USER MANUAL

Wireless Network Video Recorder

Wireless NVR

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Chapter 1 Safety Instruction

Please carefully read the following safety instructions to avoid personal injury and prevent the equipment and other connected devices from being damaged.

1. Power sources (note: please use the power supply attached or specified by the manufacturer)

Never operate the equipment using unspecified power supply.

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

Never push objects of any kind through openings of the NVR to avoid electric shock, injury or other accidents.

3. Do not put the equipment in a dusty environment.

4. Do not place the equipment near water, rain or in a humid environment.

Do not place the equipment in a humid environment like a basement. If the equipment is accidentally in contact with water, please unplug the power cable and immediately contact your local dealer.

5. Keep the surface of the equipment clean and dry.

Use soft damp cloth to clean the outer case of the NVR (do not use liquid aerosol cleaners)

6. Do not operate if any problems are found.

If there are any strange smells or sounds from the NVR, unplug the power cable and contact the authorized dealer.

7. Do not try to remove the outer cover of the NVR.

Warning: Do not remove the outer case of the NVR to avoid electric shock.

8. Handle with care.

Avoid dropping the NVR. If the NVR does not work normally because of hitting a hard surface or hard object, please contact the authorized dealer for repair or replacement.

9. Use standard lithium battery (Note: Use the batteries attached or specified by the manufacturer)

After removing the power supply, if the system clock does not continue to work, please replace the standard 3V lithium battery on the main board.

Warning: Turn off the NVR before replacing the batteries to prevent serious electric shock and serious injury. Please properly dispose of the used batteries.

10. Provide the NVR with adequate ventilation

The NVR system includes installed HDD, which produces large amounts of heat during operation. To prevent over-heating of the system, do not block the ventilation openings (on the top, bottom, both sides and the reverse side) they are necessary for cooling the system during operation. Install or put the equipment in the place with good ventilation.

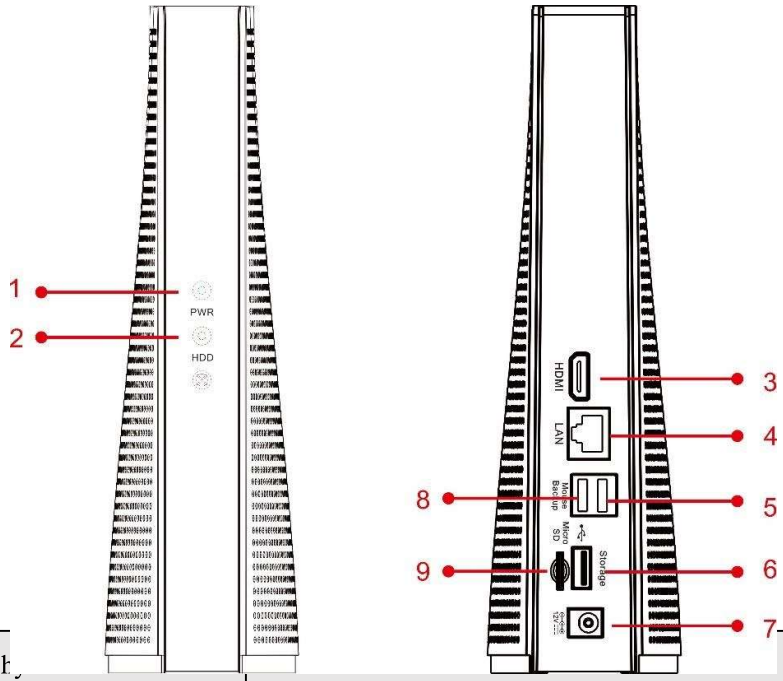
11. The attached power adapter can only be used for 1 NVR.

Or system may reboot repeatedly due to insufficient power.

12. Do not place the equipment near water, or areas that water may drip or splash on the equipment. Do not place objects containing water, such as flower vase, on the equipment.

Chapter 2 Product Overview

1.1 Rear Panel



NO	Ph	
1	PWR	Power status light
2	HDD	HDD status light
3	HDMI	Connect HDMI cable to PC, monitor or TV
4	LAN	LAN network port
5	mouse	Connect USB mouse
6	Storage	Connect USB flash drive
7	Power port	Connect power supply
8	Backup	Connect USB flash drive
9	Micro SD	Insert Micro SD card

1.2 Remote Controller (For Reference Only)

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No.	Icon	Description
1	1-8	Numeric keys Press to display channel 1~8
2	9、0	Numeric keys
3	ALL	Press to display all channels Multiple display mode
4	Menu	Press to enter or exit the Main Menu
5	Mute	Mute On/off (this function is not supported)
6	Submenu	Go to sub-menu
7	▲	Up arrow key; Volume increase
8	SEL	Press to enter the selected menu item and edit the setting
9	◀ ▶	Left/Right key; Decrease/increase parameter value of control bar.
10	▼	Down arrow key; Volume decrease
11	◀◀	Press to rewind during video playback
12	▶▶	Press to fast forward during video playback
13	▶	Press to play recorded video or enter the recording search menu
14	●	Press to start manual recording
15	■	Press to stop manual recording or stop the video playback
16	❚❚	Press to pause the video playback or enter frame-playback mode

Table 2-1

Chapter 3 NVR Common Operations

3.1 Using the Supplied Mouse

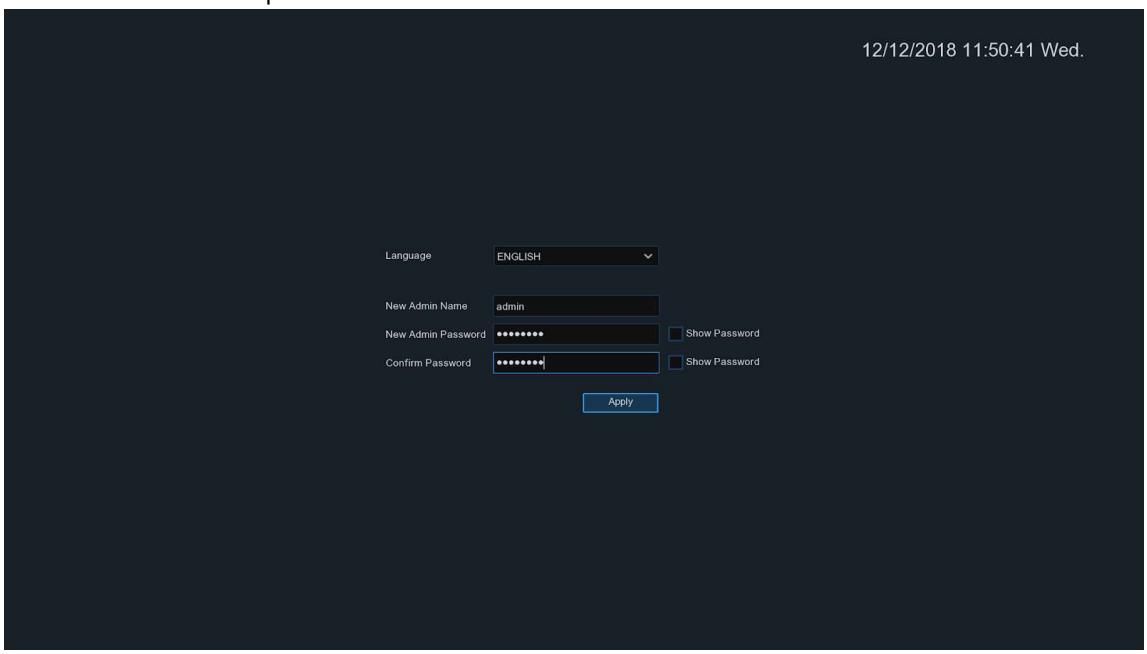
Left Button of Mouse	Right Button of Mouse
Click once to choose an item in the menu and confirm your selection.	Click once to open the pop-up menu on the Live Viewing screen and to exit from the menus.
Click once on a channel on Live Viewing screen to open Camera Quick Tool-bar	
Double-click on the channel to exit from the menu. **Double-click** on a camera frame on Live Viewing screen to view the channel in full screen mode. Double-click again to exit the full screen mode.	
Click and hold to drag an area in motion settings or adjust the values of sliders and scales while in settings menus.	

3.2 Using the Virtual Keyboard

You will see the virtual keyboard automatically on the screen when you need to enter data.

3.3 Password

The first time you run the NVR, you will immediately be required to set your own password in order to protect your privacy. Please be sure to write down the user name and password and save them in a secure place.



Language: Choose an OSD language.
New Admin name: To set your own user name.
New Admin Password: To set your own password. The password must be a combination of 8 characters. Letters and numbers.
Confirm Password: Enter your own password again.
Click **Apply** to confirm your settings and goes to the login interface. Draw an unlock pattern or Enter your user name & password to **Login** the NVR system.

NOTE: If you forget your password, you will be unable to login the system, please contact your reseller to reset the password.

Chapter 4 NVR Starting up

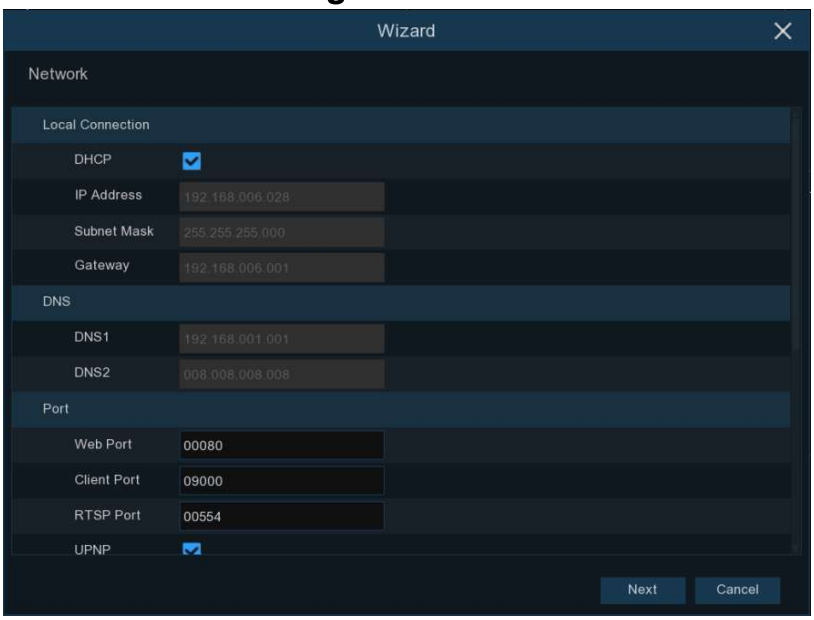
4.1 Start-up Wizard

Start-up Wizard will help to configure the system and get the NVR working quickly.

4.1.1 Start Wizard

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

4.1.2 Network Configuration



In order to view the system remotely, such as from a mobile app or from your computer, it must be connected to a network. Use an Ethernet cable to connect the NVR to your router.
When you are in the Start-Up Wizard click the box to enable DHCP, this will allow the router to automatically configure the network parameters for the NVR.

If you chose to manually set up the network parameters:
IP Address: The IP address identifies the NVR on 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 the range of IP addresses that can be used on a network. If an IP address is like the street you live on, then subnet mask is like your neighbourhood. The subnet address also consists of four groups of numbers, separated by periods. For example, “255.255.000.000”.
Gateway: This address allows the NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, “192.168.001.001”.
DNS1/DNS2: DNS1 is the primary DNS server and DNS2 is a backup DNS server. Usually as long as there is an IP address in DNS1, DNS2 does not require an IP address.

Port

Web Port: This is the port that you will use to log in remotely to the NVR (e.g. using the Web Client or Internet Explorer). If the default port 80 is already being used by another device or application, you will need to change the Web Port to another number in the NVR settings.
Client Port: This is the port that the NVR will use to connect with the mobile application. If the default port 9000 is already being used by another device or application, you will need to change the Client Port to another number in the NVR settings.
RTSP Port: This is the port that the NVR will use to transmit real-time streaming to other applications (e.g. using a streaming Media player.).
UPNP: To view the NVR using the WebClient software, enable the UPnP option. If your router supports UPnP, you do not need to manually configure port forwarding in your router. If your router does not support UPnP, you will need to manually set up port forwarding in your router to view the NVR using the WebClient.

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

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

Time: Click to set the system time.

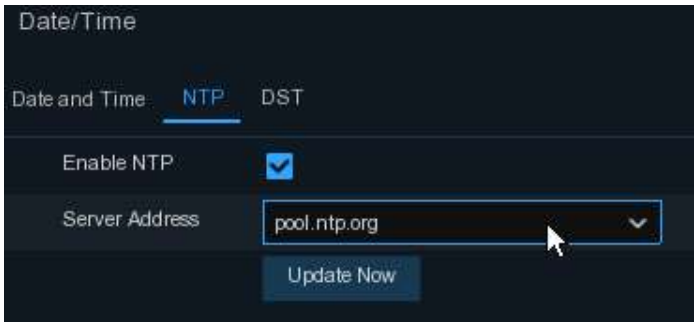
Date Format: Choose from the drop down menu to set preferred date format.

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

Time Zone: Set the correct time zone.

NTP

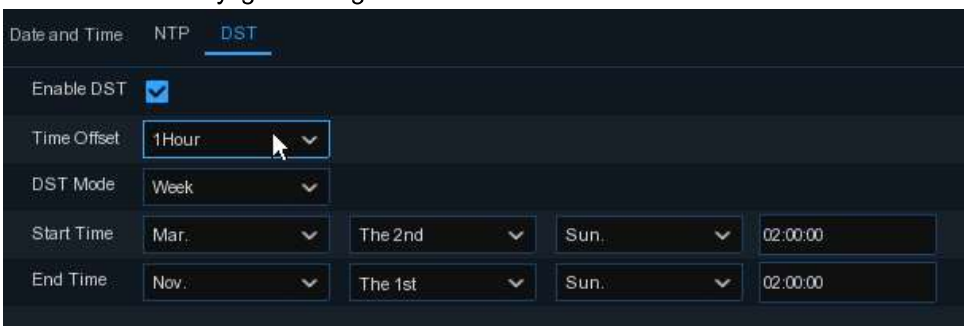
NTP stands for Network Time Protocol. This feature allows you to synchronize the date and time automatically on the NVR over the Internet. For NTP to function the NVR needs to be connected to the Internet.



Check the "**NTP**" box, and select one of the NTP servers.

DST

DST stands for Daylight Savings Time.



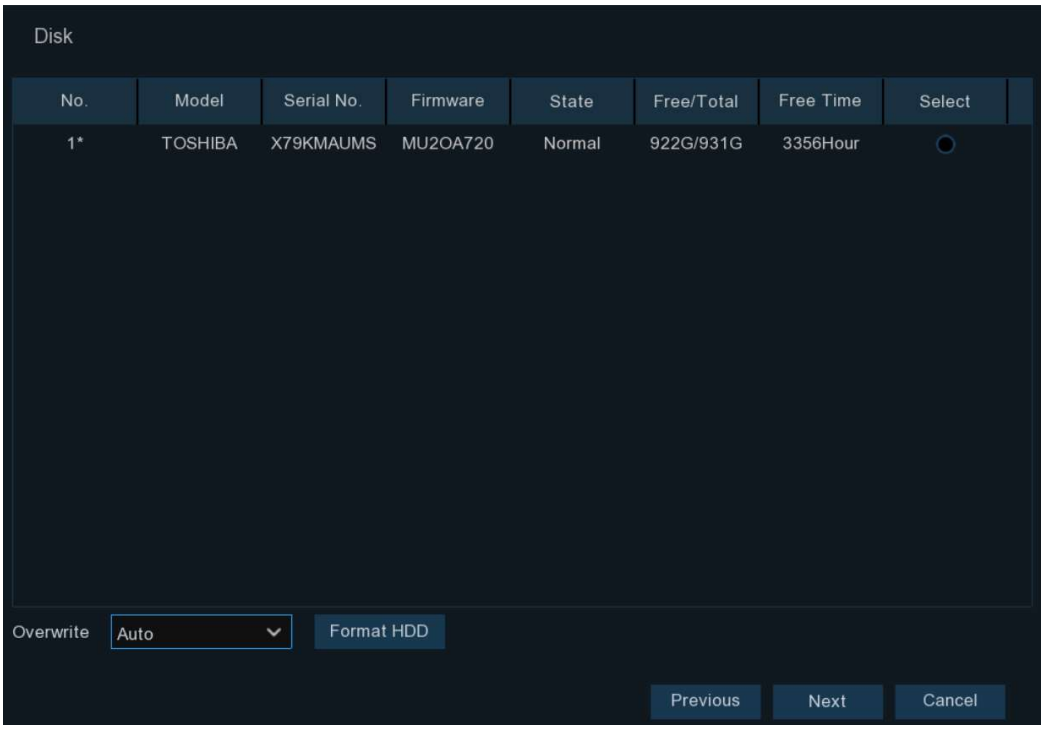
DST: Enable if Daylight Savings Time (DST) is observed in your region.

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

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

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

4.1.4 Disk

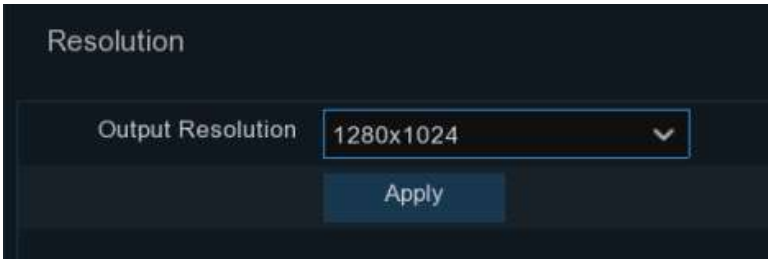


When the HDD is installed in the NVR for the first time, it must be formatted. Select the HDD and then click **Format HDD** to format the HDD.

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 disable the overwrite option, once the hard drive is full, the NVR will stop recording. To restore the NVR recording function you will have to reformat the HDD or re-enable the overwrite function.

4.1.5 Resolution

The NVR is capable of adjusting the output resolution automatically to match the best resolution of your monitor (the monitor must also support this function) when the system is starting up. Or you can choose an output resolution that is compatible with your monitor.

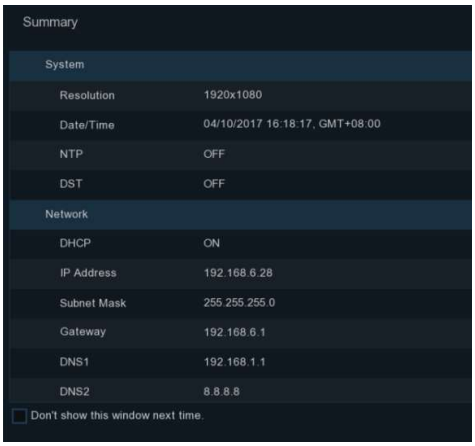


4.1.6 Mobile Access

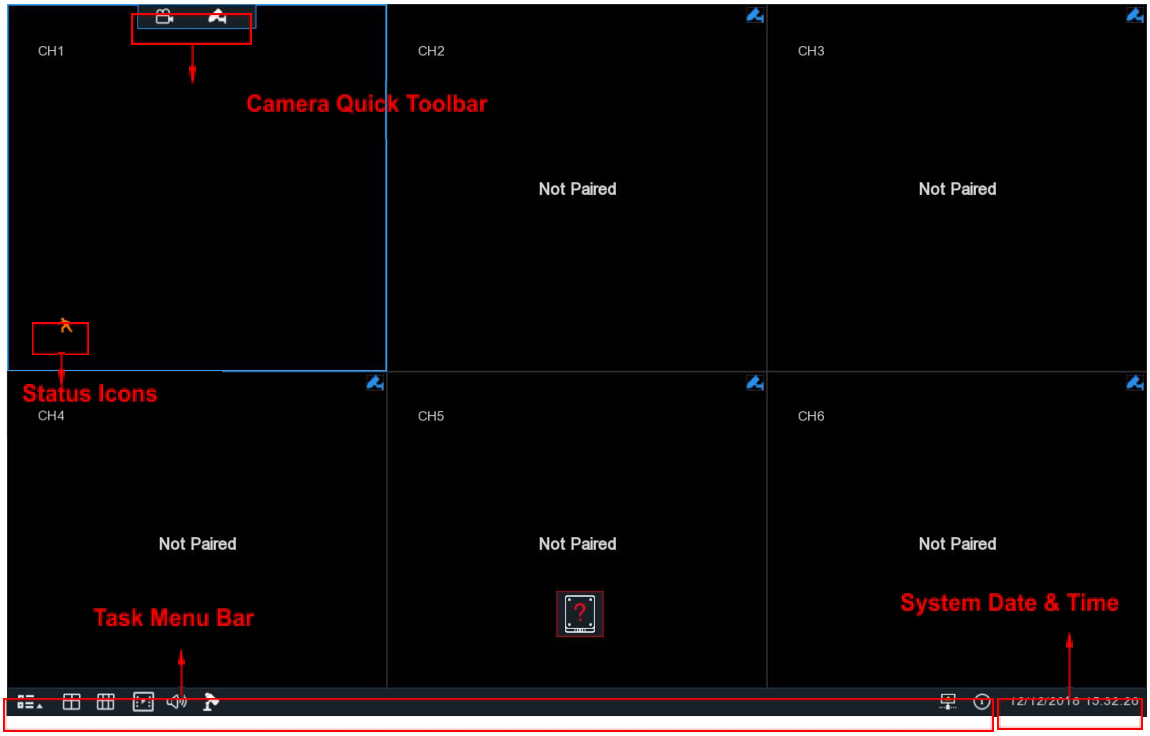
Your NVR comes with a P2P ID, you can scan the QR code while in the mobile app to view the NVR remotely.

4.1.7 Summary

The system summary information you set up in the Start Wizard.
Click the “**Don't show this window next time**" box, if you don’t want the Start Wizard to display when system reboots next time.
Click **Finish** to save & exit.



4.2 Live Viewing Screen



Status Icons

This indicates that the NVR is currently recording, if you installed a hard drive in the NVR.

This indicates Normal Recording. If you do not see the icon the system is not recording.

This icon appears when the camera has detected motion.

This icon indicates that there is a HDD error.

This icon indicates the HDD is unformatted.

This icon indicates the HDD is full.

Hard disk not found.

4.2.1 Camera Quick Tool Bar

In live view, click the left button of your mouse on a connected camera to display the Camera Quick Tool bar.

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

Click to enter pairing.

Click to enter pairing.

4.2.2 Task Bar

Click to open the Start Menu.

Click to choose a different layout 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 the volume.

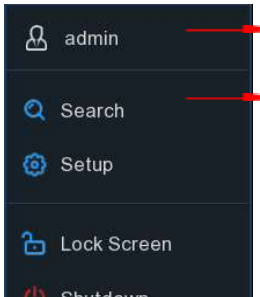
This icon will appear if the network is disconnected.

To start or stop Manual Record .

To view system information, and network state.

4.2.3 Start Menu

From the start menu you can: switch user, go to the search & playback functions, enter system set-up menu, lock & unlock the screen, shut down, reboot & log out of the system.



To switch user. To enable multi-user, please view HYPERLINK \l "_5.6.3_Multi-user" 5.6.3 Multi-user.

Search & Playback. View more in HYPERLINK \l "_Chapter_6_Search," Chapter 6 Search, Playback & Backup.

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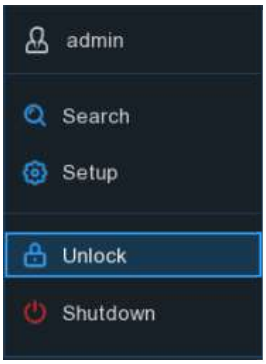
Main Menu/System Set-up. View more in HYPERLINK \l "_Chapter_5_DVR_1" Chapter 5 NVR. System Setup

Lock & unlock screen. View more in HYPERLINK \l "_4.2.3.1_Unlock_and" 4.2.3.1 Unlock and Lock Screen.

Shut-down, reboot & logout of the NVR. View more in HYPERLINK \l "_4.2.3.2_Shutdown" 4.2.3.2 Shutdown.

4.2.3.1 Unlock and Lock Screen

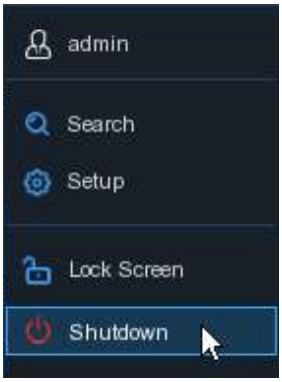


The screen will be locked to protect unauthorized OSD operation after 60 seconds of no activity within a menu or system interface.

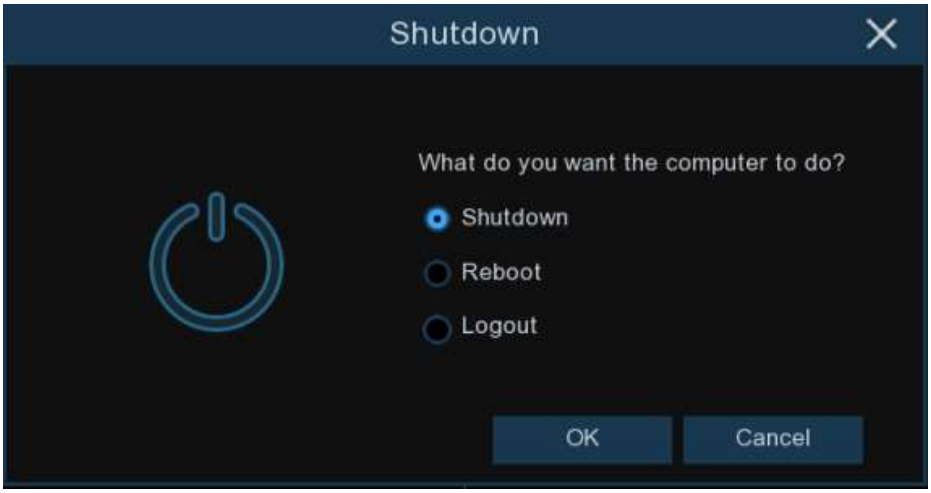
If necessary, you can also lock the screen operation manually. To do so, go to Star Menu, and then click the Lock Screen icon to lock the system immediately.

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

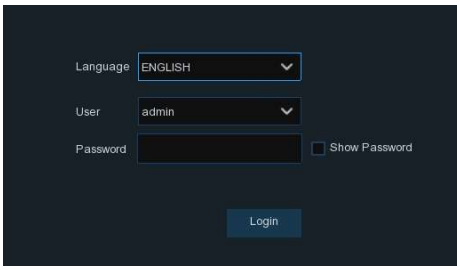
4.2.3.2 Shut-down



Click the **Shut-down** button from Star Menu. Click the option you wish to select. Click **OK.** The system will require you to input the Admin password to authenticate.

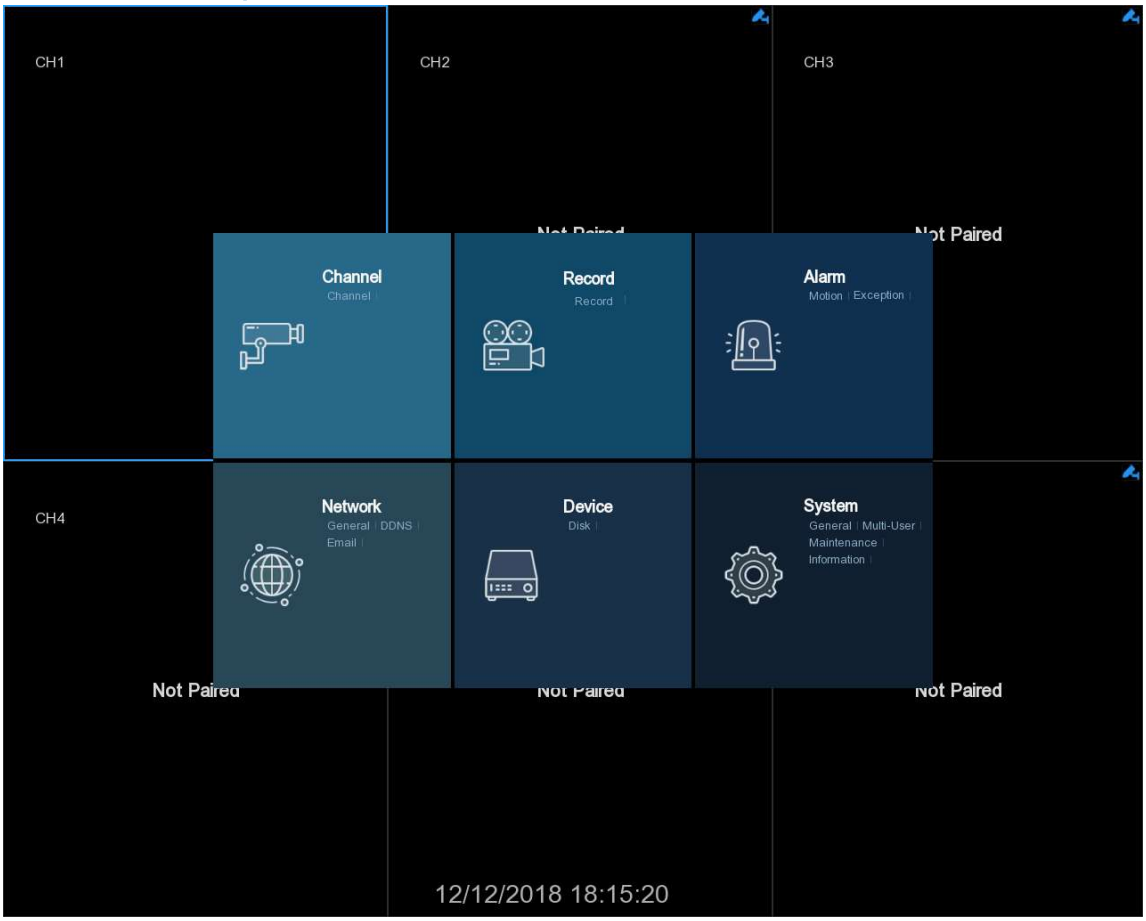


If you choose to **Logout** of the system, the live view screen will no longer be displayed. You will need to login to the system to view the cameras or interact with the system.



Chapter 5 NVR System Set-up

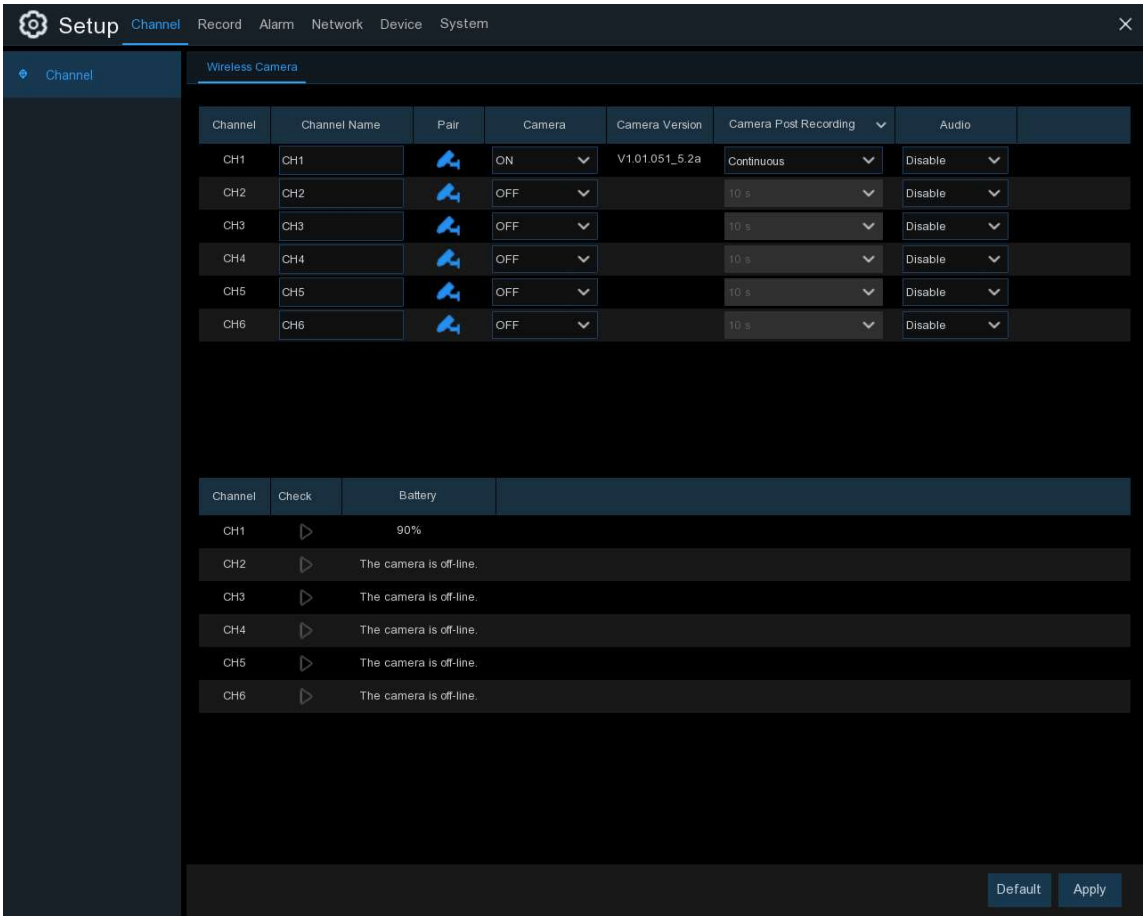
You are able to configure the NVR through the following settings: Channel, Record, Alarm, Network, Device & System from:
Start Menu → **Set-up**.



5.1 Channel

In this section, you are allowed to configure the camera live view display, manage cameras, motion set-up, Video Cover.

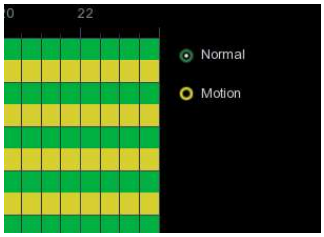
5.1.1 Channel



Channel: This is can not be changed.
Channel Name: You may edit the channel name.
Pair: Click the channel button to pair the camera with the NVR.
Camera : You may select ON or OFF to enable or disable a camera.
Camera version: Displays the camera firmware version .

Camera Post Recording:

1. If you have a HDD installed and the camera is connected to standard power (not battery power) you may select the Continuous option, or select 10s, 20s, 30s, the default is 10s. This is for Normal Recording and Motion Recording.



2. If you only install SD card, with no HDD installed, or if the camera is operating on battery power only, continuous recording will not be available. The recording type will be motion only recording. You must select 10s, 20s, or 30s when recording only motion events.
3.

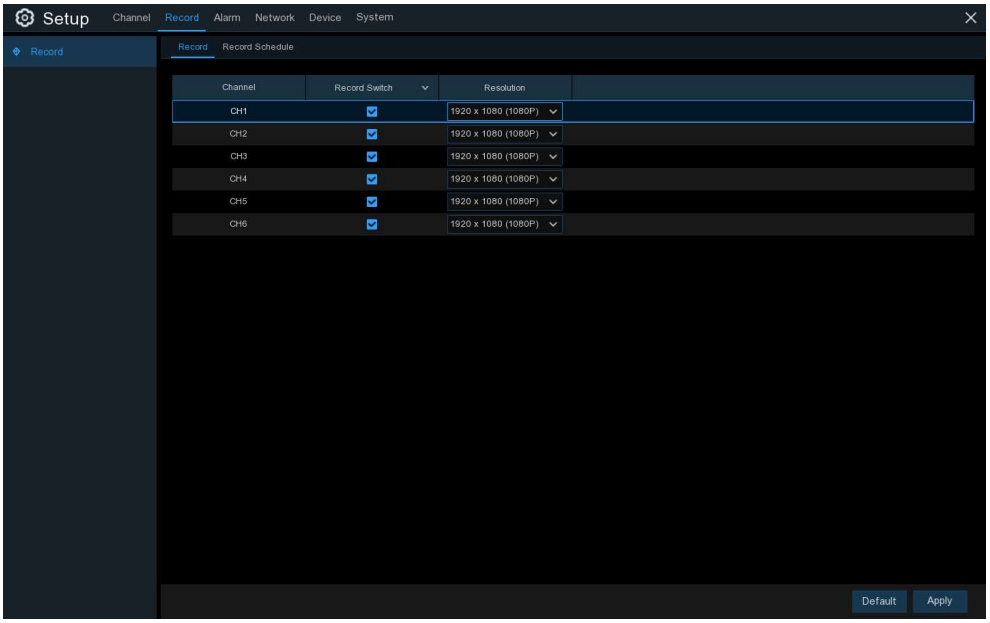
Audio: You may select Enable or Disable. The default setting is Disable.

Check: Click a channel display the cameras remaining battery power for example:

Battery: When the camera is online it will show the remaining battery power, such as 90%. If the camera is off line the battery power level will not be displayed.

5.2 Record

5.2.1 Configure Record Parameters



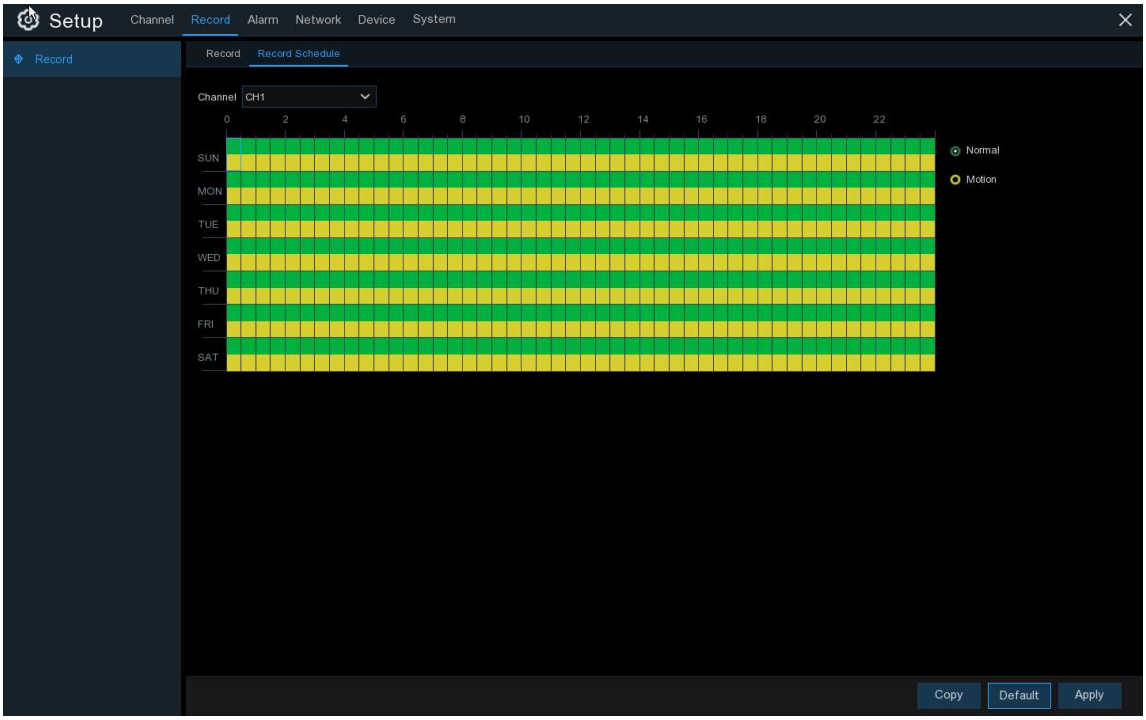
Channel: Display channel number.

Record Switch: Default is ON, or click to select OFF to disable recording.

Resolution: Default is 1920X1080(1080P), or click to select the resolution.

5.2.2 To configure Record Schedule

This menu allows you to specify when the NVR records video and define the recording type for each channel. The recording schedule lets you set up a schedule daily and hourly for both normal (continuous) recording and motion recording. To set the recording type, click to select Normal or Motion, then click and drag the cursor to the select the day/s - hour/s you wish to record. If you want both types of recording you will need to repeat this process for each recording type. The recording schedule is valid only for the channel number shown in the **Channel** field. If you want to use the same recording schedule for other channels, use the **Copy** function.



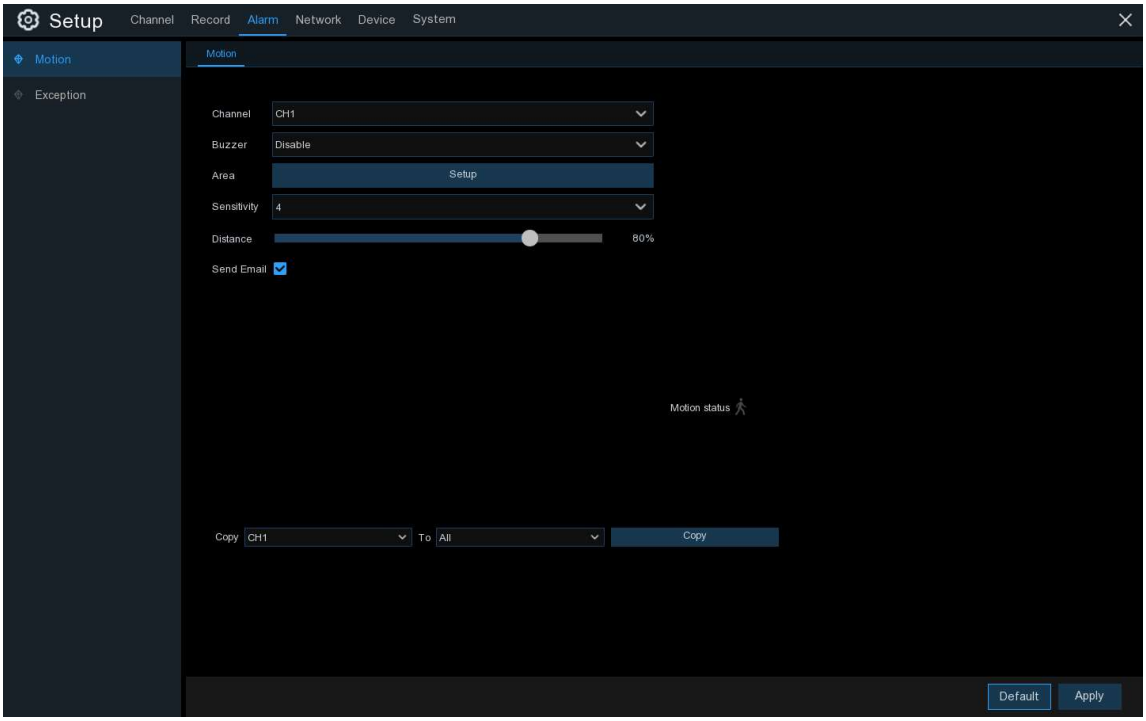
Channel: Select the channel to set its recording parameters.
Normal: When the time slot is marked green, this indicates normal or continuous recording for that time slot.
Motion: When the time slot is marked yellow, this indicates recording only when motion is detected during that time slot.
NOTE: To use motion only recording, you must enable and configure the motion settings for the channel in Alarm menu. Please see **5.3.1 Motion.**
No Record: A time slot that is black means that there is no recording scheduled for the time slot.

5.3 Alarm

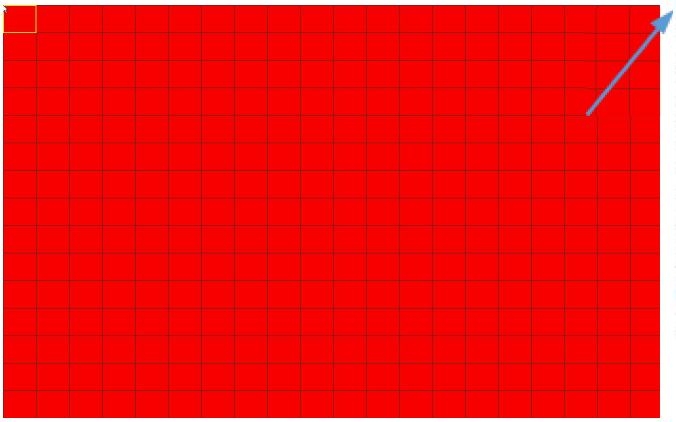
This menu allows you to configure motion parameters. When motion has been detected by one or more cameras, your NVR will alert you to a potential threat at your home. It does this by sending you an email alert with an attached image from the camera to use as a reference (if this option is enabled) and/or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

5.3.1

Click **Alarm** to configure the motion detection settings:



Channel: Display channel number.
Buzzer: The NVR can use its internal buzzer to sound an audio alarm when motion is detected. You can select how many seconds the audio alarm will sound.
Area: Click **Set-up** to open the **Area** set-up page.



Motion Detection Area:
The whole screen is marked for motion detection (red blocks) as default. If you want to disable the motion detection on a certain area, click the grid cursor and then drag the mouse to deselect the area, removing the red blocks. After setting is completed, click the right button of your mouse to return and click **Apply** to save you selected motion areas.

Sensitivity: Set the sensitivity level. The sensitivity range
Distance: Set detection distance of the PIR, default is 80%.
Send Email: Set the NVR to automatically send you an email when motion is detected.
Channel: Display channel number.
Motion status:

when there is no motion detected.

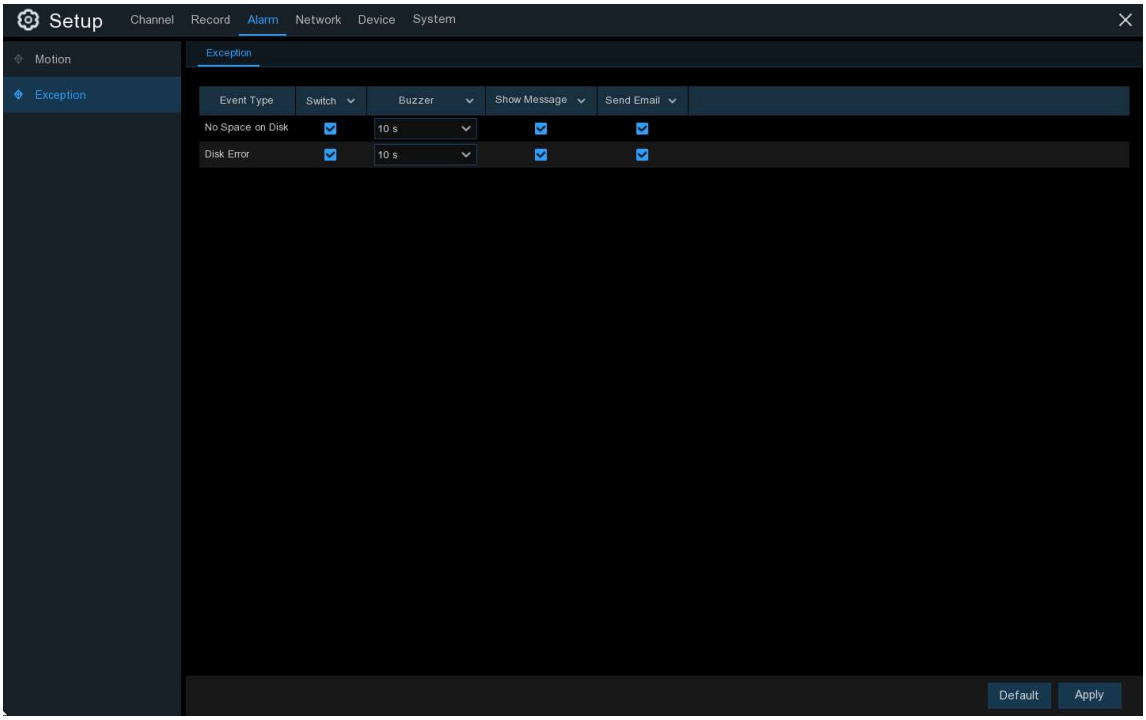
when there is motion detected.

Copy: Click

to apply the motion settings of that channel to any or all channels.
Default: You may click the **Default** icon to restore the settings back the default parameters.
Apply: Click **Apply** to save the settings. Always click **Apply** after changing any settings.

5.3.2 Exception

This menu allows you to set the type of events that you want to receive a notification for from the NVR.



Event Type: Select the event type from these options:

- **No Space on Disk**: When an HDD is full.

- **Disk Error**: If the HDD is not detected or not working properly.

- **Video Loss**: If a camera has lost connection with the NVR.

Switch: Click to select ON to enable the monitoring of the event type, select OFF to disable.

Buzzer: Click to enable the buzzer and set the duration the buzzer will sound when the event occurs. (Disable/10s/20s/40s/60s). To disable the buzzer, select **Disable.**

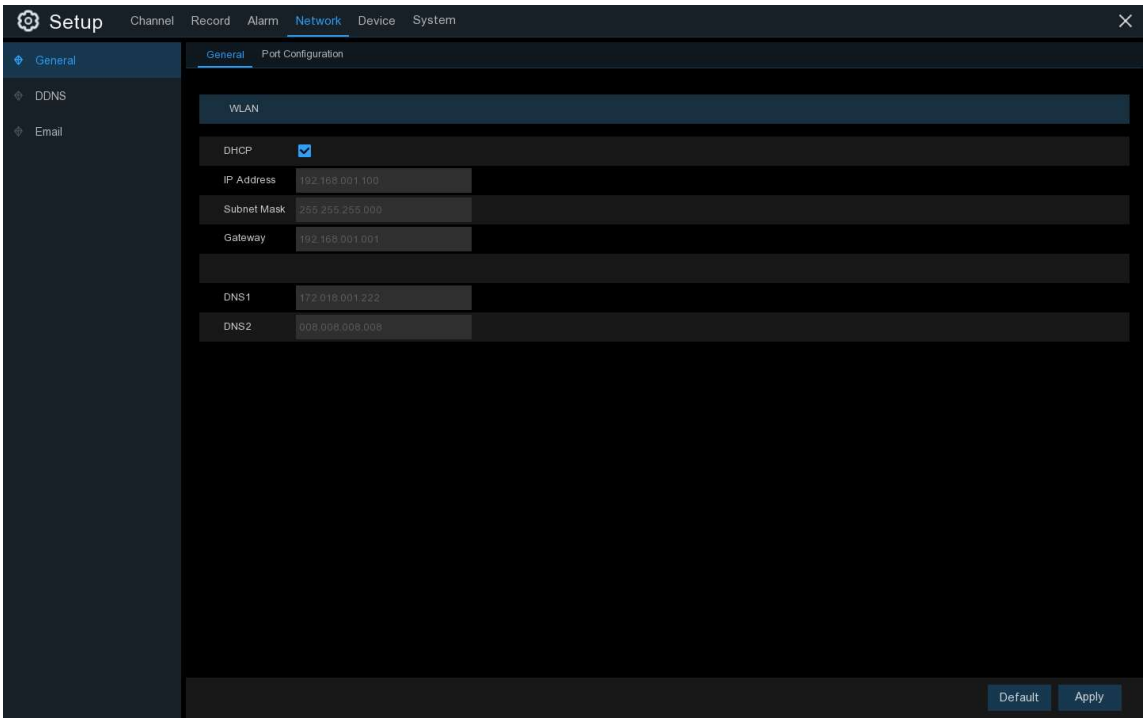
Show Message: Click to select ON to display a message on the screen when:
No Space on Disk, Disk Error, or Video Loss event happens. Select OFF to disable the on screen message.

Send Email: Click to select ON to enable the NVR to send you an email when an event occurs. Select OFF to disable the email notification.

5.4 Network

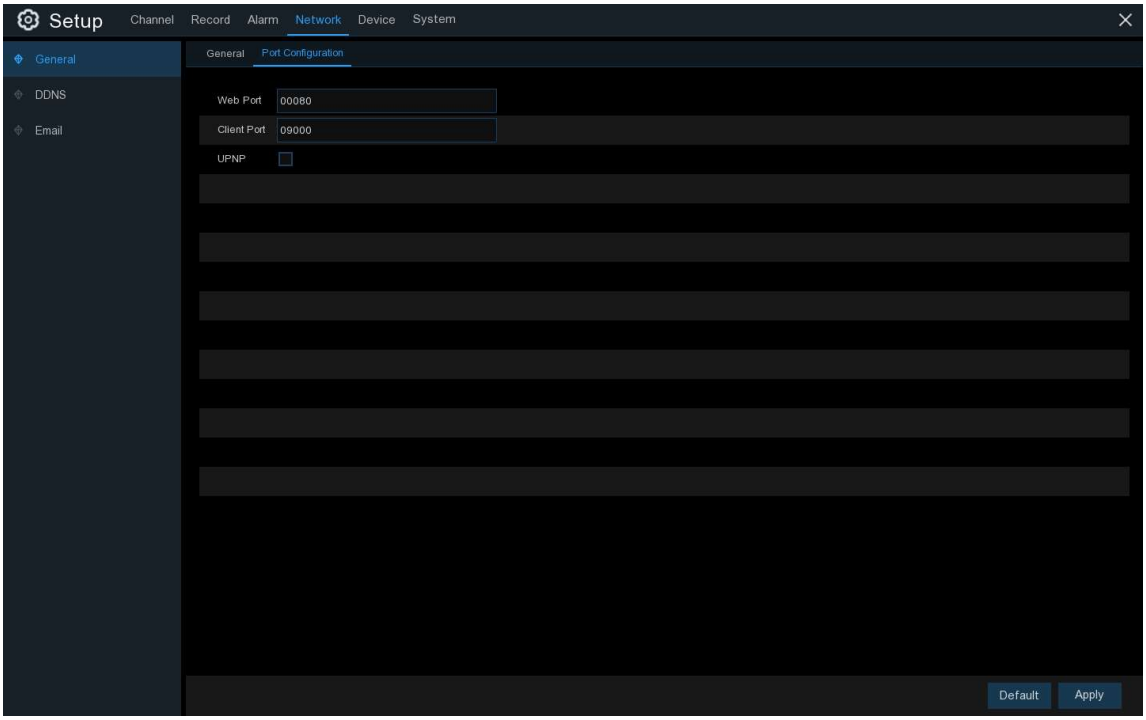
This menu allows you to configure network parameters. Most installations will use the DHCP option (most routers can provide DHCP IP address assignment), unless the network is manually configured and IP addresses are manually assigned.

5.4.1 General



IP Address: The IP address identifies the NVR on 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 the range of IP addresses that can be used on a network. The subnet address also consists of four groups of numbers, separated by periods. For example, “255.255.000.000”.
Gateway: This address allows the NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, “192.168.001.001”.
DNS1/DNS2: DNS1 is the primary DNS server and DNS2 is a backup DNS server. Usually as long as there is an IP address in DNS1, DNS2 does not require an IP address.

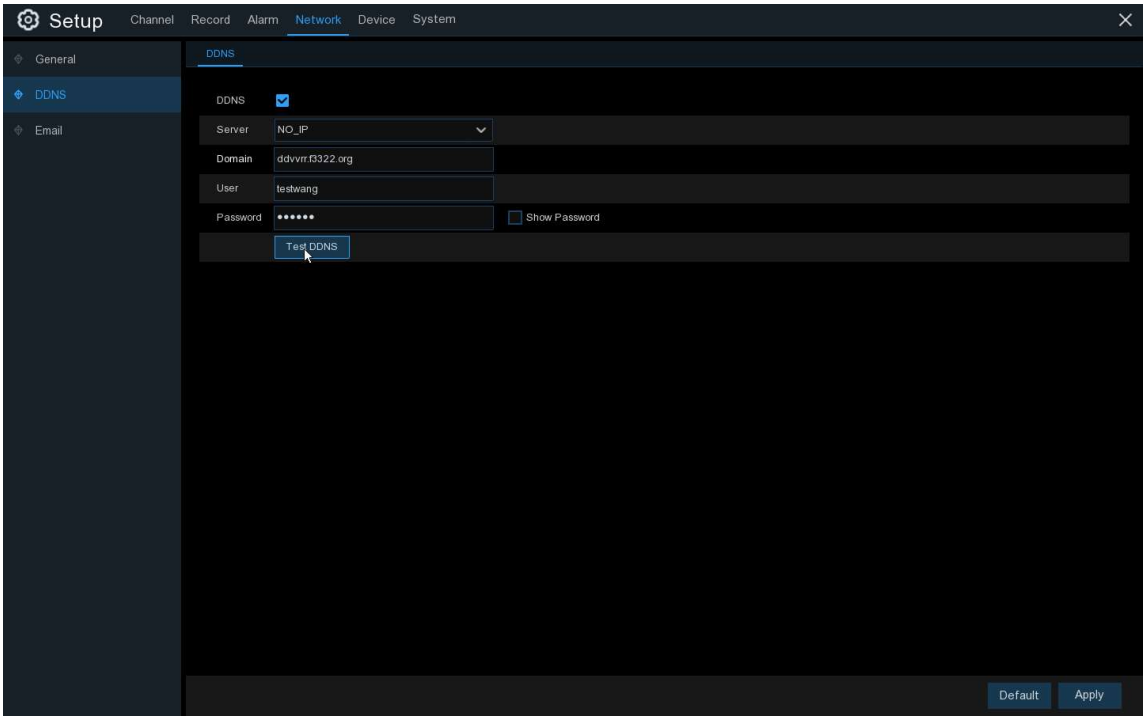
5.4.1.1 Port Configuration



Web Port: This is the port that you will use to log in remotely to the NVR (e.g. using the Web Client or Internet Explorer). If the default port 80 is already being used by another device or application, you will need to change the Web Port to another number.
Client Port: This is the port that the NVR will use to connect with the mobile application. If the default port 9000 is already being used by another device or application, you will need to change the Client Port to another number.
UPNP: To view the NVR using the WebClient software, enable the UPnP option. If your router supports UPnP, you do not need to manually configure port forwarding in your router. If your router does not support UPnP, you will need to manually set up port forwarding in your router to view the NVR using the WebClient.

5.4.2 DDNS

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

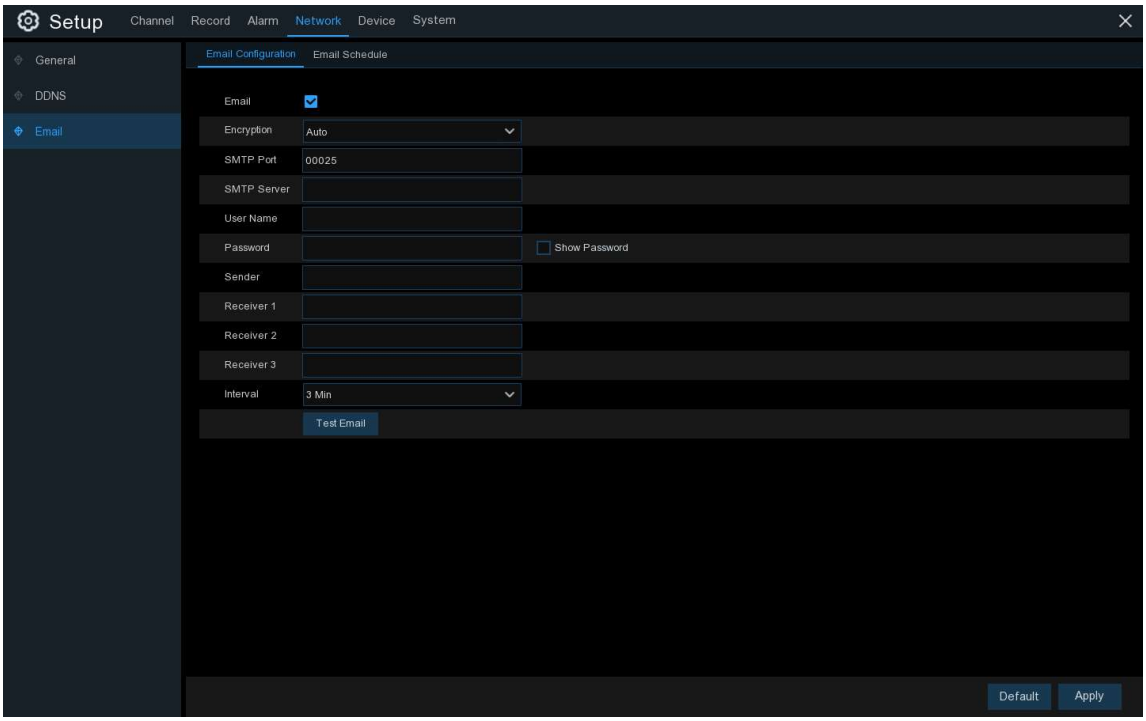


DDNS: Check to enable DDNS.
Server: Select the preferred DDNS server (DDNS_3322, DYNDNS, NO_IP, CHANGEIP, DNSEXIT).
Domain: Enter the domain name you created on the DDNS service provider's web page. This will be the address you type in the URL box when you want to connect remotely to the NVR via PC. Fox example: NVR.no-ip.org.
User/Password: Enter the user name and password you created when setting up an account on the DDNS service provider's web page.

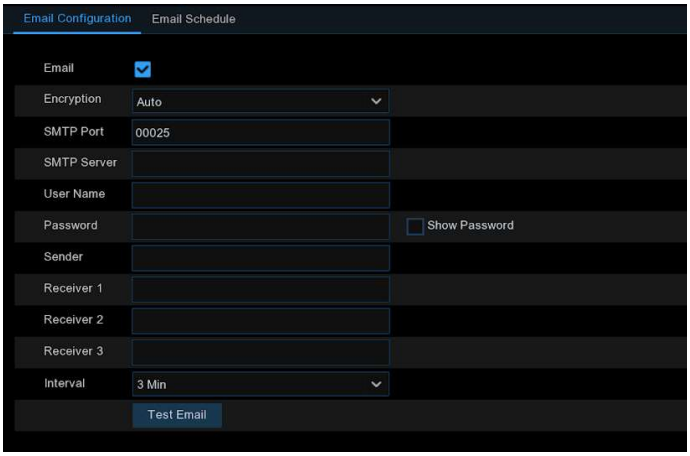
After you click apply to save the settings, click **Test DDNS** to test the DDNS settings. If the test result is "Network is unreachable or DNS is incorrect", the setting may not be set correctly or the NVR is not properly connected to the network.

5.4.3 Email

This menu allows you to configure the email settings. Complete these settings if you want to receive an email notification when an alarm is triggered, the HDD becomes full, the HDD is in an error state, or Video Loss occurs.



5.4.3.1 Email Configuration



Email: Check to enable.

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

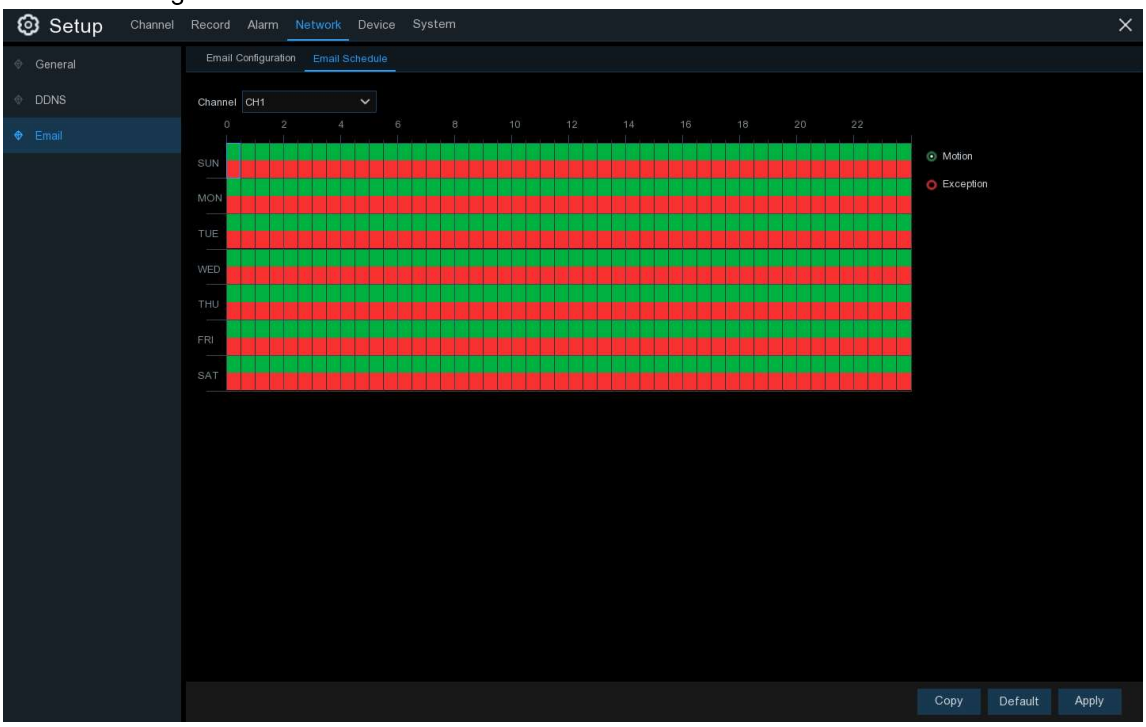
Receiver 1~3: Enter the email address where you want to receive the event notifications from the NVR.

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

To make sure all the email settings are correct, click **Test Email**. The system sends an automated email message to your in-box. If you received the test email in your in-box you have configured the email settings correctly.

5.4.3.2 Email Schedule

You must configure an email schedule to receive email notifications.



There are two event types for the email schedule.

Green: for Motion detection.

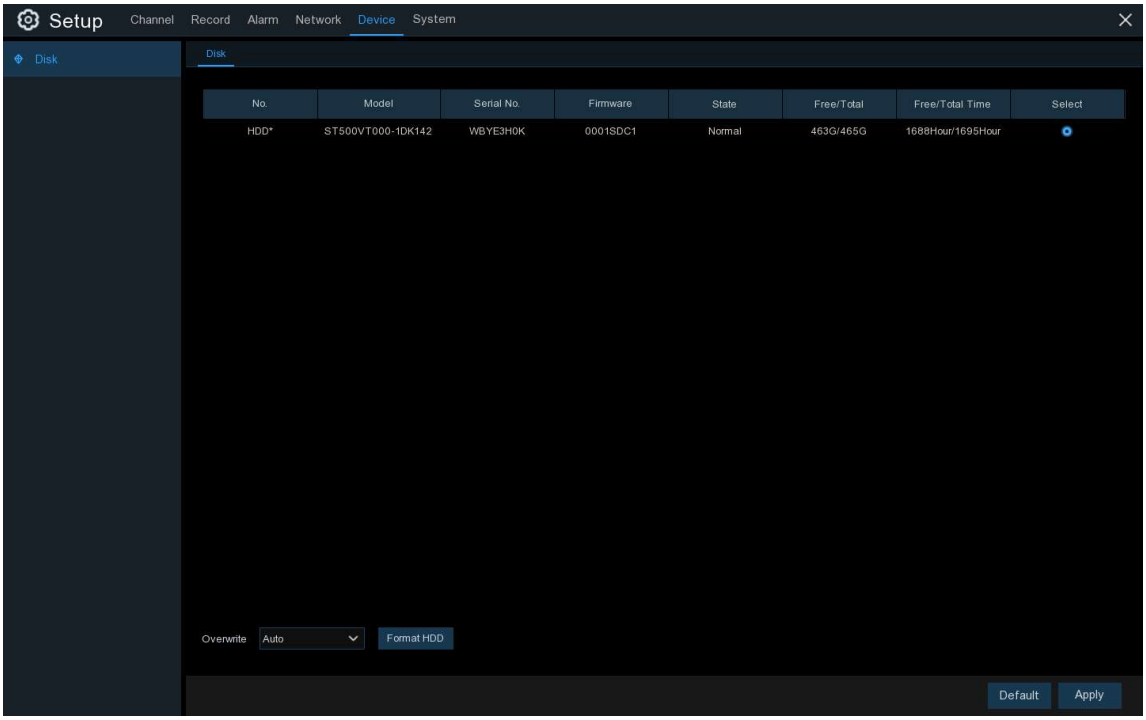
Red: for Exception/System events (HDD full, HDD error, or Video Loss).

5. 5 Device

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

5. 5.1 Disk

This menu allows you to check & configure the internal HDD(s). You only need to format the HDD the first time you start up the system or if you replace the HDD.

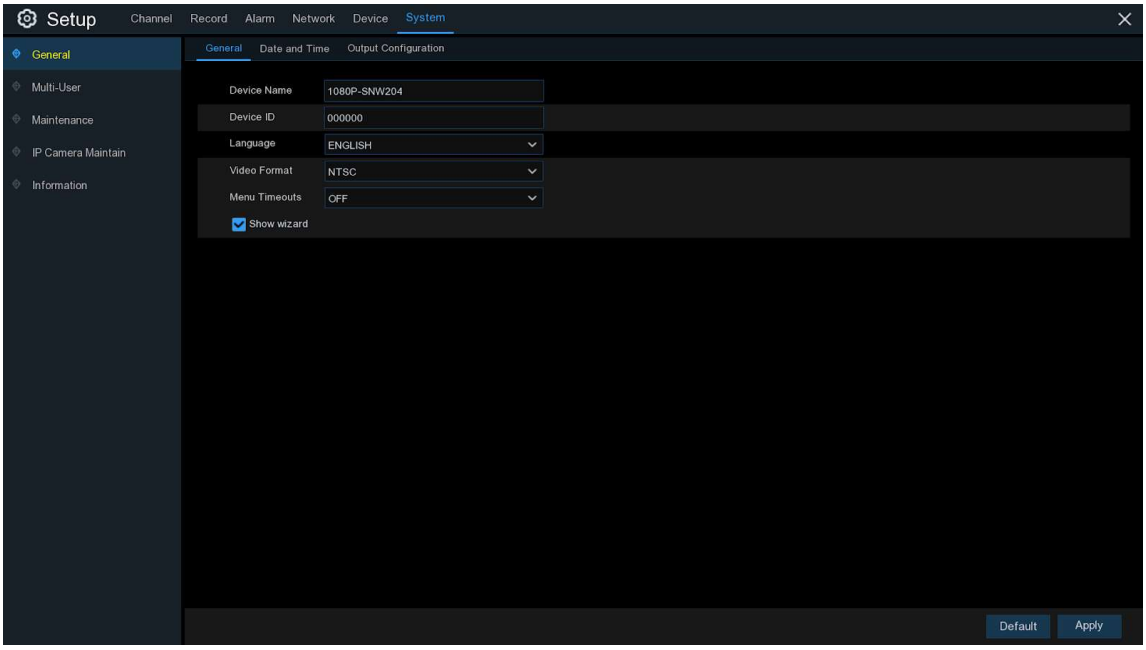


Format HDD: Select the HDD you want to format and then click **Format HDD**. To start formatting, you need to enter your user name and password and then click **OK** to confirm.
Overwrite: Use this option to overwrite the old recordings on the HDD when the HDD is full. For example, if you choose the 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 disable the overwrite option, once the hard drive is full, the NVR will stop recording. To restore the NVR recording function you will have to reformat the HDD or re-enable the overwrite function.

5.6 System

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

5.6.1 General



Device Name: Enter a name for your NVR (optional). The name can include both letters and numbers.

Device ID: Enter an ID for your NVR. The device ID is used to identify the NVR, and can only be composed of numbers. For example, 2 NVR's are installed in the same place, the Device ID is 000000 for one of the NVR's, and 111111 for the other NVR. When you want to operate the NVR with a remote controller, both of the NVR's may receive the signal from the controller, with both NVR's reacting at the same time. If you want to control only the NVR with ID 111111, you can input the Device ID 111111 at the login page with remote controller, any further operations carried out using the remote controller would only be received by the NVR with Device ID 111111.

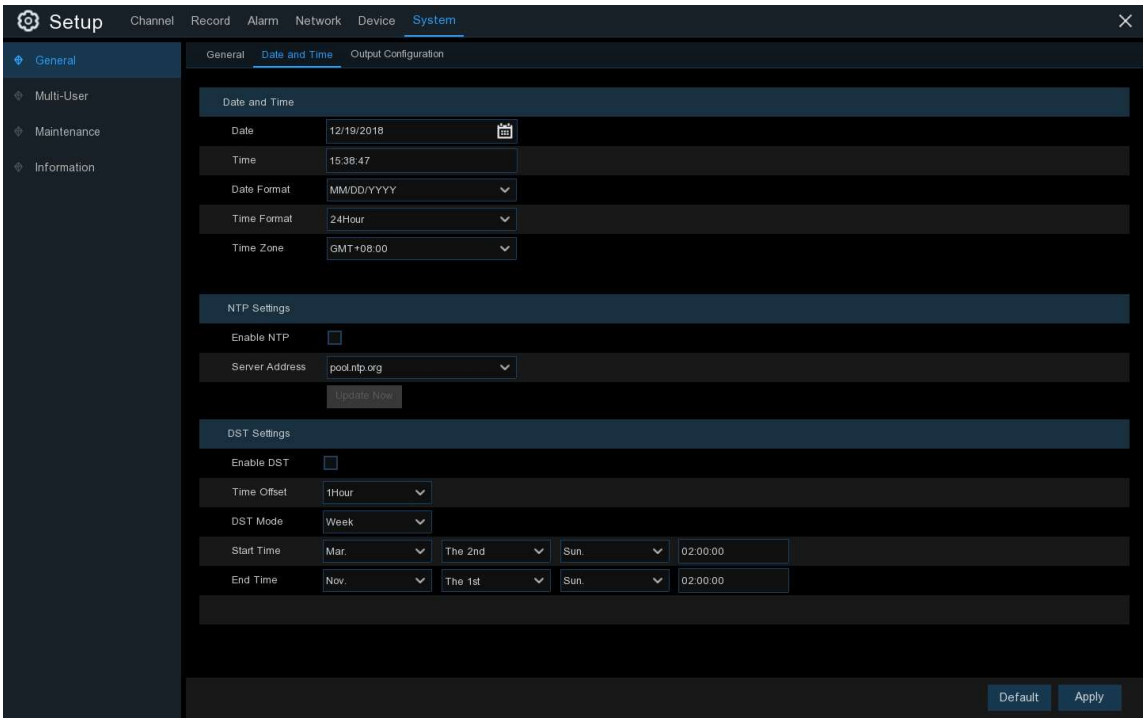
Language: Select a language you would like the system menus to be displayed in. Multiple languages are available.

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

Menu Time-outs: Click the drop-down menu to set the length of time the NVR can remain idle before the interface will 'time-out'. If the system has 'timed-out' the password will be required to re-enter the system. You can also disable the menu time-out by selecting "OFF" (password protection will be temporarily disabled).

Show Wizard: Click the check-box if you would like to display the Start-up Wizard each time you turn on or reboot your NVR.

5.6.1.1 Date and Time



Date & Time

Date: Click the calendar icon to change the date.

Time: Click the dialogue box to change the time.

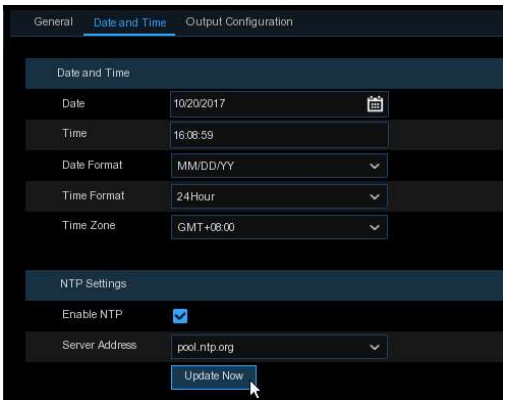
Date Format: Select the preferred date format.

Time Format: Select the preferred time format.

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

5.6.1.2 NTP Settings

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



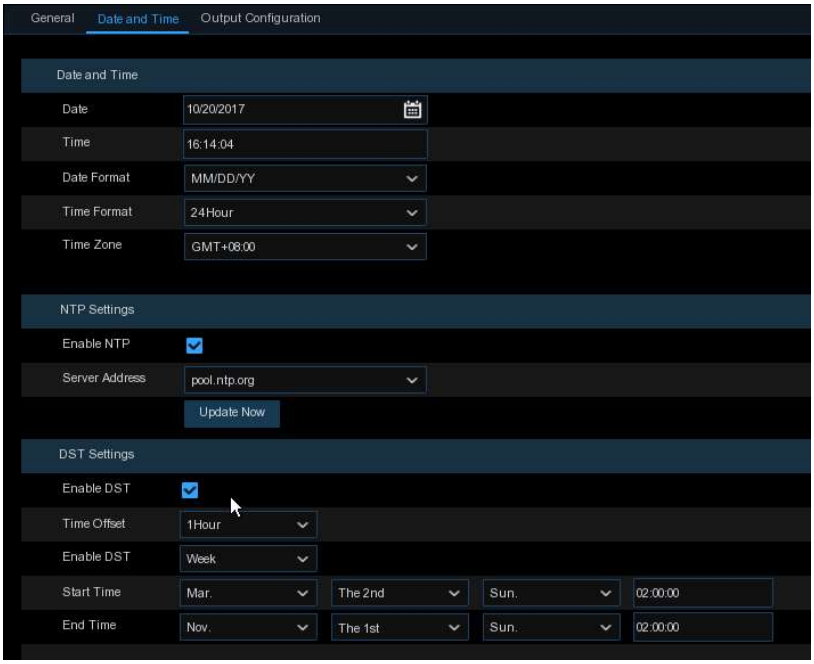
Check to enable **NTP**, and select a **Server Address.** Click **Update Now** to manually sync the date & time.

Click **Apply** to save your settings.

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

5.6.1.3 DST Settings

The DST (Daylight Savings Time) function the NVR to automatically adjust the time and date settings based on the Daylight Savings Time increase for your particular time zone or region.



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

Time Offset: Select the amount of time that Daylight Savings 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 when Daylight Savings starts and ends:

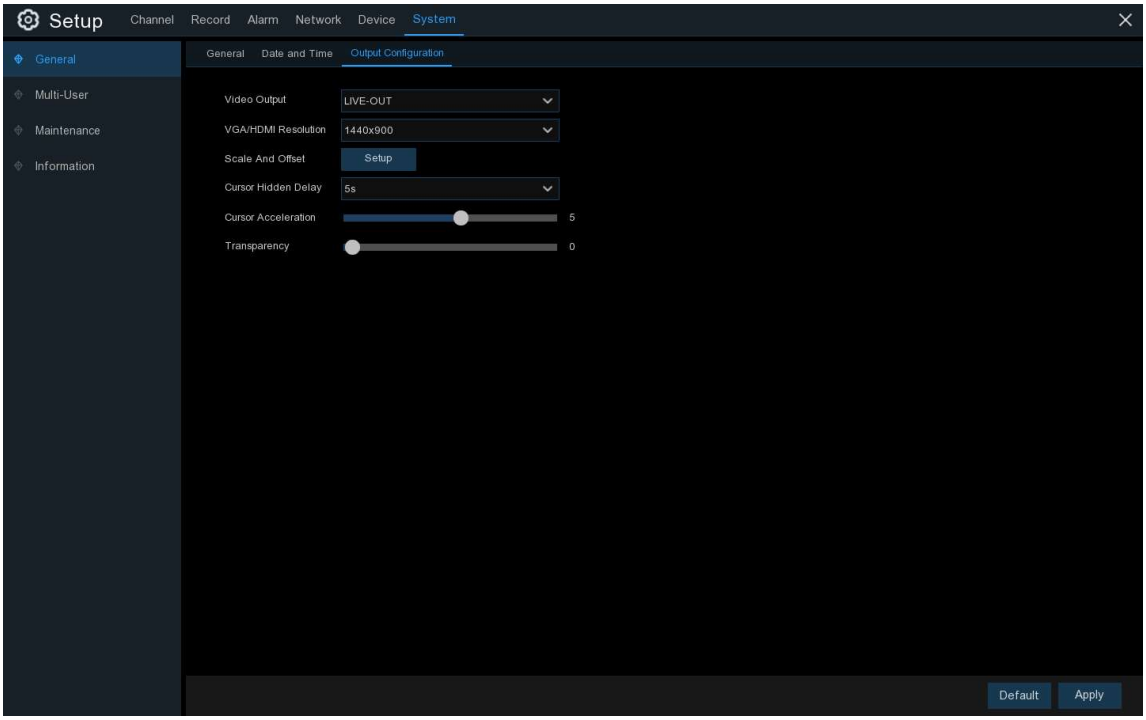
Week: Select the month, a particular day and time when Daylight Savings starts and ends. For example, 2 a.m. on the first Sunday of a particular month.

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

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

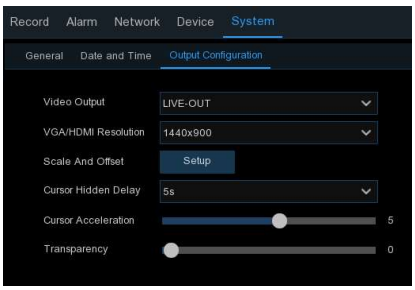
5.6.2 Output Configuration

This menu allows you to configure the video output parameters. This configures how the system displays on the monitor connected to the NVR.

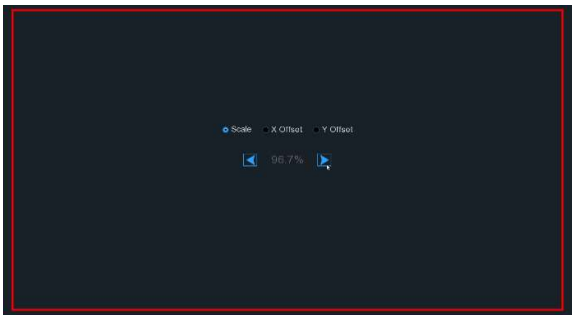


Video Output: To choose the output options:
LIVE-OUT: Is used to configure the main output parameters.

5.6.2.1 LIVE-OUT



Choose **LIVE-OUT** from the Video Output drop-down menu.
Output Resolution: Select a display resolution that is suitable for your monitor or TV. 1920 x 1080 will suit most TVs. If your monitor or TV supports other output resolutions, you can select from 1024 x 768, 1280 x1024, 1440 x 900, 1280 x 720, 1920 x 1080.
Scale and Offset: The NVR can adjust the size & position of the display screen to match your monitor or TV. Click **Set-up** to adjust.

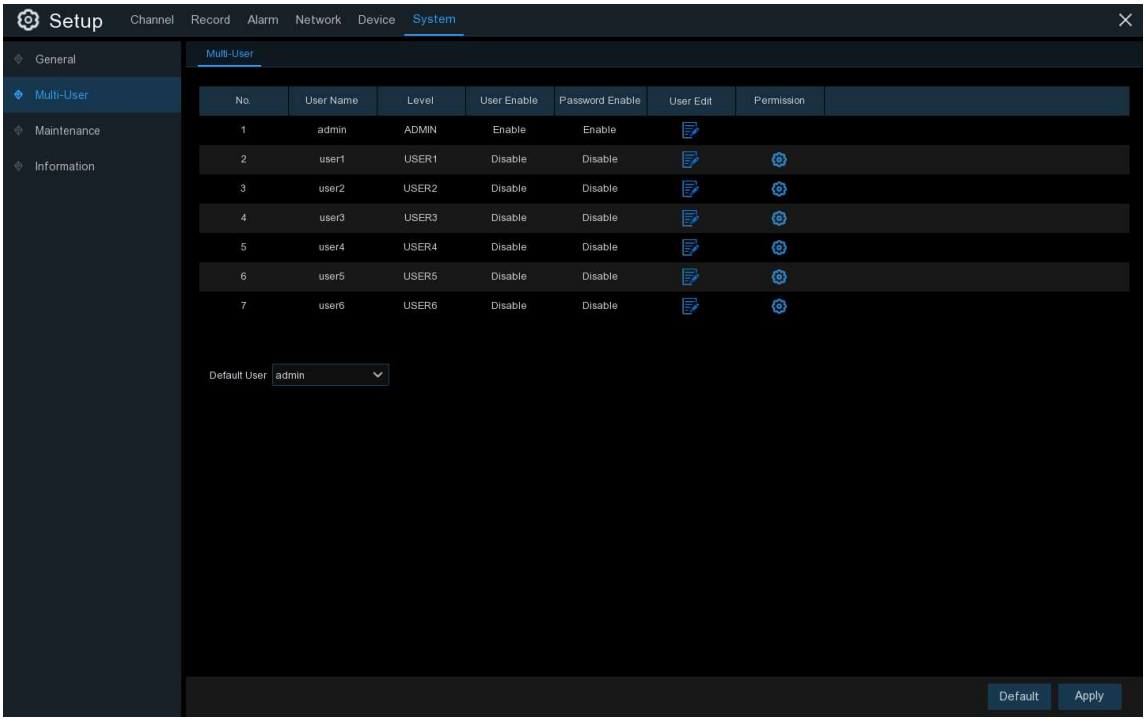


Scale: To adjust the size of the displayed screen by scale.
X Offset: To move the displayed screen to left or right.
Y Offset: To move the displayed screen to up or down.

Click once or 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 how long the NVR can remain idle, before hiding the mouse cursor on the screen. You can also disable the 'hide cursor' by selecting "OFF".
Cursor Acceleration: To adjust the cursor speed.
Transparency: Click and hold the slider left or right to change how transparent the Menu Bar and Main Menu will appear on-screen.

5.6.3 Multi-user

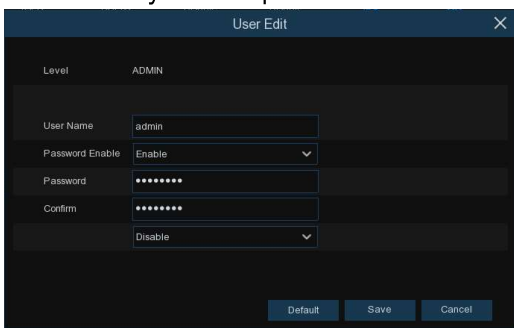
This menu allows you to configure the user name, password and user permissions.

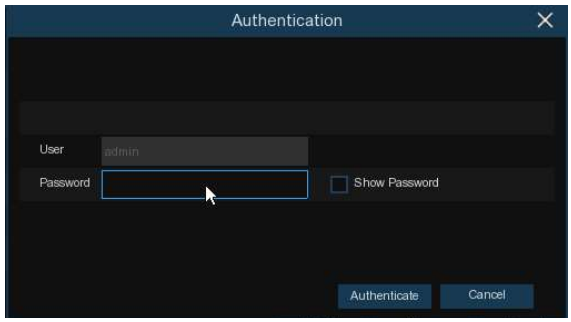


The system supports the following account types:
ADMIN: System Administrator: The administrator has full control of the system, and can change both administrator and 'user' passwords and enable/disable password protection.
USER: Normal User: Users only have access to live viewing, search, playback, and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

5.6.3.1 Changing Password

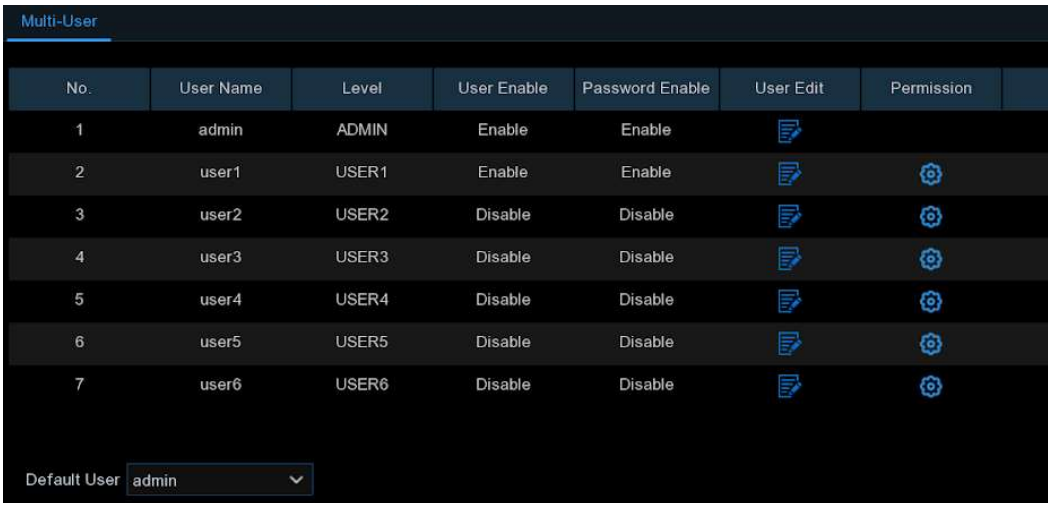
To change the password for the administrator or user accounts, click the User Edit icon . The password has to be a minimum of 8 characters and can contain a mixture of numbers and letters. **Password**: Enter your new password. **Confirm:** Enter your new password again to confirm. Click **Save** to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



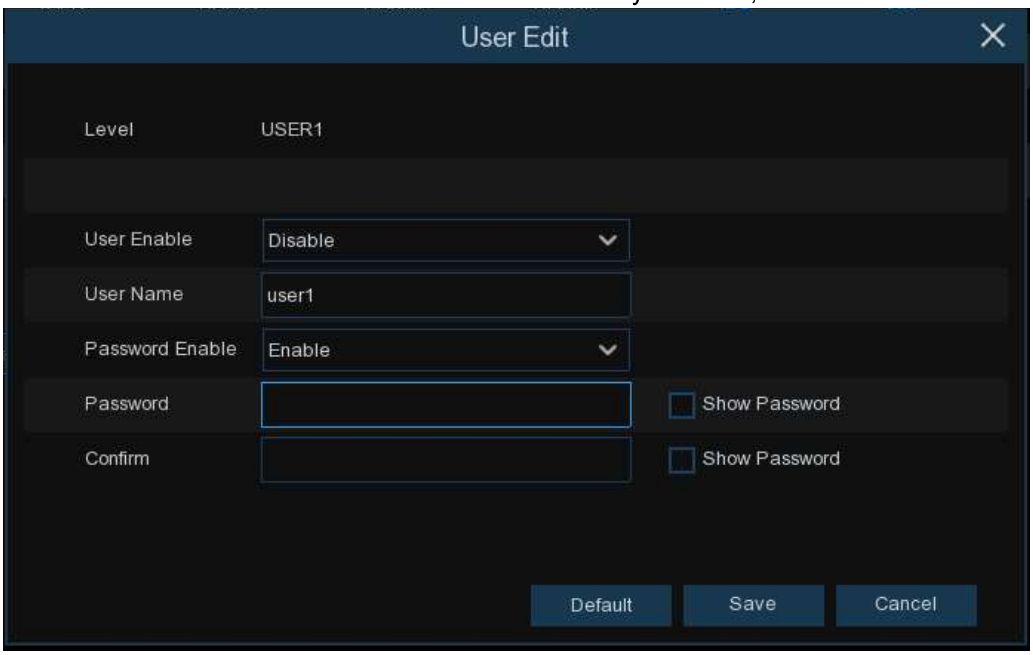


Password Enable: It's strongly recommended to enable the password to protect your privacy. If you want to disable the password protection, please ensure your NVR is placed in a secure place.

5.6.3.2 Add New Users



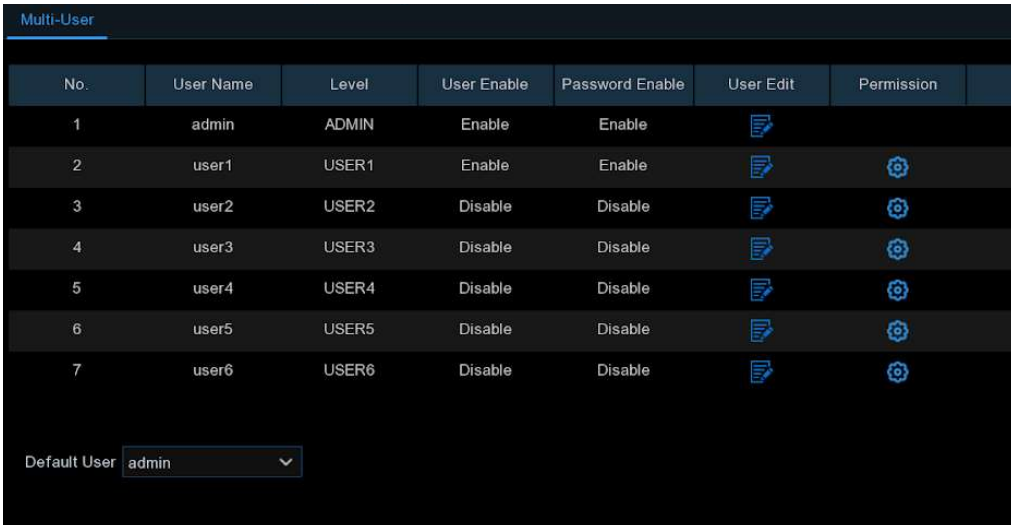
1. Select one of the user accounts that is currently disabled, click the User Edit icon .



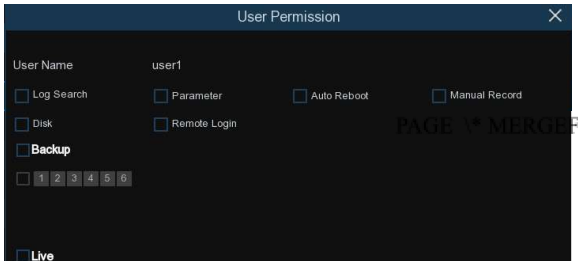
1. **User Enable:** Select **Enable** from the drop-down menu.
2. **User Name:** Click the box to change the user name for this user account.
3. **Password Enable:** Select **Enable** from the drop-down menu.
4. **Password:** Enter the desired password. The password has to be a minimum of 8 characters and can contain a mixture of numbers and letters.
5. **Confirm:** Re-enter the password.
6. 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.



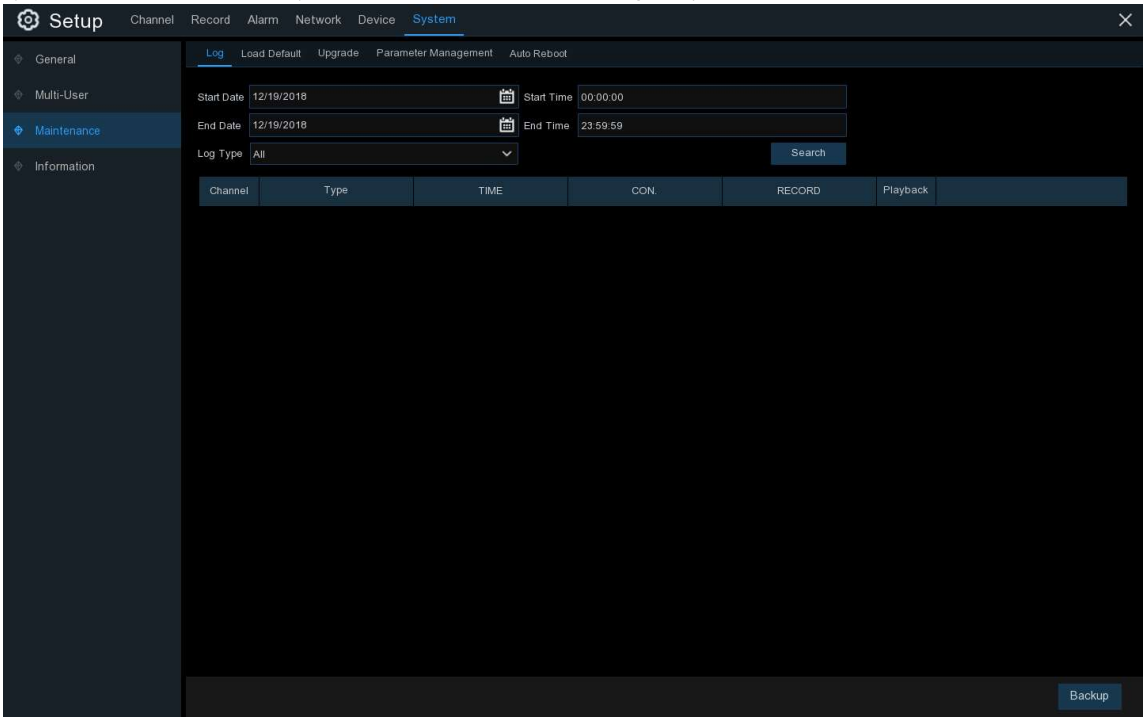
1. Click the edit icon under Permission tab.



2. Check the box next to any system menu or capabilities you would like the user to have access to. Click **All** to check all the boxes. Click **Clear** to check none of the boxes.
3. Click **Save** to save your modifications.

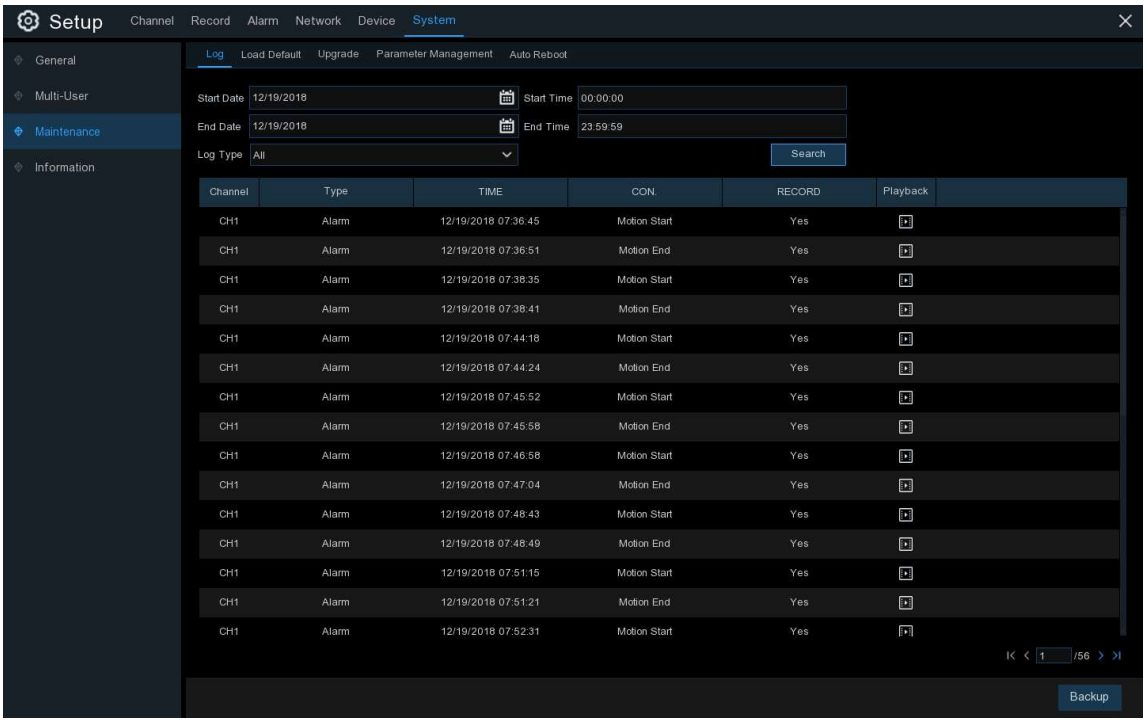
5.6.4 Maintenance

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.

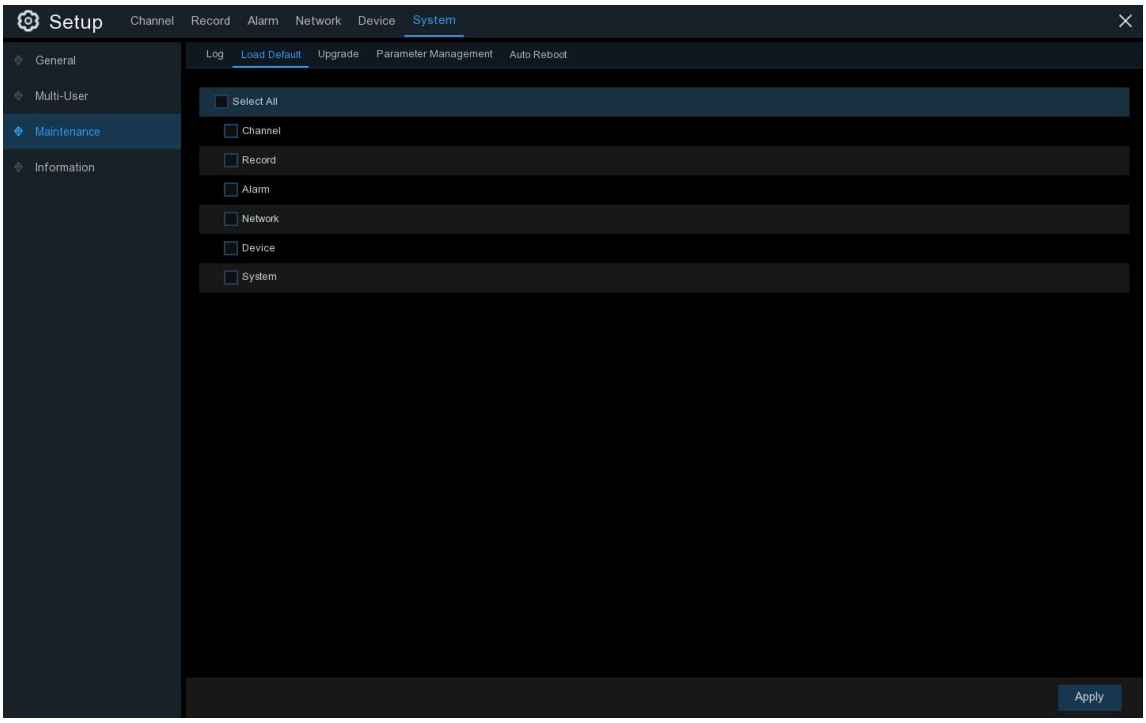


Log Searching and Backing Up:

1. **Start Date & Start Time:** Click the calendar icon to set the starting date & time for your search.
2. **End Date & End Time:** Click the calendar icon to set the end date & time for your search.
3. **Log Type:** Select the type of events you would like to search for from the drop-down menu, 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 the icon 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 the pages of systems 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 plugged in to the NVR's USB port.
7. The backup drive menu appears. Navigate to the folder you want the backup file to be saved in, then click **OK** to begin.

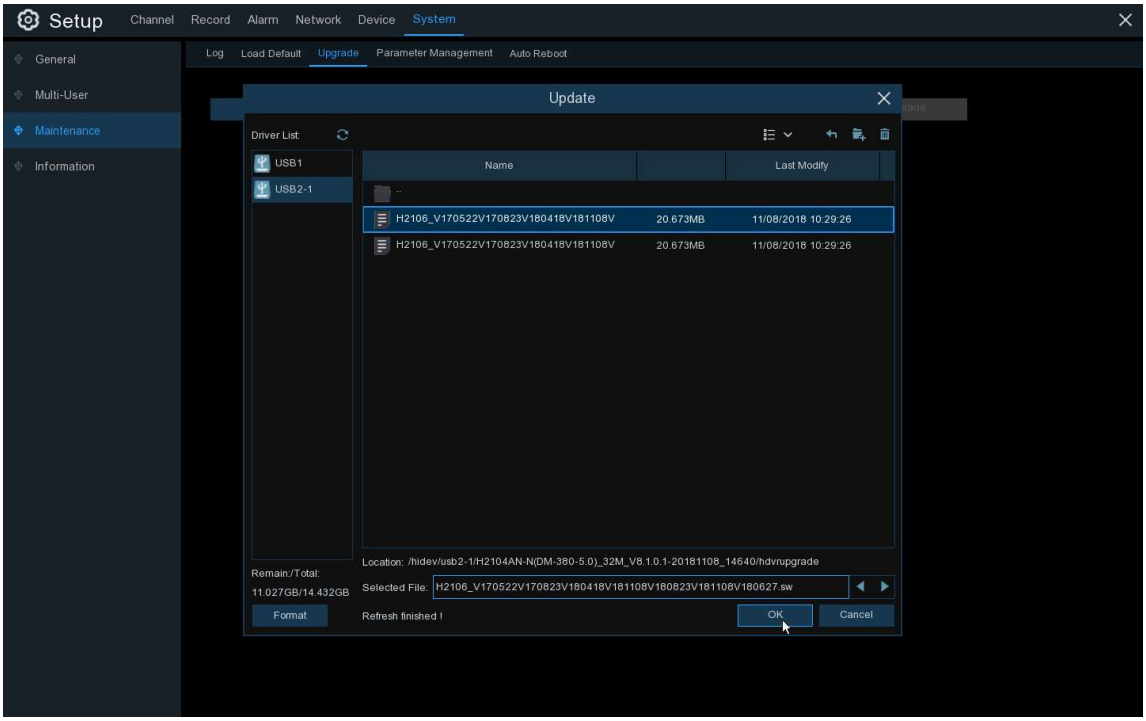
5.6.4.2 Load Default

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



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

5.6.4.3 Upgrade

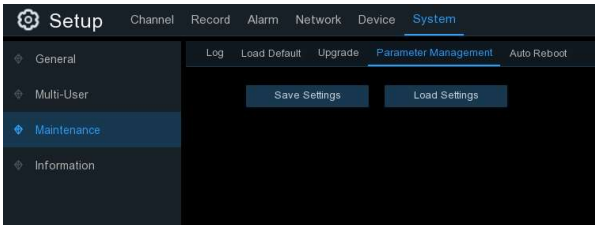


1. Copy the firmware file (.sw file) to a USB drive, and insert the USB flash drive into the NVR's USB port.
2. Click **Select File** to choose the firmware file from the USB flash drive, then Click **OK**.

3. Click **Upgrade** to start system upgrade. The upgrade process can take 5-10 minutes to complete. DO NOT power off the NVR or remove the USB drive from the NVR during firmware upgrade. Power loss while updating or interrupting the firmware process can result in device failure.

5.6.4.4 Parameter Management

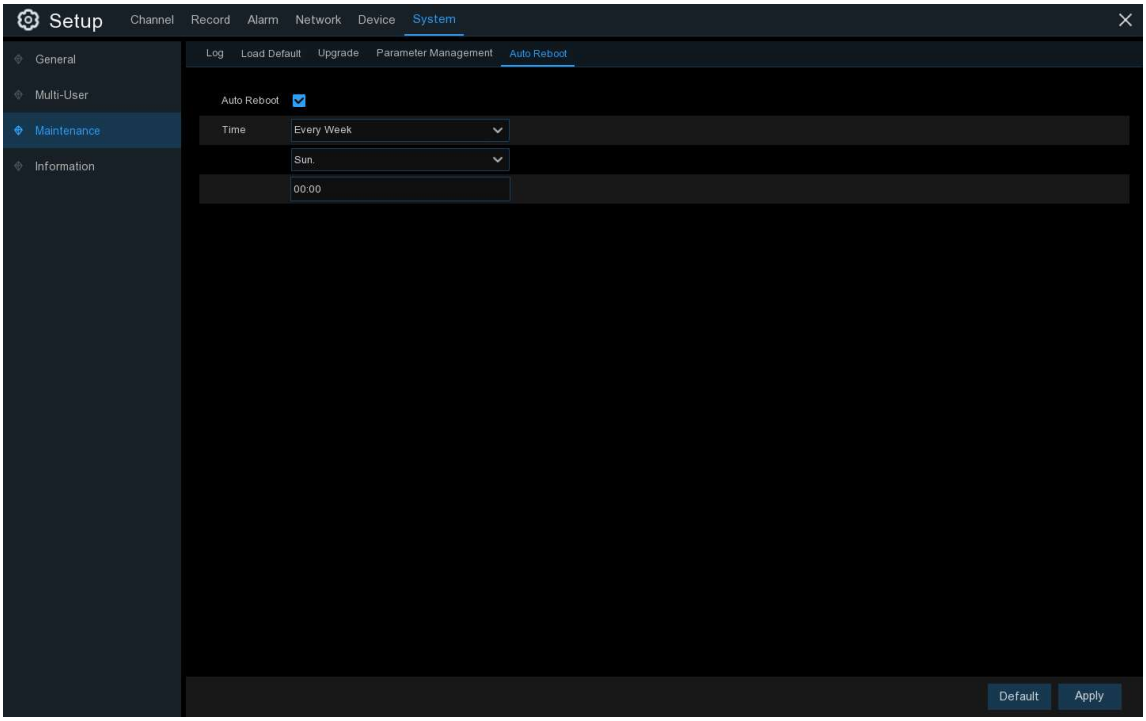
You can export the main menu settings you have configured to a USB flash drive, or import an exported settings file from USB flash drive to the NVR.



Save Settings: Click to save the NVR's current system settings to a USB flash drive plugged in to a USB port of the NVR. 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 to another NVR. Click **Load Settings** to navigate to the system settings file you want to import from your USB flash drive. You will be required to input the Admin password to authenticate.

5.6.4.5 Auto Reboot

This menu allows you to set up a schedule for an automatic re-boot of NVR on a regular basis. It is recommended to leave this function enabled, as it maintains the operational integrity of your NVR.



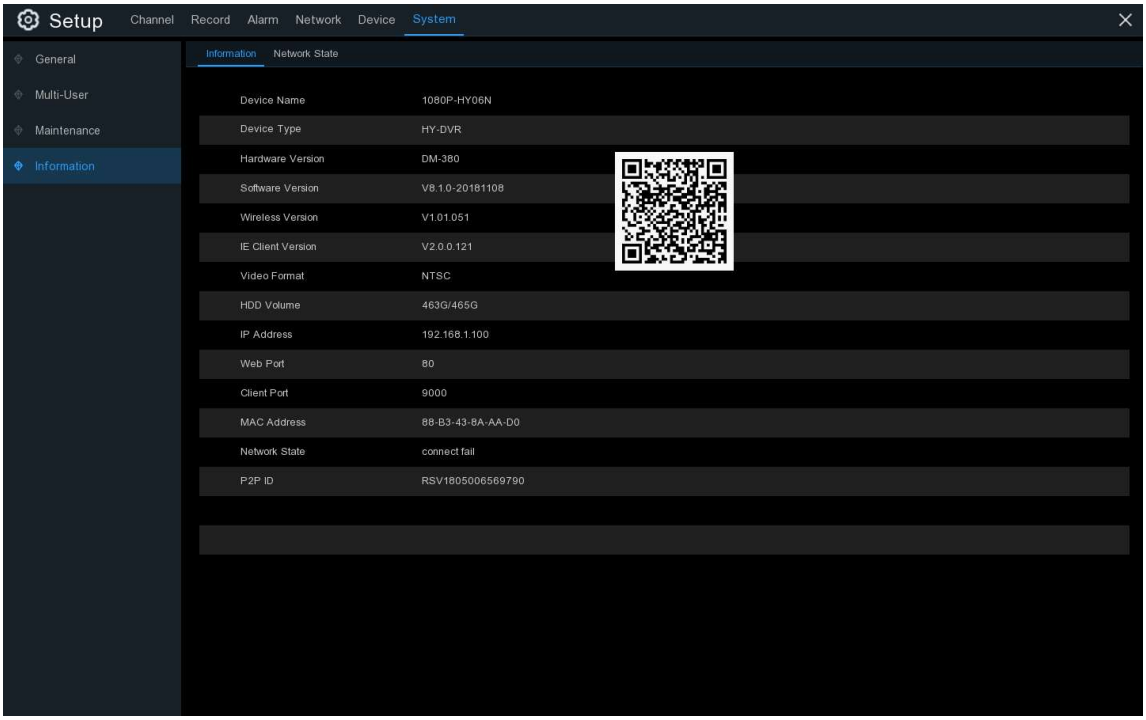
Auto Reboot: Check to enable.
Time: You can set the NVR to reboot by daily, weekly or monthly.

5.6.5 System Information

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

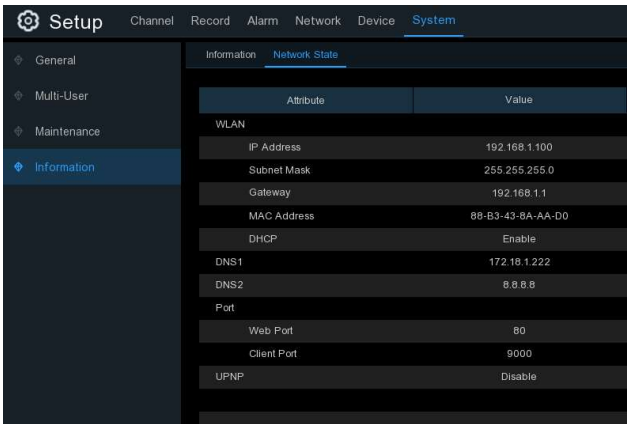
5.6.5.1 Information

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



If your NVR supports P2P function, you will find the P2P ID & P2P QR code on the information page. You can scan this QR code while in the mobile app to remote view the NVR.

5.6.6.2 Network State



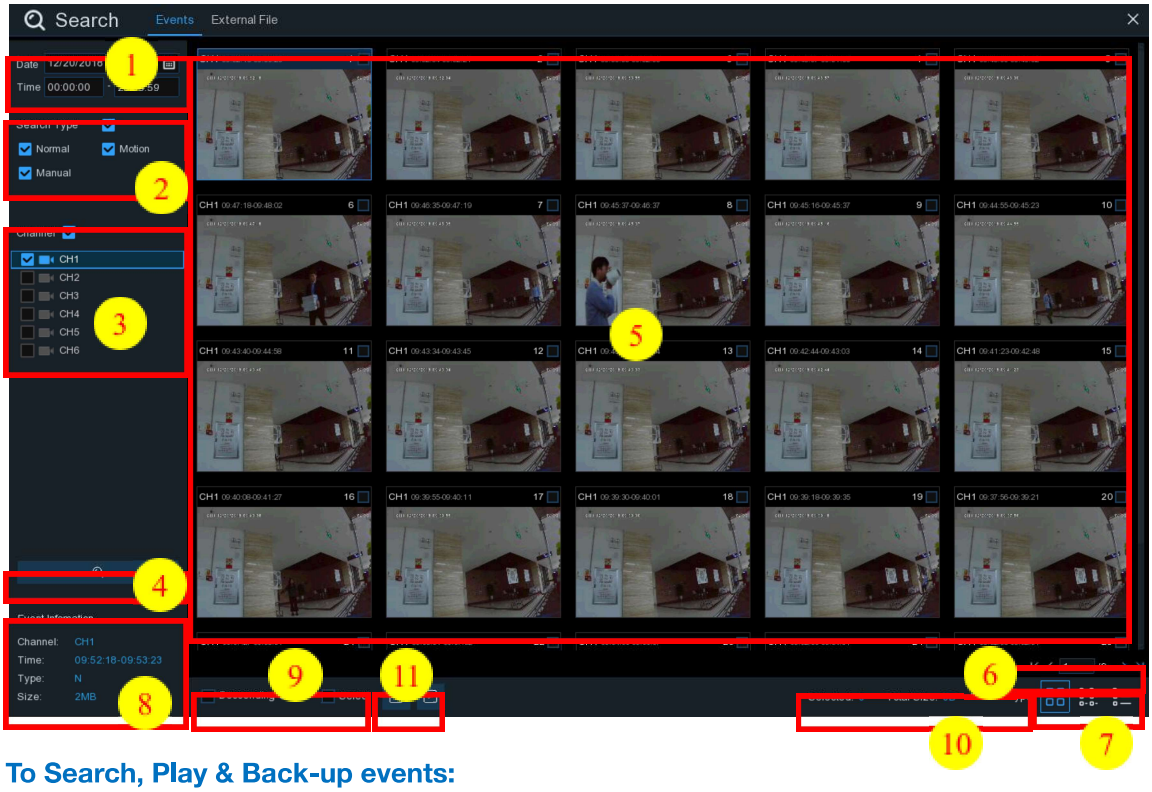
View network information.

Chapter 6 Search, Playback & Backup

The Search function gives you the ability to search for and play previously recorded videos as well as snapshots that are stored on your NVR's hard drive. You can chose the type of recordings you want to search. You can choose from normal/continuous recording, manual recordings or motion only events. The Backup function gives you the ability to save important events (both video and snapshots) to a USB flash drive.

6.1 Event Search, Playback & Backup

Event search lets you select a channel, a start time and end time you wish to search. All the available video recordings that fit your search parameters will be listed. You can also quickly back up events to a USB flash drive.



To Search, Play & Back-up events:

1. Choose the date & time you want to search.
2. Check the recording type 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. Use the mouse and double left click on an event to play the video immediately.
6. Click 4 /15 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 choose how the system will display the list of available video by clicking the either of the icons:

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

List view: The events will be displayed as a list.

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

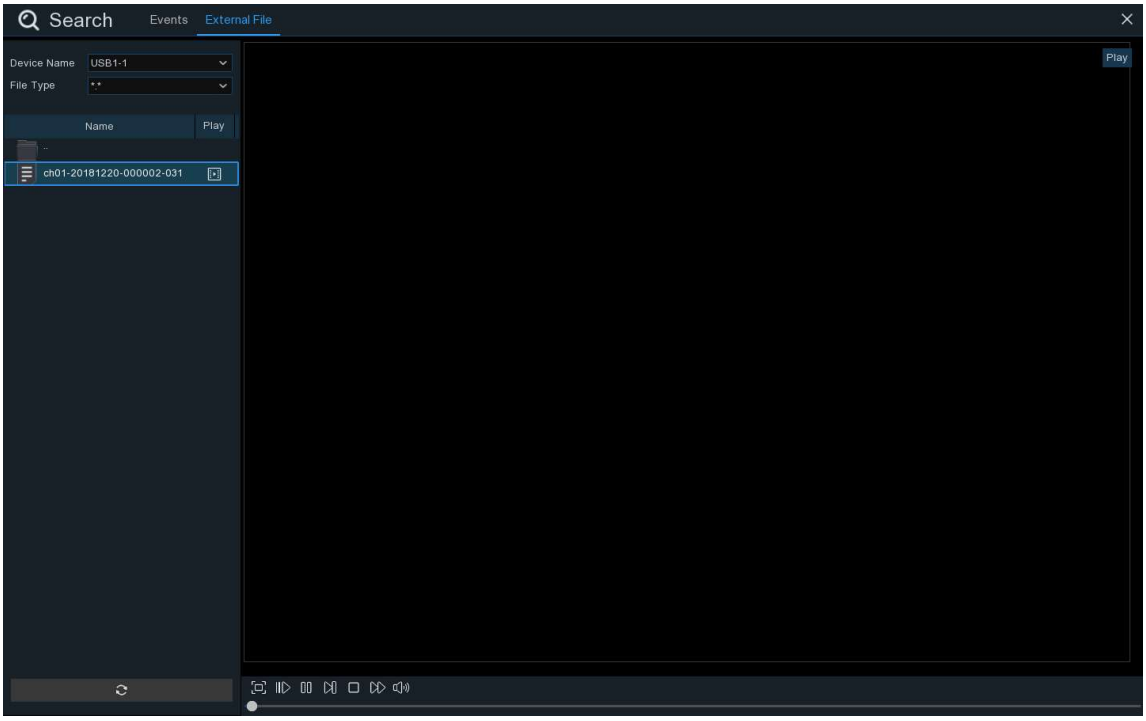
	Channel	Type	Date	Start Time	End Time	Size	Playback	Lock
1	CH1	MINS	10/23/2017	00:00:00	00:00:45	6MB		
2	CH1	MINS	10/23/2017	00:00:45	00:18:30	150MB		
3	CH1	MINS	10/23/2017	00:18:30	00:44:03	217MB		
4	CH1	MINS	10/23/2017	00:44:03	01:10:48	227MB		
5	CH1	MINS	10/23/2017	01:10:48	01:19:22	72MB		
6	CH1	MINS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

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

8. Left click your mouse on an event to display the event information on the bottom left corner of the screen.
9. Check the **Descending Order** box to display the list of events in descending order by time. Unless checked the list will display incrementally. Check the **Select** box to select all the events shown on the page.
10. The number of files selected and the collective file size will be displayed at the right bottom of the screen. You will need a USB flash drive or drives large enough to store the collective file size if you intend to download the files.
11. After selecting a file or files, you can click icon to save the video to USB flash drive. Or click icon in the event playback control window to play the video.

6.2 External File

This function allows you to playback video files from a USB flash drive or from an SD card.



Device Name: Click the drop down arrow to select USB Disk or SD Card.

File Type: you can select video format is *.*, *.rf , *.avi , *.mp4.

Picture List: You can select the pictures here.

1. Right click the mouse to view **Full Screen**. Left click the mouse to return to standard view.
2. to **Slow Play** the video.
3. to **Play** the video.
4. to **Pause** the video.
5. to play or advance the video by a **Single Frame**.
6. to **Stop** the video playing.
7. to **Fast Forward** play the video.
8. to set sound **Volume**.

Chapter 7 Remote Access via Web Client

Use the Web Client to remotely access your NVR at any time via a PC. Before you access the Web Client, you need to ensure that the network settings of the NVR are configured properly. After connecting the NVR to your router and enabling DHCP in the network settings in the NVR, your router will assign an IP address to the NVR. Once the NVR has been assigned an IP address you can disable the DHCP. By disabling the DHCP this ensures the NVR's IP address will stay the same, even if you restart the system or there is an unexpected power loss. Then you can always use that IP address to access the NVR from Internet Explorer.

Requirements for hardware and OS required to run Web Client:

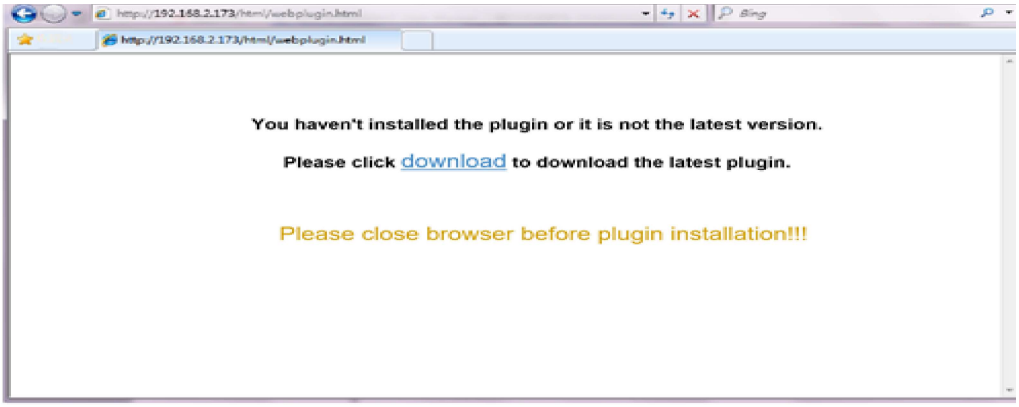
Item	Minimum	Recommended
CPU	Intel i3	Intel i7 or higher
RAM	4G or more	8G or more
Hard Drive	500G or more	1000G or more
Display RAM	2G or more	4G or more
Display Resolution	1280*1024	1920*1080
OS	Windows® Vista, Windows® 7 ,Windows® 8, Windows® 10	
DirectX	DirectX 11	
Direct3D	Acceleration Function	
Ethernet Adapter	10/100M Ethernet Adapter	
IE	Microsoft Internet Explorer (Ver. 11,10,9,8)	

7.1 Web Plugin Download and Installation

To access the Web Client, do the following:

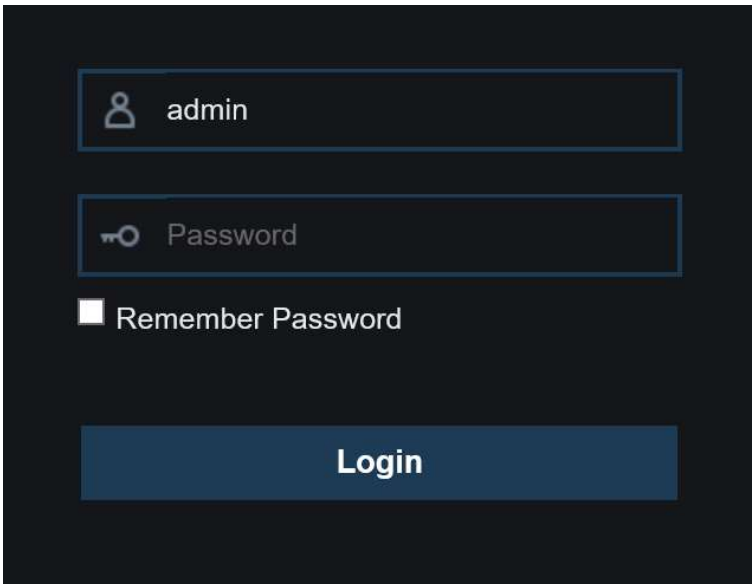
Internet Explorer:

1) Launch Internet Explorer on your PC and enter the NVR static IP address or DDNS domain name (Host Name) you have set on NVR in the URL box.



2) For the first time you run the web client, system will require to install the web client plug-in. Click download to download the plug-in and install to your computer.

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

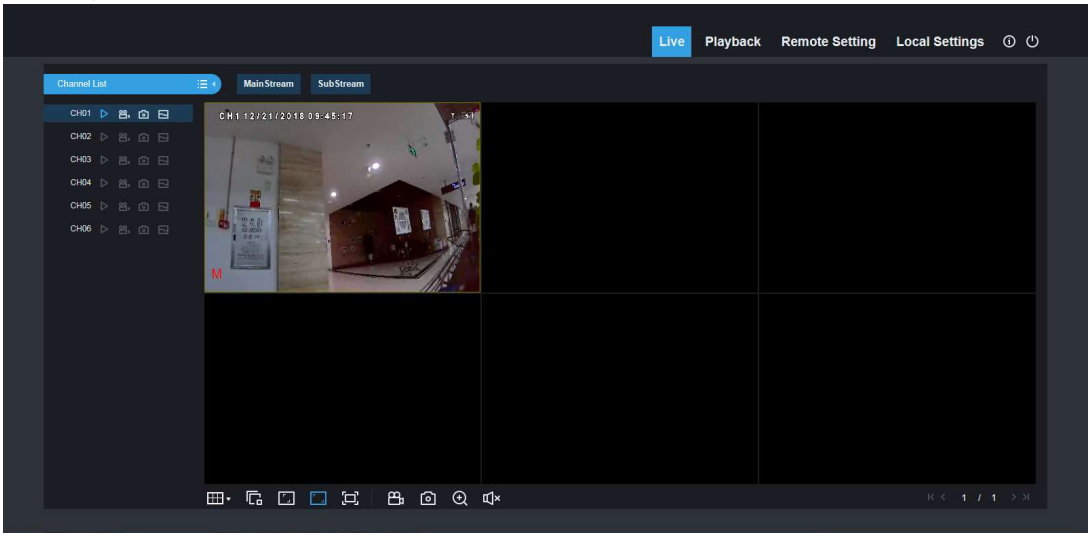


7.2 Web Client Manager

The web client supports to full control the NVR with administrator account. Please make sure to protect your user name & password to prevent unauthorized use.

7.2.1 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 a local computer manually, take snapshots of the screens, color adjustment, etc.



1. Icons on an individual camera frame:

Manual record: The recording will be automatically saved to a specified file location on the PC after the function is enabled.

Snapshot: Capture the selected live image and save it to a specified file location on the PC. The image is saved as *.bmp format.

Select display stream: Main Stream or Sub Stream.

2.Taskbar:

Select the channel view format.

Close all the Live channels.

Original proportions.

Stretch.

Full screen.

Manual Record ON or OFF.

Manual Capture ON or OFF.

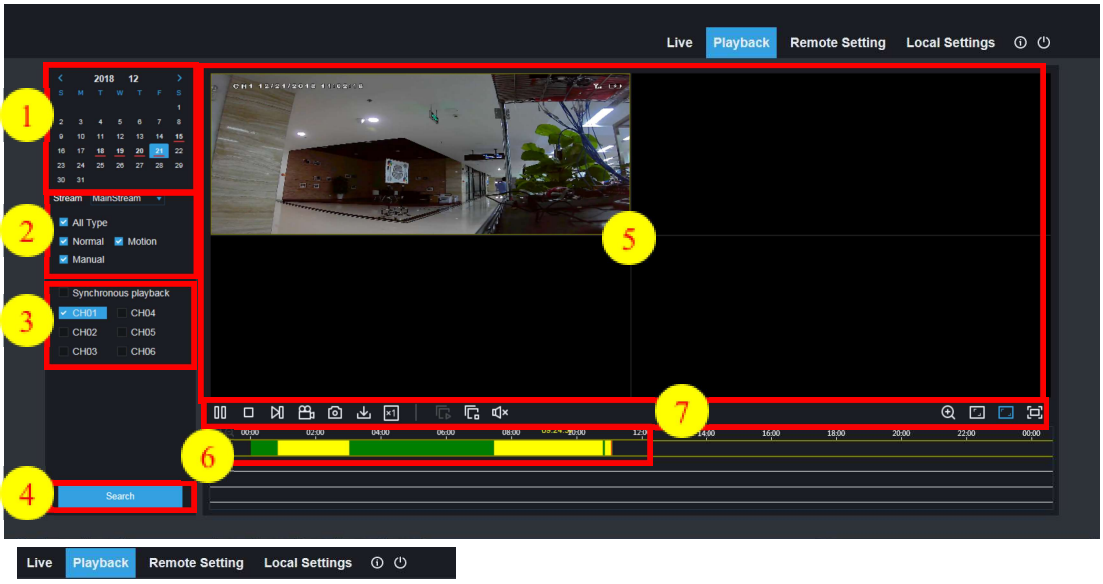
Click to maximize the selected camera to full screen. Right click and select Exit Full Screen to return to multi-camera view.

Sound ON or OFF and set sound volume .

Use the buttons in the bottom-right corner of the menu to move between pages.

7.2.2 Playback

Click **Playback** to enter Playback interface to remotely view the recorded video in NVR HDD. It supports 1 to 4 channel record playback.



To Search, Play & Back-Up:

1. Choose the date of you want to search.
2. Select the recording type/s and **Stream** type you want to search, or select **All Types** to choose all.
3. Choose the channels you want to search. Select synchronous playback if you want to watch the selected cameras playback simultaneously.
4. Click Search to start search.
5. Your search channels are displayed in this area. You can double click the left button of your mouse upon one of the channels then click to play the video immediately.
6. **Time-line:** If there is video available for the date/time of your search, the 24hr time-line will display color bars to represent the different types of recording (legend shown in the bottom-right corner of the display). Green: Normal and Manual recordings. Yellow: Motion recordings.
7. Playback control Toolbar:

Detailed brief description is shown as below list

Key	Description	Key	Description
	Play		Stop playing all the channels
	Pause		Open/Close Speaker
	Stop		Slow/Fast playing
	By frame		Slow playing 1/2,1/4, 1/8, Fast playing 1/2/4/8

	Record Clip		Digital ZOOM
	Snapshot		Original proportions
	Download		Stretch
	Open all the playback channels		Full Screen

Record file clip:

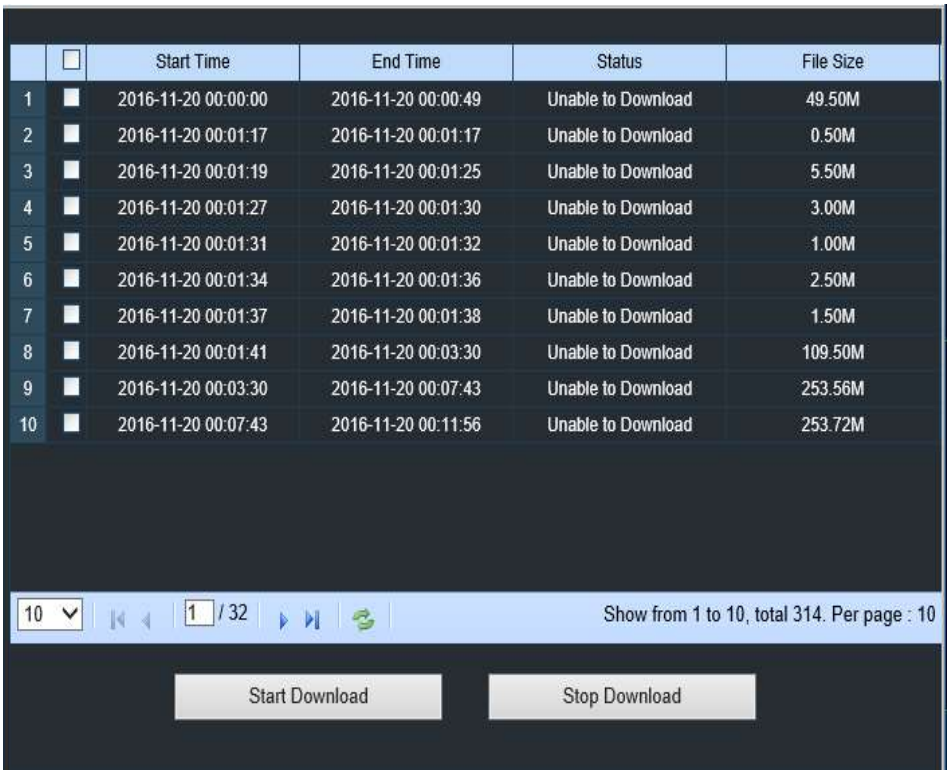
After opening playback, click icon to create and **Begin** the video clip and click again to **End** the video clip. Then playback clip is successfully done. Record clip file will be saved in the *.264 format.

Snapshot function:

Move the mouse curse to the channel you want to capture, and click
icon to capture the live image. After capturing the image successfully, you will be prompted to designate a location to save the snapshot. The captured file will be saved as .bmp format.

Record file download

Click the download icon on the control bar to display the list of available video files based on your search parameters for the selected channel/s.



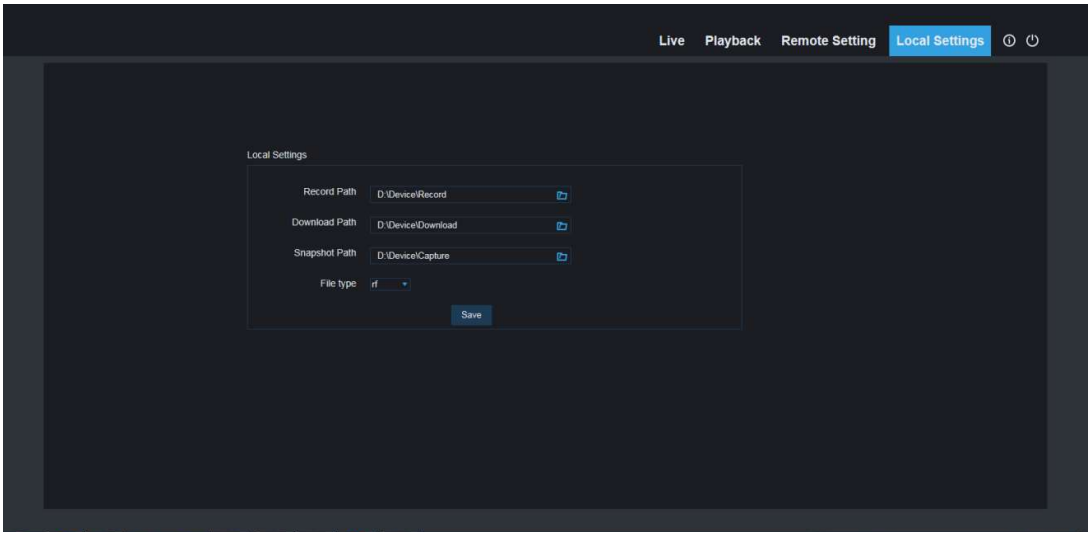
Select the files you want to download and click **Start Download**. The system will download the files in sequence and save to the local PC. The downloading file will be display the progress of the download (for example 30% - 70% -100%). After the file has downloaded “Complete” will be displayed.

Tip: The recorder supports HTTP, if there is network disconnection during the download, continue to download from the file point before disconnecting when the network recovers.

7.3.3 Remote Setting

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

7.3.4 Local Setting



Record Path: Set the path or file location to save manual recordings on your PC's local drive.
Download Path: Set the path or file location on your PC's local drive where you want to save downloaded recordings from the NVR.
Snapshot Path: Set the path or file location to save manual snapshots on your PC's local drive.
Save: Click **Save** to save the modifications.
File Type: Choose your preferred file type for manual recordings.
Interval: Determine the maximum length of manual recordings.

Chapter 8 Appendix

8.1 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 to the NVR. Be sure the data cable and power cable are securely connected to the HDD. Check if your HDD is supported by referring to the specifications or descriptions.
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 contact technical support for assistance. We strongly suggest after setting a password to write down the user-name and password and store that information in a safe place. To secure the system, create an effective password using both letters and numbers.
3. **Q**: We see abnormal video signal or no video signal when we connecting the NVR and camera. The power supply for both devices is OK. What is wrong?
   A: Check network cable connected to the NVR to see if the cable is firmly connected and if it is worn out and needs to be replaced. Check if NTSC or PAL is selected consistently.
4. **Q**: How to prevent NVR from over heating?
   A: The NVR needs to disperse the heat generated while it is running. Please operate the NVR in a place with good air circulation and away from heat sources to ensure stability and life of the NVR.
5. **Q**: The remote controller of NVR doesn't work? The monitor screen is OK and panel keys are functional. Why?
   A: Operate the remote controller by aiming the remote controller at the IR receiver on front panel. If it still doesn't work, replace the batteries in the remote controller. Inspect the remote controller for signs of physical damage.
6. **Q**: I want to take out HDD from my PC and install it in NVR. Can it work?
   A: Any HDD supported by the system can be used. However, any HDD installed into the NVR will have to be formatted by the NVR and all the existing data on your HDD will be lost.
7. **Q**: Can I playback while recording?
   A: Yes. The system supports playback while recording.
8. **Q**: Can I delete some records on HDD of NVR?
   A: You may not delete just some or part of recordings on the HDD. If you want to remove all the records, you can format HDD.
9. **Q**: Why can't I log into the NVR Web Client?
   A: Please check if the NVR is physically connected to your router with an ethernet cable. Check if the network connection settings are correct. Check if the user-name and password are correct.
10. **Q**: Why can't I find any records when I search in playback?
    A: Please check if the data cable is connected to HDD. Check the systems date and time is properly set. If the systems time is not accurate - search based on the date and time displayed in the system. Be sure to correct the systems date and time if this is the case. Try restarting the NVR. If it still doesn't work, check if the HDD has failed.

11. Q: Why doesn't dynamic detection work?
A: Please check if the motion detection schedule and motion detection region setting are correct. The motion sensitivity might be set too low. Try increasing the sensitivity.
12. Q: Why doesn't alarm work?
A: Please check if the alarm settings, alarm connection and alarm input signals are correct.
13. Q: Why does buzzer keep alarming?
A: Please check the alarm settings. If motion detection is enabled and motion is detected it will sound an audio alarm or buzzer. You can disable the buzzer. If the system alarms are enabled for HDD error, video loss etc. it will sound the buzzer. You can disable the buzzer for these alarms. We recommend leaving buzzer enabled for the HDD error, to alert you if the HDD stops working properly.
14. Q: Why can't I stop recording by pressing "STOP" button or click "Stop Recording" in context menu?
A: Pressing Stop or Stop Recording can only stop Manual Recording. If you want to stop Scheduled Recording for a time, please change the setting to No Record. To stop Start-up recording, please change the recording mode to scheduled recording or manual recording. Then you may stop recording using the options mentioned. prescribed methods. Another way to stopping recording is to set the channel status to off in the recording settings.

8.2 Usage & Maintenance

1. To shut down NVR, please shut down the system through the NVR interface and then turn off the power. Do not turn off the power directly or HDD data will be lost or damaged.
2. Please keep NVR away from heat sources or high temperature environments.
3. Keep the NVR in a well ventilated environment. Keep the NVR vents clear from dust or obstruction to ensure proper system ventilation and good heat dispersion.
4. Please check the HDD power cable and data cable regularly for signs of deterioration.
5. Please protect the NVR from electrical disturbance or interference by other electronic devices. To prevent damage to the NVR and HDD protect the NVR from static electricity, power surges and high voltage. If the network cable is frequently unplugged, it is recommended to replace the network cable regularly or the input signal may become unstable.
6. This is a class A product. It may cause interference while in use. For this situation, the user must adjust accordingly.
7. Caution:
   The battery cannot be removed without permission.
   Do not immerse the battery in water or allow it to get wet.
   Do not put the battery into a fire or apply direct heat to it.

8.3 Accessories (For reference only)

Remote Controller

Power Adapter

Warranty Card

USB mouse

CD

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