rf”, “.avi”, “.mp4”, “.264” and “.265” files. Click **Folder** button to load a folder with backed-up videos.

Video Player Control



1. Play List

Add files

Remove files

To choose play mode: play a single file and stop; play all listed files by sequence; repeat one file; repeat all files.

Filter by file name

2. Hide/Show Playlist

Click to open files or load a folder.

3. Play Controls Play

Pause

Stop

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

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

Fast Forward, x2, x4, x8 and x16

4. Volume control

Multi-screen play. It allows to play multiple videos at a time. When you choose multi-screen, you can drag the video in Play List to the play screen.

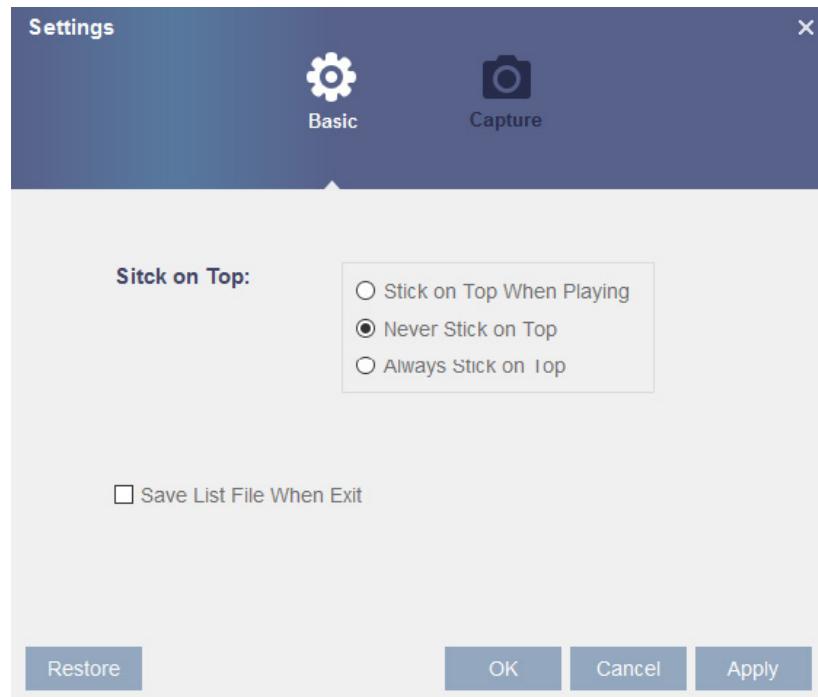
5. Take snapshot

To save a video clip to your computer. Press once to start, press again to end the video clip.

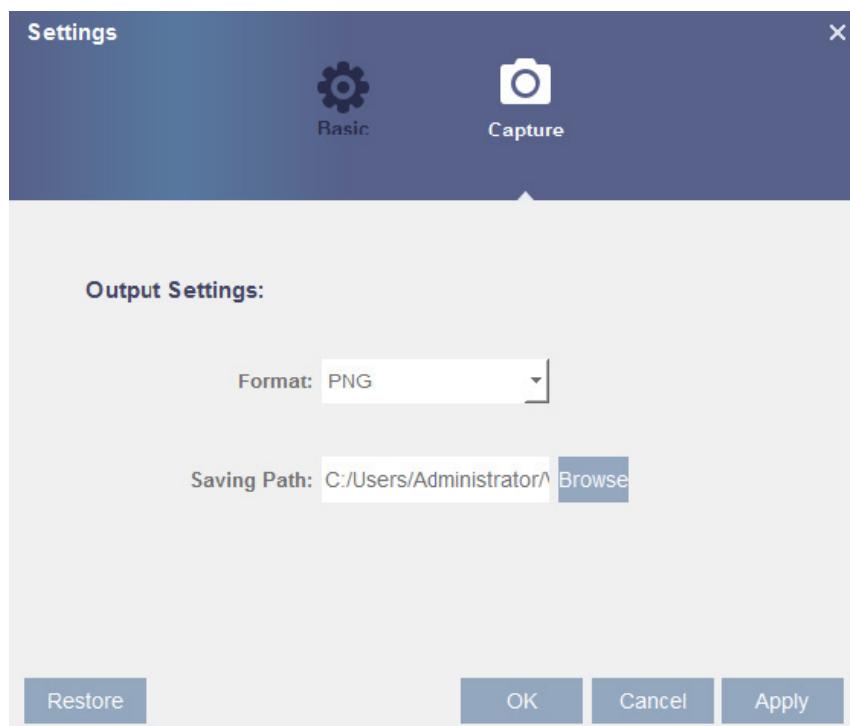
Keep the video player on top

Enlarge the video play screen to full screen

6.  **Advanced Setup Menu** allows you to choose the OSD language of the video player, and configure the settings of video player.



Basic Settings: Set on-top mode

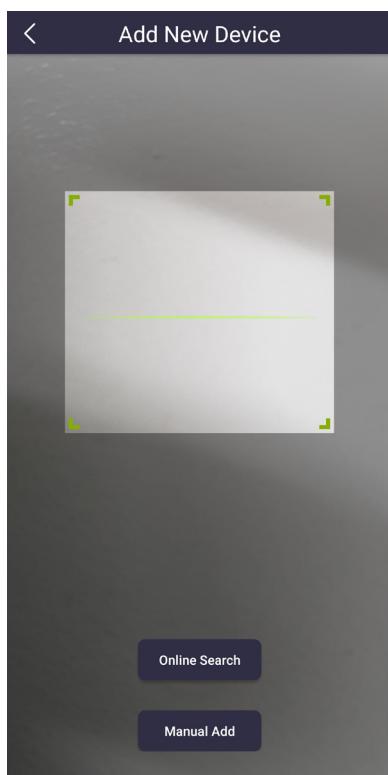
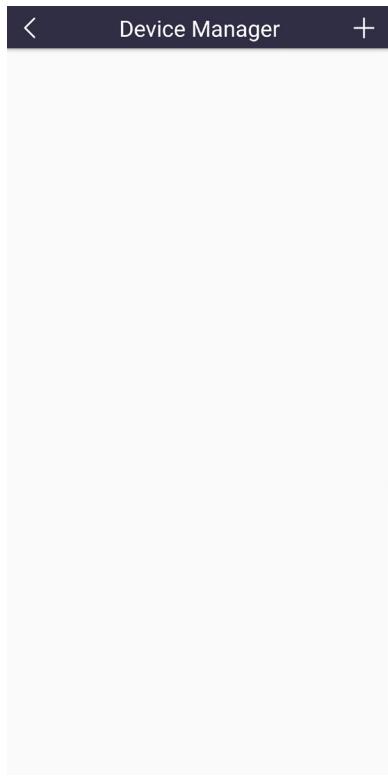


Capture Settings: Set the format and the path to save snapshots.

Chapter 9 Remote Access via Mobile Devices

The NVR supports remove remote access via mobile devices based on Android & iOS operating system.

- 1) Search for **Concord Security** in the Google Play Store for android devices or App Store or iOS devices, and install.
- 2) Run the app, it will display the Device Manager screen.
- 3) Touch the + to add device.



The App will scan the QR code on located on the top of your NVR or the QR code displayed during the setup wizard.

Edit Information

IP Address/ID	RSV1812022884934
Media Port	9000
User Name	admin
Password	██████████

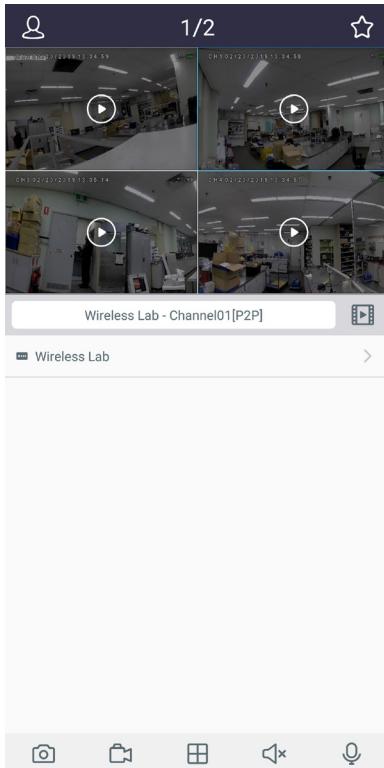
Save

IP Address/ID: The P2P ID is entered automatically from the QR code.

Media Port: This is the port that the NVR uses to communicate with the App.

User Name/ Password: Input the user name & password of the NVR

4) After all settings completed, touch Save to save, the app will turn to Live view display if the device has connected successfully.



To change the number of channels displayed.

Note: The app will display max. 16 pictures in one screen. You can slip the screen to move to next screen to view another 16 pictures. Total 80 pictures can be displayed



Snap shoot the pictures



Record the live view video to your mobile device



Turn ON/OFF audio



Dual-way speaker (Not supported by this NVR)

6) Touch  icon to open the Menu list where you can check & configure the live view, playback, local recorded videos, captured pictures, push alarm notifications, Device manager, Local Setting & Help documents.



 Remote Setting

 Local Config

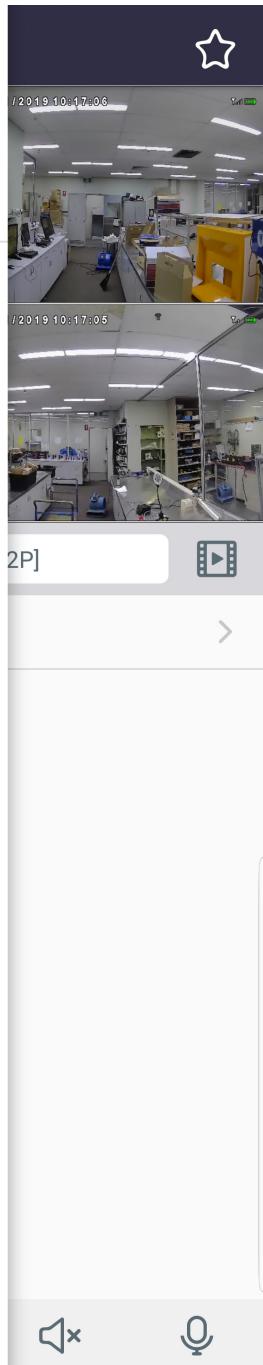
 File List

 Device Manager

 Notifications

 Help

 About



Chapter 10 Appendix

10.1 Troubleshooting

1. Q: What can I do if the system does not detect the HDD?

A: Check if the power supply system is properly connected

2. Q: I have changed the password but forgot the new password, how can I access the system?

A: If you forget system password, please consult with Concord technical personnel.

3. Q: We see abnormal video signal or even no video signal by connecting the NVR and camera together. Power supply for both devices is OK. What is wrong?

A: Check network cable at NVR side to see if the cable is firmly connected and if it is worn out and needs to be replaced, or to check if NTSC or PAL is selected in the settings.

4. Q: There was no CD supplied with the NVR. Where can I download the Video Player?

A: Visit www.concord.support and search for the model number of your NVR. Download files will be available for download from the website.

5. Q: I want to take out HDD from my PC and install it in NVR. Can it work?

A: All HDDs supported by the system can be used. But remember, once NVR runs, the data on your HDD will be lost.

6. Q: Can I playback while recording?

A: Yes. The system supports the function of playing while recording.

7. Q: Can I clear some records on HDD of NVR?

A: In consideration of the file security, you may not clear part of records. If you want to remove all the records, you can format HDD.

8. Q: Why doesn't dynamic detection work?

A: Please check if the motion detection time and motion detection regional setting are correct and if the sensitivity is set too low.

9. Q: Why does buzzer keep alarming?

A: Please check the alarm setting, check if motion detection function is enabled and object motion is detected all the time. Refer to corresponding HDD alarm setting.

10. Q: Why can't I stop recording by pressing "STOP" button or click "Stop Recording" in context menu?

A: Pressing Stop or Stop Recording will only stop manual record. If you want to stop Scheduled recording during a certain time, please change the setting to No Record. To stop Startup recording, please change record mode to scheduled recording or manual recording.

10.2 Usage Maintenance

1. To shut down NVR, please firstly shut down the system and then turn off the power. Do not turn off the power directly or HDD data will be damaged.
2. Please keep NVR away from heat sources or dusty places.
3. Please ensure you switch off the NVR before plugging in or removing any cables
4. Please inspect all cables regularly to ensure they are not aging or damaged.

10.3 Accessories (For reference only)



1 × 8 Channel UHD NVR



4 × 4K PIR IP Bullet Cameras,
2 × 4K PIR IP Bullet Cameras with
Floodlights and 18m Cables



1 × USB Mouse



1 × Mains Power Supply



1 × HDMI Cable



1 × Network Cable

For Concord Surveillance Solutions visit:

www.concord.support