

CONCORD



CDK8848P-A

Professional DVR Surveillance System

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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 DVR

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

3. Do not place the DVR in a dusty environment

Dust could affect the connections and damage the electronics.

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

Do not position the DVR in a location that is likely to get wet or humid such as outdoors or in a basement. If the DVR 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 DVR 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 DVR, 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 DVR to avoid electric shock or damage to the electronics.

8. Handle with care

If your DVR 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

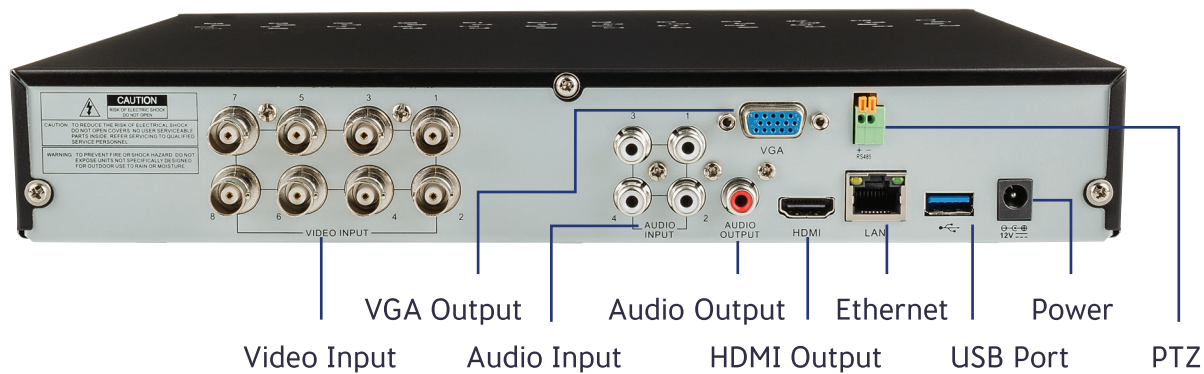
The DVR system includes a HDD, which can produce a significant amount of heat during normal operation. As a result, do not block the ventilation openings (on the top, bottom, both sides and the reverse side) for cooling the system during operation. Make sure your DVR is kept in a well ventilated area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

10. The included power supply can only be used for one DVR 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.

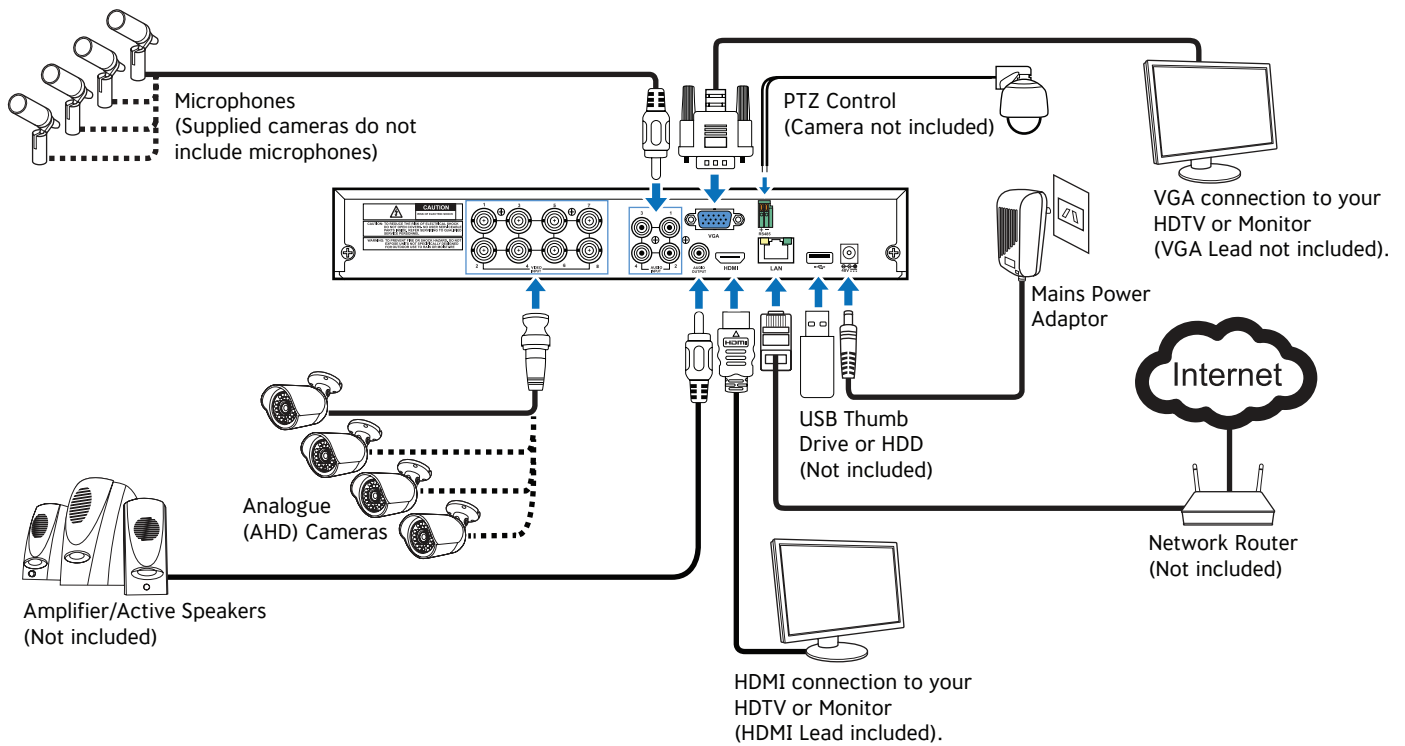
Chapter 1 Product Overview

1.1 Rear Panel



| | |
|--------------|---|
| Audio Output | Connect to an amplifier or active speakers. RCA connection. |
| Video Inputs | Camera video inputs. BNC connection. |
| Audio Inputs | Microphone inputs for third-party cameras that have built-in microphones. RCA Connection. |
| HDMI Output | Connect to your TV or monitor’s HDMI input using the supplied HDMI cable. |
| VGA Ouputut | Connect to your TV or monitor if it doesn’t have a HDMI input. |
| Ethernet/LAN | Connect to your network router using supplied RJ45 Ethernet cable. |
| USB Port | Connect the supplied mouse or external USB Hard Drive. |
| RS485/PTZ | Connect to third-party cameras that have a Pan-Tilt-Zoom function |
| POWER | Connect to the supplied mains power adaptor |
| | |

2.2 Connection Diagram

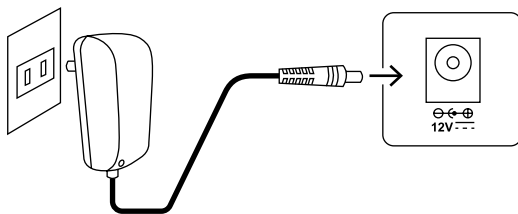


Note:

The above diagram is for reference purposes only, and uses a 4 channel DVR for the example. Your connections and setup may differ from this description.

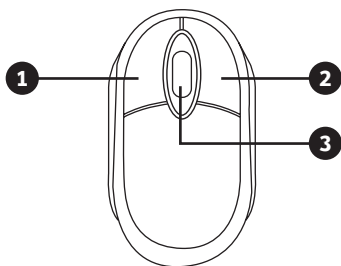
2.3 Power Supply Connection

A mains power adaptor is included in the kit. Plug the adaptor into an available mains power outlet and the other end into the power socket on the back of the DVR.



Chapter 3 DVR 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 DVR.

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

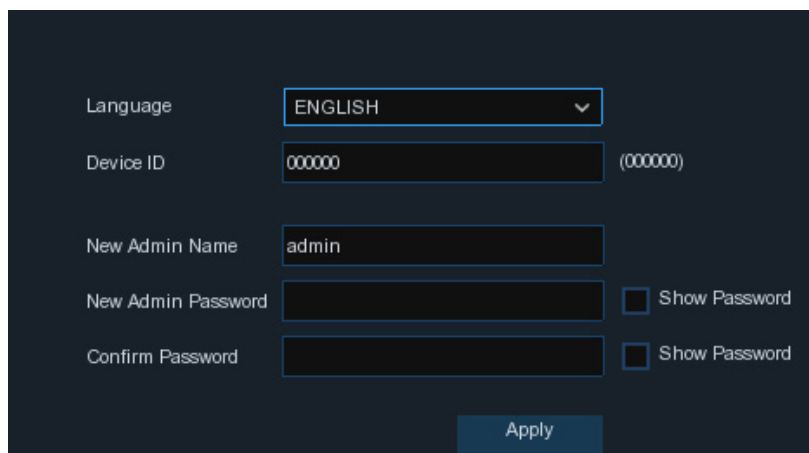
A virtual keyboard will automatically appear on the screen when you need to enter data. Use the mouse to operate this keyboard.

Click to toggle the keyboard to upper case and more punctuation



3.3 Password

The first time you run the DVR, 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: ☐ Show Password

Confirm Password: ☐ Show Password

Apply

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

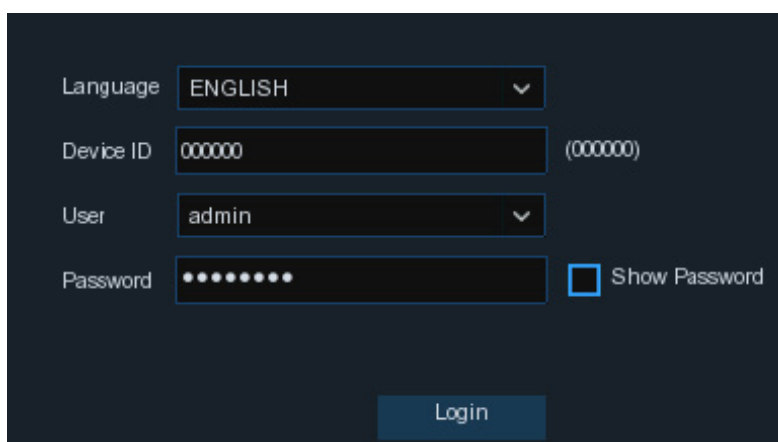
Device ID: Input the device ID shown in the parentheses (). Default ID is 000000. View more about Device ID on **5.6.1 General** further within this manual.

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: ☐ Show Password

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.

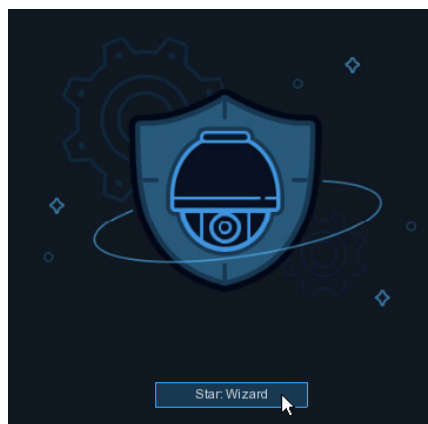
Chapter 4 DVR Starting up

4.1 Start Wizard

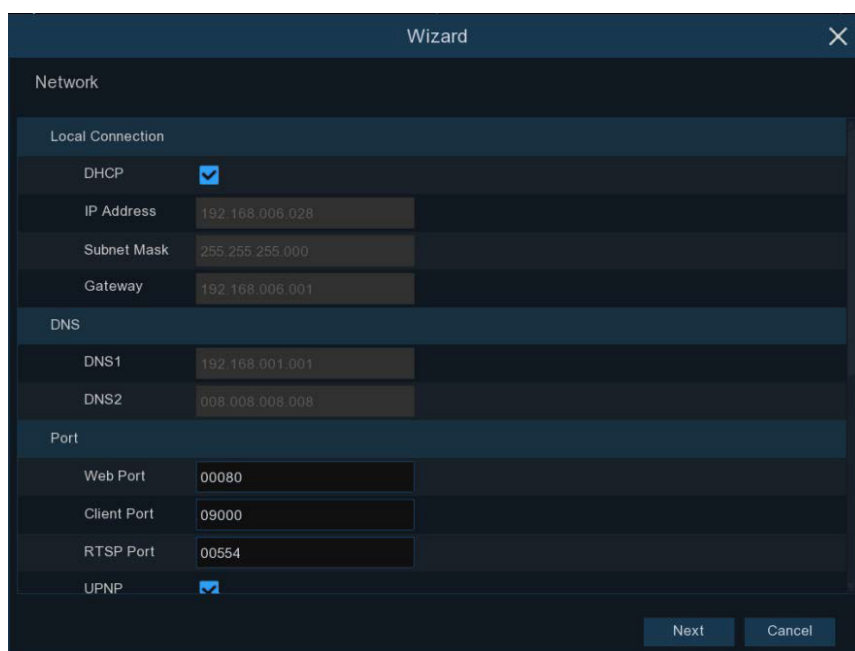
The Startup Wizard will help configure the system and get the DVR working quickly.

4.1.1 Start Wizard

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



4.1.2 Network Configuration

A screenshot of the "Wizard" window for network configuration. The window has a dark blue header with the title "Wizard" and a close button. The main area is titled "Network" and contains several sections: "Local Connection" with a checked "DHCP" box and fields for "IP Address" (192.168.0.028), "Subnet Mask" (255.255.255.000), and "Gateway" (192.168.0.001); "DNS" with fields for "DNS1" (192.168.0.001) and "DNS2" (008.008.008.008); and "Port" with fields for "Web Port" (00080), "Client Port" (09000), and "RTSP Port" (00554). There is also a checked "UPNP" box. At the bottom right are "Next" and "Cancel" buttons.

| Local Connection | |
|------------------|-------------------------------------|
| DHCP | <input checked="" type="checkbox"/> |
| IP Address | 192.168.0.028 |
| Subnet Mask | 255.255.255.000 |
| Gateway | 192.168.0.001 |

| DNS | |
|------|-----------------|
| DNS1 | 192.168.0.001 |
| DNS2 | 008.008.008.008 |

| Port | |
|-------------|-------|
| Web Port | 00080 |
| Client Port | 09000 |
| RTSP Port | 00554 |

| | |
|------|-------------------------------------|
| UPNP | <input checked="" type="checkbox"/> |
|------|-------------------------------------|

If you have connected your DVR to your network, the DVR 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 DVR 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 DVR 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 Provided (ISP) for these details if you do not know how to find them yourself.

Port

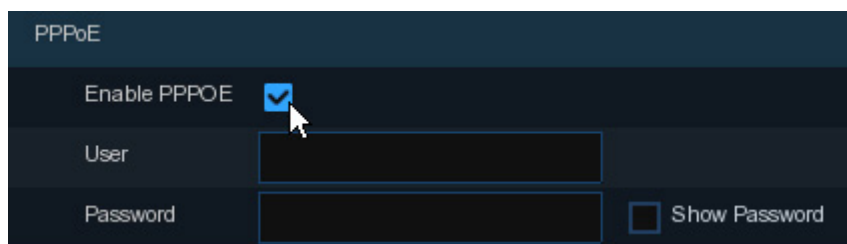
Web Port: This is the port that you will use to log in remotely to the DVR (e.g. using the Web Client). If the default port 80 is already taken by other applications, please change it.

Client Port: This is the port that the DVR 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 DVR 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 DVR 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.

PPPoE



PPPoE

Enable PPPOE ☒

User

Password ☐ Show Password

This is an advanced protocol that allows the DVR 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.

3G

You need to connect a 3G dongle to the DVR.

Enable the 3G option, enter the APN, Dial Code, User name & password according to the instruction of your 3G service.

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.



The screenshot shows the 'Date and Time' configuration menu. It has three tabs: 'Date and Time' (selected), 'NTP', and 'DST'. The 'Date and Time' tab contains five rows: 'Date' with a text field showing '10/25/2017' and a calendar icon; 'Time' with a text field showing '15:39:21'; 'Date Format' with a dropdown menu showing 'MM/DD/YY'; 'Time Format' with a dropdown menu showing '24Hour'; and 'Time Zone' with a dropdown menu showing 'GMT+08:00'.

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

Time: Click to set the system time.

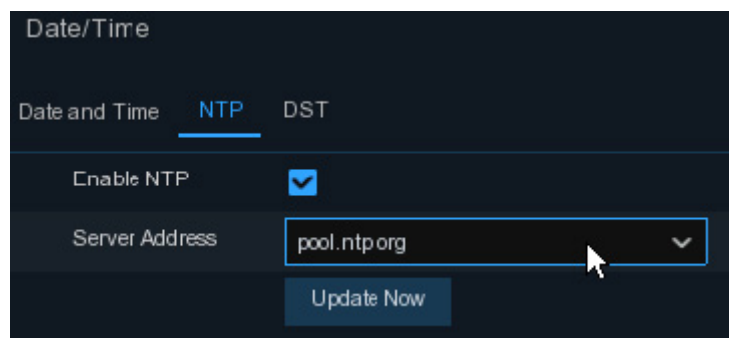
Date Format: Choose from the dropdown menu to set preferred date format.

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 DVR over Internet. Therefore, the DVR needs to be connected to the Internet.



The screenshot shows the 'NTP' configuration menu. It has three tabs: 'Date and Time', 'NTP' (selected), and 'DST'. The 'NTP' tab contains two rows: 'Enable NTP' with a checked checkbox, and 'Server Address' with a dropdown menu showing 'pool.ntp.org'. Below the 'Server Address' dropdown is an 'Update Now' button.

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 DVR can also support two IP Cameras (Not included) connected to your network. This menu allows you to add up to two IP cameras to the DVR. (Note: example shown here is for a 12 channel DVR)

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 DVR.

Position: Left-Top

Port: 9988 ☒ Auto

Protocol: Private ☒ Auto

User Name: admin

Password: ☐ Show Password

Add Cancel

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.

| 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: 192.168.1.151

Alias: CH17

Position: Left-Top

Port: 9988

Protocol: Private

User Name: admin

Password: ☐ Show Password

Bind channel: CH17

Search Add Cancel

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

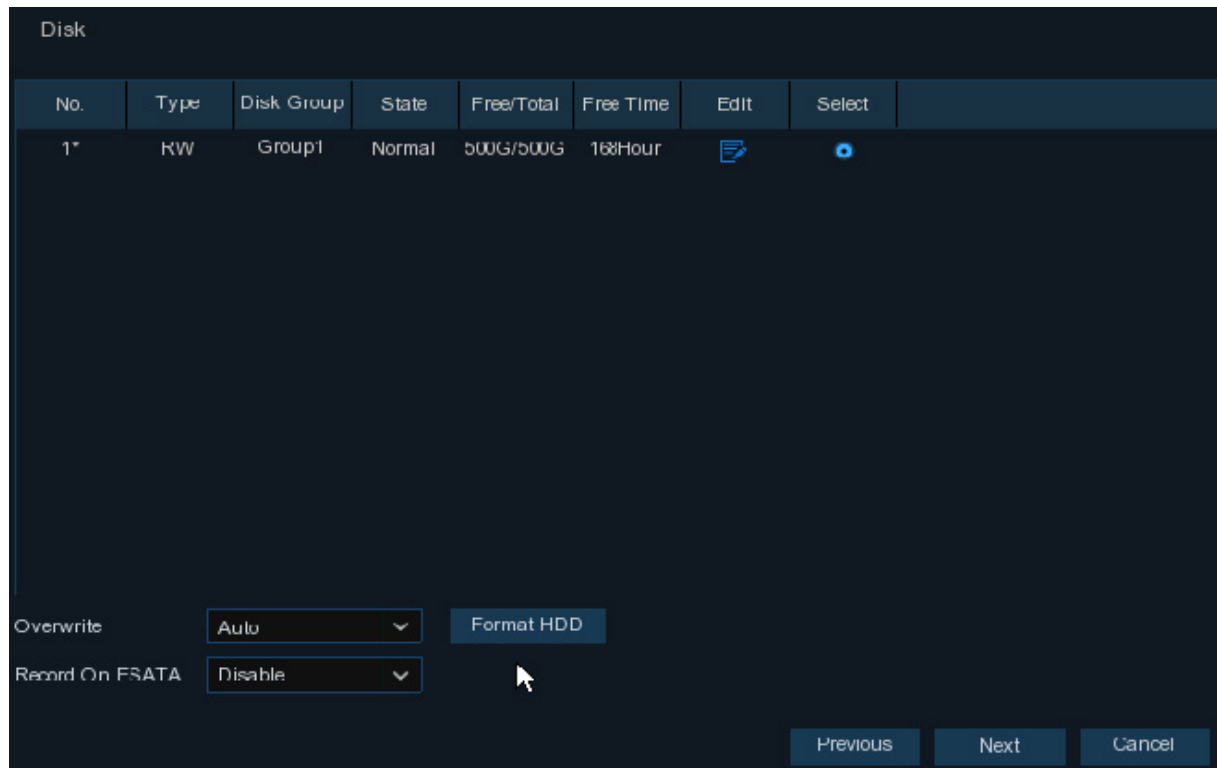
Protocol: Choose the protocol of the IP camera from the dropdown menu

User Name: Username of the IP camera

Password: Password of the IP camera

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

4.1.5 Hard Drive



The screenshot shows a 'Disk' management window. At the top, there's a title bar 'Disk'. Below it is a table with the following columns: No., Type, Disk Group, State, Free/Total, Free Time, Edit, and Select. The table contains one row with the following data: No. 1*, Type KW, Disk Group Group1, State Normal, Free/Total 500G/500G, Free Time 168Hour, Edit (pencil icon), and Select (eye icon). Below the table, there are two dropdown menus: 'Overwrite' set to 'Auto' and 'Record On FSATA' set to 'Disable'. To the right of these is a 'Format HDD' button. At the bottom right, there are three buttons: 'Previous', 'Next', and 'Cancel'.

| No. | Type | Disk Group | State | Free/Total | Free Time | Edit | Select |
|-----|------|------------|--------|------------|-----------|------|--------|
| 1* | KW | Group1 | Normal | 500G/500G | 168Hour | | |

Overwrite: Auto Format HDD

Record On FSATA: Disable

Previous Next Cancel

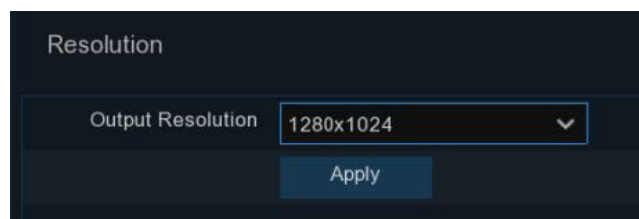
This DVR is supplied with a hard drive already installed.

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 DVR system is starting up, it will automatically match the best resolution of your monitor.



The screenshot shows a 'Resolution' settings window. It has a title bar 'Resolution'. Below it is a dropdown menu labeled 'Output Resolution' with the value '1280x1024' selected. Below the dropdown is an 'Apply' button.

Resolution

Output Resolution: 1280x1024 ▼

Apply

4.1.7 Mobile

You can access this DVR remotely from your Smartphone or Tablet, providing you have the DVR 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.

| Mobile | |
|------------------|------------------|
| P2P ID | |
| P2P ID | RSV1907010420595 |
| Local Connection | |
| IP Address | 192.168.6.28 |
| Subnet Mask | 255.255.255.0 |
| Port | |
| Web Port | 80 |
| Client Port | 9000 |



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 DVR system reboots. Click **Finish** button to save & exit.

| Summary | |
|--|--------------------------------|
| System | |
| Resolution | 1920x1080 |
| Date/Time | 04/10/2017 16:18:17, GMT+08:00 |
| NTP | OFF |
| DST | OFF |
| Network | |
| DHCP | ON |
| IP Address | 192.168.6.28 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 192.168.6.1 |
| DNS1 | 192.168.1.1 |
| DNS2 | 8.8.8.8 |
| <input type="checkbox"/> Don't show this window next time. | |

4.2 Live Viewing Screen










Camera Title

The camera title indicates the type of camera connected. This DVR is supplied with AHD cameras.

A-: This indicates that the camera connected is an AHD camera

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

Status Icon

-  This indicates that the DVR is currently recording.
-  This icon appears when the camera has detected motion.
-  The icon indicates that the external I/O alarm device is triggered.
-  This icon indicates that the HDD is in error.
-  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 DVR 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.

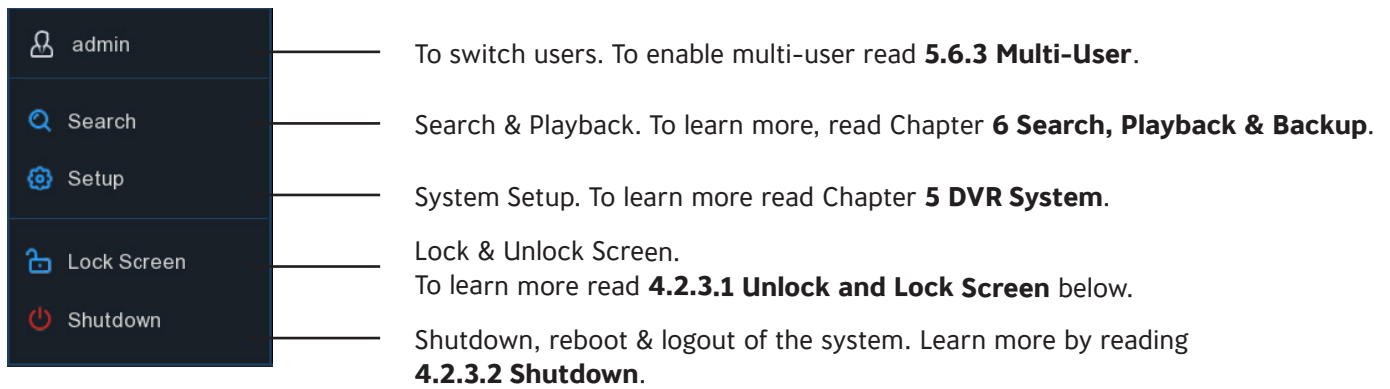
 To start or stop Manual Record and Manual Alarm.

 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.

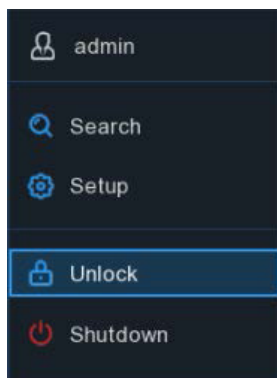


4.2.3.1 Unlock and Lock Screen

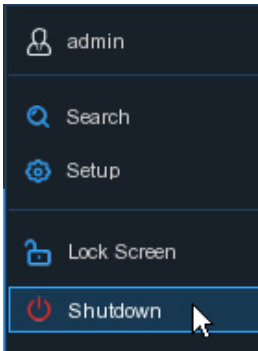
The screen will automatically lock after 1 minute of inactivity to prevent unauthorised access.

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.

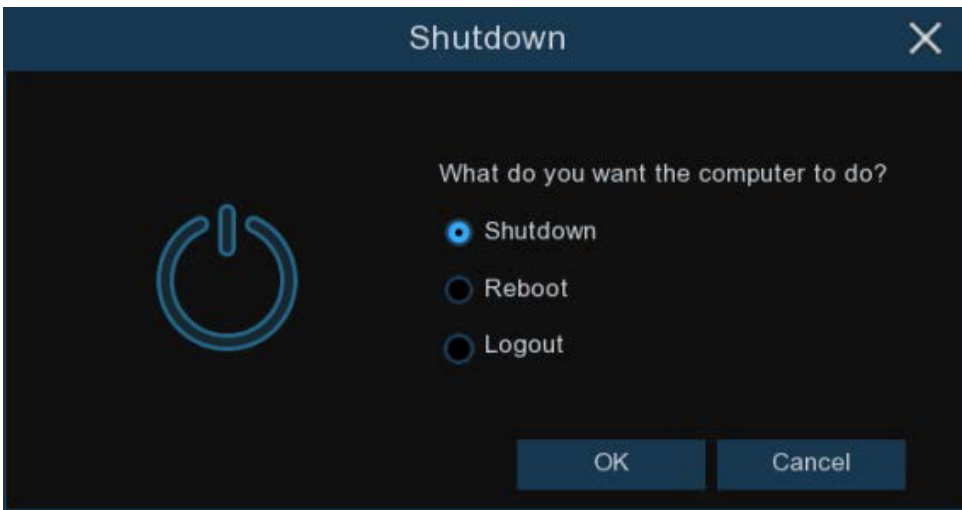
If the system is locked, you can click the Unlock icon  to unlock the system for further operation.



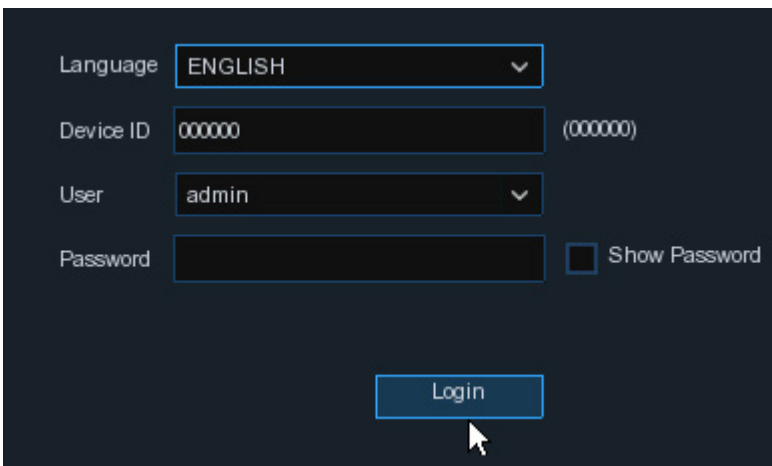
4.2.3.2 Shutdown



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.

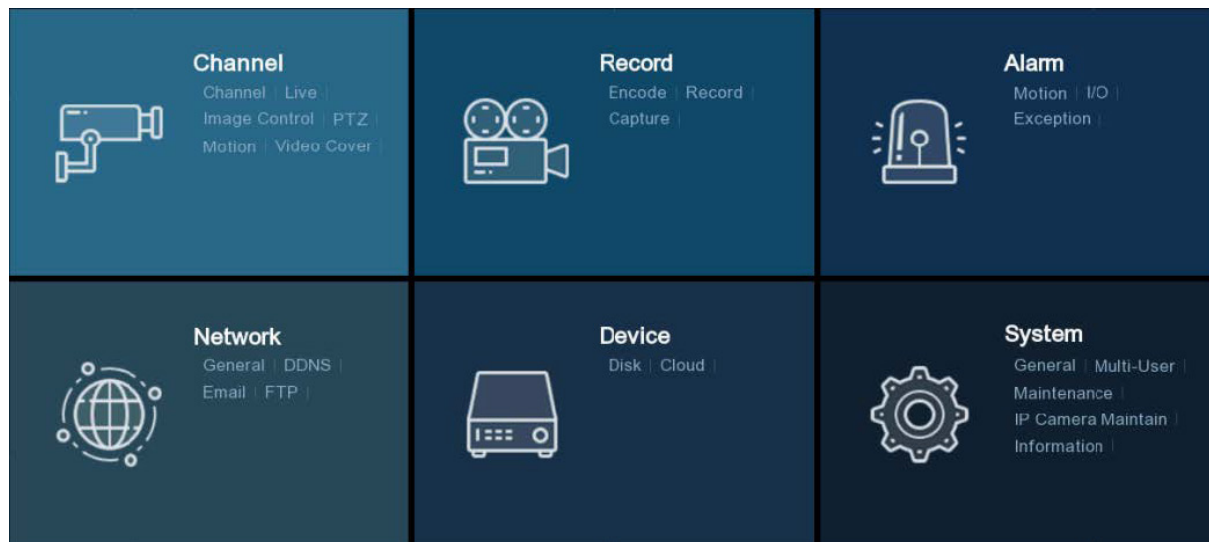


If you choose **Logout**, the live viewing screen will no longer be visible. You will need to log into the system for further operations.



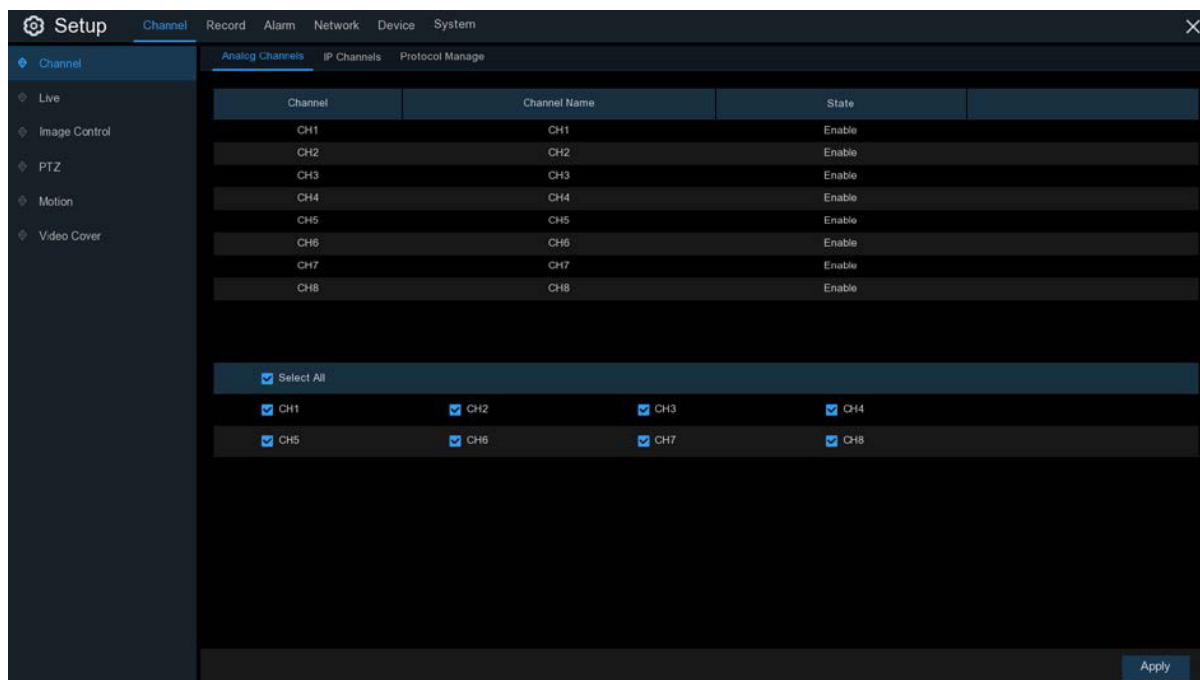
Chapter 5: DVR System Setup

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

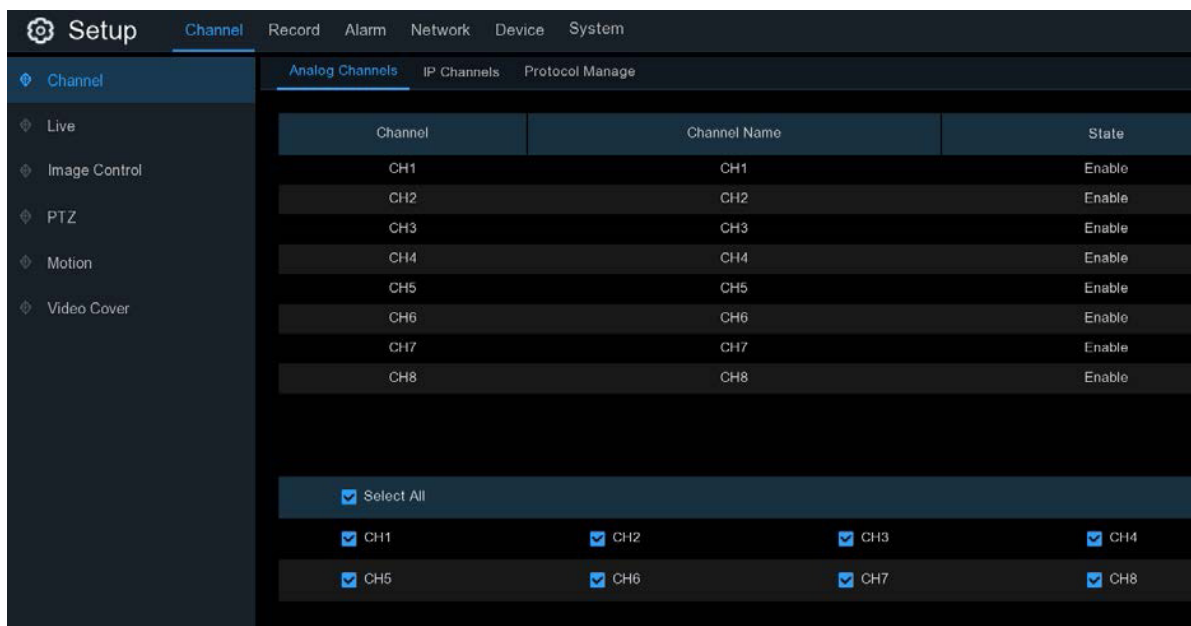


5.1 Channel

In this section, you can 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 Channel

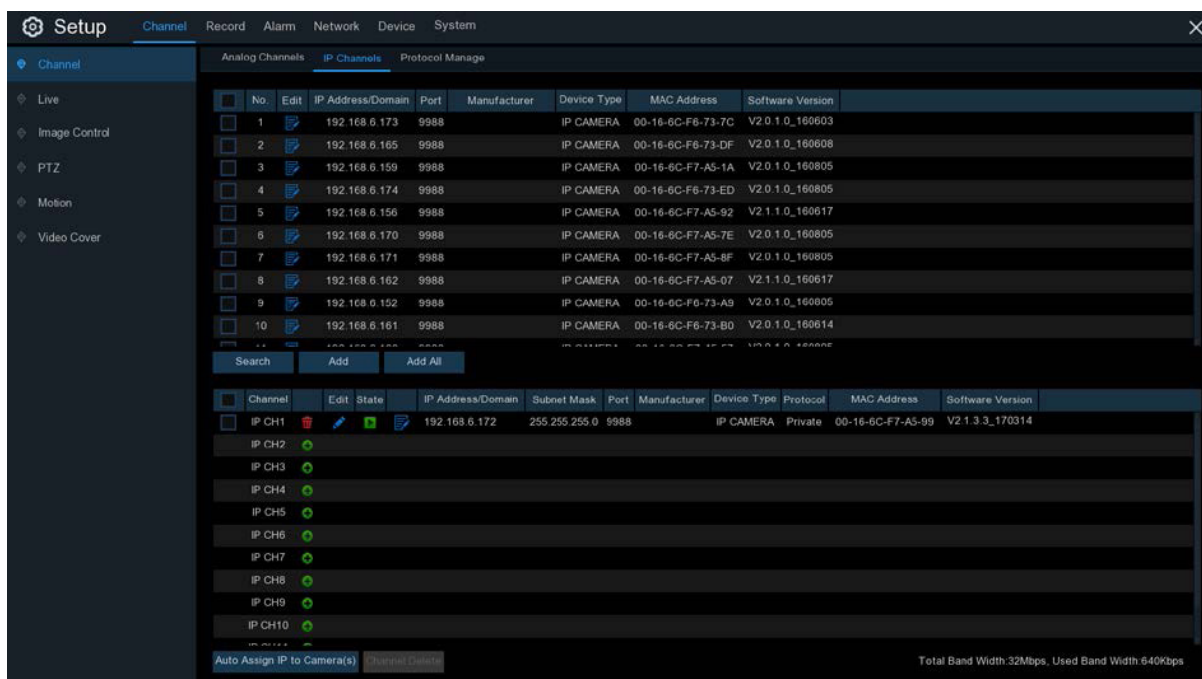


5.1.1.1 Analogue Channels

If you want to disable an analogue channel, uncheck the box and click **Apply** to save. Disabling analogue channels can free up channels for more IP cameras. To do so, you need to enable the XVR mode in advance at **System > General > Mode**, view more on **5.6.1 General**.

5.1.1.2 IP Channels

If you enable the XVR mode for the DVR, it supports to add IP cameras & modify IP channels.
(Note: 8 channel system shown)



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

| | |
|-------------------|---|
| IP Address/Domain | 192.168.1.151 |
| Alias | CH17 |
| Position | Left-Top |
| Port | 9988 |
| Protocol | Private |
| User Name | admin |
| Password | <input type="password"/> <input type="checkbox"/> Show Password |
| Bind channel | CH17 |

Click **Search** button to search for 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 DVR 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 DVR. This function will reassign an IP address to all added IP cameras.

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

5.1.1.3 Protocol Manage

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

The screenshot shows a web application interface for managing protocols. The top navigation bar includes 'Setup' (with a gear icon), 'Channel', 'Record', 'Alarm', 'Network', 'Device', and 'System'. The 'Channel' section is expanded, showing 'Analog Channels', 'IP Channels', and 'Protocol Manage' (which is selected). On the left, a sidebar lists 'Live', 'Image Control', 'PTZ', 'Motion', and 'Video Cover'. The main area is titled 'Protocol Manage' and contains the following fields:

| | | |
|------------------|-------------------------------------|---------------------------------|
| Custom Protocol | Custom Protocol1 | |
| Protocol Name | Custom 1 | |
| Stream Type | Mainstream | Substream |
| Enable Substream | <input checked="" type="checkbox"/> | |
| Type | RTSP | RTSP |
| Port | 554 | 554 |
| Resources Path | rtsp://192.168.1.150:554/ch01/0 | rtsp://192.168.1.150:554/ch01/1 |

Example :
[type]//[IP address]:[port]/[resources path]
rtsp://192.168.0.1:554/resourcesPath

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.

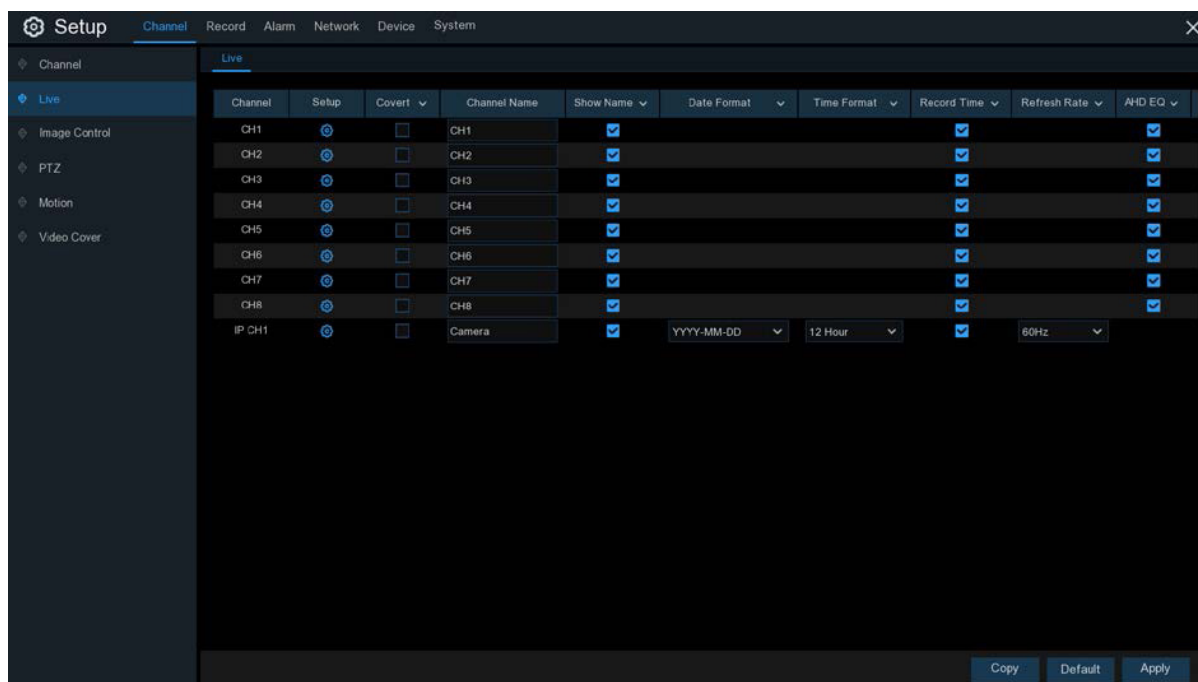
Type: Only RTSP available now.

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.



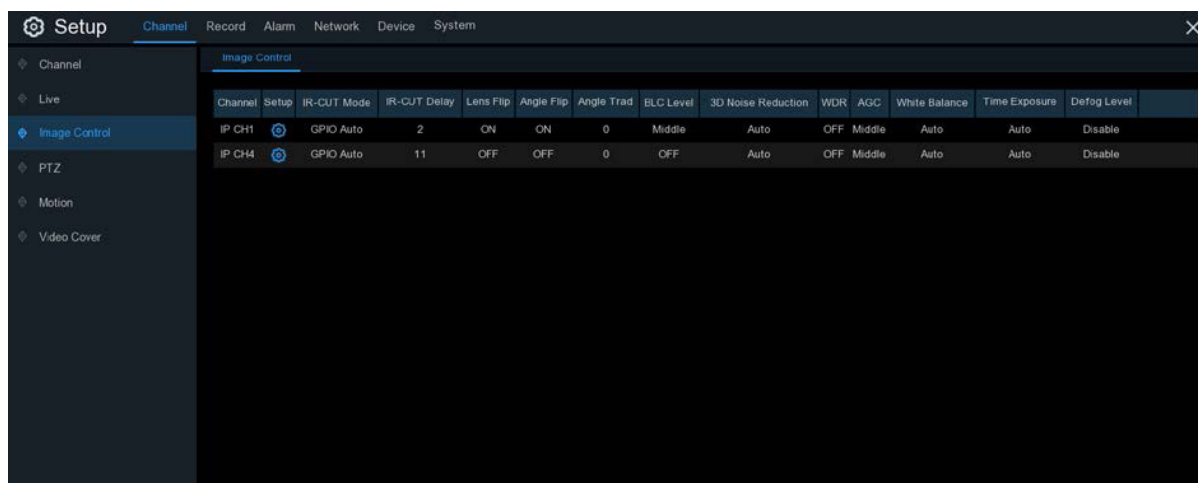
Channel: Display channel number.

Setup: Click  icon to open 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 | AUT O | Choose a camera type (Auto, AHD, TVI, CVI) for analogue camera |
| EQ Level | AUT O | 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 |
| HUE | <input type="range"/> 32 | Adjust the Hue value for the image colour |
| BRIGHT | <input type="range"/> 23 | Adjust the Bright value for the image colour |
| CONTRAST | <input type="range"/> 27 | Adjust the Contrast value for the image colour |
| SATURATION | <input type="range"/> 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.



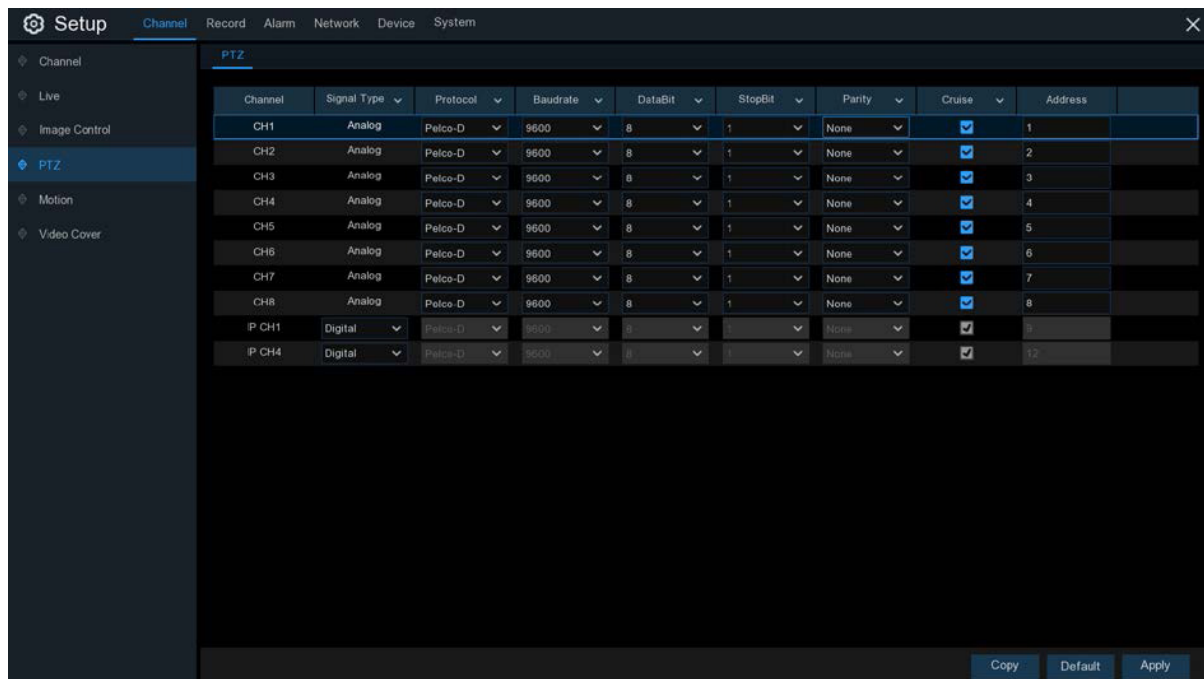
Channel: Channel name.

Setup: Click icon into the setup page.

| | | |
|------------------------------------|-------------------------------------|--|
| Channel | CH 7 | 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 type="checkbox"/> Lens Flip | <input 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 a dome camera (Not included)



Channel: Channel name

Signal Type: Analog for analogue channels, Analog & Digital for IP channels.

Protocol: Choose the communication protocol between the PTZ capable camera and DVR. If your camera supports the 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 DVR to the PTZ-capable camera. Make sure it matches the compatibility level of your PTZ-capable camera.

DataBit / StopBit: The information between the DVR 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.

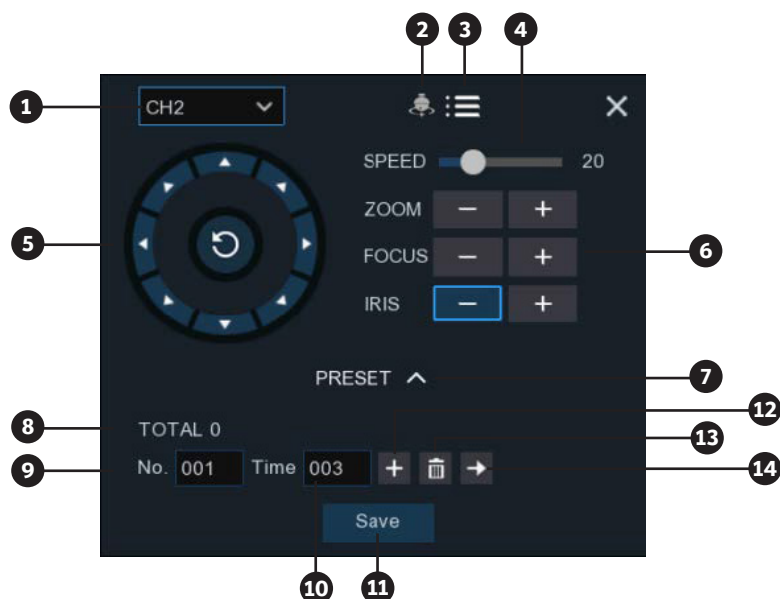
Address: Set the command address of the PTZ system. Please be noted that each PTZ-capable camera needs a unique address to function properly.

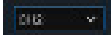








5.1.4.1 PTZ control

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  .

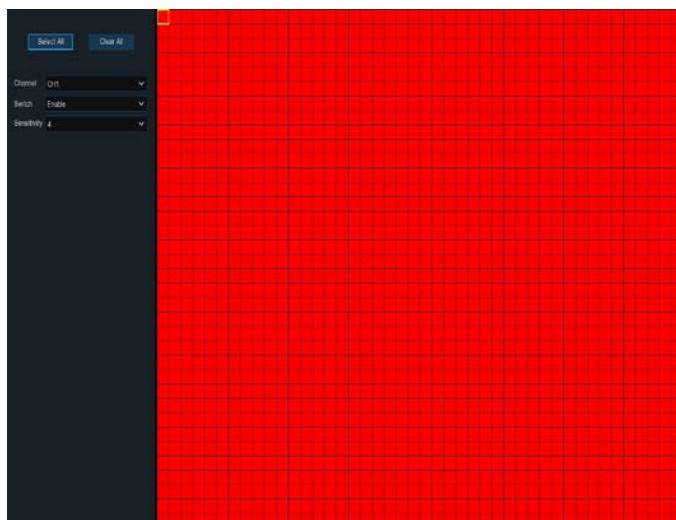
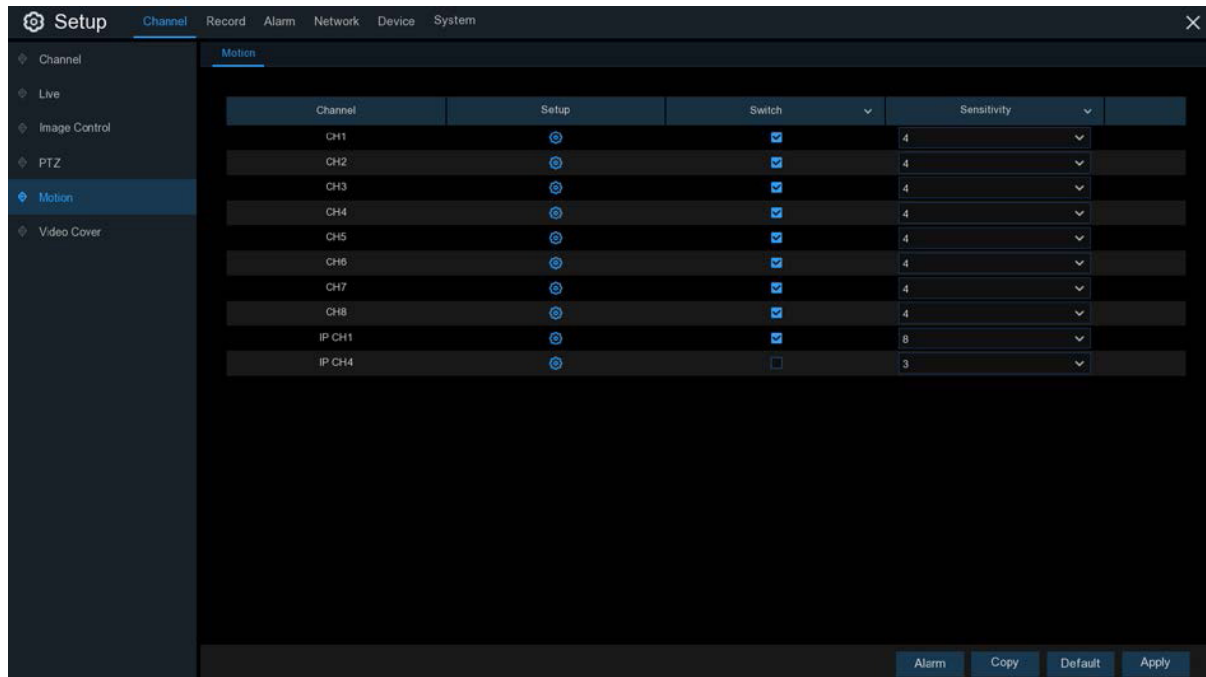
2) PTZ control panel will be displayed.



| | | | |
|----|---|---------------|---|
| 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 display. 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 DVR. |

5.1.5 Motion

This menu allows you to configure motion parameters. When motion has been detected by one or more cameras, your DVR 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 of 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.


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 | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH2 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH3 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH4 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH5 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH6 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH7 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH8 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IP CH1 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IP CH4 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |


Buzzer: The DVR 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: This DVR does not support an external alarm

Latch Time: To configure the external alarm time when motion is detected.

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 DVR will continue to record. The recommended recording length is 30 seconds but it can be set higher up to 5 minutes.

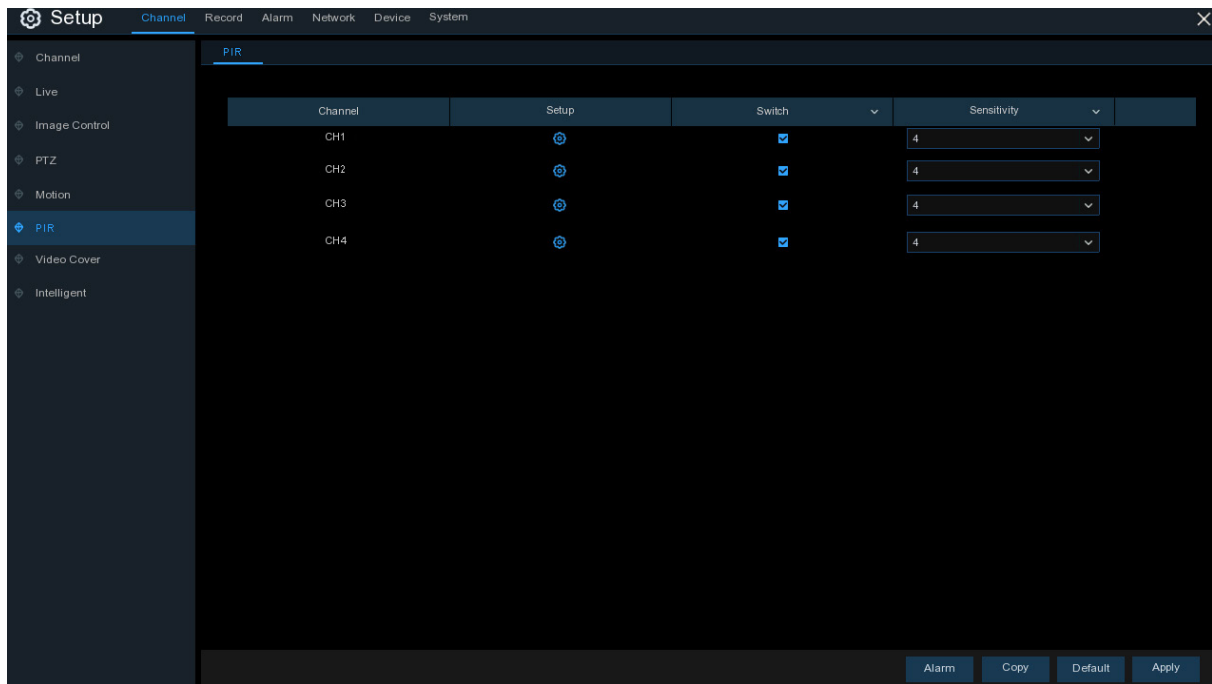
Show Message: Check the box to display  icon on the live view screen when motion is detected.

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

Full Screen: If this function is enabled and 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**.

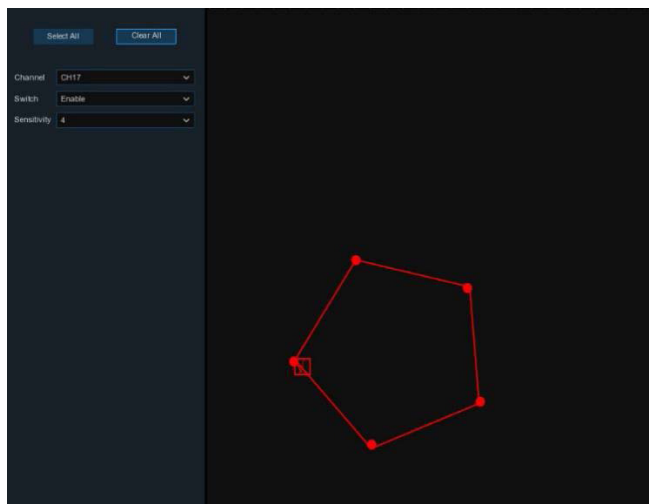
5.1.6 PIR



Switch: Enable or disable PIR recording.

Sensitivity: Set the sensitivity level. Level 1 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 | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH2 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH3 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH4 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH5 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH6 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH7 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| CH8 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IP CH1 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IP CH4 | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Buzzer: The DVR 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: DVR 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 DVR 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 DVR to send you an auto-email when PIR detection is triggered.

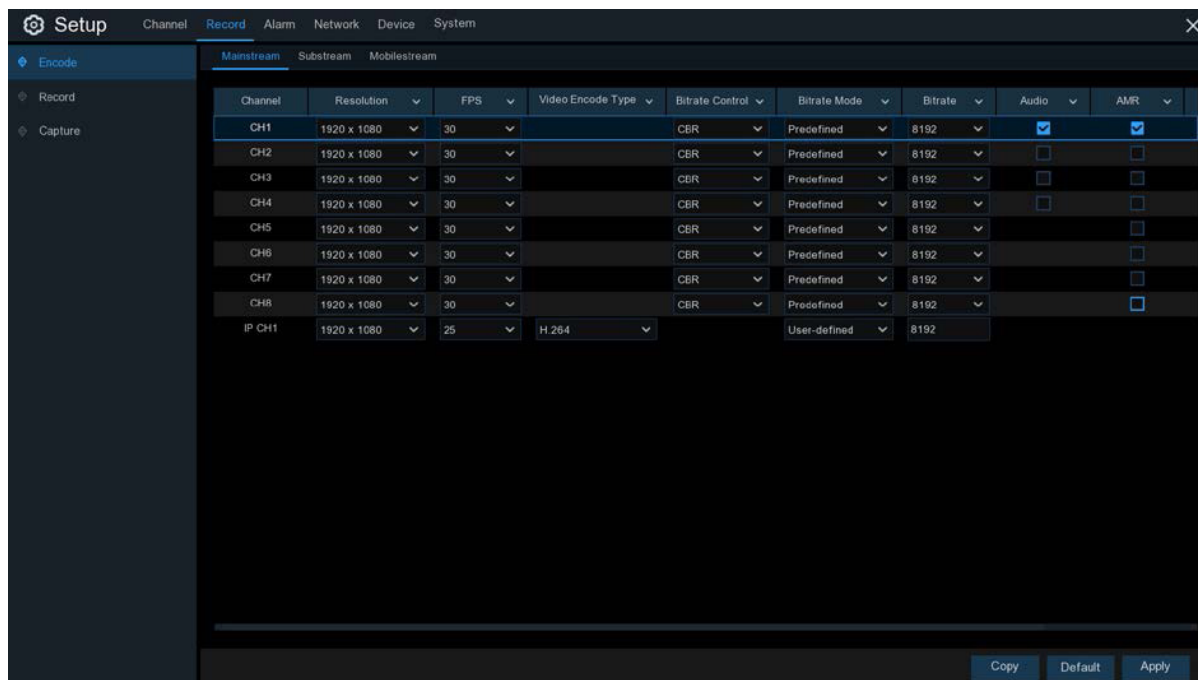
Full Screen: If this function is enabled and PIR is detected in a channel, you will see that channel in full screen.

5.2 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 to 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 DVR will record.

Video Encode Type: For IP camera only. DVR 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 is suitable constant bitrate (**CBR**). For more complex scene, such as a busy street is suitable 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 DVR will use to record video. Recordings that are encoded at higher bitrates, will be of better quality.

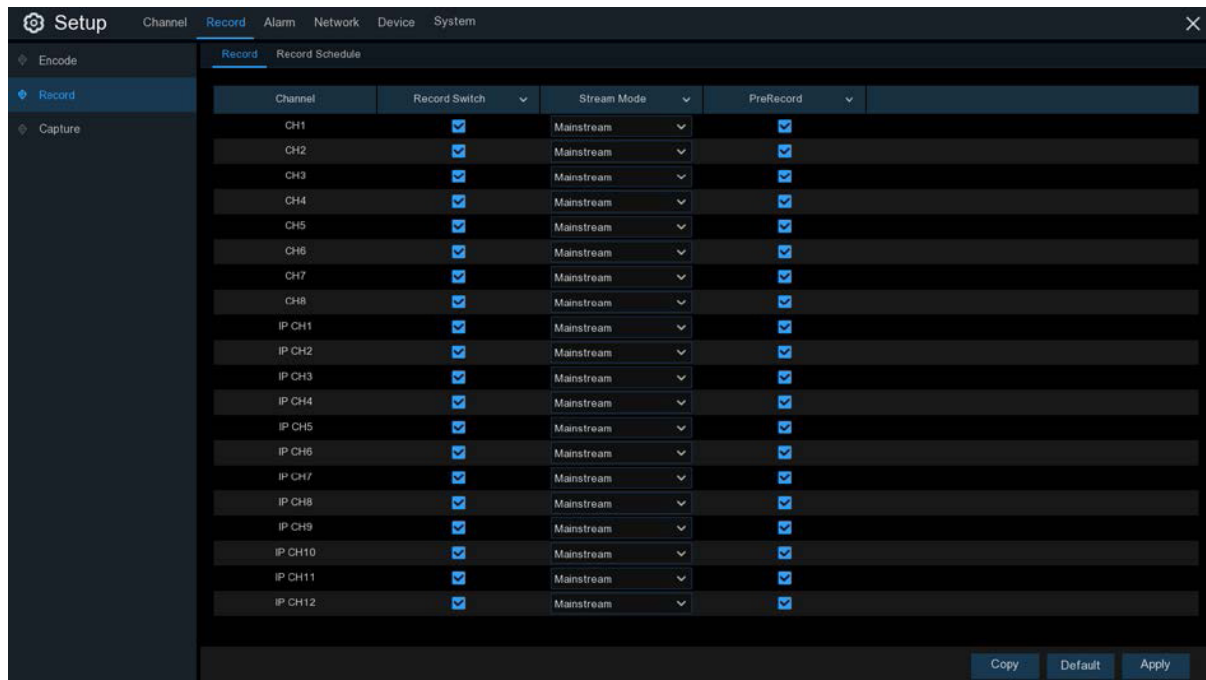
Audio: Select this option if you want to record audio along with video and have a microphone connected to the DVR or using a camera with audio capability.

AMR: If AMR option is checked, this channel will be recorded in maximum frame rate & bitrate when an alarm (motion or I/O alarm) happens to this channel.

5.2.2 Record

This menu allows you to configure the channel recording parameters.

5.2.2.1 Record



The screenshot shows the 'Setup' window with the 'Record' tab selected. The left sidebar has 'Record' highlighted. The main area displays a table with columns: Channel, Record Switch, Stream Mode, and PreRecord. The table lists 12 channels (CH1 to CH12) with their respective recording settings. All 'Record Switch' and 'PreRecord' checkboxes are checked, and all 'Stream Mode' dropdowns are set to 'Mainstream'. At the bottom right, there are 'Copy', 'Default', and 'Apply' buttons.

| 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"/> |

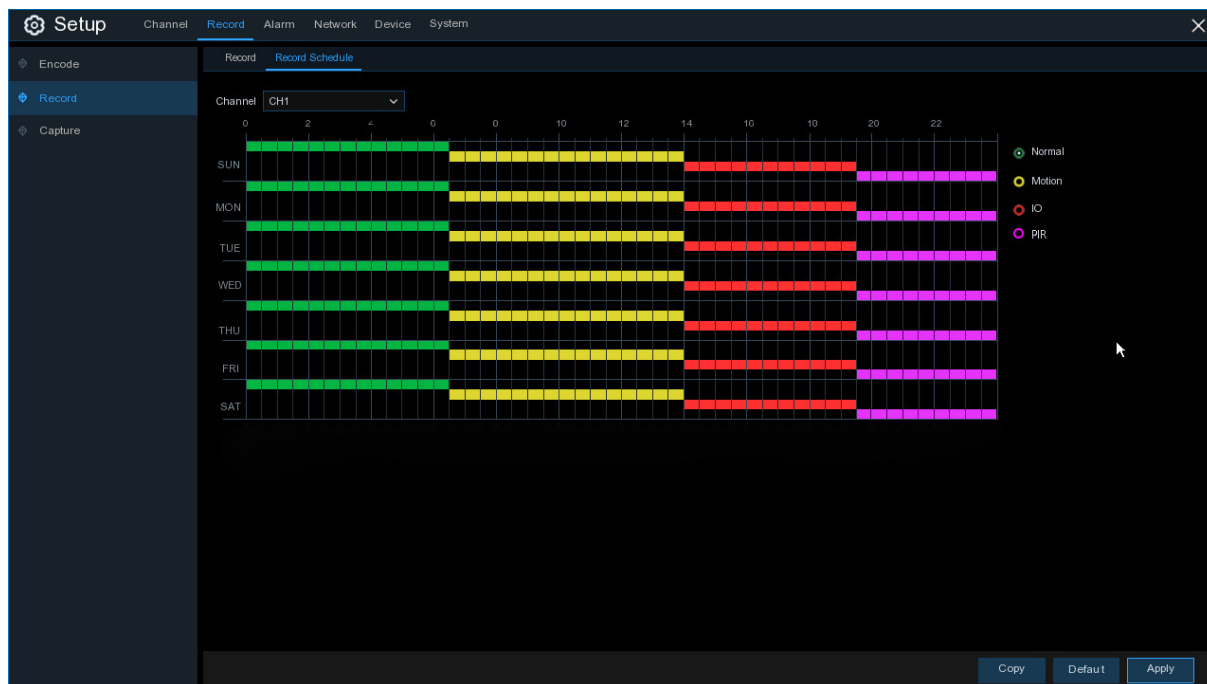
Record Switch: Check to enable recording in this channel.

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 DVR starts recording a few seconds before an alarm event occurs. Use this option if your primary recording type is motion or I/O alarm based.

5.2.2.2 Record Schedule

This menu allows you to specify when the DVR 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, I/O alarm recording & PIR recording (if your DVR supports). 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.



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.

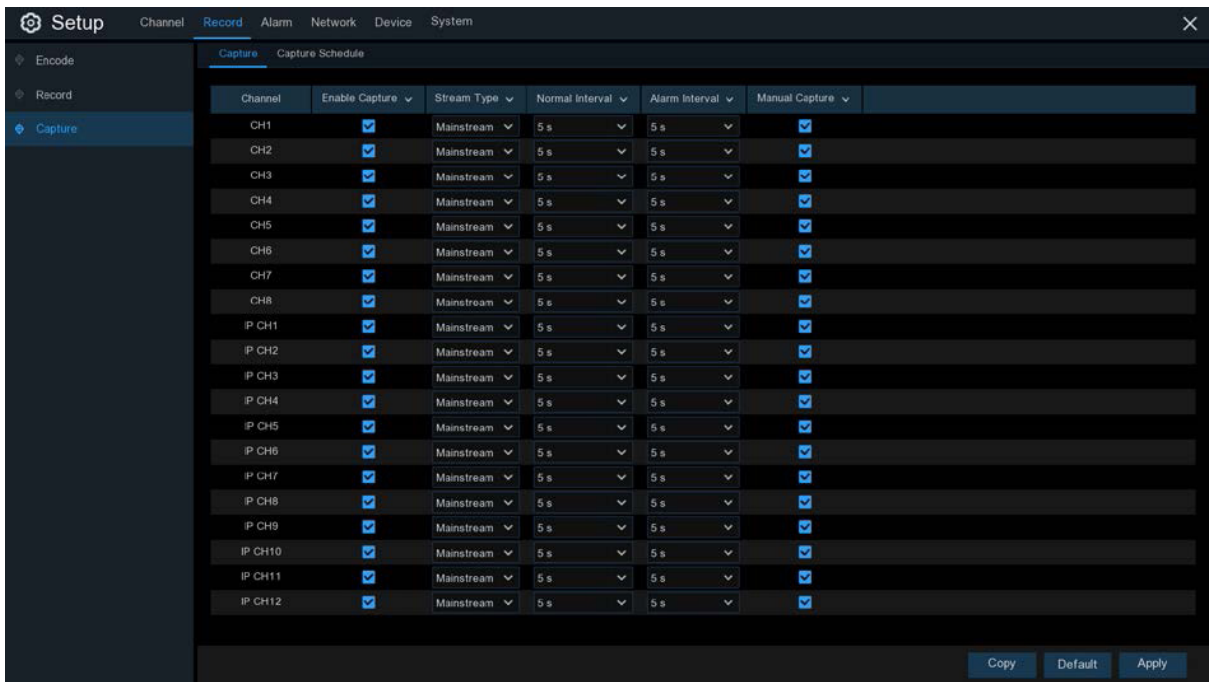
PIR: When the time slot is marked purple, this indicates the channel records only when the PIR is triggered during that time slot.

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

5.2.3 Capture

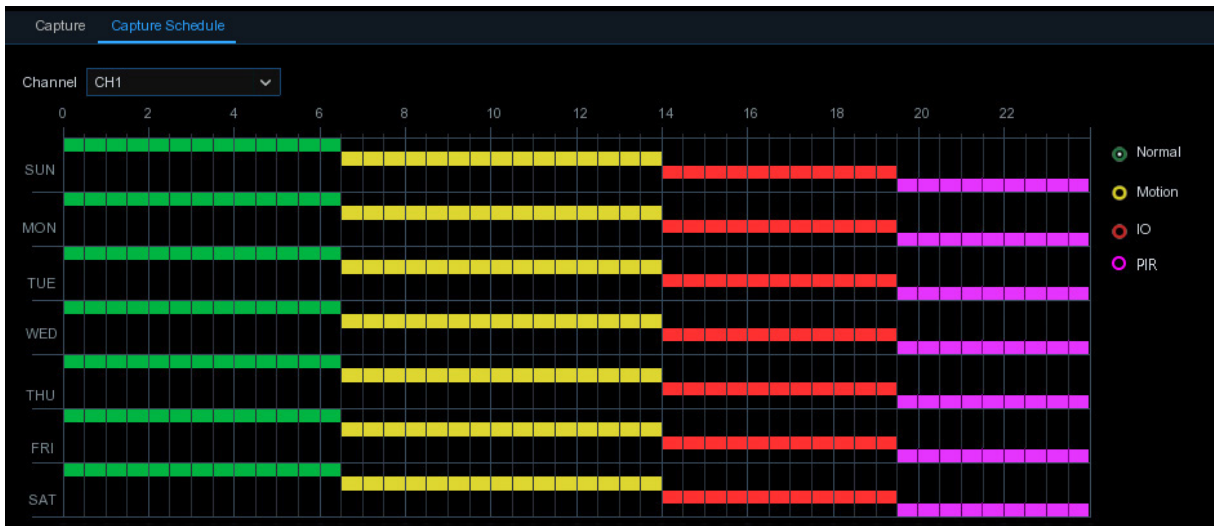
This menu allows to configure the image capture function

5.2.3.1 Capture



- 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, IO alarm 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.

PIR: When the time slot is marked purple, this indicates the channel capture images only when the PIR is triggered during that time slot.

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 same as **5.1.5 Motion**

5.3.2 I/O

This is an optional function, it will appear if your DVR supports sensor I/O, you connect external sensor I/O alarm devices to work with the DVR.

| Alarm In | Alarm Type | Buzzer | Alarm Out | Latch Time | Record | Post Recording | Show Message | Send Email | Full Screen |
|----------|---------------|---------|--------------------------|------------|--------|----------------|-------------------------------------|-------------------------------------|--------------------------|
| IO-1 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-2 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-3 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-4 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-5 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-6 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-7 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| IO-8 | Normally-Open | Disable | <input type="checkbox"/> | 10 s | ON | 30 s | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Alarm In: I/O channel.

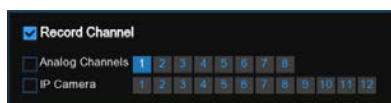
Alarm Type: There are 3 types for your choice: Normally-Open, Normally-Close, and OFF. Choose the one to match your sensor type, or choose OFF to close the sensor trigger function.

Buzzer: The DVR can use its internal buzzer to emit an alarm tone. You can set the buzzer duration in seconds when a sensor is triggered.

Alarm out: This DVR does not support the alarm out

Latch Time: you can set how long the buzzer will sound when external sensor is triggered (10s, 20s, 40s, and 60s).

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 alarm record will last when alarm ends (30s, 1minutes, 2minutes, 5minutes).

Show Message: Display the alarm messages on the screen when sensor is triggered.

Send Email: Set to send email to specified email when sensor is triggered.

Full Screen: When sensor is triggered, the corresponding channel will be switched to the full screen mode.

FTP Upload: To upload alarm images to FTP server when I/O alarm is triggered.

To enable FTP, please view **5.4.4 FTP**.

5.3.3 PIR

Operation is same as **5.1.6 PIR**

5.3.4 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.

| PTZ Linkage | | | | | | | |
|-------------|-------------------------------------|-------------------------------------|-------------------------------------|--------|--------|--------|--------|
| 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.

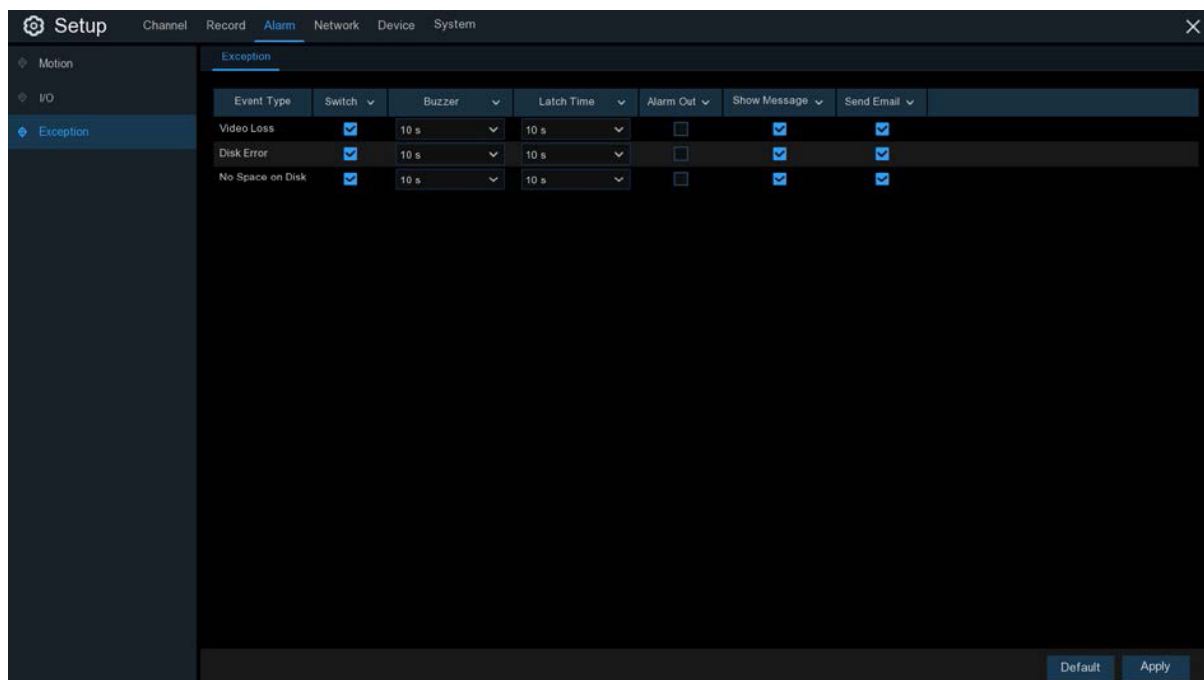
Motion: Motion detection alarm will trigger the PTZ linkage function it is checked.

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

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

5.3.5 Exception

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



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: This is an optional function not supported by this DVR.

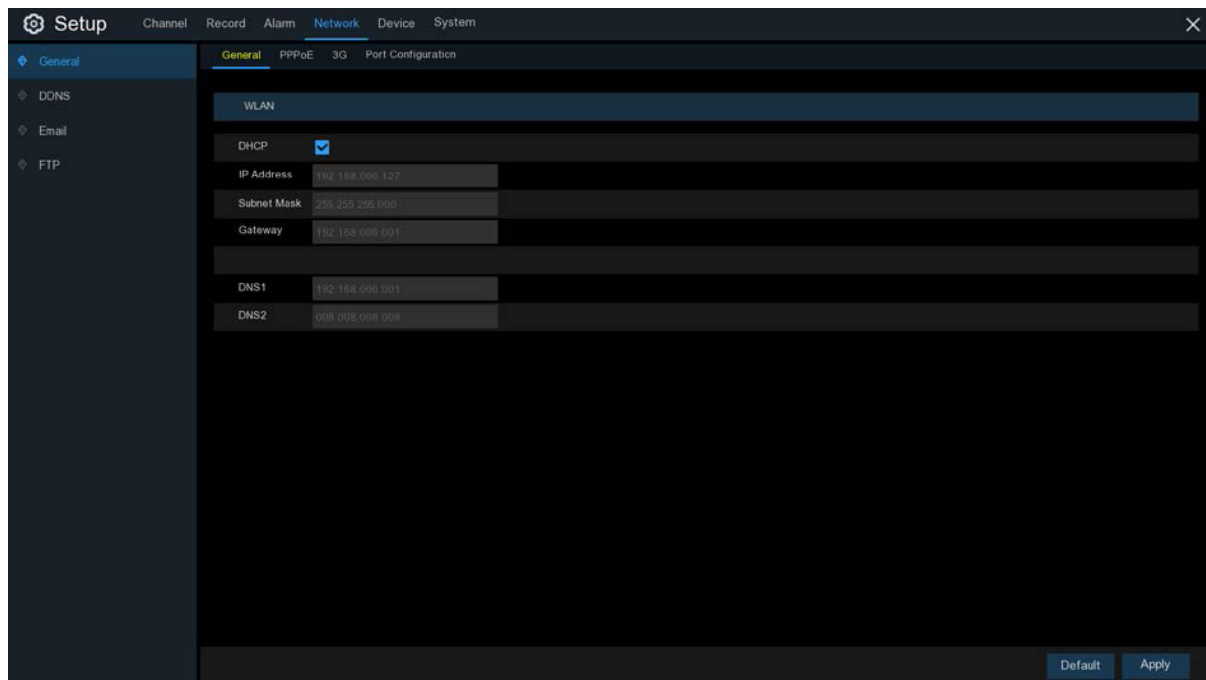
Alarm Out: This is an optional function not supported by this DVR

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 DVR 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, and 3G. 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. If you want to use mobile network connection, then choose 3G.

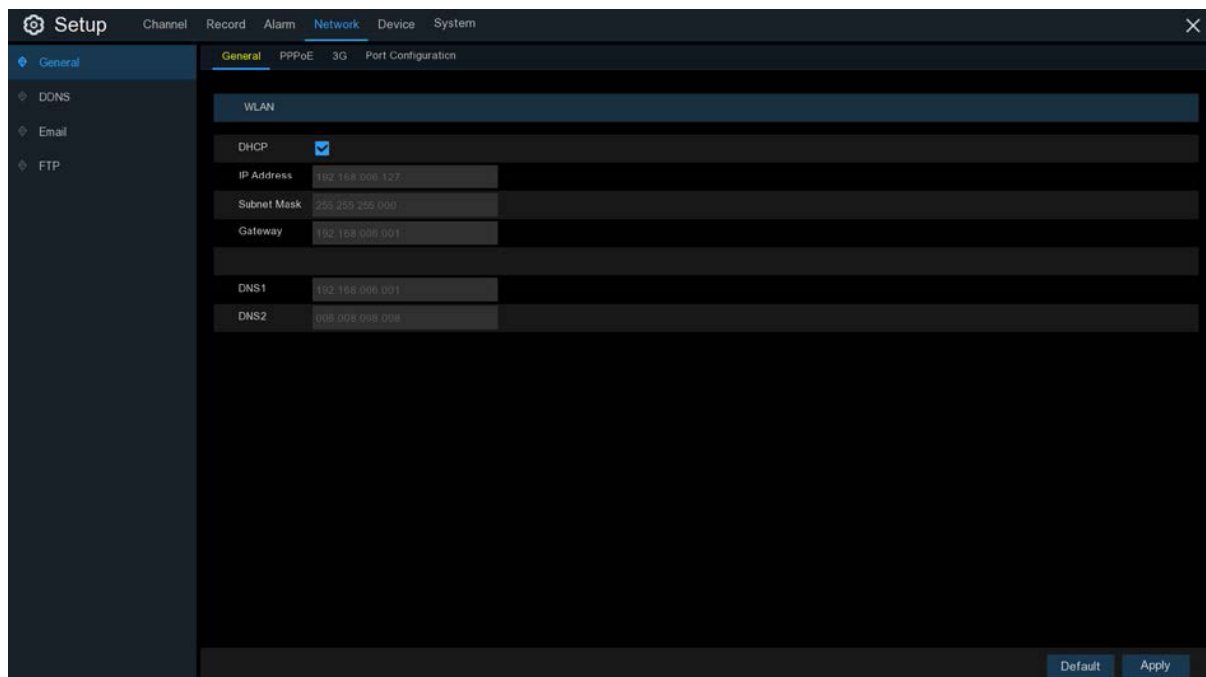


The screenshot shows the 'Setup' window with the 'Network' tab selected. The 'General' sub-tab is active, and the 'DHCP' checkbox is checked. The following network parameters are displayed:

| Parameter | Value |
|-------------|-------------------------------------|
| WLAN | |
| DHCP | <input checked="" type="checkbox"/> |
| IP Address | 192.168.0.0.127 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 192.168.0.0.1 |
| DNS1 | 192.168.0.0.1 |
| DNS2 | 0.0.0.0.0.0.0 |

Buttons for 'Default' and 'Apply' are located at the bottom right of the configuration area.

5.4.1 General



This screenshot is identical to the one above, showing the 'Network' setup window with the 'General' tab selected. The 'DHCP' checkbox is checked, and the network parameters are as follows:

| Parameter | Value |
|-------------|-------------------------------------|
| WLAN | |
| DHCP | <input checked="" type="checkbox"/> |
| IP Address | 192.168.0.0.127 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 192.168.0.0.1 |
| DNS1 | 192.168.0.0.1 |
| DNS2 | 0.0.0.0.0.0.0 |

The 'Default' and 'Apply' buttons are visible at the bottom right.

If you connect to a router that allows you to use DHCP, please check the **DHCP** box. The router will automatically assign all the network parameters for your DVR.

IP Address: The IP address identifies the DVR 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 neighborhood. The subnet address also consists of four groups of numbers, separated by periods. For example, “255.255.000.000”.

Gateway: This address allows the DVR 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.

5.4.1.1 PPPoE

The screenshot shows a web interface for configuring a DVR. The top navigation bar includes 'Setup', 'Channel', 'Record', 'Alarm', 'Network', 'Device', and 'System'. The 'Setup' menu is expanded, showing 'General', 'DNS', 'Email', and 'FTP'. The 'Network' tab is selected, and the 'PPPoE' sub-tab is active. The 'PPPoE' configuration page has a dark theme. It includes a section for 'Enable PPPoE' with a checkbox. Below this are fields for 'User' and 'Password' (with a 'Show Password' checkbox). Further down are fields for 'IP Address' (192.168.006.127), 'Subnet Mask' (255.255.255.006), 'Gateway' (192.168.006.001), 'DNS1' (192.168.006.001), and 'DNS2' (008.008.008.008). At the bottom right are 'Default' and 'Apply' buttons.

This is an advanced protocol that allows the DVR 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.

5.4.1.2 3G

This is for using the mobile network, you need to connect a 3G dongle to the DVR.

The screenshot shows the 'Setup' window with the 'Network' tab selected. Under the '3G' sub-tab, the 'Port Configuration' section is active. The 'Enable 3G' checkbox is checked. The following fields are filled: APN (3gnet), Dial Code (*99#), User (card), and Password (masked with dots). There is a 'Show Password' checkbox which is unchecked. Below these, the IP Address, Subnet Mask, and Gateway are all set to 0.0.0.0. DNS1 is set to 192.168.0.1 and DNS2 is set to 0.0.0.0. At the bottom right, there are 'Default' and 'Apply' buttons.

Enable the 3G option, enter the APN, Dial Code, User name & password according to the instruction of your 3G dongle device.

Prior using the mobile network, you need to connect a 3G dongle to the DVR

5.4.1.3 Port Configuration

The screenshot shows the 'Setup' window with the 'Network' tab selected. Under the 'Port Configuration' sub-tab, the following fields are filled: Web Port (00080), Client Port (09000), and RTSP Port (00554). The UPNP checkbox is checked. At the bottom right, there are 'Default' and 'Apply' buttons.

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

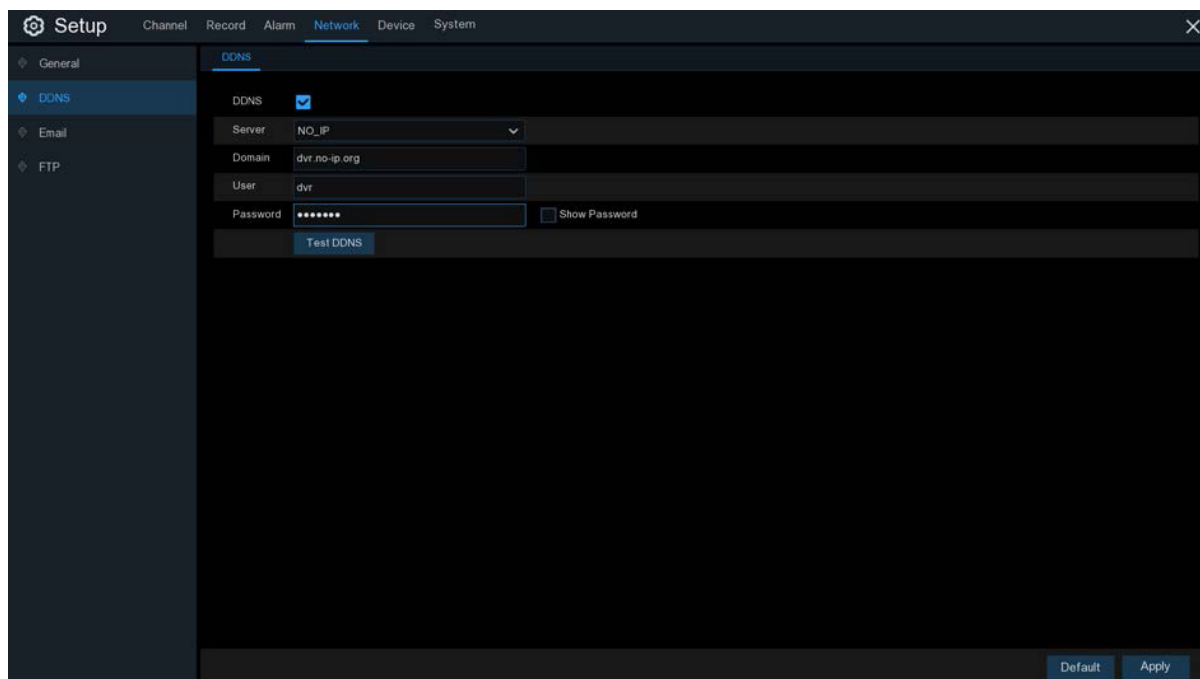
Client Port: This is the port that the DVR will use to send information through. If the default port 9000 is already taken by other applications, please change it.

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 DVR 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 DVR 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 DVR. To use the DDNS, you first need to open an account on the DDNS service provider's web page.



The screenshot shows the 'Setup' window with the 'Network' tab selected. The 'DDNS' sub-tab is active, displaying a configuration form. The form includes a 'DDNS' checkbox (checked), a 'Server' dropdown menu (set to 'NO_IP'), a 'Domain' text field (containing 'dvr.no-ip.org'), a 'User' text field (containing 'dvr'), and a 'Password' text field (masked with dots). A 'Show Password' checkbox is next to the password field. A 'Test DDNS' button is located below the password field. At the bottom right of the window, there are 'Default' and 'Apply' buttons.

DDNS: Check to enable DDNS.

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

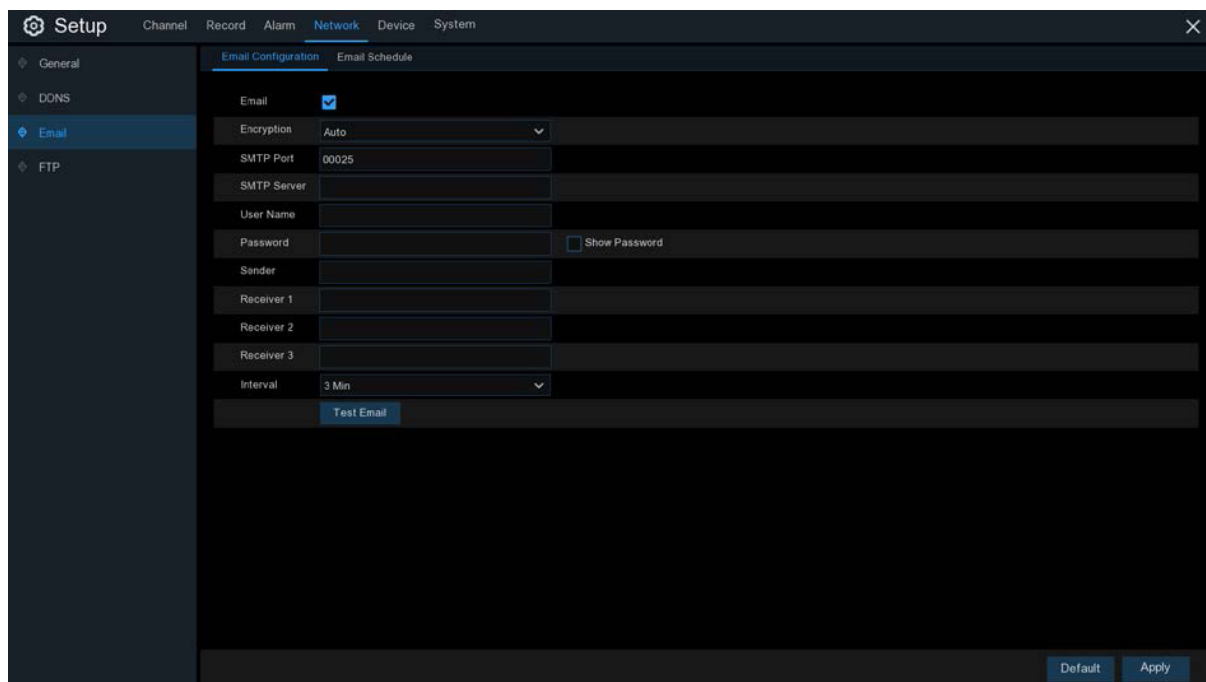
Domain: Enter the domain name you created on the DDNS service provider's web page. This will be the address you type in the URL box when you want to connect remotely to the WIRELESS NVR via PC. For example: NVR.no-ip.org.

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.

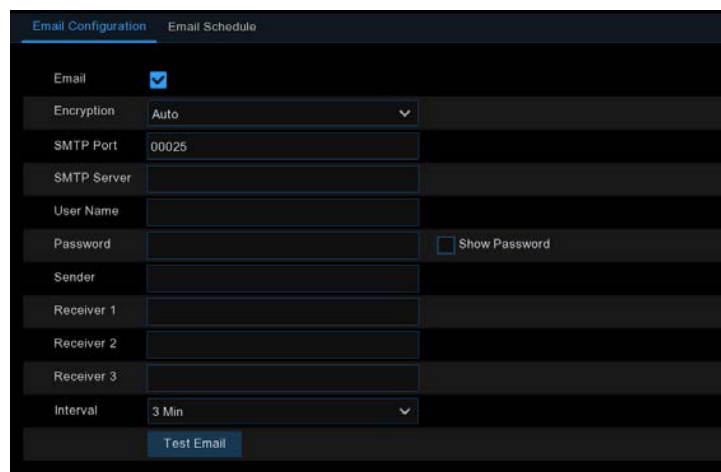
5.4.3 Email

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



The screenshot shows the 'Setup' window with the 'Email' tab selected. The 'Email Configuration' sub-tab is active. The 'Email' checkbox is checked. The 'Encryption' dropdown is set to 'Auto'. The 'SMTP Port' is set to '00025'. The 'SMTP Server', 'User Name', 'Password', 'Sender', 'Receiver 1', 'Receiver 2', and 'Receiver 3' fields are empty. The 'Interval' dropdown is set to '3 Min'. A 'Test Email' button is visible at the bottom. The 'Default' and 'Apply' buttons are at the bottom right.

5.4.3.1 Email Configuration



This is a close-up of the 'Email Configuration' form. It shows the 'Email' checkbox checked, 'Encryption' set to 'Auto', 'SMTP Port' set to '00025', and 'Interval' set to '3 Min'. The 'Test Email' button is highlighted.

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.

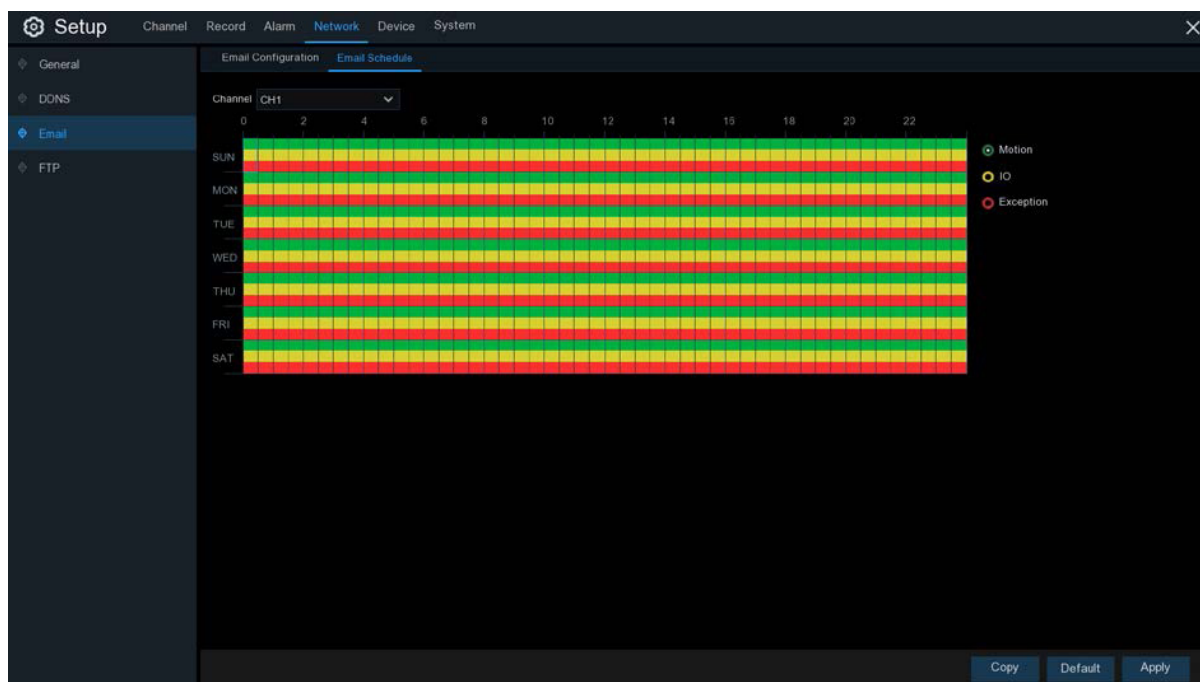
Receiver 1~3: Enter the email address where you want to receive the event notifications from the DVR.

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

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.

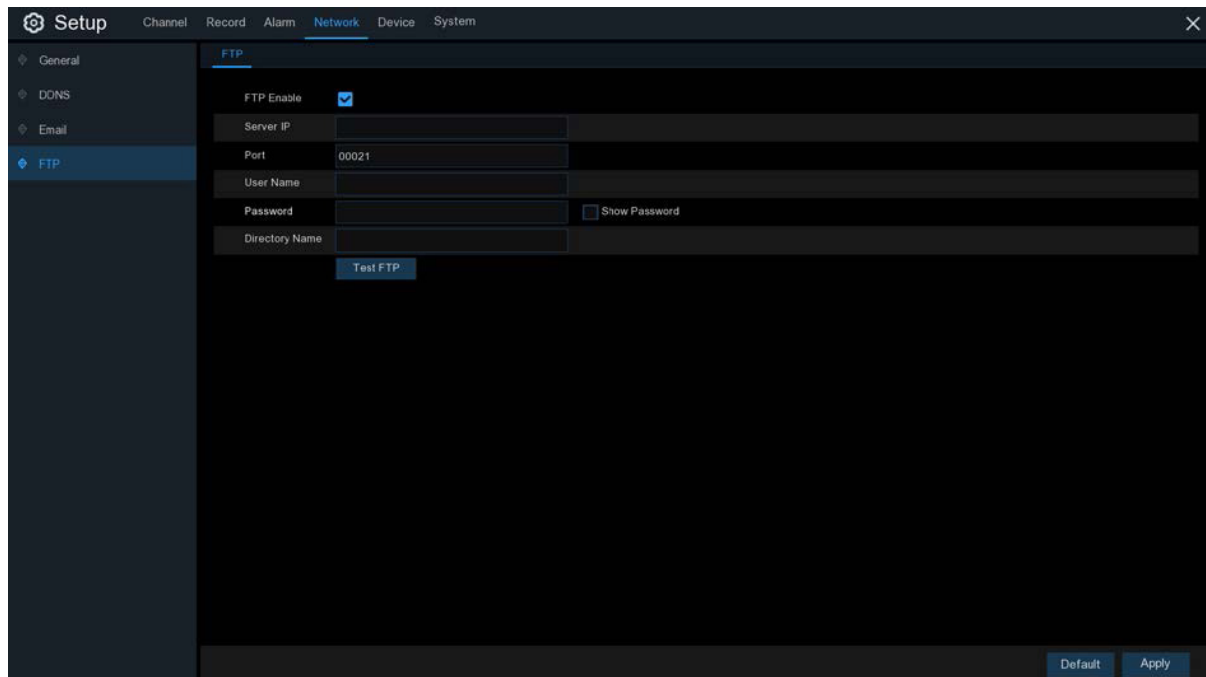
Yellow: Slot for I/O Alarm (Optional: not supported by this DVR).

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

Purple: Slot for PIR (optional).

5.4.4 FTP

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



The screenshot shows a web-based configuration interface for a DVR. The top navigation bar includes 'Setup', 'Channel', 'Record', 'Alarm', 'Network', 'Device', and 'System'. The 'Setup' menu is expanded, showing sub-options: General, DDNS, Email, and FTP (which is selected). The main content area is titled 'FTP' and contains the following fields: 'FTP Enable' (checked), 'Server IP' (empty), 'Port' (00021), 'User Name' (empty), 'Password' (empty with a 'Show Password' checkbox), and 'Directory Name' (empty). A 'Test FTP' button is located below the 'Directory Name' field. At the bottom right, there are 'Default' and 'Apply' buttons.

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.

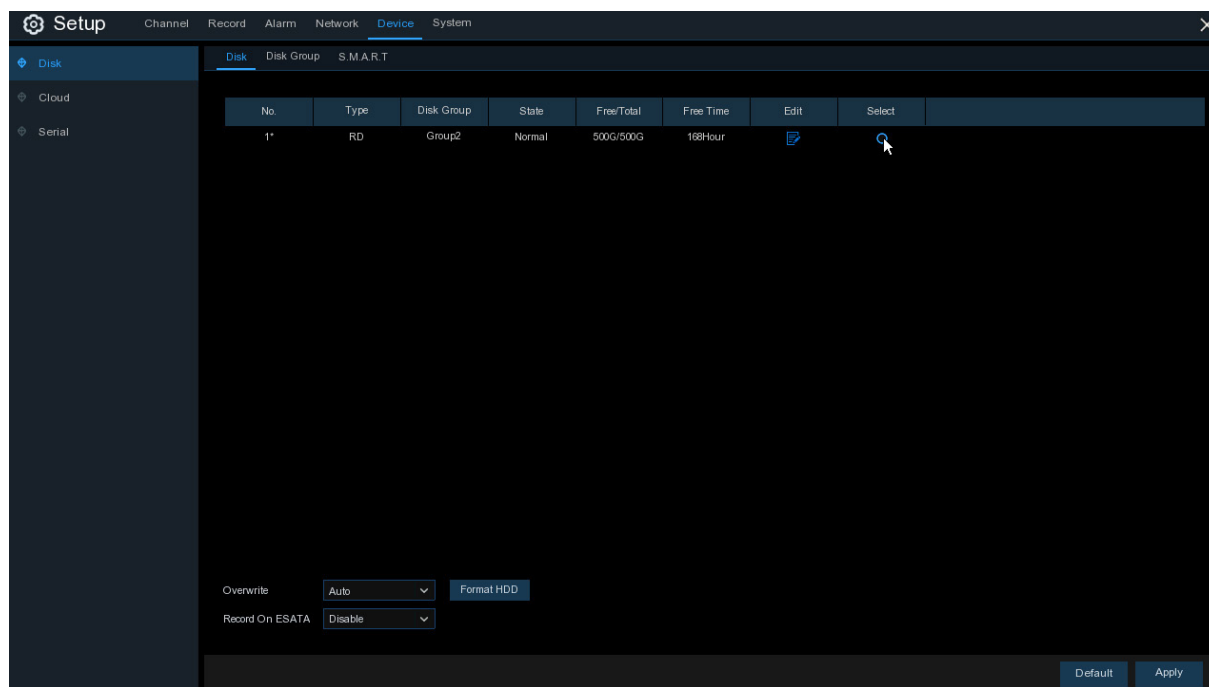
Test FTP: Click to test the FTP settings.

5.5 Device

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

5.5.1 Disk

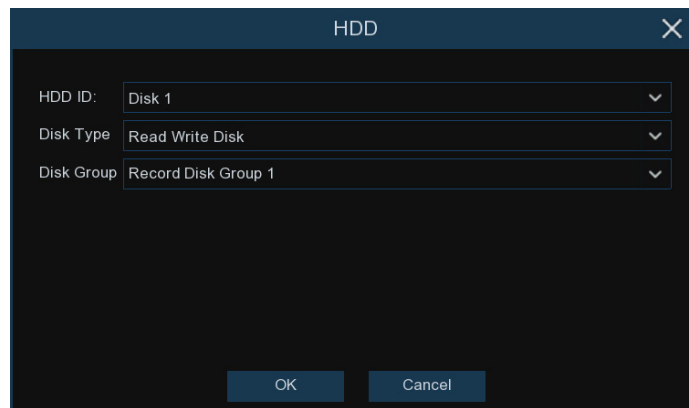
This menu allows you to check & configure the internal HDD. You need to format the HDD only at the first startup and if you replace a new HDD.



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.

If your DVR supports to install multiple HDDs, the edit icon  appears in your system, you can click it to edit the HDD as below:



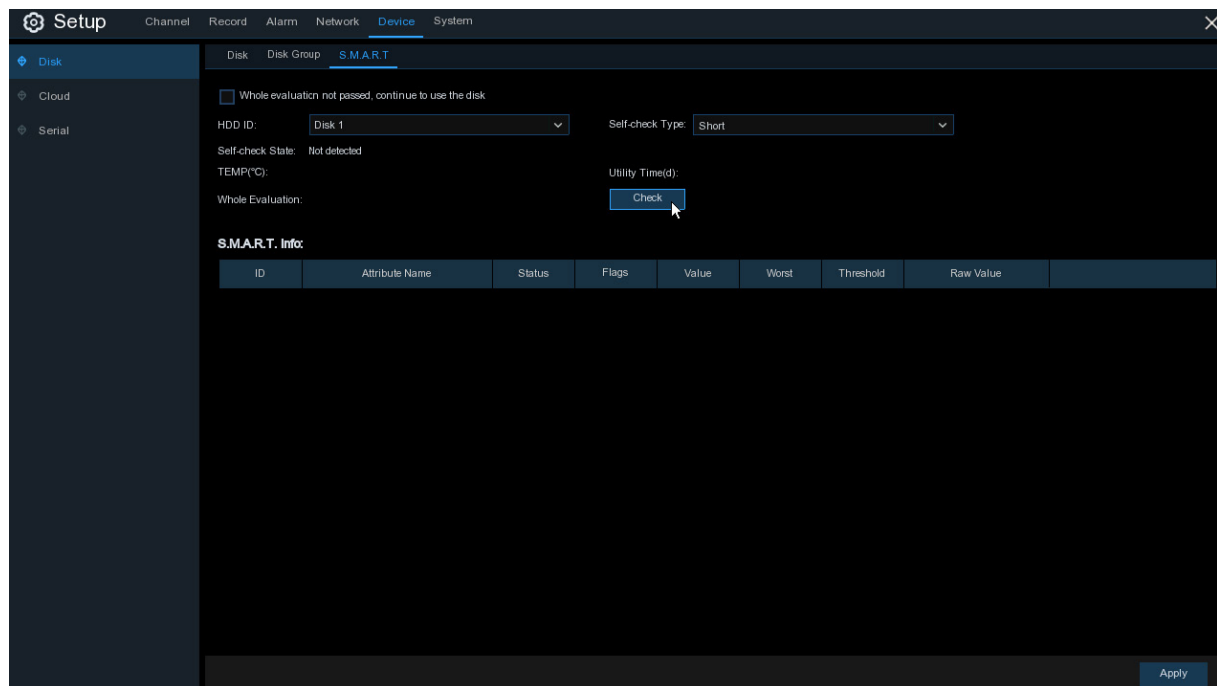
Disk Type: Read-write, read-only, and redundant.

Read-write mode is the normal status for a HDD to save recording or search recording to play. To prevent important video data from being overwritten during cyclic recording, the HDD can be set as **Read-only** mode. New recording will be not able to save into this read-only HDD. You can still search recording from this read-only HDD to play.

A **Redundant** HDD can be used to automatically backup video footage on the recording (read-write) hard drive. When a redundant HDD is set, the system can be set to record cameras in parallel to both the recording hard drive and the redundant hard drive in case of hard drive failure.

5.5.1.1 S.M.A.R.T

This function can be used to display technical information on the hard drive installed inside your DVR. 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: If for some reason the hard drive has developed a fault (such as one or more bad sectors), you can instruct your DVR 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 DVR 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.

5.5.2 Cloud

Your DVR has the ability to upload snapshots to the cloud service via Dropbox which is a free service that allows you to easily store and share snapshots and always have them on hand when you need them.

The screenshot shows the 'Setup' window with the 'Device' tab selected. The 'Cloud' sub-tab is active. On the left, a sidebar shows 'Disk' and 'Cloud' options, with 'Cloud' selected. The main area is titled 'Cloud' and contains the following elements:

- Cloud Storage:** A checkbox that is checked.
- Cloud Type:** A dropdown menu set to 'DROPBOX'.
- Activate Cloud:** A button to the right of the dropdown.
- Table:** A table with 3 columns: 'Channel', 'Alarm Detection', and 'Drive Name'. It lists 16 channels (CH1 to CH16). Each row has a checked checkbox in the 'Alarm Detection' column and a text input field in the 'Drive Name' column containing the default name '4M-HY16/CH1' through '4M-HY16/CH16'.
- Buttons:** 'Copy', 'Default', and 'Apply' buttons are located at the bottom right of the table area.

Before activating the cloud function, we recommend that you create a Dropbox account using the same email address and password used for your DVR. Go to www.dropbox.com, input your name, email address and password, agree to the terms & conditions then click the sign up button.

Cloud Storage: Check to enable the function.

Cloud Type: Only Dropbox is supported currently.

Alarm Detection: Enable if you want to upload snapshots to Dropbox when the camera detects motion.

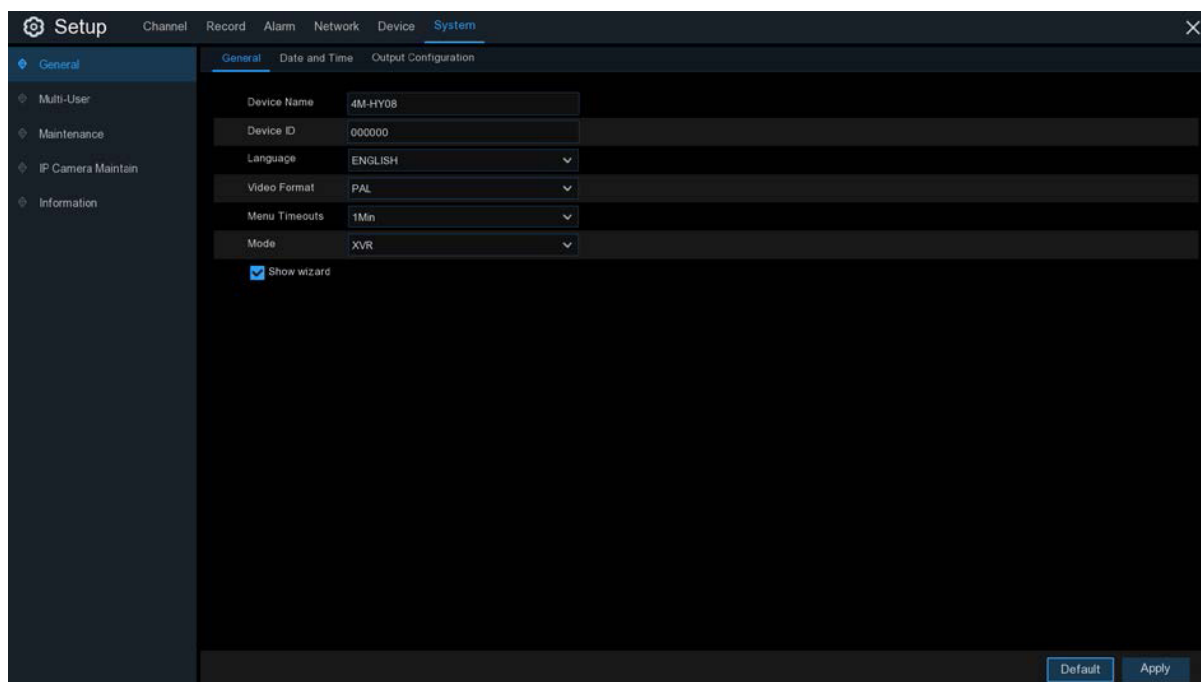
Drive Name: Enter the cloud storage name for your DVR.

Activate Cloud: Click to activate the function. After a short moment, you will see a message on-screen. An activation link has been sent to your email (the email address which you had set to receive email alerts in **5.4.3 Email**). Check your email then click the link to activate. You will be taken to the Dropbox website. Click “Allow” to finalise the activation. Repeat these steps if you would like to enable cloud storage for the other cameras available.

5.6 System

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

5.6.1 General



The screenshot shows a web-based configuration interface for a system. The top navigation bar includes 'Setup', 'Channel', 'Record', 'Alarm', 'Network', 'Device', and 'System'. The 'System' tab is active, and the 'General' sub-tab is selected. On the left, a sidebar lists 'General', 'Multi-User', 'Maintenance', 'IP Camera Maintain', and 'Information'. The main area contains the following fields:

| | |
|---------------|---------|
| Device Name | 4M-HY08 |
| Device ID | 000000 |
| Language | ENGLISH |
| Video Format | PAL |
| Menu Timeouts | 1Min |
| Mode | XVR |

Below these fields is a checkbox labeled 'Show wizard' which is checked. At the bottom right, there are 'Default' and 'Apply' buttons.

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

Device ID: Enter the desired ID for your DVR. The device ID is used to identify the DVR, and can only be composed of numbers. For example, 2pcs DVRs are installed in the same place, the Device ID is 000000 for one of the DVRs, and 111111 for another DVR. When you want to operate the DVR with a remote controller, both of the DVR may receive the signal from controller & act at the same time. If you want to control only the DVR 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 DVR will exit the Main Menu when idle. You can also disable this by selecting "OFF" (password protection will be temporarily disabled).

Mode: XVR or DVR. XVR model will allow you to add IP Cameras to the DVR. If you change the mode from XVR to DVR, all added IP cameras will be deleted.

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

5.6.1.1 Date and Time

The screenshot shows the 'Setup' window with the 'System' tab selected. Under the 'Date and Time' sub-tab, the following settings are visible:

- Date and Time:**
 - Date: 04/14/2017 (with a calendar icon)
 - Time: 17:12:49
 - Date Format: MM/DD/YY
 - Time Format: 24Hour
 - Time Zone: GMT+08:00
- NTP Settings:**
 - Enable NTP: ☐
 - Server Address: pool.ntp.org
 - Update Now button
- DST Settings:**
 - Enable DST: ☐
 - Time Offset: 1Hour
 - Enable DST: Week
 - Start Time: Mar, The 2nd, Sun, 02:00:00
 - End Time: Nov, The 1st, Sun, 02:00:00

Buttons for 'Default' and 'Apply' are located at the bottom right of the window.

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 DVR to automatically sync its clock with a time server. This gives it the ability to constantly have an accurate time setting (your DVR will periodically sync automatically).

This screenshot is a close-up of the NTP Settings section in the 'Date and Time' sub-tab. The 'Enable NTP' checkbox is checked. The 'Server Address' dropdown menu is open, showing 'pool.ntp.org' as the selected option. The 'Update Now' button is highlighted with a mouse cursor.

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.

The screenshot shows a configuration interface with three tabs: General, Date and Time (selected), and Output Configuration. The Date and Time section includes fields for Date (10/20/2017), Time (16:14:04), Date Format (MM/DD/YY), Time Format (24Hour), and Time Zone (GMT+08:00). Below this is the NTP Settings section with 'Enable NTP' checked and 'Server Address' set to pool.ntp.org, with an 'Update Now' button. The DST Settings section has 'Enable DST' checked. Under 'Time Offset', '1Hour' is selected. Under 'Enable DST', 'Week' is selected. The 'Start Time' row is configured with Mar., The 2nd, Sun., and 02:00:00. The 'End Time' row is configured with Nov., The 1st, Sun., and 02:00:00.

| Date and Time | | | | |
|---------------|------------|--|--|--|
| Date | 10/20/2017 | | | |
| Time | 16:14:04 | | | |
| Date Format | MM/DD/YY | | | |
| Time Format | 24Hour | | | |
| Time Zone | GMT+08:00 | | | |

| NTP Settings | | | | |
|-----------------------------|-------------------------------------|--|--|--|
| Enable NTP | <input checked="" type="checkbox"/> | | | |
| Server Address | pool.ntp.org | | | |
| <button>Update Now</button> | | | | |

| DST Settings | | | | |
|--------------|-------------------------------------|---------|------|----------|
| Enable DST | <input checked="" type="checkbox"/> | | | |
| Time Offset | 1Hour | | | |
| Enable DST | Week | | | |
| Start Time | Mar. | The 2nd | Sun. | 02:00:00 |
| End Time | Nov. | The 1st | Sun. | 02:00:00 |

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:

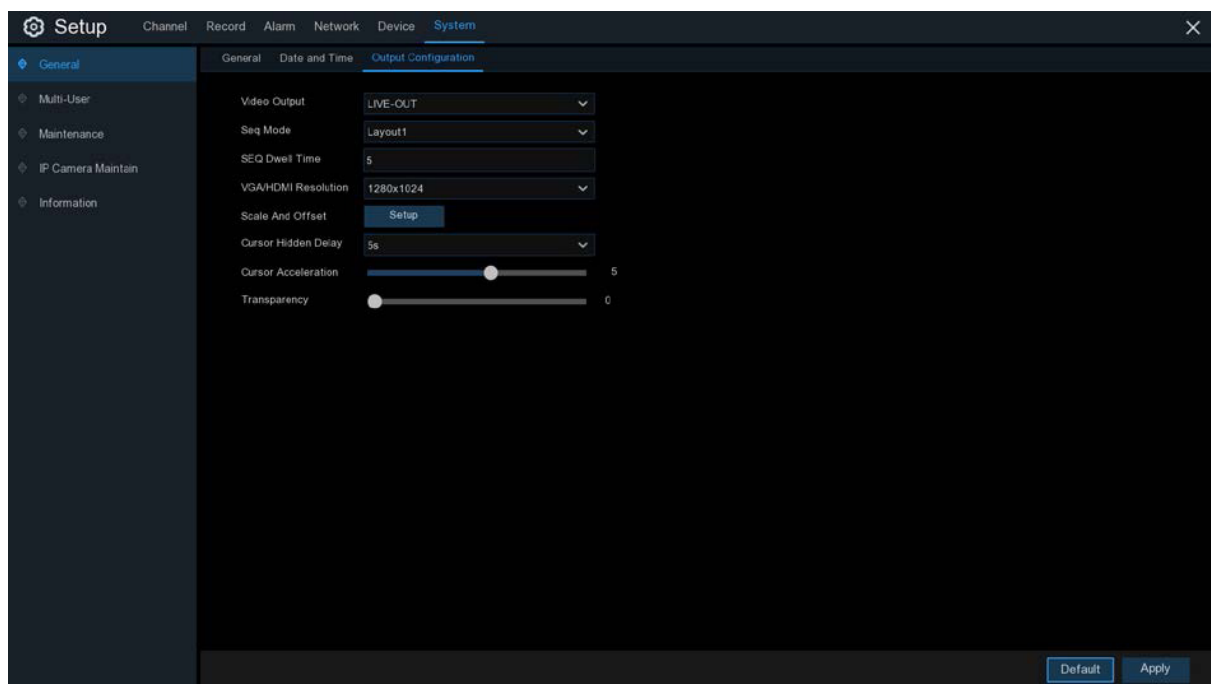
Week: Select the month, a particular day and time when Daylight Saving starts and ends. For example, 2 a.m. on the first Sunday of a particular month.

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.

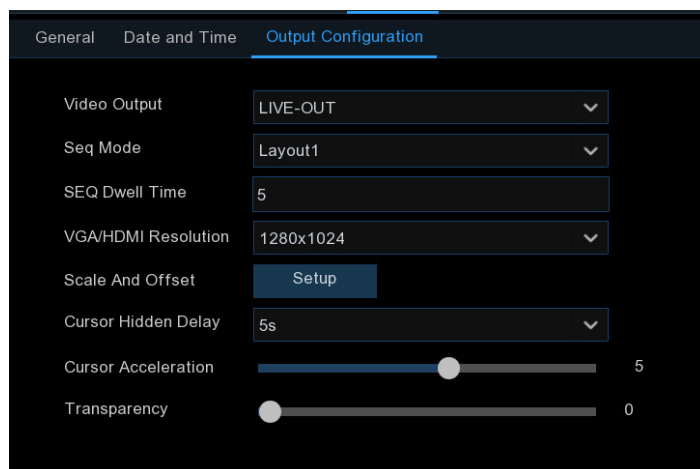


Video Output: To choose the output options:

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

SPOT-OUT is an optional option to config the VGA spot output parameters.

5.6.2.1 LIVE-OUT



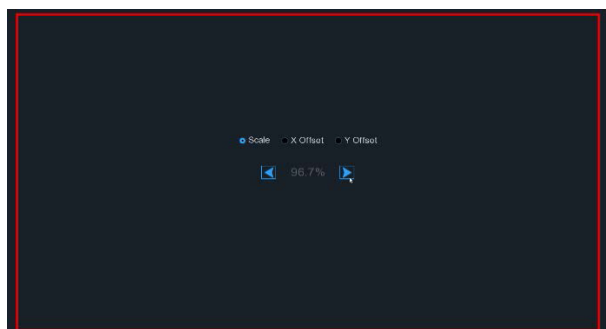
Choose **LIVE-OUT** from the Video Output drop-down menu.

SEQ Mode: Select how many video channels you would like to display when your DVR 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.

Scale and Offset: The DVR 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.

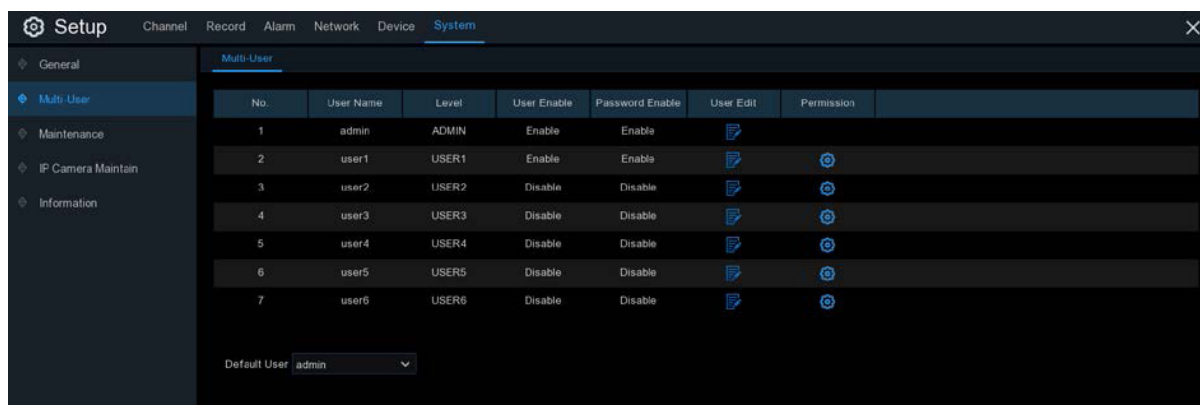
Cursor Hidden Delay: Click the drop-down menu to select the time your DVR will hide the mouse cursor when idle. You can also disable this by selecting “OFF” (password protection will be temporarily disabled).

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.

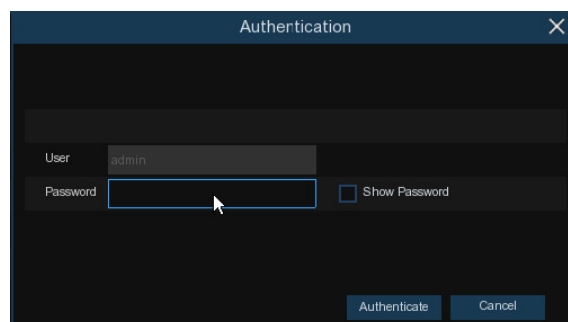
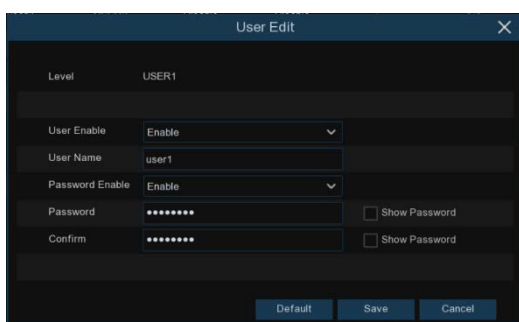


The system supports the following account types:

- **ADMIN — System Administrator:** The administrator has full control of the system, and can change both administrator and user passwords and enable/disable password
- **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 DVR is placed in a secure place.

5.6.3.2 Add New Users

| 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: admin ▼

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

User Edit

Level

USER1

User Enable

Enable

User Name

user1

Password Enable

Enable

Password

••••••

Show Password

Confirm

••••••

Show Password

Default














Save

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: admin

1. Click the edit icon  under Permission tab.

User Permission

User Name

user1

☒ Log Search

☒ Disk

☒ Backup

☒ Live

☒ Playback

☒ PTZ

☒ Parameter

☒ Remote Login

☒ Maintain

☒ SEQ Control

☒ Manual Record

☒ Manual Capture

☒ Analog Channels

☒ IP Camera

12345678

123456789101112

☒ Analog Channels

☒ IP Camera

12345678

123456789101112

☒ Analog Channels

☒ IP Camera

12345678

123456789101112

All

Clear

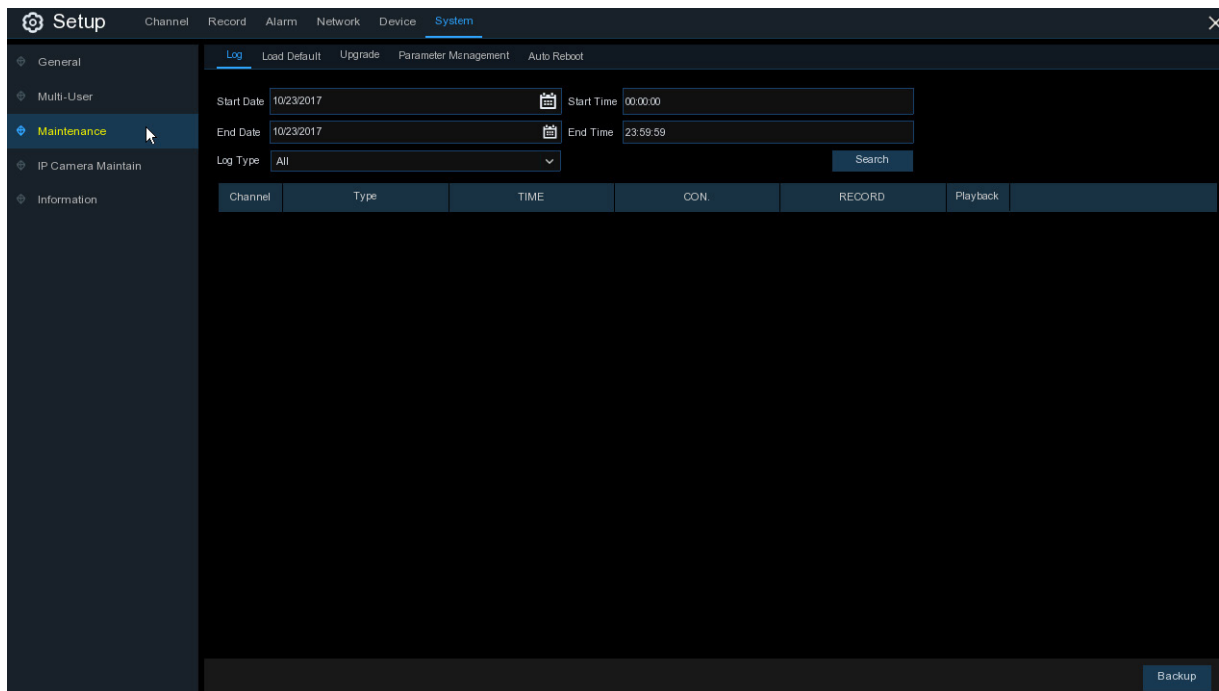
Save

Cancel

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.

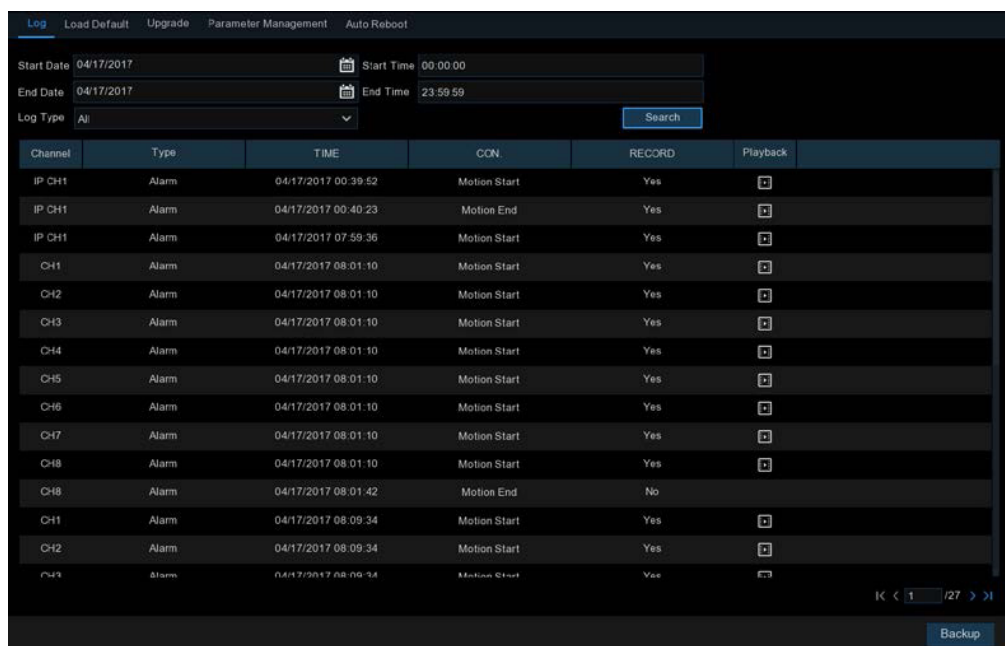
5.6.4 Maintenance

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.

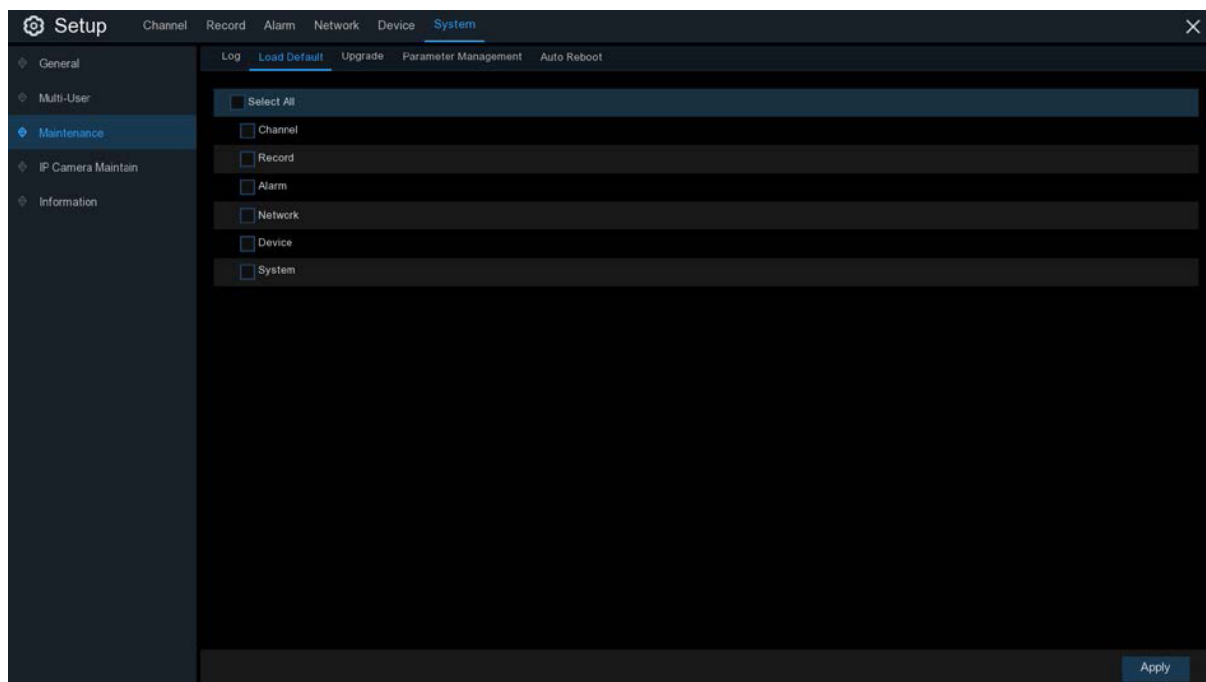


Log Searching and Backing Up:

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 drive has been connected to the DVR'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.

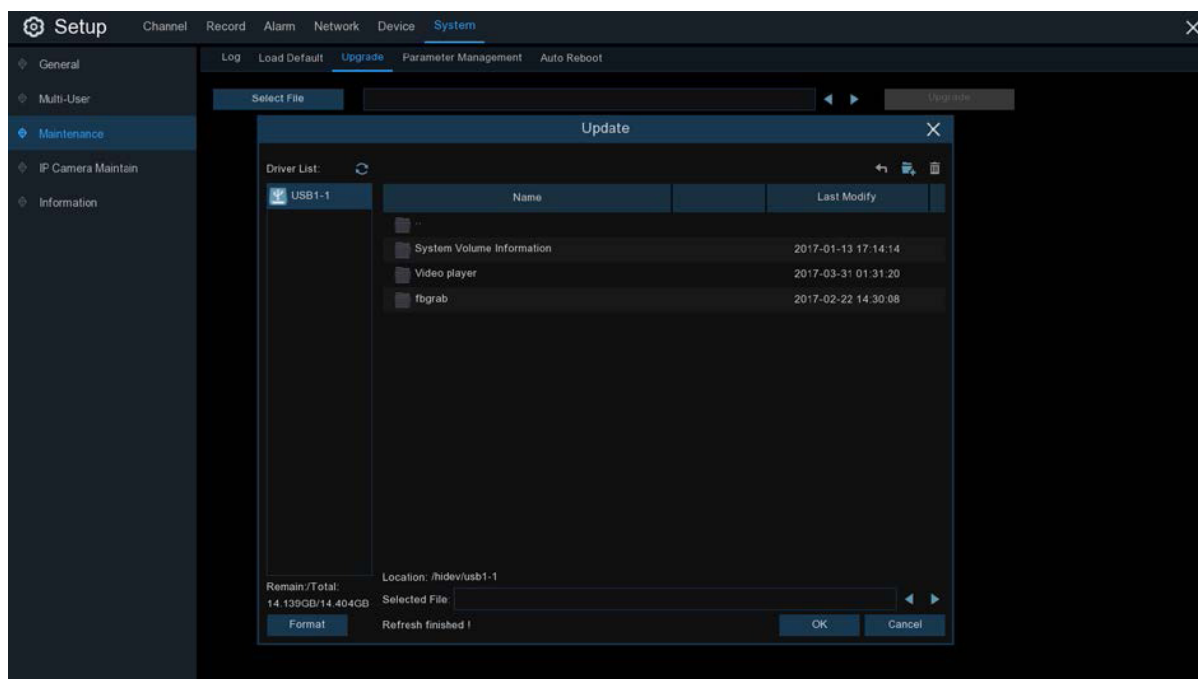
5.6.4.2 Load Default

Reset the DVR 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 to, or check **Select All** to choose all items. Click **Apply** to load default settings of your chosen items.

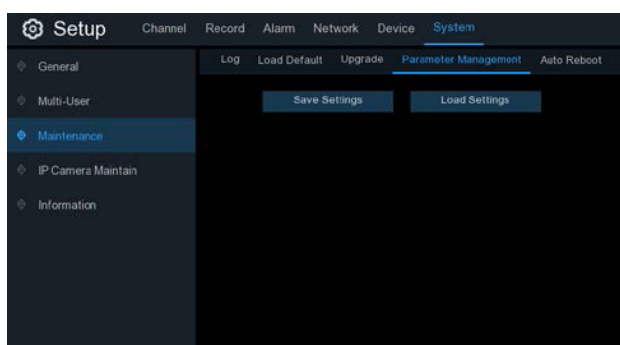
5.6.4.3 Upgrade



1. Copy the firmware file (.sw file) to your USB drive, and insert the USB flash drive into the DVR'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 DVR or remove the USB from the DVR 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 DVR.

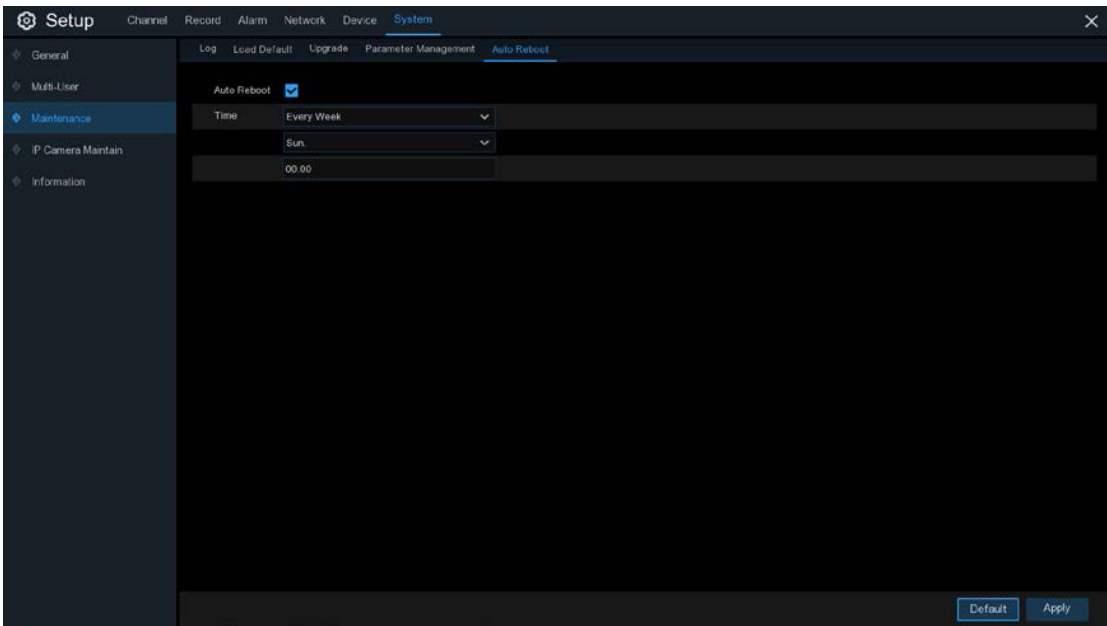


Save Settings: Click to save the DVR current system settings to the USB device. You will be required to input the Admin password to authenticate.

Load Settings: Once you have created a system settings export, you can import the settings on another DVR. 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.

5.6.4.4 Auto Reboot

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

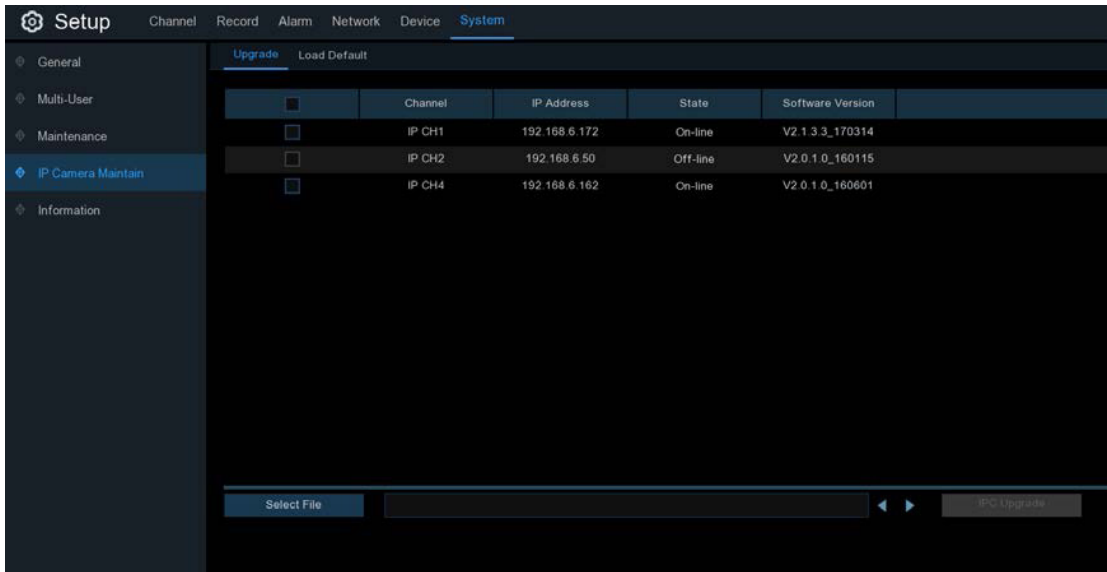


Auto Reboot: Check to enable.

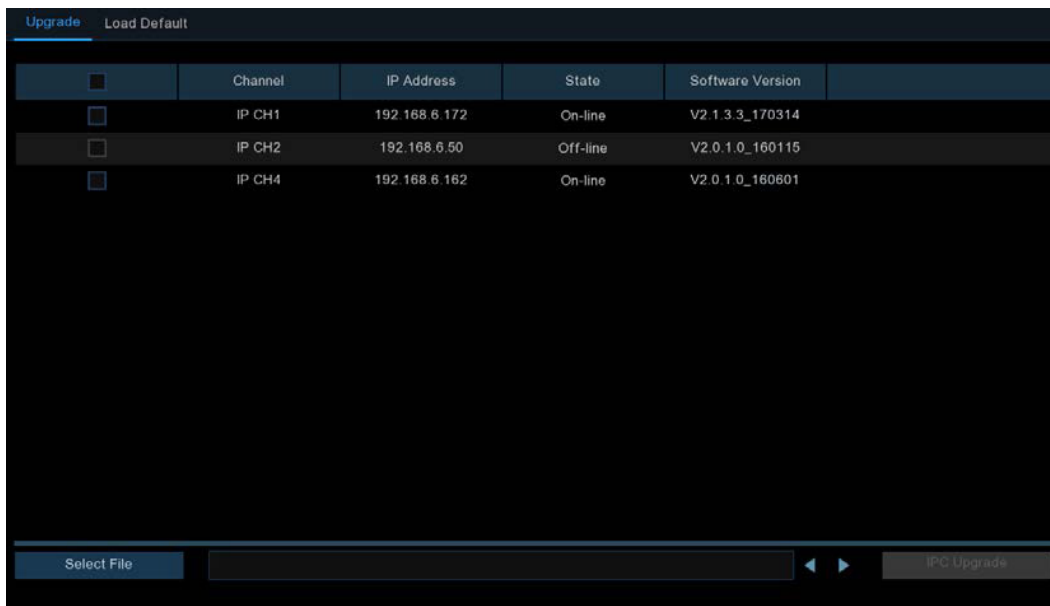
Time: You can set the DVR to reboot by day, week or month.

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 DVR 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.

| Parameter | Value |
|-------------------|-------------------|
| 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 code with the mobile app to remotely view the DVR.

5.6.6.2 Channel Information

| Information Channel Information Record Info Network State | | | | | | | |
|---|-------|---------|-------------------------|-----------------------|------------------|--------------|--|
| 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 Information

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 Information | 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 | | 86-72-29-86-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 DVR's total input band width for IP cameras.

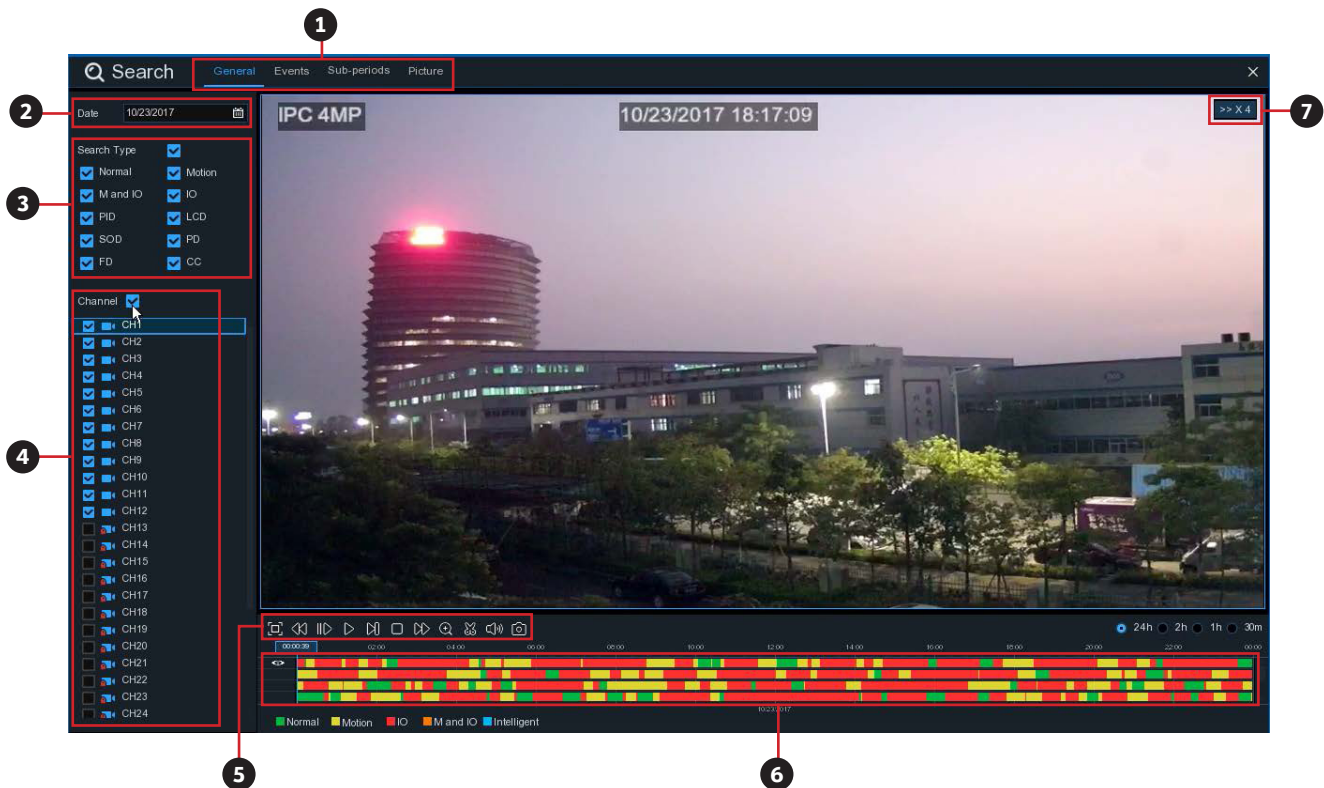
Used Band Width: It shows the used band width of IP cameras.

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 DVR'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;

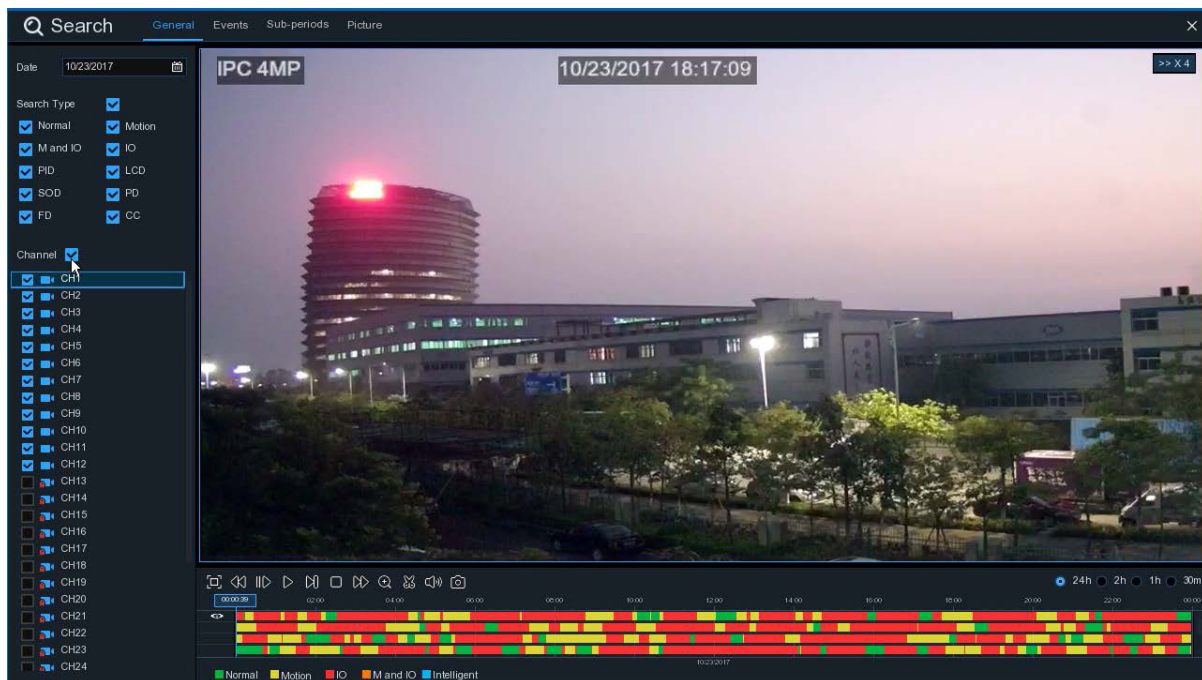
Intelligent Recording in **Blue** colour;

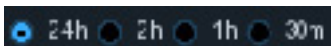

PIR Recording in **Purple** colour;

7. Playback Status: display the video play status.

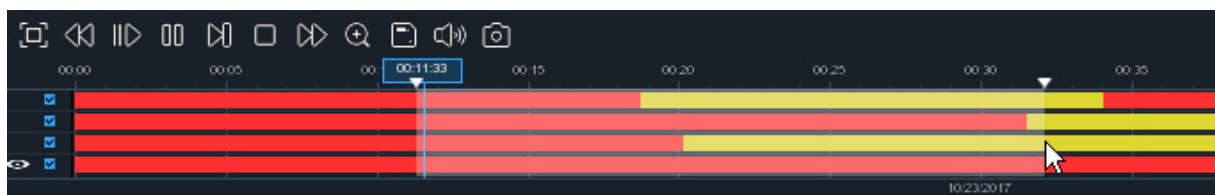
6.1.1 Search & Play Video in General


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






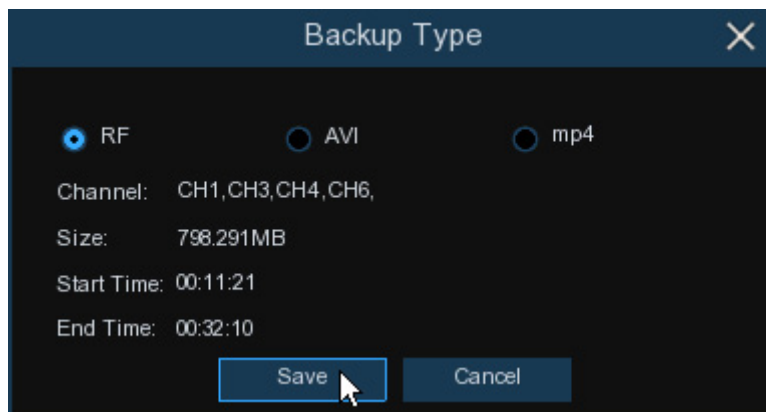
1. Select a date to search for video recordings from the calendar.
2. Choose a search type.
3. Check channels you would like to search, or check **Channel** to search all connected channels.
4. The search result will display on the timeline from 00:00 to 24:00.
5. Click ▶ button to start playback.
6. 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

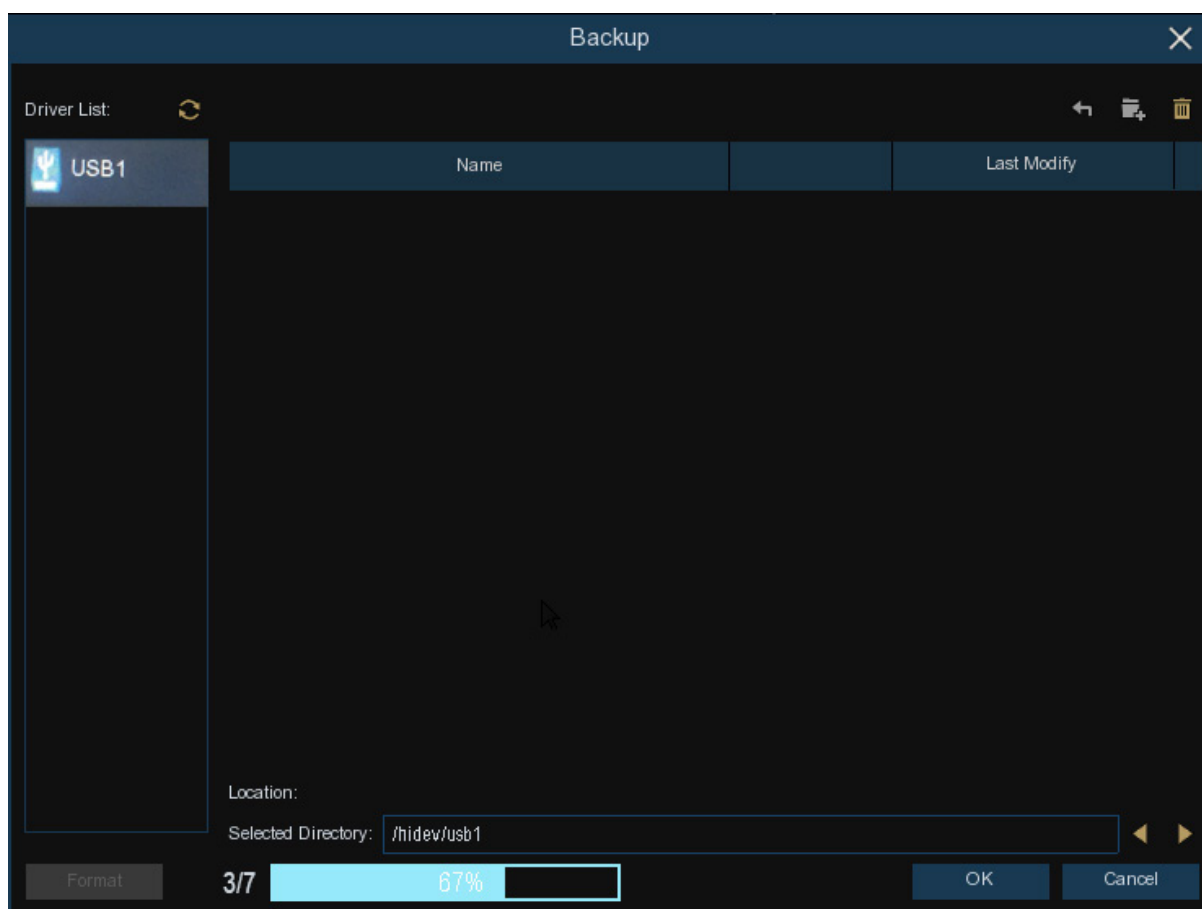


1. Insert your external USB drive to the DVR.
2. Start a video recording playback.
3. Click .
4. Check the channel(s) you want to make a video clip backup.
5. Move the mouse cursor to the timeline where you want to start the video clip.

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.

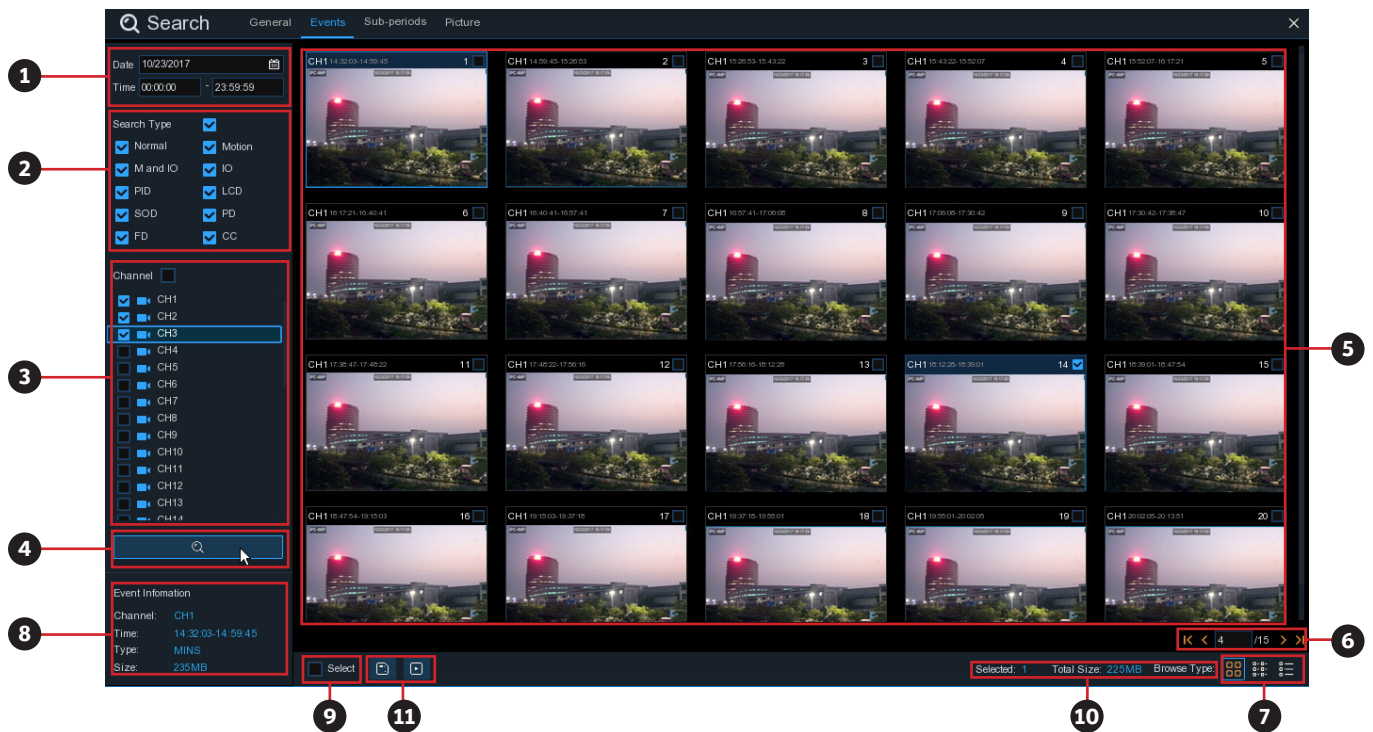


9. The backup drive menu appears. Navigate to the folder you want the backup files to save in.
10. Click **OK** to begin. The progress bar at the bottom of the window shows you the progress of the backup.



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 an external USB thumbdrive or HDD.



To search, play & back up for events:

1. Choose the date & 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
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 by clicking below the icons which are shown at the bottom right 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 00:00:30 | 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 04:19:35 | 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 | 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 13:34:42 |
| 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 12:55:45 |
| 49 CH1 13:00:48 | 50 CH1 13:30:45 | 51 CH1 13:37:51 | 52 CH1 13:57:01 | 53 CH1 14:10:24 | 54 CH1 14:11:16 | 55 CH1 14:11:16 | 56 CH1 14:35:26 |
| 57 CH1 14:40:31 | 58 CH1 14:44:42 | 59 CH1 14:48:38 | 60 CH1 15:13:44 | 61 CH1 15:39:06 | 62 CH1 16:01:07 | 63 CH1 16:16:00 | 64 CH1 13:24:41 |
| 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 13:08:45 |
| 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 19:36:30 | 79 CH1 19:50:34 | 80 CH1 20:01:42 |
| 81 CH1 20:25:40 | 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 21:47:36 | 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 23:55:50 | |



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

| | Channel | Type | Date | Start Time | End Time | Size | Playback | Lock |
|-----------------------------|---------|-------|------------|------------|----------|-------|----------|------|
| <input type="checkbox"/> 1 | CH1 | VIINS | 10/23/2017 | 00:00:00 | 00:00:45 | 6MB | | |
| <input type="checkbox"/> 2 | CH1 | VIINS | 10/23/2017 | 00:00:45 | 00:18:30 | 150MB | | |
| <input type="checkbox"/> 3 | CH1 | VIINS | 10/23/2017 | 00:18:30 | 00:44:03 | 217MB | | |
| <input type="checkbox"/> 4 | CH1 | VIINS | 10/23/2017 | 00:44:03 | 01:10:48 | 227MB | | |
| <input type="checkbox"/> 5 | CH1 | VIINS | 10/23/2017 | 01:10:48 | 01:19:22 | 72MB | | |
| <input type="checkbox"/> 6 | CH1 | VIINS | 10/23/2017 | 01:19:22 | 01:35:57 | 138MB | | |
| <input type="checkbox"/> 7 | CH1 | VIINS | 10/23/2017 | 01:35:57 | 01:43:32 | 67MB | | |
| <input type="checkbox"/> 8 | CH1 | VIINS | 10/23/2017 | 01:43:32 | 02:01:12 | 150MB | | |
| <input type="checkbox"/> 9 | CH1 | VIINS | 10/23/2017 | 02:01:12 | 02:25:38 | 207MB | | |
| <input type="checkbox"/> 10 | CH1 | VIINS | 10/23/2017 | 02:25:38 | 02:43:17 | 150MB | | |
| <input type="checkbox"/> 11 | CH1 | VIINS | 10/23/2017 | 02:43:17 | 03:02:03 | 160MB | | |
| <input type="checkbox"/> 12 | CH1 | VIINS | 10/23/2017 | 03:02:03 | 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.

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

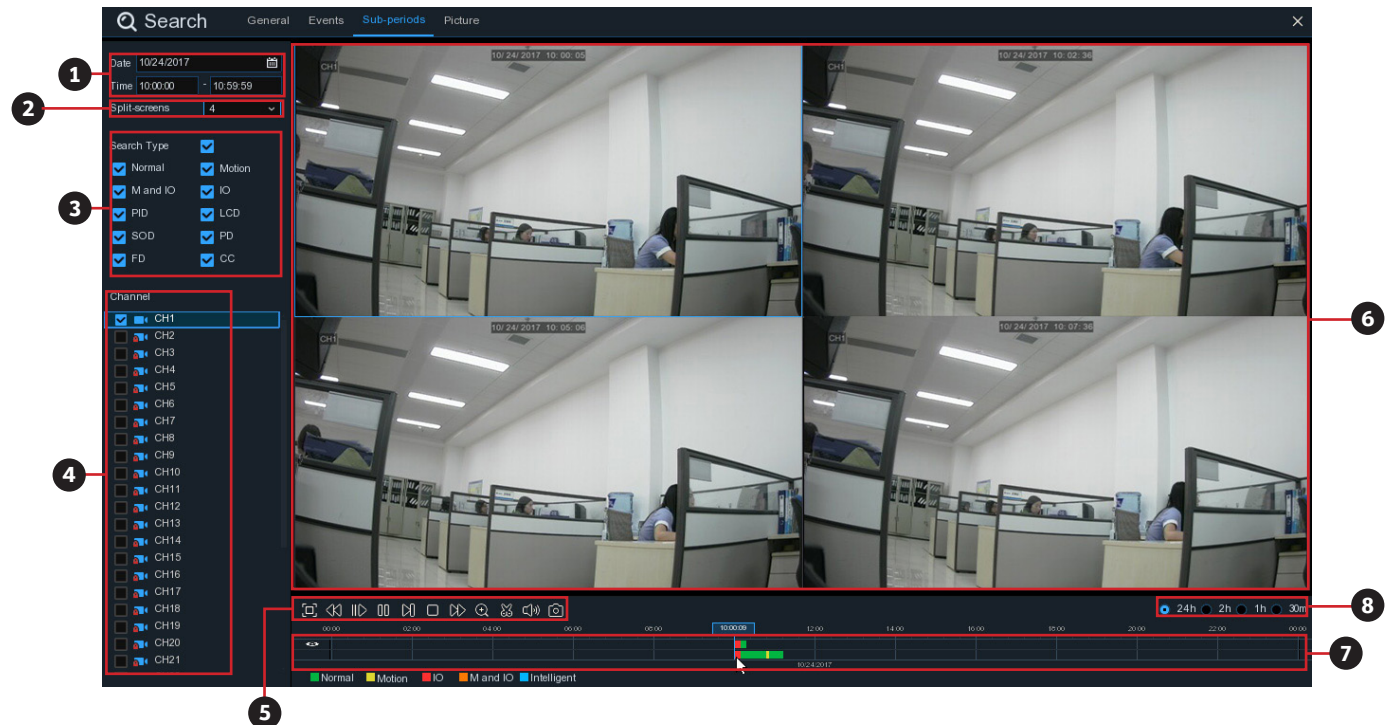
6.1.2.1 Event Playback Control

The screenshot displays the Event Playback Control interface. On the left, there is a list of events with columns for Channel, Type, and Start Time. Below this list, there are buttons for saving to USB and playing the video. The main area shows a video playback window with a timestamp of 10/23/2017 18:17:09. At the bottom, there are playback controls including a timeline and timeframe options (24h, 2h, 1h, 30m).


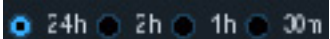
- Event List, you can select the events here.
- Click icon to save your selected event videos to USB flash drive. Click icon to play video.
- Control the playback with buttons on **Video Playback Controls**. You can click icon or click right button of your mouse to exit the playback and return to event search window.
- The event you are playing now will be displayed on the timeline.
- Use the timeframe options 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.

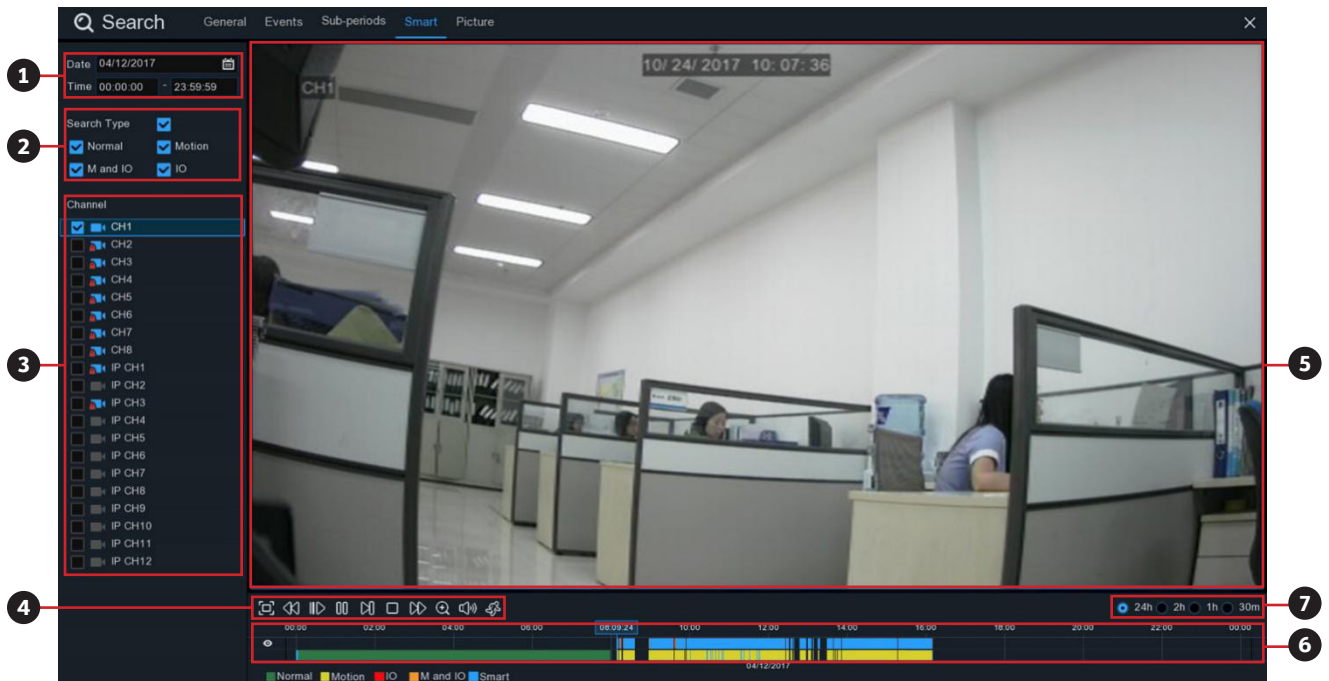


To search & play video in sub-periods:


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 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 color bar on the top of the timeline indicates the time span of the video split-screen you have clicked. The color 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.

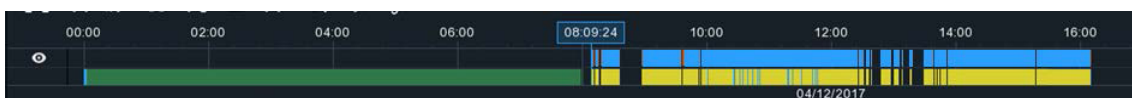
6.1.4 Smart Search & Playback

Smart mode allows you to easily search & play the motion events in one or more specific areas of the channel.



To search, play & back up pictures:

1. Choose the date & time you want to search.
2. Check the recording types you want to search, or check **Search Type** to choose all.
3. Choose the channel you want to search, the motion recording in the selected channel will be searched automatically. Please note that this function only supports search & play one channel at a time.
4. Click the play button  on the to start playing. Control the playback with buttons on **Video Playback Controls**.
5. Videos are being played in the screen.
6. The colour bar on the top of the timeline indicates the time span of the motion recordings you have searched. The colour bar on the bottom of the timeline indicates the complete time span for the recordings you have specified.

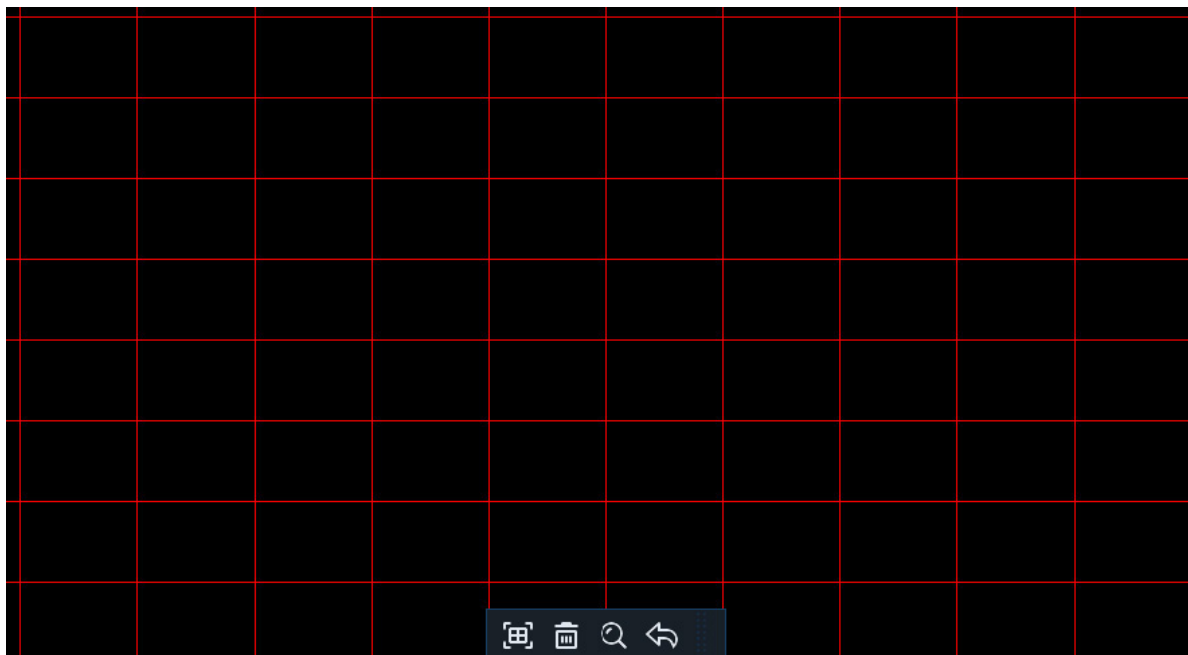


7. Use the timeframe options  to view a smaller or larger time period.

6.1.4.1 Smart Search Area

The smart search function searches the motion recordings in the whole area of the channel by default. You can specify one or more particular areas to narrow your search.

Click this icon on Video Playback Controls, the camera will be shown in full screen and the Smart controls bar will be visible.



You can click and hold the edge of the controls bar to reposition it.

Smart Controls Bar



Click this to define a full screen detection area



Click this to delete all areas created.



Click this to search and play video based on the areas defined.



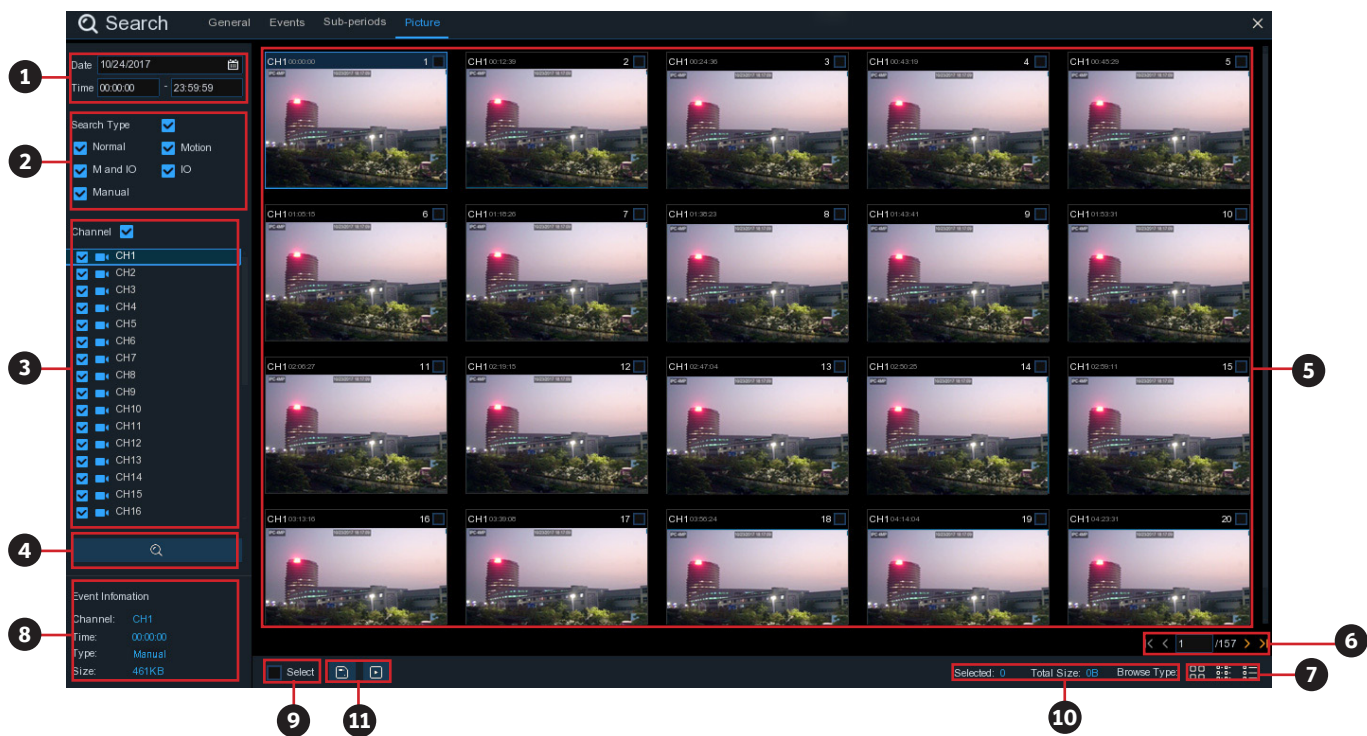
Click this to return to the playback interface.

To define one or more specific areas, please do the following:

1. Click and drag to select the area that you want to define. Multiple areas can be defined. You can also use the same action to remove sections of the defined area or to delete it entirely. When finished, click the search button to play video based on the areas defined.
2. You'll be returned back to the playback interface. Segments matching your search criteria will be shown on the timeline in blue colour.

6.1.5 Picture Preview Control

This function can be used to search, play and copy snapshots to an external USB flash drive or HDD.



To search, play & back up for events:

1. Choose the date & 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
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 by clicking below the icons which are shown at the bottom right corner of the screen:

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

List view. The events will be displayed in list.

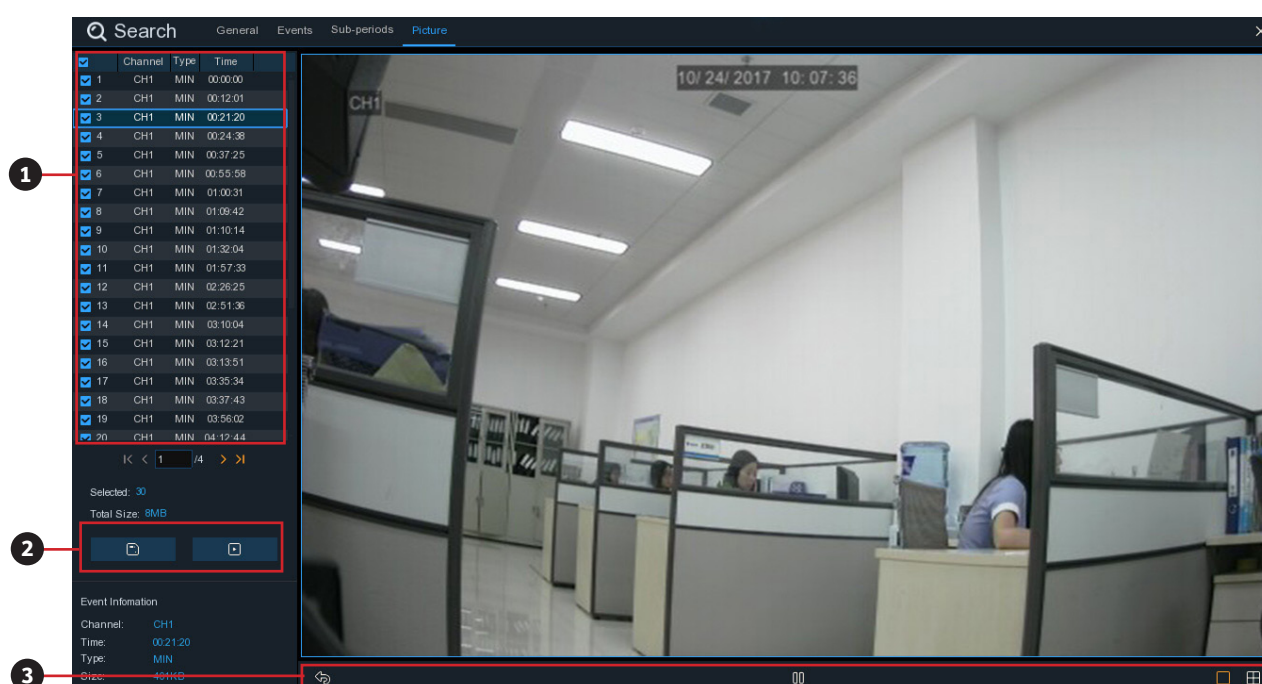
| | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 1 CH1 00:00:00 | 2 CH1 00:00:45 | 3 CH1 00:18:30 | 4 CH1 00:44:03 | 5 CH1 01:10:48 | 6 CH1 01:19:22 | 7 CH1 01:35:37 |
| 9 CH1 02:01:12 | 10 CH1 02:25:38 | 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 08:50:34 | 34 CH1 09:07:05 | 35 CH1 09:25:12 | 36 CH1 09:44:07 | 37 CH1 09:46:08 | 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 14:18:12 |
| 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"/> 2 | CH1 | MIN | 10/24/2017 | 00:12:01 | 201KB | |
| <input type="checkbox"/> 3 | CH1 | MIN | 10/24/2017 | 00:21:20 | 401KB | |
| <input type="checkbox"/> 4 | CH1 | MIN | 10/24/2017 | 00:24:38 | 111KB | |
| <input type="checkbox"/> 5 | CH1 | MIN | 10/24/2017 | 00:37:25 | 167KB | |
| <input type="checkbox"/> 6 | CH1 | MIN | 10/24/2017 | 00:55:58 | 210KB | |

8. When you click the left button of your mouse on one of the pictures, the 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 to **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 icon 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, 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 DVR at any time via a PC. Before you access the Web Client, you need to ensure that the internet settings of the DVR 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:

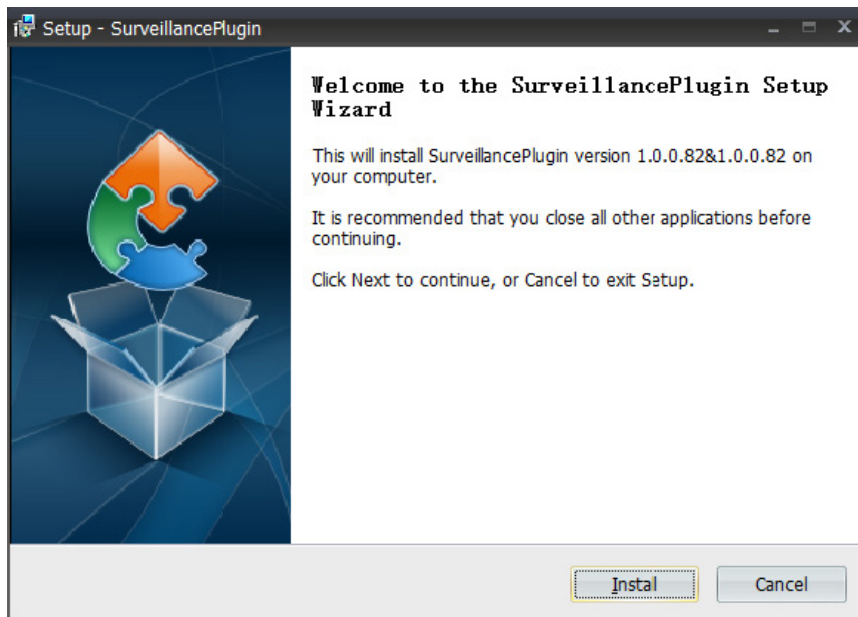
For IE/Chrome/Firefox:

1. Launch the explorer on your PC and enter the DVR IP address or DDNS domain name (HostName) you have set on DVR 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!!!

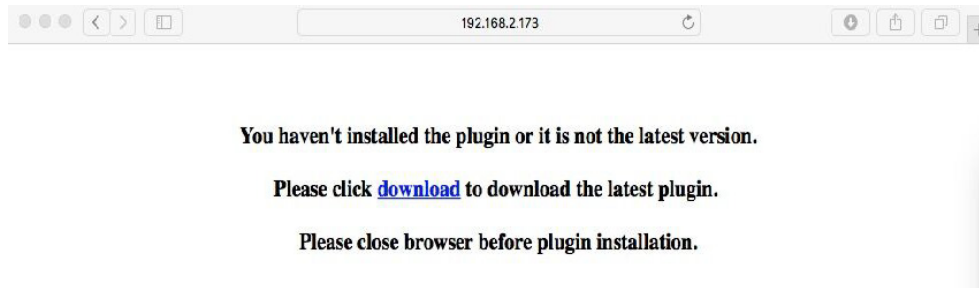


3) After installing the plug-in, close & launch your browser again and repeat step 1 to open the login page. Input your user name and password to login the web client.

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:

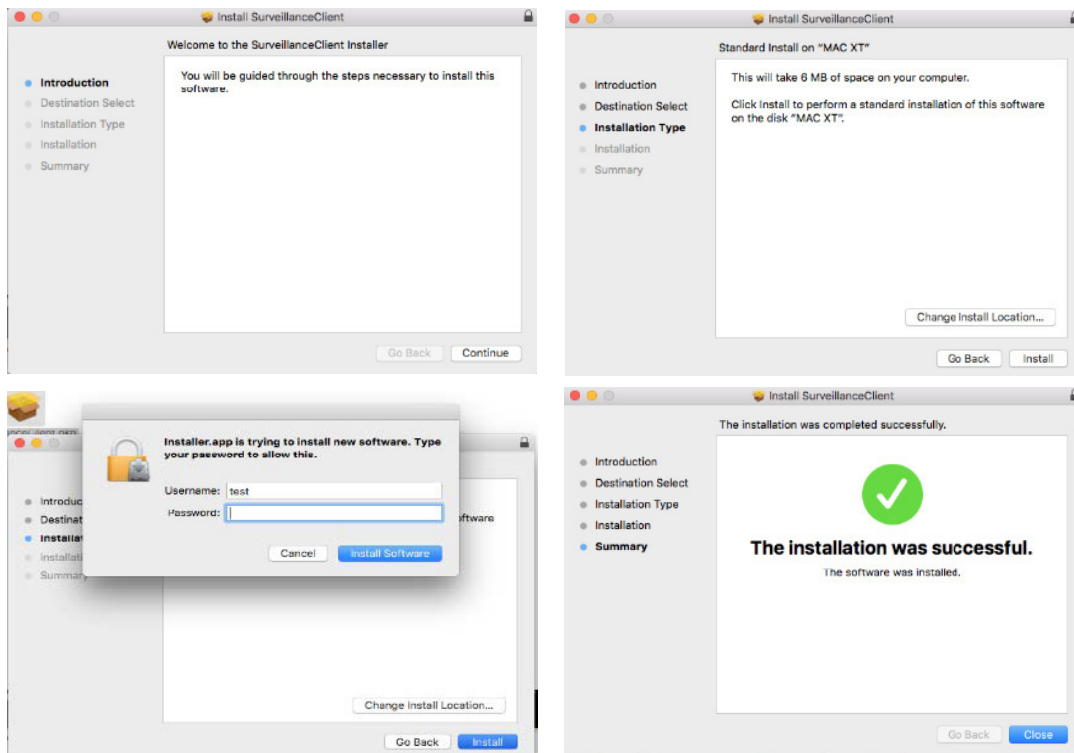
- 1) Launch Safari in your Mac, and enter the DVR IP address or DDNS domain name (Host Name) you have set on the DVR in the URL box.



- 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.

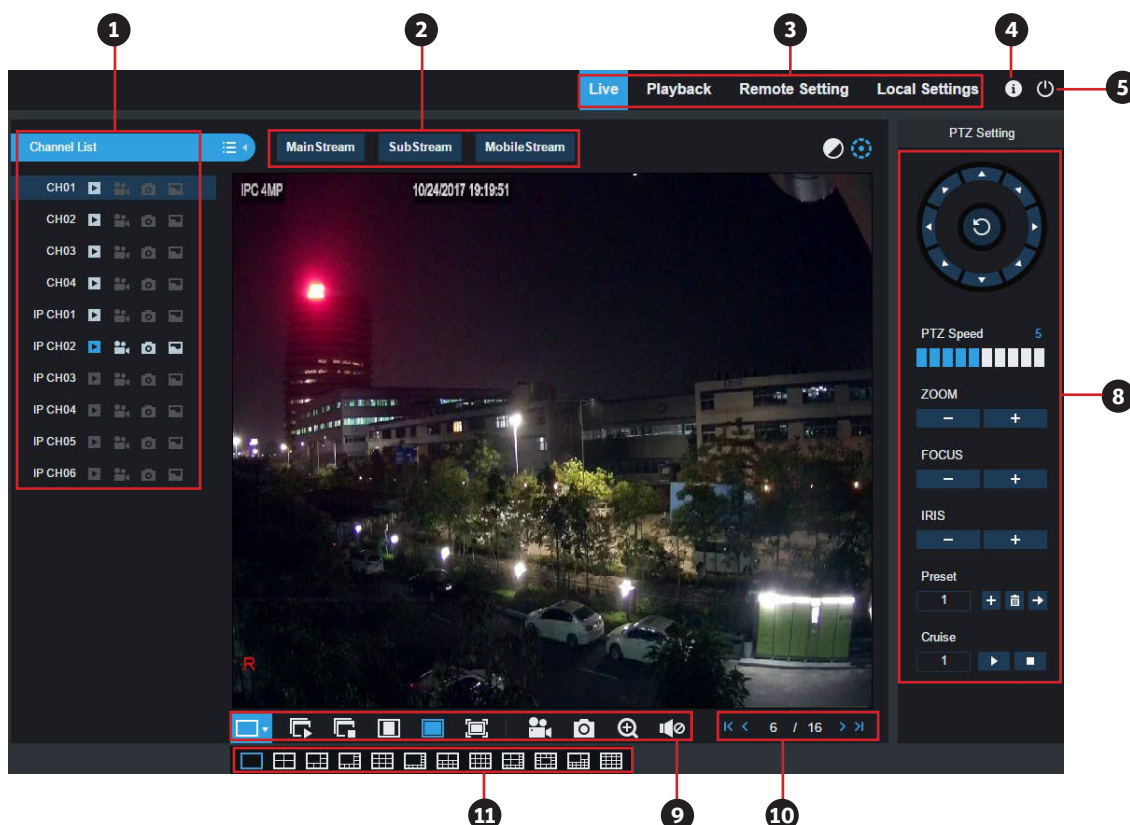
7.3 Web Client Manager

The web client allows you to fully control the DVR 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 DVR's HDD.

Remote Setting: Access functions of the DVR 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.

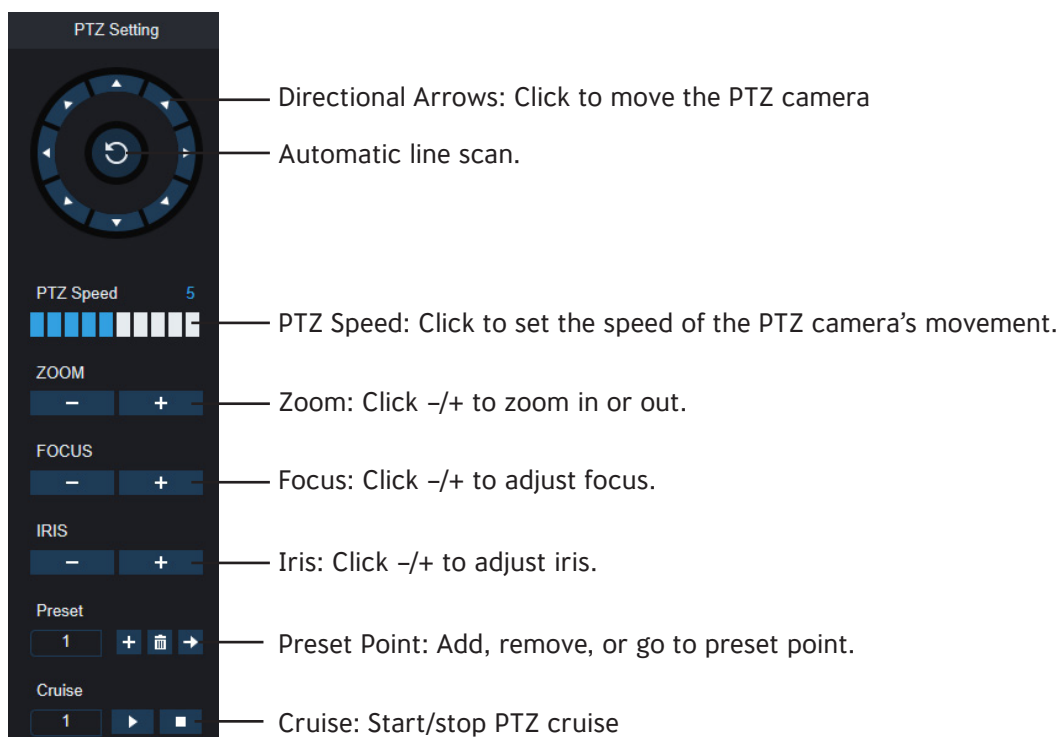
5 - Exit.

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:



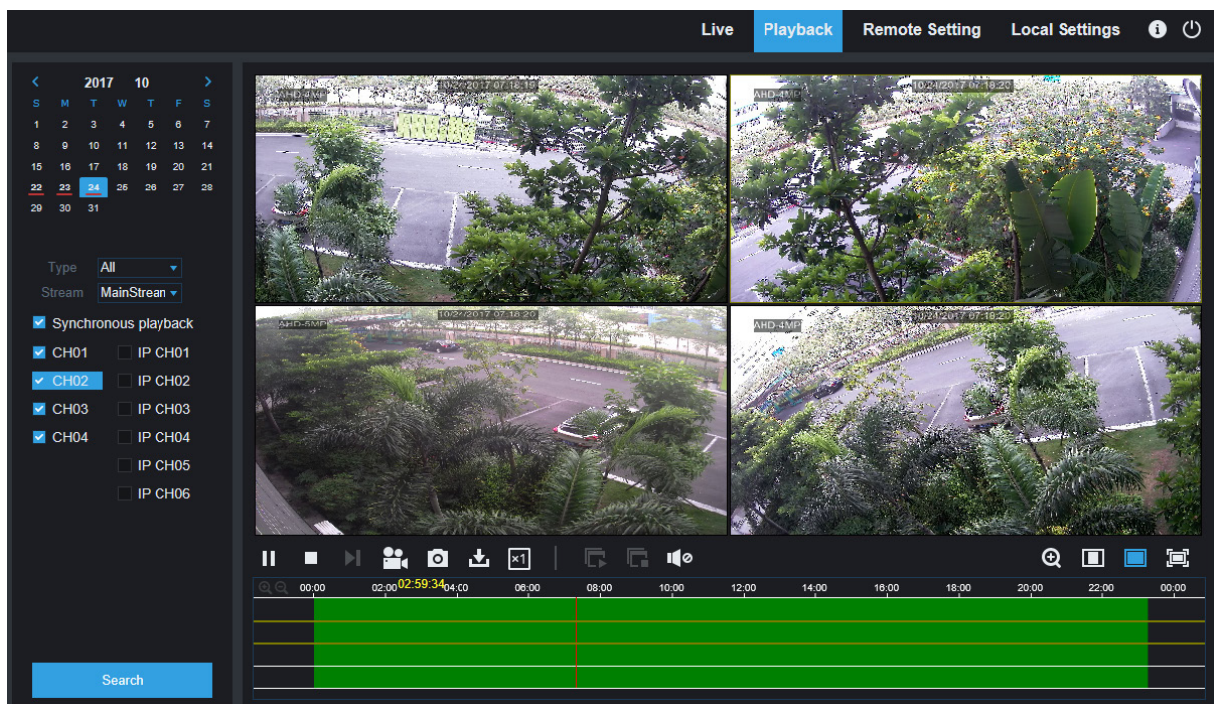
- Open the images in Live window.
- Close all the Live channels
- Original Proportions: Shows live video with the original proportions
- Stretch: Stretch live video to fit the full area for each channel on screen.
- To enlarge the web client to full screen.
- Manual Recording: Click to start manually 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

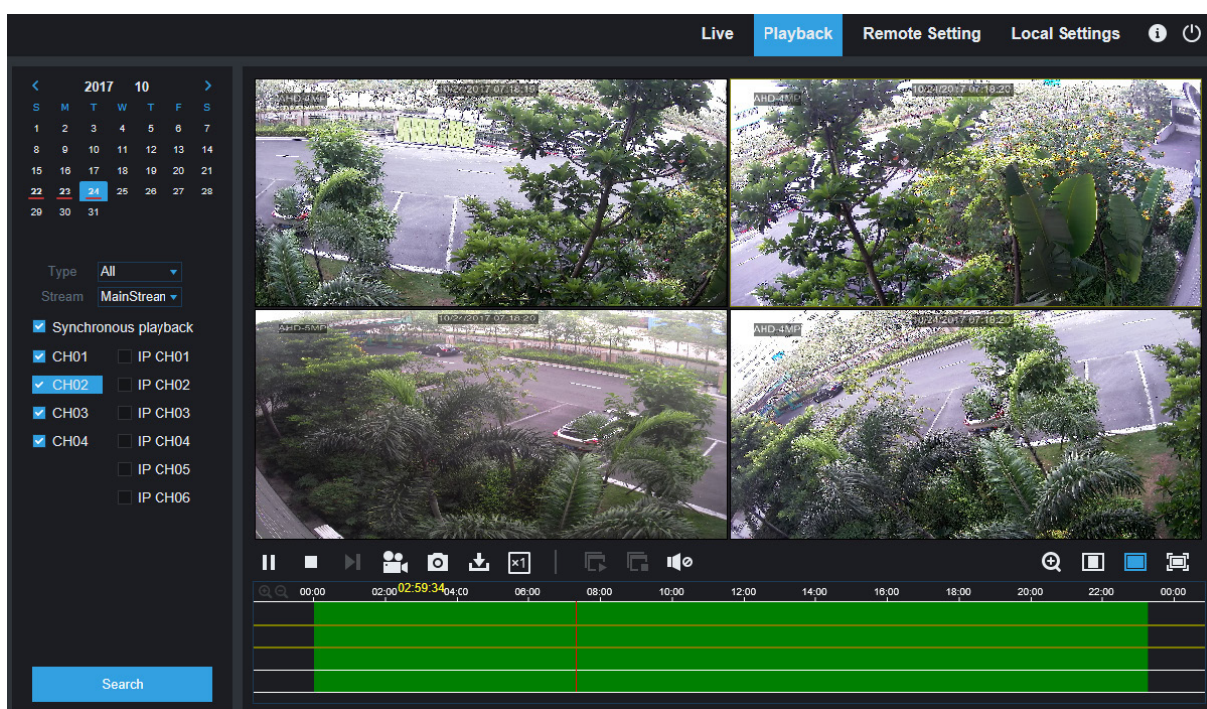
You can search & play recording videos stored in the HDD inside the DVR, and download the videos to your computer.



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 DVR 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

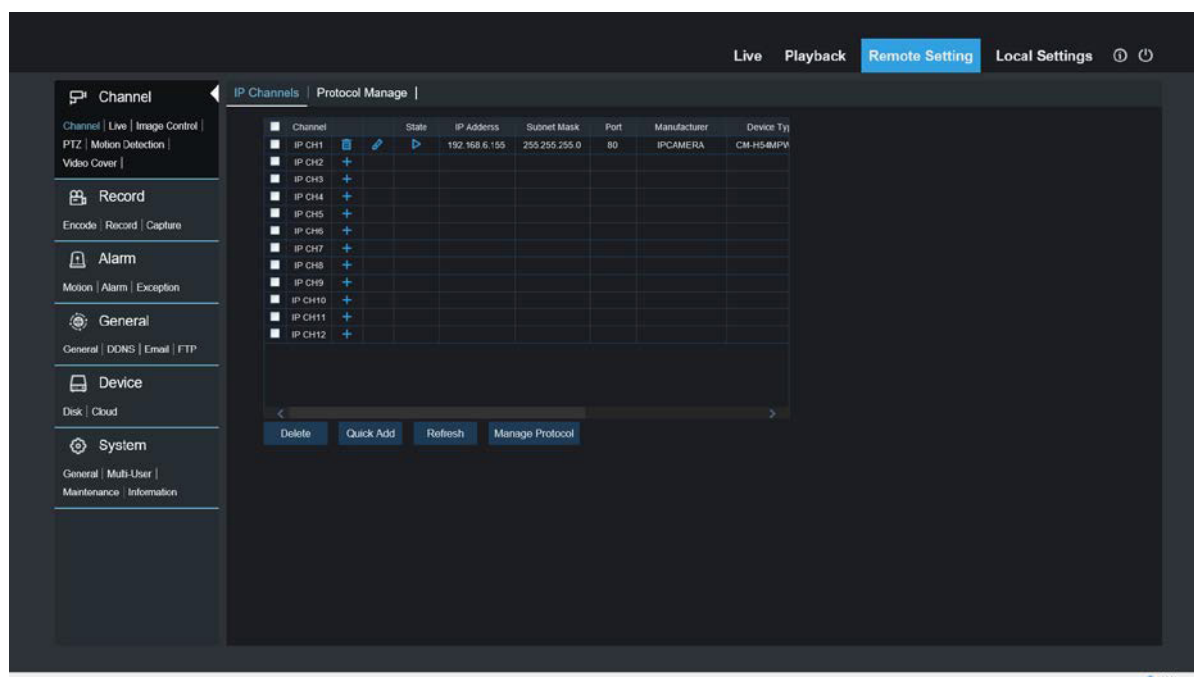
Stop Download

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.**

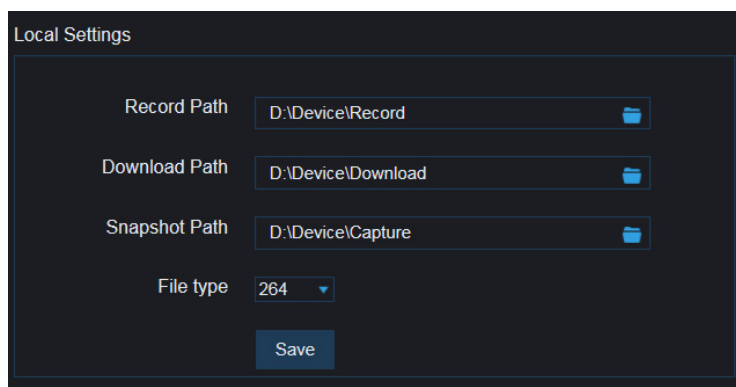
7.3.3 Remote Setting


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

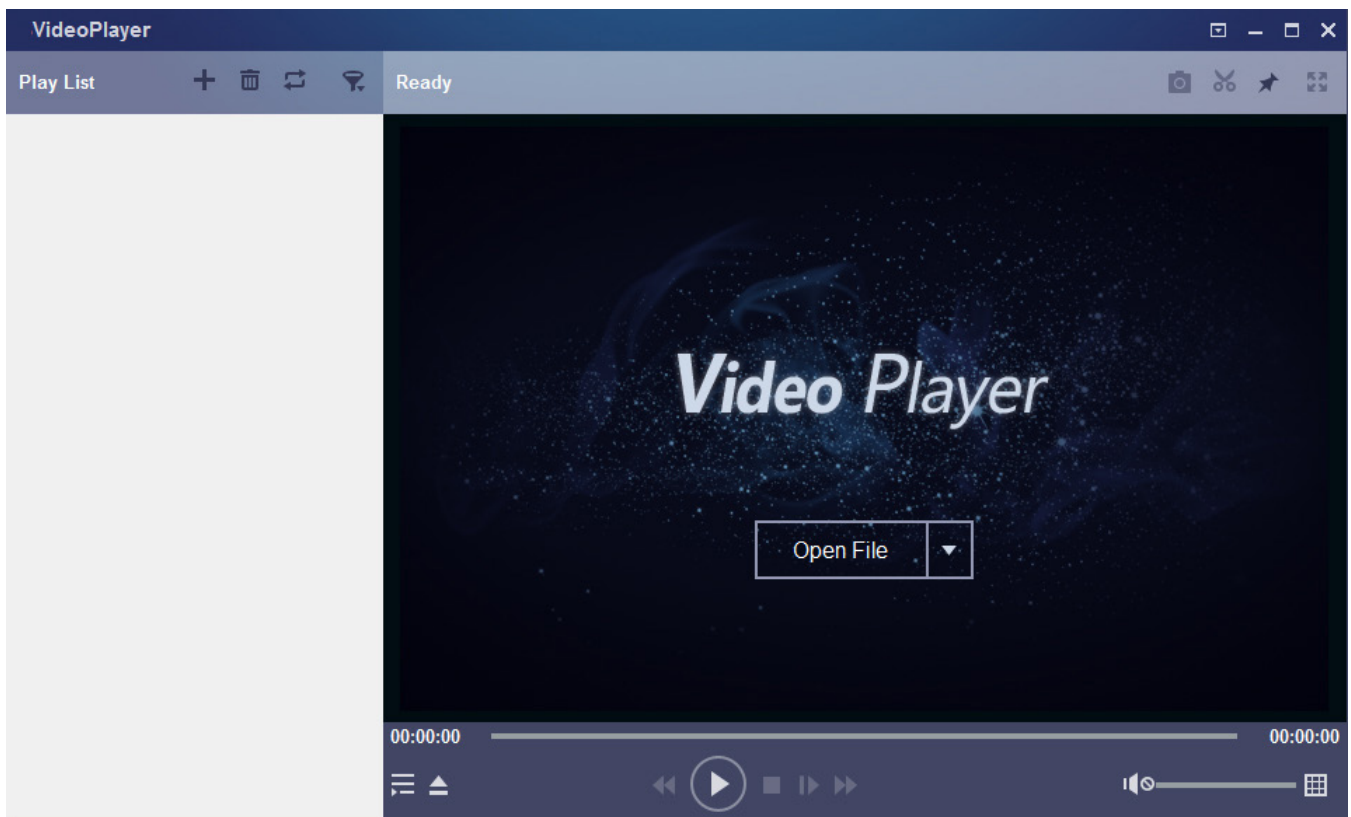
For Mac users, please download and install the app “VideoPlayer_x.x.xx_xxxx_xx_x.dmg”, for example: VideoPlayer_1.0.15_2017_01_6.dmg.


For PC users, please download and install the software “VideoPlayer_x.x.xx_xxxx_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  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

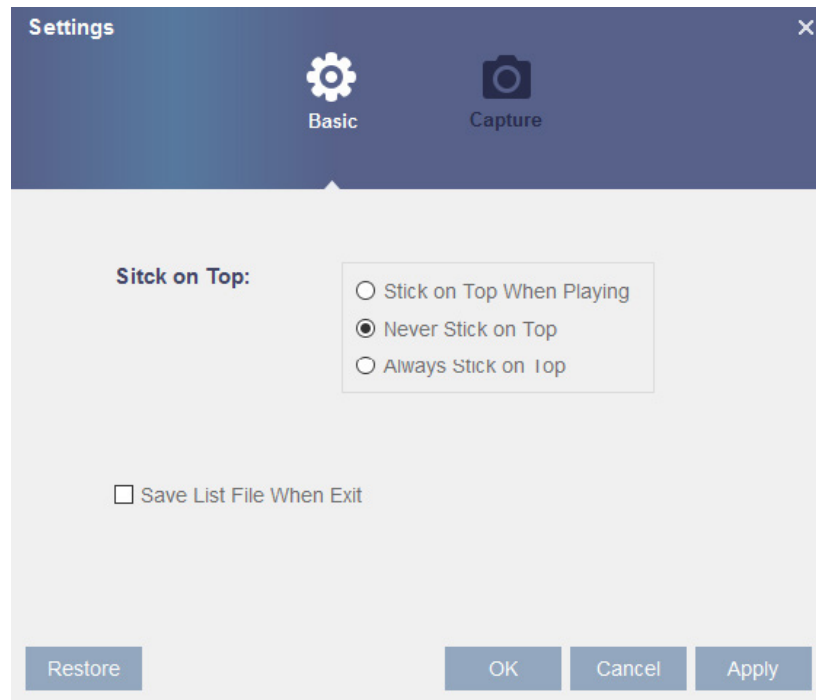
4. Volume control

-  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.

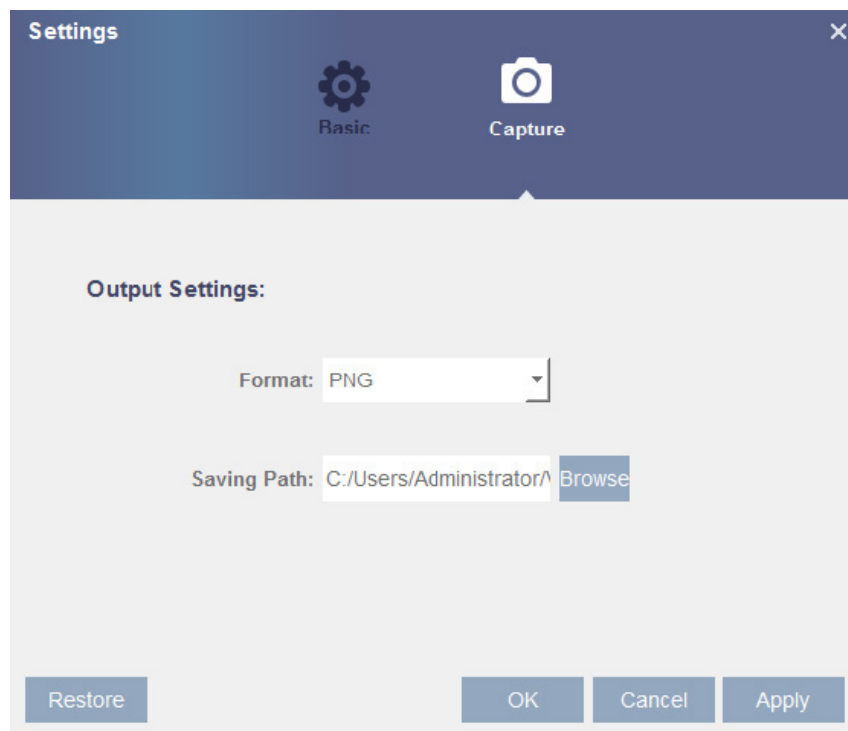
5. Take snapshot

-  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. **F 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

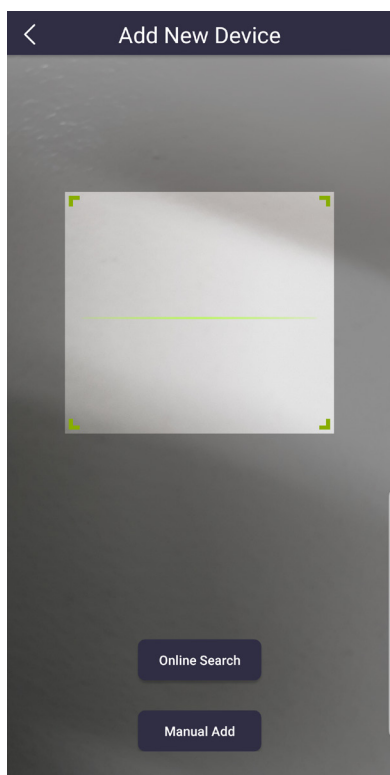
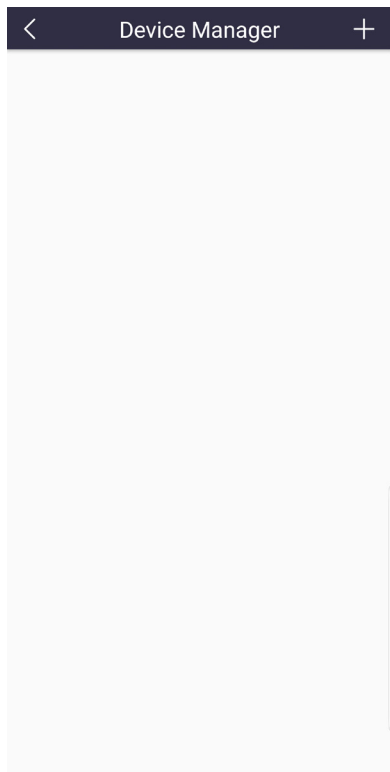


Capture Settings: Set the format and the path to save snapshots.

Chapter 9 Remote Access via Mobile Devices

The DVR supports 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 DVR or the QR code displayed during the setup wizard.

Edit Information

IP Address/ID
RSV1812022884934

Media Port
9000

User Name
admin

Password

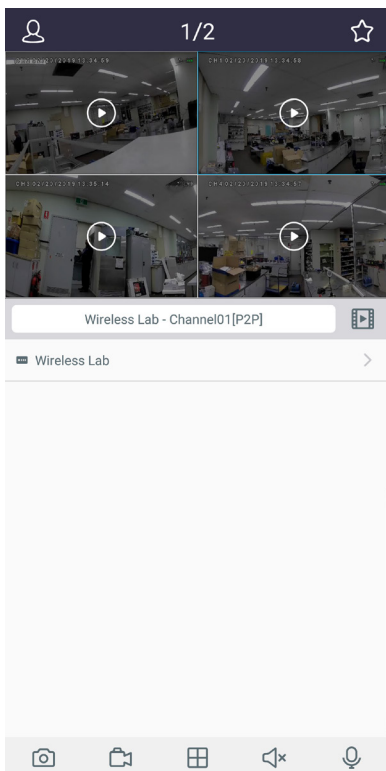
Save

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

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

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

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 you mobile device










Turn ON/OFF audio

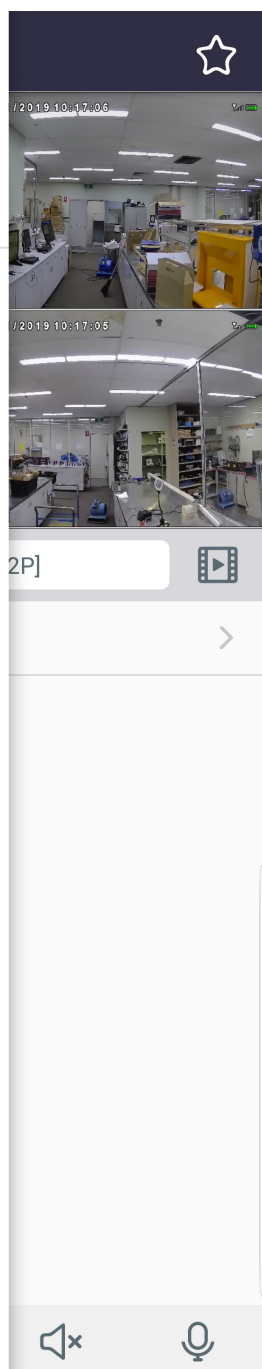


Dual-way speaker (Not supported by this DVR)

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 forget 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 DVR and camera together. Power supply for both devices is OK. What is wrong?

A: Check network cable at DVR 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 DVR. Where can I download the Video Player?

A: Visit www.concord.support and search for the model number of your DVR. 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 DVR. Can it work?

A: All HDDs supported by the system can be used. But remember, once DVR 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 DVR?

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 DVR, 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 DVR away from heat sources or dusty places.

3. Please ensure you switch off the DVR 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 DVR



4 × Ultra PIR Bullet Cameras
with 18m Cables



1 × USB Mouse



1 x Power Cable, Adaptor,
and Splitter



1 x HDMI Cable



1 x Network Cable

For Concord AV Solutions visit:

www.concord.support