USER MANUAL

Network Video Recorder

NVR

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SAFETY INSTRUCTION

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

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

Never operate the equipment by using unspecified power supply.

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

Never push objects of any kind through openings of NVR so as to avoid electric shock or other accidents.

3. Do not put the equipment in the dusty field

Do not put the equipment in the dusty field.

4. Do not place the equipment under rain or humid environment

Do not place the equipment under humid environment like 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 NVR (do not use liquid aerosol cleaners)

6. Do not operate if any problems are found

If there are any strange smell or sound from NVR, unplug the power cable and contact the authorized dealer or service center.

7. Do not try to remove the upper cover

Warning: Do not remove the cap of NVR so as to avoid electric shock.

8. Handle with care

If NVR does not work normally because of hitting on the 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 cutting off the power supply, if the system clock cannot continue to work, please replace the standard 3V lithium battery on the main board.

Warning: Turn off NVR before replacing the batteries, or you may be suffered from serious electric shock. Please properly dispose of the used batteries.

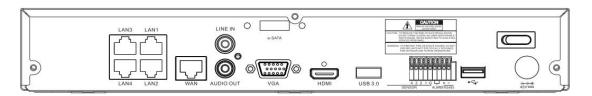
10. Put the equipment in a place with good ventilation

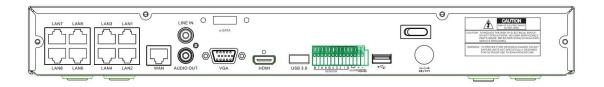
The NVR system includes HDD, which produces large amount of heat during operation. As a result, do not block the ventilation openings (on the top, bottom, both sides and the reverse side) for cooling the system during operation. Install or put the equipment in the place with good ventilation.

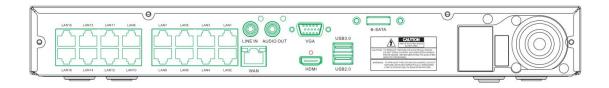
- 11. The attached power adapter can only be used for 1 set of NVR. Do not connect more equipment, or NVR may be restarted repeatedly because of insufficient power.
- 12. Prevent the equipment from water dropping or splashing. Do not place objects containing water, such as flower vase, on the equipment.

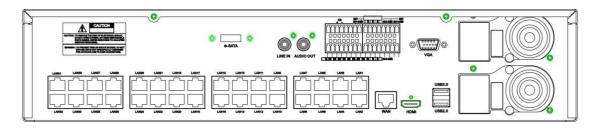
Chapter 1 Product Overview

1.1 Rear Panel



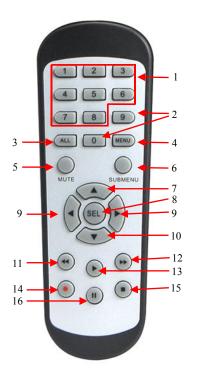






Item	Physical Port	Connection Method
1	Power Switch	Startup and shutdown
2	Power Port	Connect the attached power supply
3	USB Port	Connect USB devices, such as USB mouse and USB flash disk.
4	Sensor/Alarm	Connect to sensor or alarming device
5	HDMI Port	HDMI high definition port
6	VGA Port	Connect to VGA monitor, such as PC monitor
7	LINE IN	Intercom voice input
8	AUDIO OUTPUT	Audio signal output, RCA interface
9	WAN Port	Network input interface of the router/Connect to IP camera.
10	LAN Port	LAN network interface, support POE, can supply power to the camera.
11	E-SATA	Optional. Connect to e-SATA HDD for recording & backup

1.2 Remote Controller (For Reference Only)



N.		B
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
J		Multiple display mode
4	Menu	Press to enter or exit the Main Menu
5	Mute	Mute On/off
6	Submenu	Go to submenu
7	A	Up arrow key; Volume increase
8	SEL	Press to enter the selected menu item and
0		edit the setting
0	4 >	Left/Right key; Decrease/increase parameter
9		value of control bar.
10	▼	Down arrow key; Volume decrease
11	44	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
10		frame-playback mode

Chapter 2 NVR Installation & Connection

2.1 HDD Installation

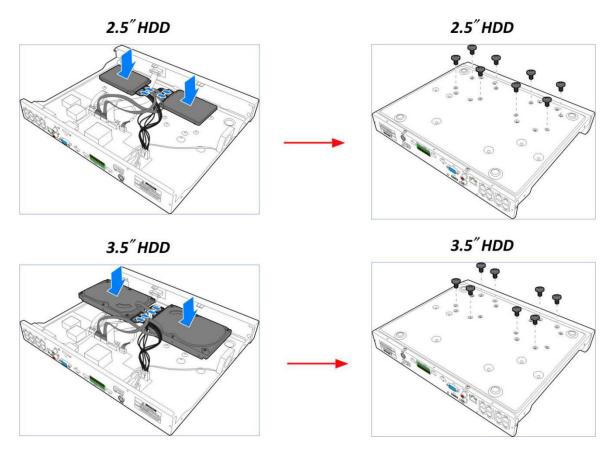
This NVR supports two 3.5" or 2.5" SATA hard disk drives.

CAUTION: DO NOT install or remove the hard disk drive while the device power is

turned ON

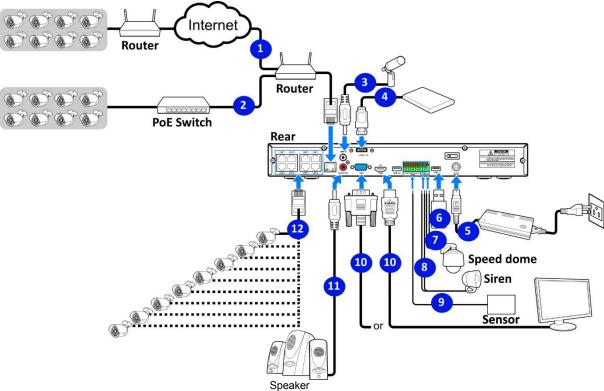
HDD Installation:

- a) Connect the data and power cables to the two hard disk drives and place the hard disk drives on the NVR case.
- b) Carefully flip the NVR case and secure the hard disk drives to the NVR with the eight (8) screws



Note: Above procedures are for reference only. The practical operation may be different depending on the NVR you purchased.

2.2 Connection Diagram

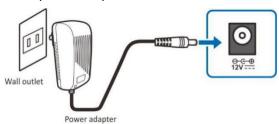


Note: Above diagram is for reference only. The practical connection may be different depending on the NVR you purchased.

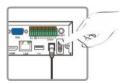
2.3 Power Supply Connection

Caution: Use only the supplied power adapter that came with the NVR

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

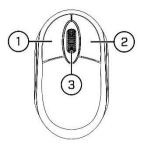


For some specific models, you may need to press the Power switch to turn on the power.



Chapter 3 NVR Common Operations

3.1 Using the Supplied Mouse



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.
- o Click upon 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
- o In menus, click to go back / close menus.

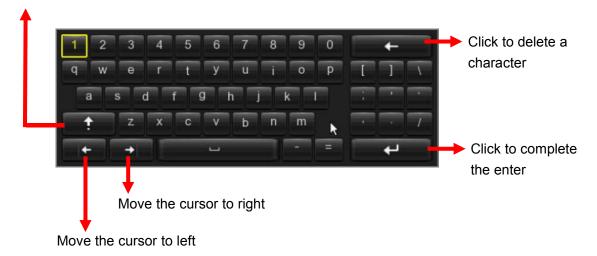
3. Scroll Wheel:

- 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

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

Click to toggle the keyboard to upper case and more punctuation



3.3 Password

For the first time when you run the NVR, you must be required to set your own password immediately in order to protect your privacy. Please be sure to record your username and password and save them in a secure place.



Language: Choose an OSD language

Device ID: Input the device ID in the parentheses. Default ID is 000000. View more about Device ID on <u>5.6.1 General</u>.

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.

Corfirm Password: Enter your own password again.

Click **Apply** to confirm your settings and goes to the login interface. 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 Wizard

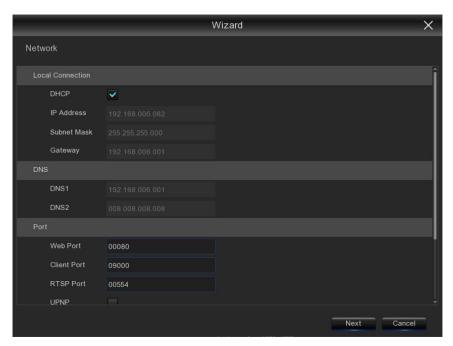
Startup Wizard will help to configure the system and get the NVR works quickly.

4.1.1 Start Wizard

Click the Start Wizard to proceed to the next step



4.1.2 Network Configuration



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

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

Subnet Mask: Subnet mask is a network parameter which defines a range of IP addresses that can be used in a network. If IP address is like a street where you live then subnet mask is like a 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 NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, "192.168.001.001".

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

Port

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

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

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

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

4.1.3 Date/Time

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

Date and Time

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



Date: 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 synchronize the date and time automatically on the NVR over Internet. Therefore, the NVR needs to be connected to the Internet.



Check the "NTP" box, and select the NTP server.

DST

DST stands for Daylight Savings Time.



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

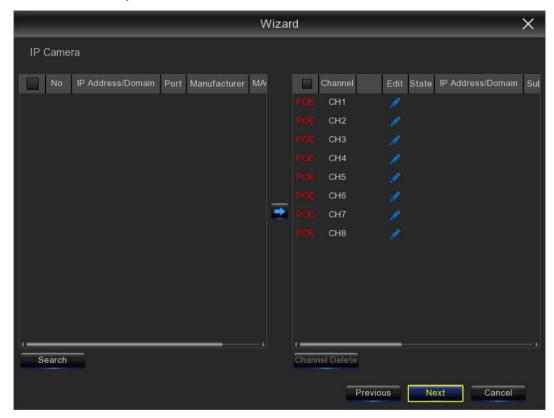
Time Offset: Select the amount of time to offset for DST

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

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

4.1.4 IP Camera

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

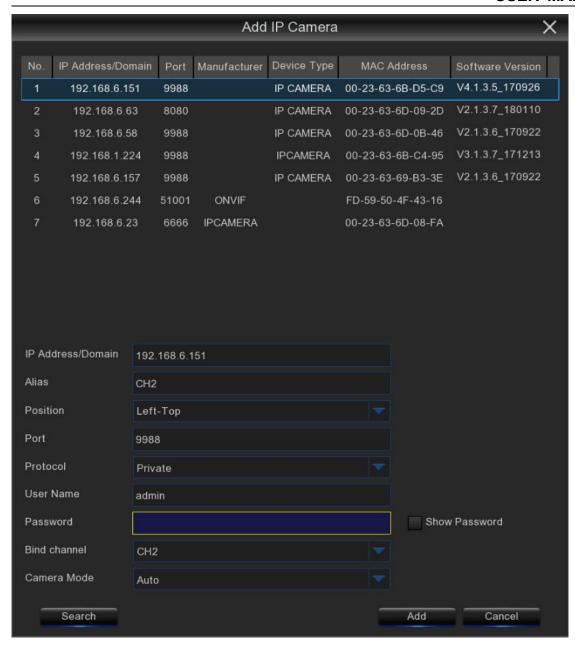


Click **Search** to search IP cameras in the same network. Choose the IP camera(s) you want to add, and then click icon to add to the NVR.



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

You can also click **①** button to add individual IP camera to a single channel.



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

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

Alias: Name of the IP camera

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

Port: Port of the IP camera

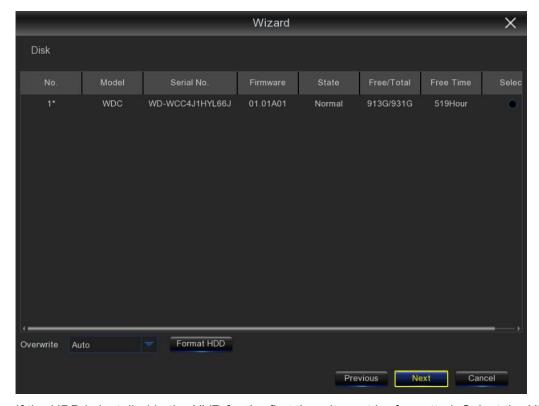
Protocol: Choose the protocol of the IP camera from the dropdown menu

User Name: User Name of the IP camera **Password:** Password of the IP camera

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

Camera Mode: The default is automatic mode, optional Normal and Fisheye.

4.1.5 Disk

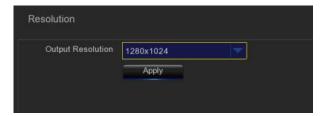


If the HDD is installed in the NVR for the first time, it must be formatted. Select the HDD and then click **Format HDD** button to format the HDD.

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 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 matches to your monitor. The NVR supports to adjust the output resolution automatically to match the best resolution of your monitor when the system is starting up.



4.1.7 Mobile

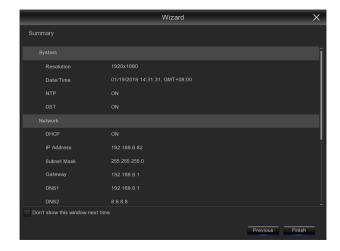
If your NVR come with a P2P ID, you can scan the QR code with your mobile app to view the NVR remotely.



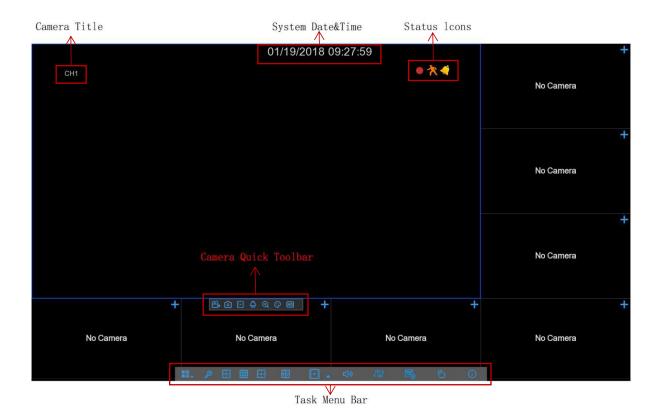
4.1.8 Summary

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 Start Wizard when system reboot next time. Click Finish button to save & exit.



4.2 Live View Screen Overview



Camera Title

To display the camera title

Status Icons

This indicates that the NVR is currently recording.

This icon appears when the camera has detected motion.

The icon indicates that the external I/O alarm device is triggered

This icon indicates that the HDD is in error to work

This icon indicates the HDD is unformatted

This icon indicates the HDD is full.

This icon indicates the HDD is read-only.

VIDEO LOSS: The analog camera is disconnected.

No Camera: IP camera is disconnected.

+ Click to open Quick Add menu to add IP camera

Click to edit current IP camera

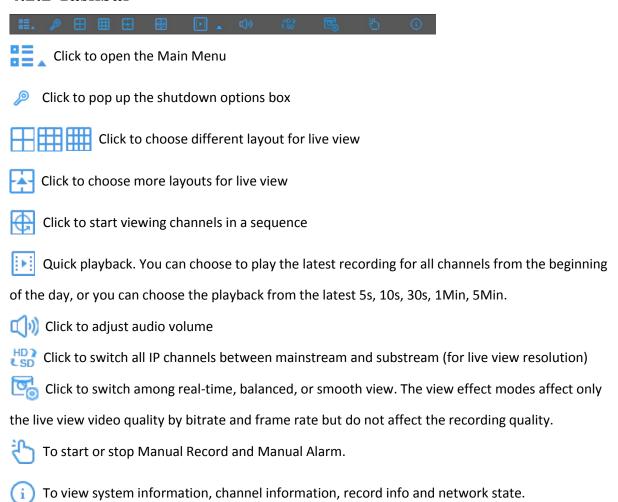
4.2.1 Camera Quick Toolbar

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 the manually recording is in process, the icon will be in red color. Click one more time to stop manual record.
- 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 the 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 image color of the channel. You can adjust the HUE, BRIGHT, CONTRAST & SATURATION of the image.
- To switch the live view video stream between HD & SD. HD is mainstream live view, SD is substream live view.

4.2.2 Taskbar



4.2.3 Shutdown



Click the **Shutdown** button from Taskbar, and the check the further action you want to move. Click **OK** button, system will require to input the Admin password to authenticate.



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



Chapter 5 NVR System Setup

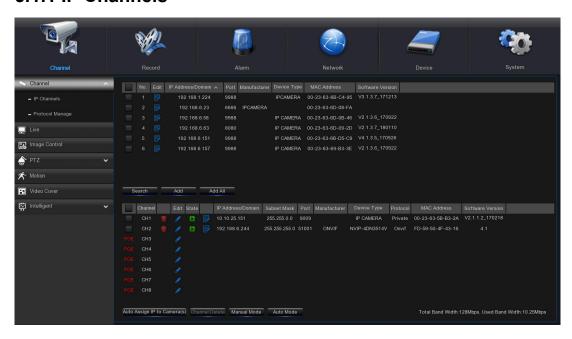
You are able to configure the NVR for Channel, Record, Alarm, Network, Device & System from Taskbar → Setup.



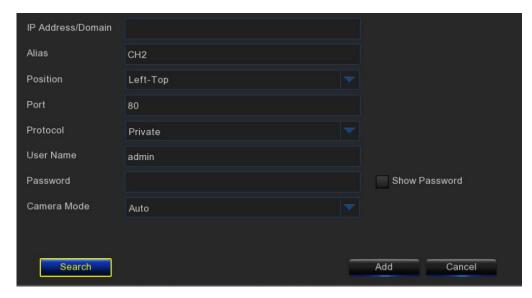
5.1 Channel

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

5.1.1 IP Channels



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



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 drop down menu

User Name: User Name of the IP camera

Password: Password of the IP camera

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

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

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

Manual Mode: When set to Manual Mode, the user can delete or add the network IPC.

Auto Mode: When set to Auto Mode, the channel automatically connects to the IPC on all POE interfaces of the NVR. The user cannot delete or add the network IPC to the channel.

5.1.2 Protocol Manage

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



Custom Protocol: The system support max. 16 custom protocol options.

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

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

Type: Only RTSP available now.

Port: Input the RTSP port of your IP camera.

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

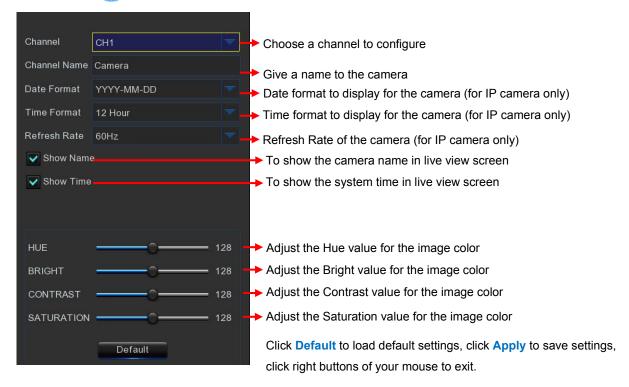
5.1.2 Live

To configure camera parameters.



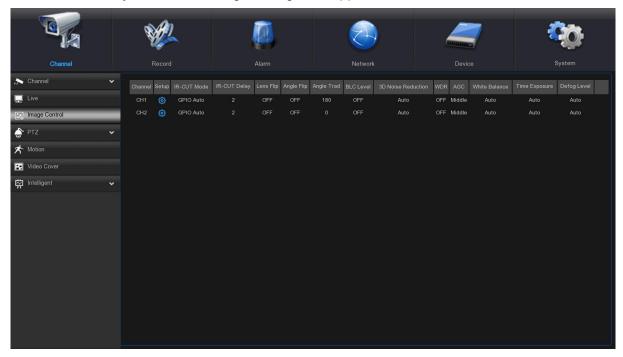
Channel: Display channel name.

Setup: Click 6 icon into the setup page.



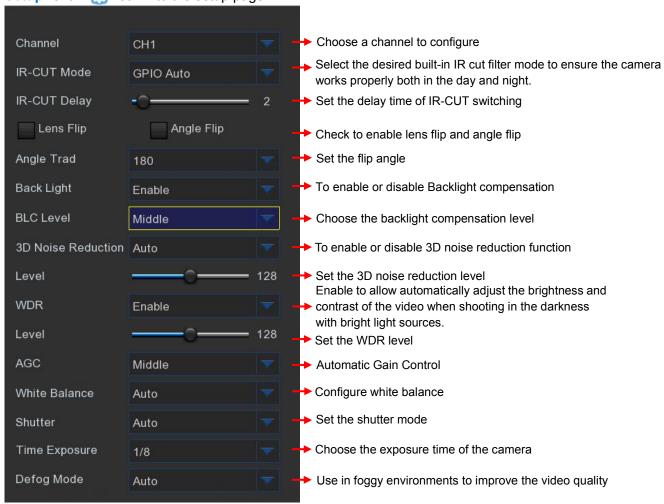
5.1.3 Image Control

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



Channel: Channel name.

Setup: Click [6] icon into the setup page.



5.1.4 PTZ

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



Channel: Channel name

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

Protocol: Choose the communication protocol between the PTZ capable camera and NVR.

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

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

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

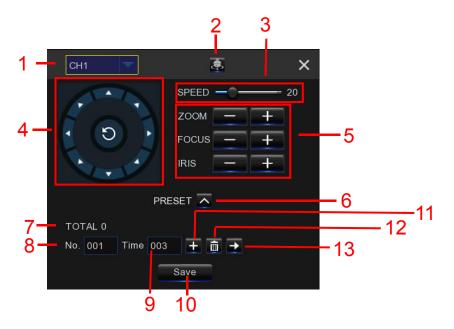
Cruise: Enable to use the Cruise mode. In order to use the Cruise mode, you need to set a number of preset points.

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

5.1.4.1 PTZ control

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

- 1) Click left your mouse upon a channel on Live Viewing screen to open <u>Camera Quick Toolbar</u>, and choose the PTZ control icon .
- 2) PTZ control panel will be displayed.

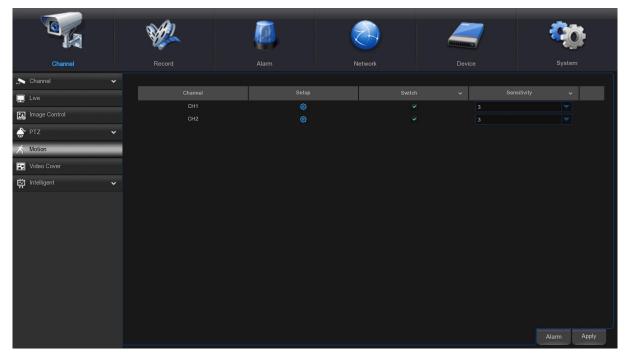


No.	Icon	Item	Description
1	CH2 V	Channel	Click to select the channel of the PTZ camera.
2		Cruise	Start / stop PTZ cruise by preset points. Make sure you had enable the Cruise function for this channel in <u>5.1.4 PTZ</u> .
3	Speed	Speed	Adjust the PTZ speed
4	0	Pointer Panel	A) Click the direction 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
	- ZOOM +	Zoom	Click to zoom in/out.
5	- FOCUS +	Focus	Click to adjust the focus
	- IRIS +	Iris	Click to adjust the iris setting
6	~	PRESET	To display or hide the preset point panel
7	Total	Total	Display the total number of preset points
8	No.	No.	Number of preset point
9	Time	Time	Set the time how long the camera will stay in the preset point
10	Save	Save	Click to save the settings and preset points

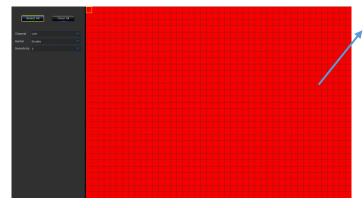
11	+	set	Enter the number of a specific preset point, click this button to move your PTZ camera to the preset point
12	ā	Delete	Click to delete the selected preset point
13	→	Go to	Click to set a specific preset point on a PTZ camera. You can add up to 255 preset points for the NVR.

5.1.5 Motion

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



Setup: Click [6] icon into the setup page.



Switch: Enable or disable motion detection.

Motion Detection Area:

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

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

5.1.6 Alarm

Click Alarm button to configure the motion detection alarm function:



Channel: Channel name

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

Alarm Out: Optional function. If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

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

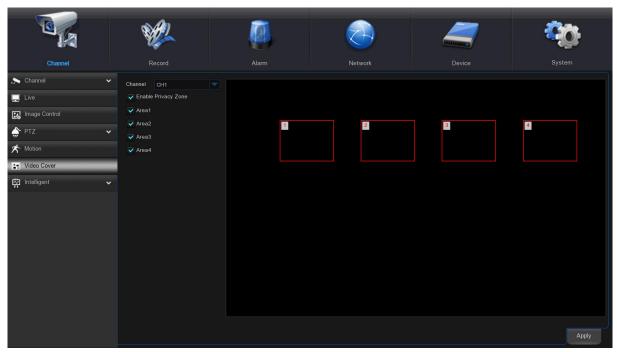
Show Message: Check the box to display icon on the live view screen when the motion is detected.

Send Email: You can let the NVR to send you an auto-email when the motion is detected. **Full Screen**: If this function is enabled and a motion is detected in a channel, you will see that channel in full screen.

FTP Upload: To upload alarm images to FTP server when motion is detected. To enable FTP, please view <u>5.4.4 FTP</u>.

5.1.7 Video Cover

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



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

5.1.8 Intelligent

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



5.1.8.1 PID (Perimeter Intrusion Detection)

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



Channel: Select the channel you want to configure

Switch: Enable or disable the PID function

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

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

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

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

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

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

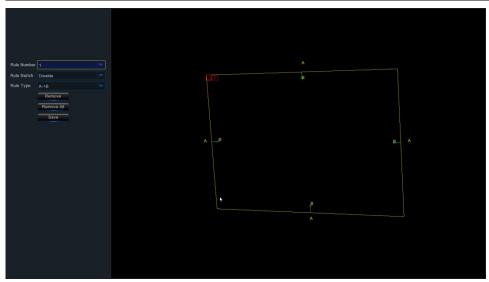
Show Message: A letter "S" will be displayed on the screen when the PID function is triggered.

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

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

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

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

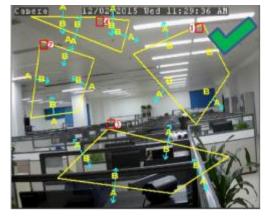


- 1. Choose one of the Rule Number. It is the number of PID area. Maximum 4 areas you can set for PID function.
- 2. To enable the detection in **Rule Switch**.
- 3. Choose a **Rule Type**.
 - A→B: NVR will only detect the action from side A to side B;
 - B A: NVR will only detect the action from side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

Notice:

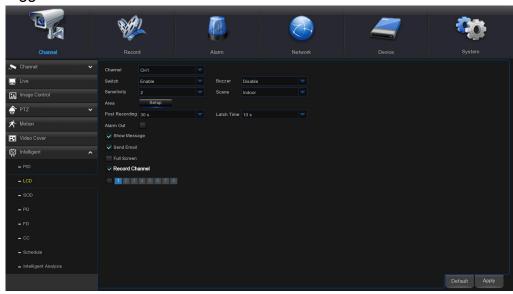
- 1) The perimeter shall not be too close to the edges/corners of the camera picture, since it may fail to trigger the detection when the target pass through the edges/corners.
- 2) The shape of the regions shall not be too narrow/small, since it may fail to trigger the detection when the target passes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





5.1.8.2 LCD (Line Crossing Detection)

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



Channel: Select the channel you want to configure

Switch: Enable or disable the LCD function

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

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

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

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

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

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

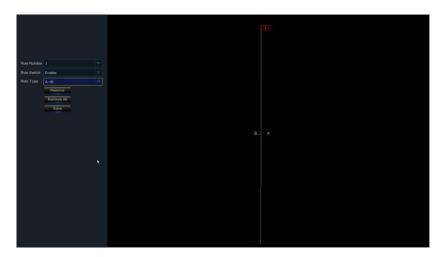
Show Message: A letter "S" will be displayed on the screen when the LCD function is triggered.

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

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

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

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



- 1. Choose one of the Rule Number. It is the number of LCD lines. Maximum 4 lines you can draw.
- 2. To enable the detection in Rule Switch.
- 3. Choose a Rule Type.

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

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

 $A \stackrel{\leftarrow}{\rightarrow} B$: NVR will detect the action from either side B to side A or side A to side B.

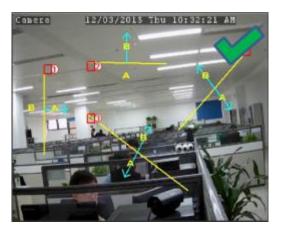
- 4. Use your mouse to click 2 points in the camera picture to draw a virtual line.
- 5. Click **Save** to save your settings.
- 6. If you want to modify the position or length of the line, click the red box in the line, the color of the line will be changed to red color. Long press the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.
- 7. If you want to remove one of the lines from the camera picture, click the red box in the line and then click **Remove** button. Click **Remove All** will delete all lines.

Notice:

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

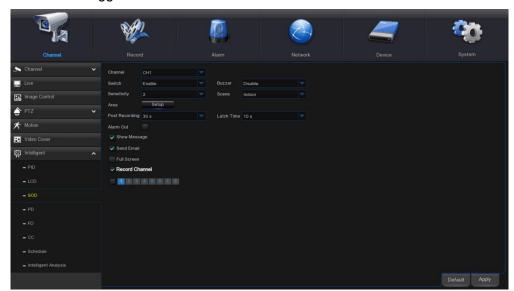
2) The lines shall not be set too short, to avoid any failure to trigger an alarm when the target passes outside it.





5.1.8.3 SOD (Stationary Object Detection)

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



Channel: to select the channel you want to configure

Switch: to enable or disable the SOD function

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

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

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

Post Recording: You can set how long after an event occurs that the NVR will continue to record. **Latch Time**: To configure the external alarm time when the detection is triggered. Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

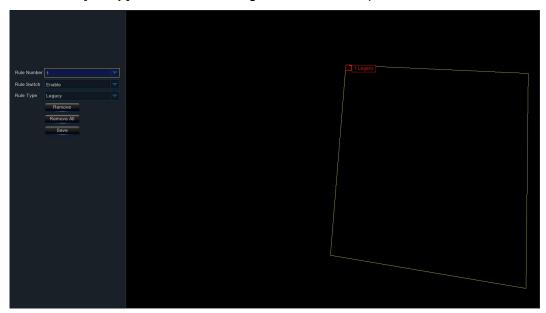
Show Message: A letter "S" will be displayed on the screen when the intelligent detection is triggered.

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

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

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

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



- 1. Choose one of the Rule Number. It is the number of SOD area. Maximum 4 areas you can set for SOD function.
- 2. To enable the detection in **Rule Switch**.
- 3. Choose a Rule Type.

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

Lost: NVR will only detect the lost objects;

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

- 4. Use your mouse to click 4 points in the camera picture to draw a virtual region. The sharp of the region should be a convex polygon. Concave polygon will be not able to save.
- 5. Click **Save** to save your settings.
- 6. If you want to adjust the size of the region, click the red box in the region, the borders of the region will be changed to red color. Long press the left button of your mouse to move the whole region, or drag the corners to resize the region.
- 7. If you want to remove one of the regions from the camera picture, click the red box in the region and then click **Remove** button. Click **Remove All** will delete all regions.

Notice:

1) The area for detection shall be greater than or equal to the size of the detected object, such as the detection of a white bottle.

2) The detected object cannot be covered.

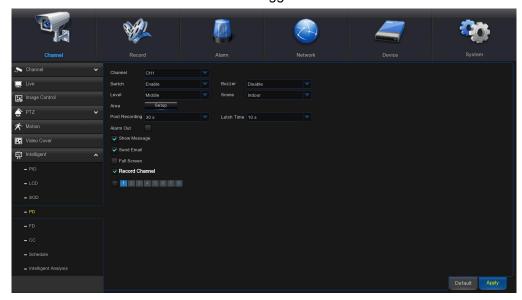






5.1.8.4 PD (Pedestrian Detection)

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



Channel: to select the channel you want to configure

Switch: to enable or disable the PD function

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

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

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

Post Recording: You can set how long after an event occurs that the NVR will continue to record.Latch Time: To configure the external alarm time when the detection is triggered.

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

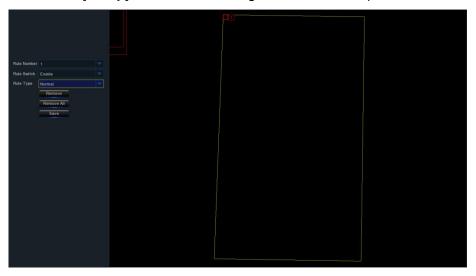
Show Message: A letter "S" will be displayed on the screen when the intelligent detection is triggered.

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

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

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

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



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

Notice:

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

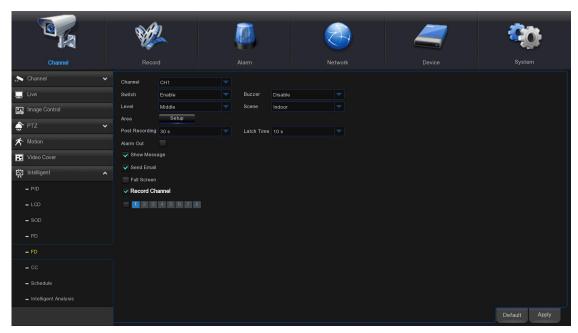






5.1.8.5 FD (Face Detection)

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



Channel: to select the channel you want to configure

Enable: to enable or disable the FD function

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

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

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

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

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

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

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

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

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

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

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

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

Notice:

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

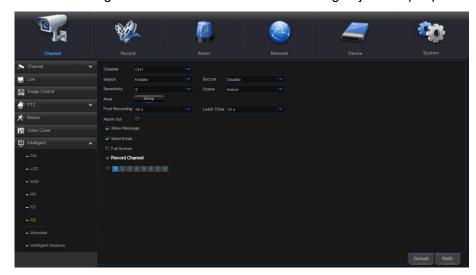






5.1.8.6 CC (Cross-Counting)

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



Channel: to select the channel you want to configure

Switch: to enable or disable the CC function

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

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

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

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

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

Alarm Out: If your NVR support to connect to external alarm device, you can set to emit an alarm tone.

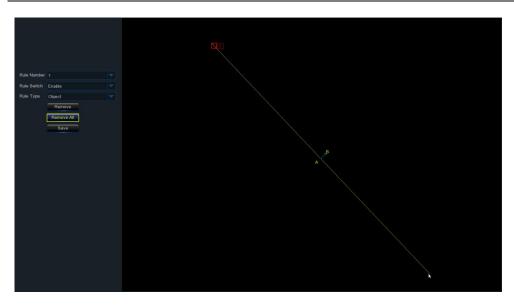
Show Message: A letter "S" will be displayed on the screen when the intelligent detection is triggered.

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

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

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

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



- Choose one of the Rule Number. It is the number of virtual lines you can draw. Maximum 4 lines.
- 2. To enable the detection in **Rule Switch**.
- 3. Choose a Rule Type

Object: Will count for only moving objects.

Pedestrian: Will count only moving people.

- 4. Use your mouse to click 2 points in the camera picture to draw a virtual line. From Side A to Side B is Enter, from Side B to Side A is Exit.
- 5. Click **Save** to save your settings.
- 6. If you want to modify the position or length of the line, click the red box in the line, the color of the line will be changed to red color. Long press the left button of your mouse to move the line, or drag the terminals to modify the length or position of the line.
- 7. If you want to remove one of the lines from the camera picture, click the red box in the line and then click **Remove** button. Click **Remove All** will delete all lines.

Notice:

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



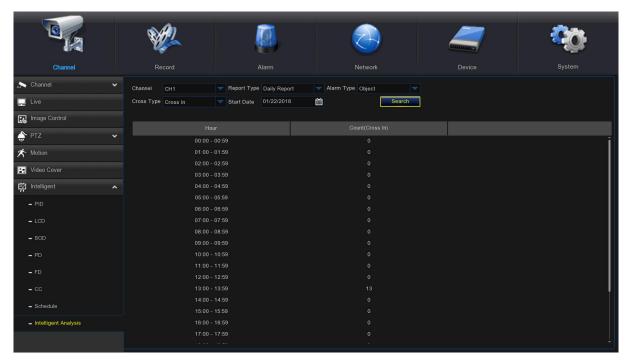






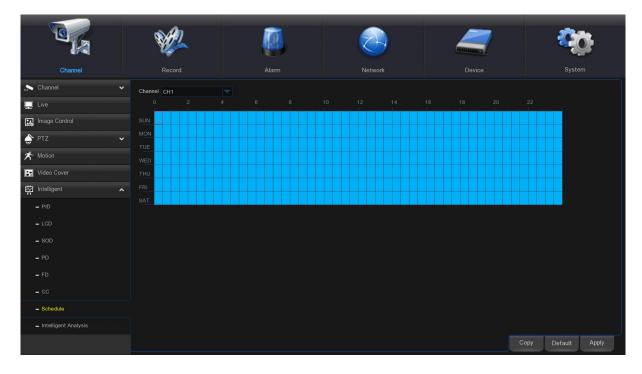
You are able to search & view the statistical result of cross counting in **5.1.8.7 Intelligent Analysis**.

5.1.8.7 Intelligent Analysis



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

5.1.8.8 Intelligent Schedule



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

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

5.2 Record

This menu allows you to configure the recording parameters

5.2.1 Encode

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



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

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

Video Encode Type: For IP camera only. NVR support H.264 and H.265.

Bitrate Control: Select the bitrate level. For a simple scene, such as a gray wall is suitable constant bitrate (**CBR**). For more complex scene, such as a busy street is suitable variable bitrate (**VBR**).

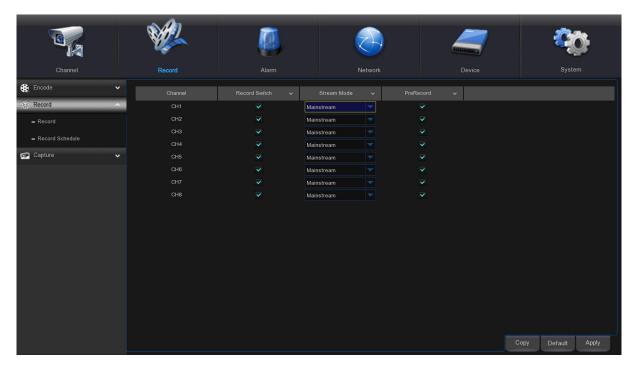
Bitrate Mode: If you want to set the bitrate by yourself, then choose **User-defined** mode. If you want to select the predefined bitrate, choose **Predefined** mode.

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

5.2.2 Record

This menu allows you to configure the channel recording parameters.

5.2.2.1 Record



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

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

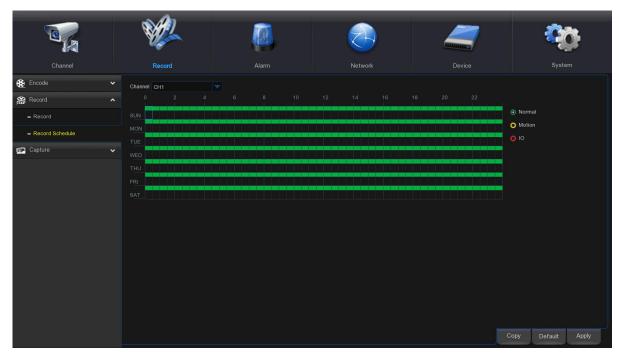
PreRecord: If this option is enabled, the NVR starts recording a few seconds before an alarm event occurs. Use this option if your primary recording type is motion or I/O alarm based.

5.2.2.2 Record Schedule

This menu allows you to specify when the NVR records video and defines the recording mode for each channel. The recording schedule lets you set up a schedule like, daily and hourly by normal (continuous) recording, motion recording, I/O alarm recording & PIR recording (if your NVR 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.

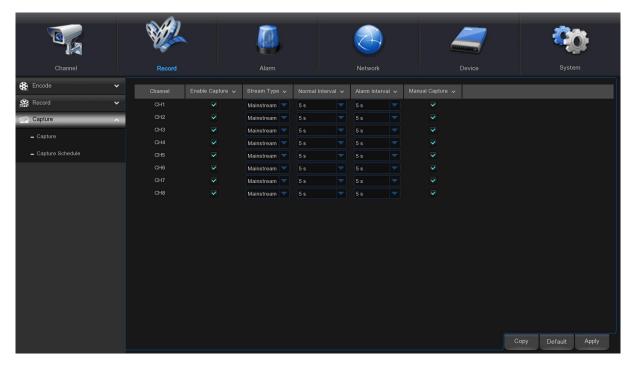
IO: When the time slot is marked red, this indicates the channel records only when the sensor is triggered during that time slot.

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

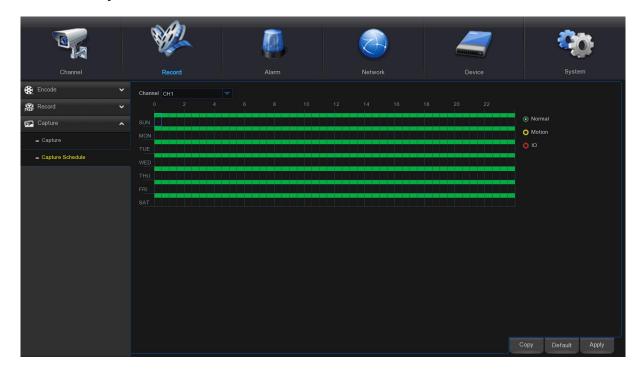


Enable Capture: Enable or disable automatic capturing on the channel. **Stream Type**: Select the image resolution by mainstream or substream. **Normal Interval**: Time interval to capture an image in normal recording.

Alarm Interval: Time interval to capture an image when motion, IO alarm 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.

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 NVR supports sensor I/O, you connect external sensor I/O alarm devices to work with the NVR.



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 NVR 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: Tick to enable external alarm device to emit an alarm tone when a sensor is triggered. **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 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.



Switch: Enable or disable the PTZ linkage function.

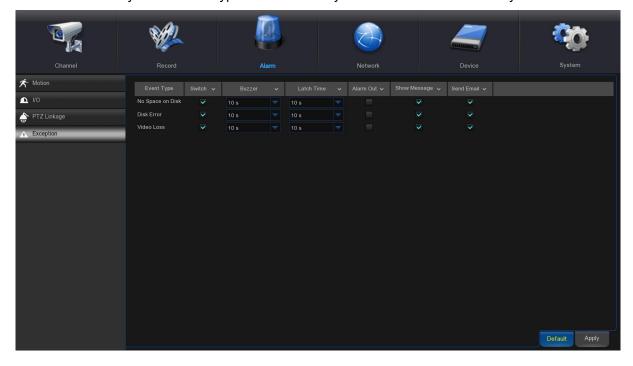
Motion: Motion detection alarm will trigger the PTZ linkage function it is checked.

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 <u>5.1.4.1</u>
PTZ control.

5.3.4 Exception

This menu allows you to set the type of events that you want the NVR 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. Determine how long the external alarm device to sound (10s, 20s, 40s, 60s) if your NVR support to connect external alarm device.

Alarm Out: This is an optional function. Click to enable the external alarm device to sound. This is an optional function.

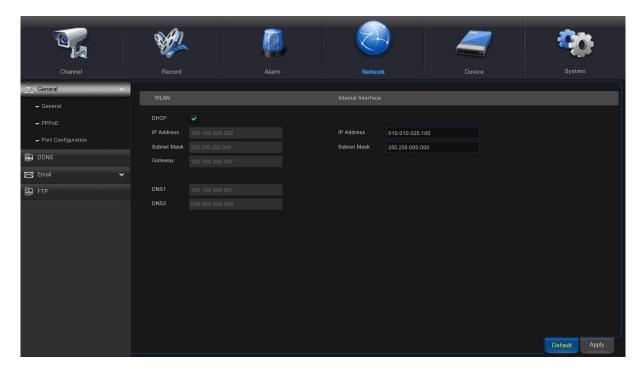
Show Message: Check the box to display a message on the screen when No Space on Disk, Disk Error, or Video Loss event happens.

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

5.4 Network

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

5.4.1 General



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

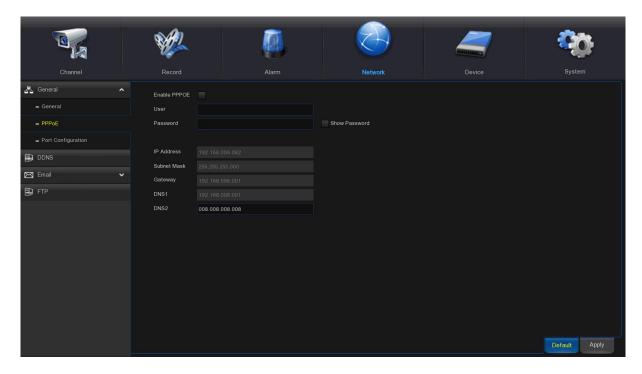
IP Address: The IP address identifies the NVR in the network. It consists of four groups of numbers between 0 to 255, separated by periods. For example, "192.168.001.100".

Subnet Mask: Subnet mask is a network parameter which defines a range of IP addresses that can be used in a network. If IP address is like a street where you live then subnet mask is like a 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 NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, "192.168.001.001".

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

5.4.1.1 PPPoE

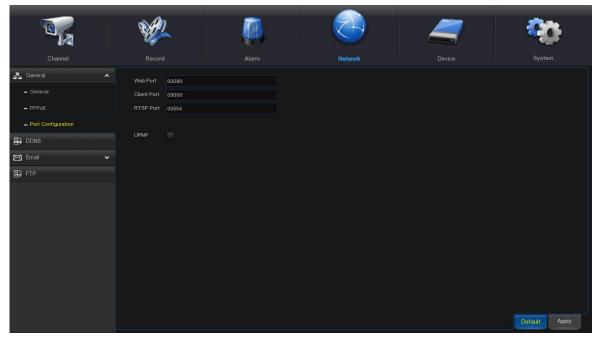


This is an advanced protocol that allows the NVR to connect to the network more directly via DSL modem.

Check the "Enable PPPOE" box, and then enter the User name & Password of the PPPoE.

Click Apply to save, system will reboot to active the PPPoE setting.

5.4.1.2 Port Configuration



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

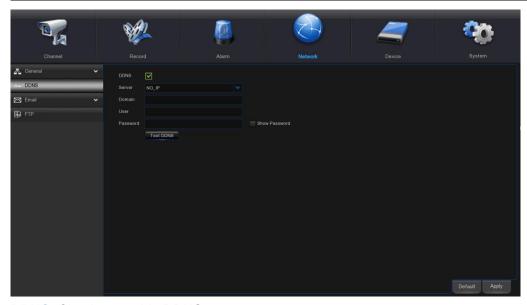
Client Port: This is the port that the NVR will use to send information through. If the default port 9000 is already taken by other applications, please change it.

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

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

5.4.2 DDNS

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



DDNS: Check to enable DDNS.

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

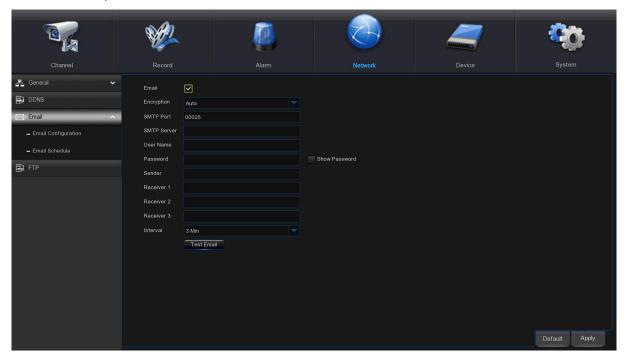
Domain: Enter the domain name you created on the DDNS service provider's web page. This will be the address you type in the URL box when you want to connect remotely to the NVR via PC. Fox example: NVR.no-ip.org.

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

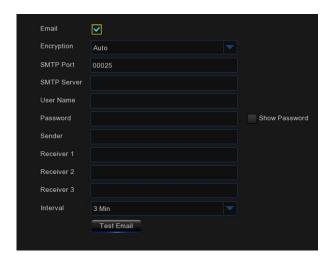
After all parameters are entered, click **Test DDNS** to test the DDNS settings. If the test result is "Network is unreachable or DNS is incorrect", please check whether the network works fine, or the DDNS information is correct or not.

5.4.3 Email

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



5.4.3.1 Email Configuration



Email: Check to enable.

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

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

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

User Name: Enter your email address.

Password: Enter the password of your email.

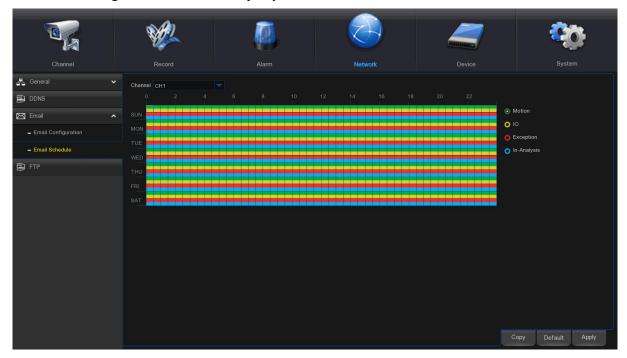
Receiver 1~3: Enter the email address where you want to receive the event notifications from the NVR.

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

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

5.4.3.2 Email Schedule

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



The color codes on email schedule have the following meanings:

Green: Slot for Motion detection.

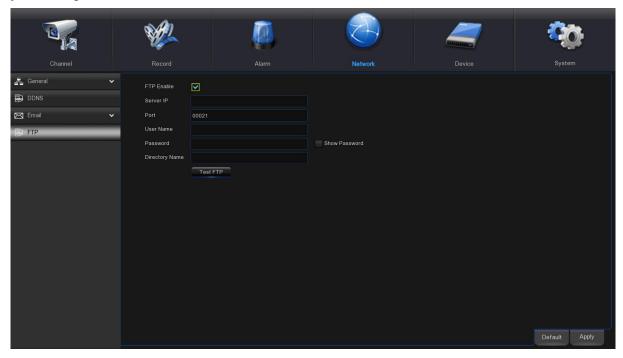
Yellow: Slot for I/O Alarm (optional).

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

Blue: Slot for Intelligent Analysis detection.

5.4.4 FTP

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



FTP Enable: Click to enable FTP function.

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

Port: Enter the FTP port for file exchanges.

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

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

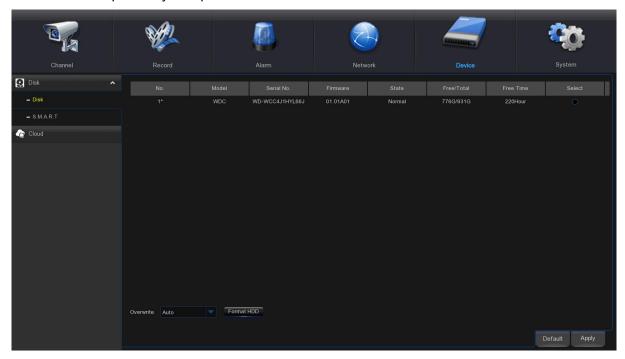
Test FTP: Click to test the FTP settings.

5. 5 Device

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

5. 5.1 Disk

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

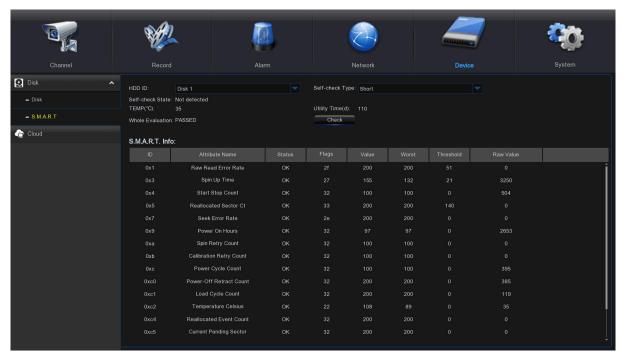


Format HDD: Select the HDD you want to format and then click **Format HDD**. To start formatting, you need to enter your user name and password and then click **OK** to confirm to continue formatting.

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

5.5.2 S.M.A.R.T

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



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

Self-check Type: There are three types available:

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

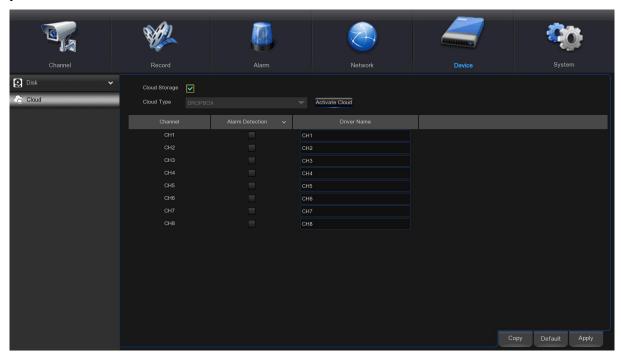
Long: This is a longer test that verifies the above as well as performing a surface scan to reveal problematic areas (if any) and forces bad sector relocation

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

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

5.5.3 Cloud

Your NVR 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.



Before activating the cloud function, we recommend that you create a Dropbox account using the same email address and password used for your NVR. 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 a motion or triggered by I/O alarm.

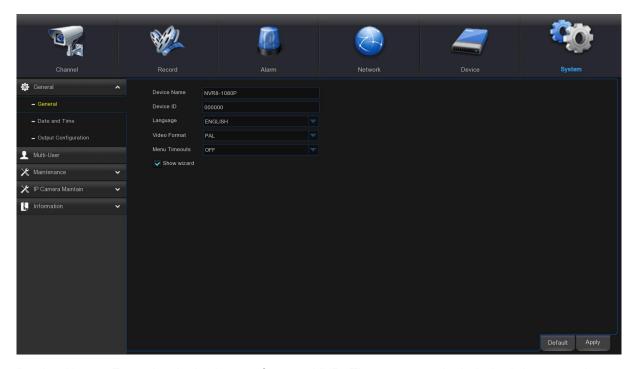
Drive Name: Enter the cloud storage name for your NVR.

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 <u>5.4.3 Email</u>). Check your email then click the link to activate. You will be taken to the Dropbox website. Click "Allow" to finalize 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



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

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

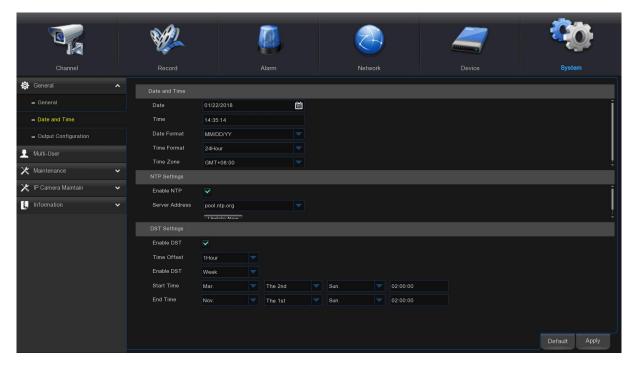
Language: Select a language you would like the system menus to be displayed in. Multiple languages are available.

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

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

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

5.6.1.1 Date and Time



Date & Time

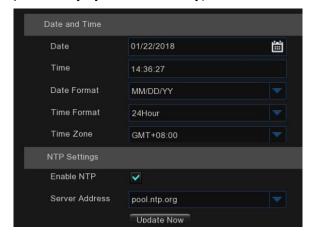
Date: Click the calendar icon to change the date.Time: Click the dialogue box to change the time.Date Format: Select the preferred date format.

Time Format: Select the preferred time format.

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

5.6.1.2 NTP Settings

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



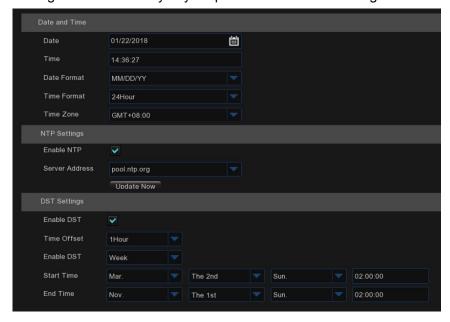
Check to enable the **NTP**, and select a **Server Address**, click Update Now to manually sync the date & time.

Click Apply to save your settings.

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

5.6.1.3 DST Settings

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



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

Time Offset: Select the amount of time that Daylight Saving has increased by in your time zone.

This refers to the difference in minutes, between Coordinated Universal Time (UTC) and the local time.

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

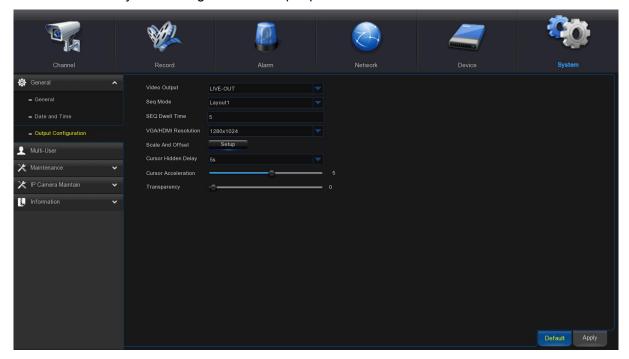
Week: Select the month, a particular day and time when Daylight Saving starts and ends. For example, 2 a.m. on the first Sunday of a particular month.

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

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

5.6.2 Output Configuration

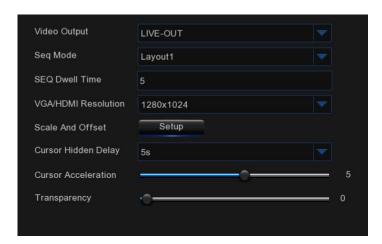
This menu allows you to configure video output parameters.



Video Output: To choose the output options:

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

5.6.2.1 LIVE-OUT



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

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

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

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

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



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

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

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

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

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

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

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

5.6.3 Multi-user

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

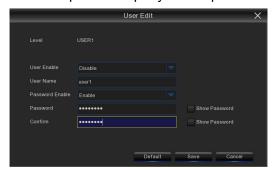


The system supports the following account types:

- 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

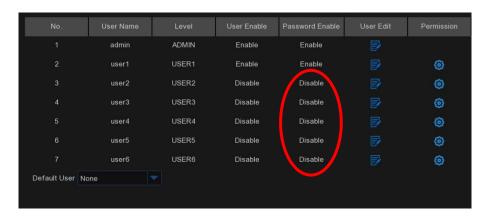
To change the password for the administrator or user accounts, click the User Edit icon password has to be a minimum of 8 characters and can contain a mixture of numbers and letters. Enter your new password again to confirm, and then click **Save** to save your new password. You will be required to input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



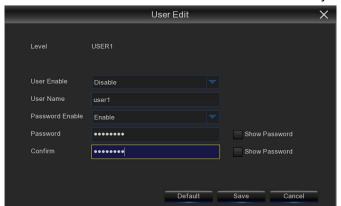


Password Enable: It's strongly recommended to enable the password to protect your privacy. If you want to disable the password protection, please ensure your NVR is placed in a secure place.

5.6.3.2 Add New Users



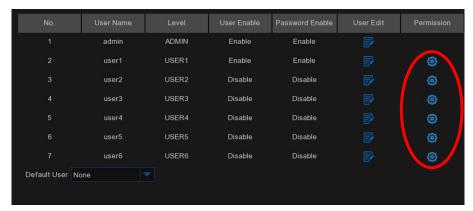
1. Select one of the user accounts that is currently disabled, click the User Edit icon ...



- 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.



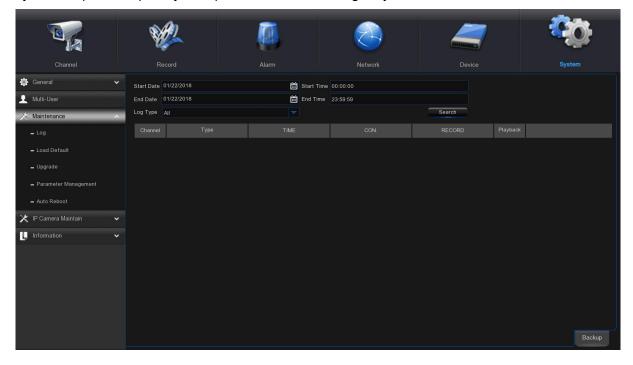
Click the edit icon under Permission tab.



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

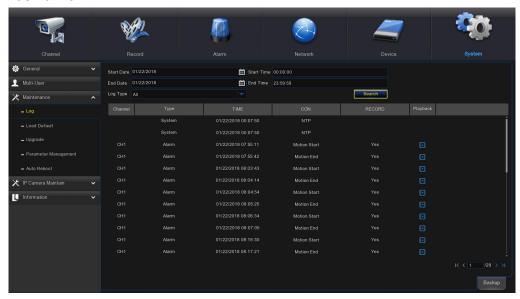
5.6.4 Maintenance

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



5.6.4.1 Log

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



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 K < / > > 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 derive has been connected to the NVR's USB port.
- 7. The backup drive menu appears. Navigate to the folder you want the backup file to be saved in, then click **OK** to begin.

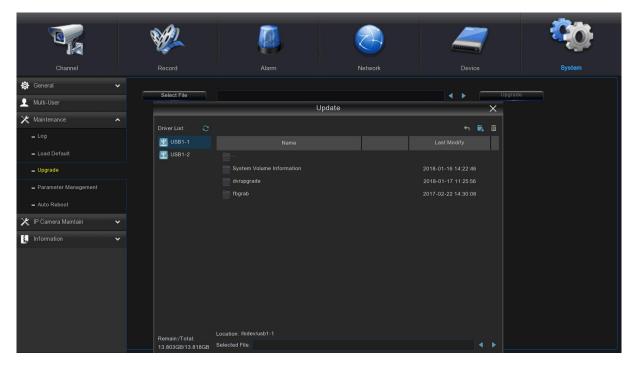
5.6.4.2 Load Default

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



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

5.6.4.3 Upgrade



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

5.6.4.4 Parameter Management

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

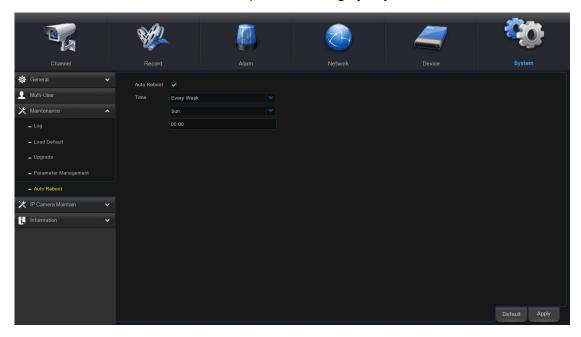


Save Settings: Click to save the NVR current system settings to the USB device. You will be required to input the Admin password to authenticate.

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

5.6.4.5 Auto Reboot

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

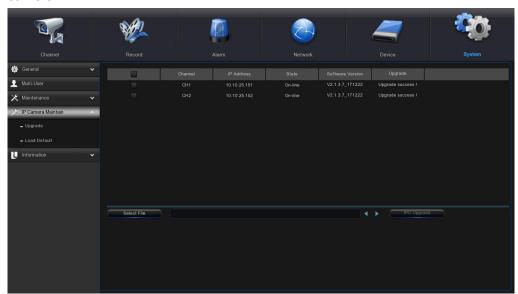


Auto Reboot: Check to enable.

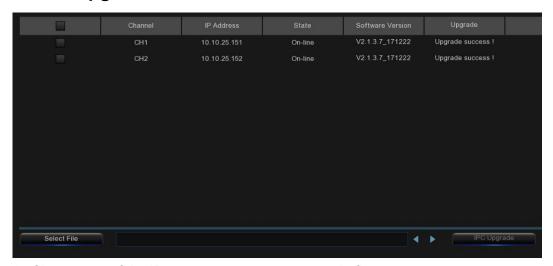
Time: You can set the NVR to reboot by day, week or month.

5.6.5 IP Camera Maintain

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

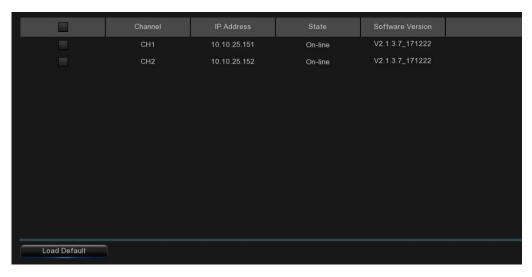


5.6.5.1 Upgrade IP Camera



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

5.6.5.2 Load Default Settings for IP Camera



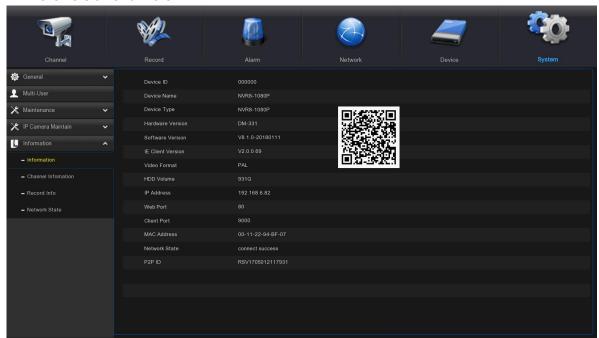
- 1. Choose the IP cameras you want to restore.
- 2. Click **Load Default** to restore settings. You will be required to input the Admin password to authenticate.

5.6.6 System Information

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

5.6.6.1 Information

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



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

5.6.6.2 Channel Information



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



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

5.6.6.4 Network State



View network information.

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

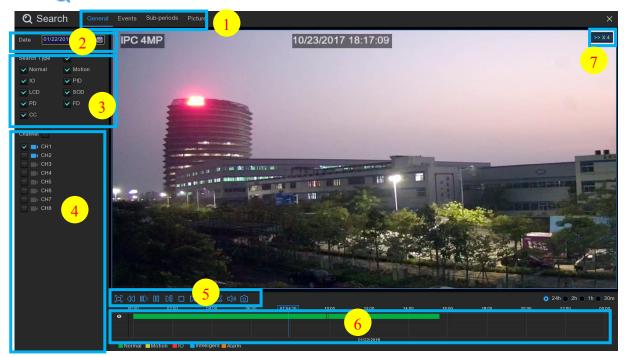
Used Band Width: It shows the used band width of IP cameras.

Chapter 6 Search, Playback & Backup

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

6.1 Using Search Function

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

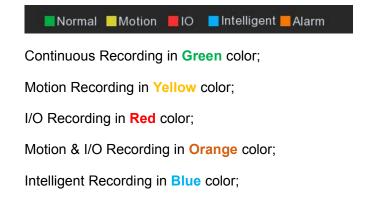


- Search Options: the system provides various search & playback methods: General, Events,
 Sub-periods, Smart & Pictures
- 2. Search Date: search by a date to play back.
- 3. Search Type: the system provides different search types to narrow your search.
- 4. Channel Selection: to choose the channels 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 USB flash 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. Timeline: Continuous recordings are shown with colored bars to represent different types of recording (legend shown in the bottom-right corner of the display). Use the timeframe options o 24h 2h 1h 30m) to view a smaller or larger time period. Different types of recording shown in different colors:



7. Playback Status: display the video play status.

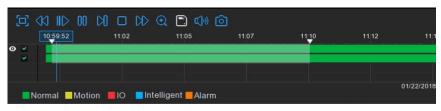
6.1.1 Search & Play Video in General

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



- 1. Select a date to search for video recording 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 (24h 2h 1h 30m) 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

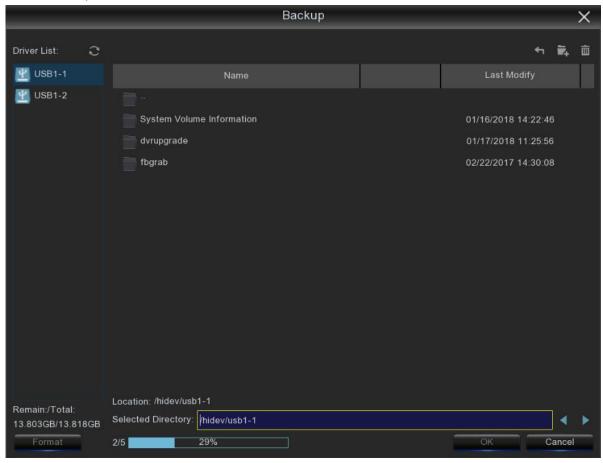


- 1. Insert your USB flash drive to the NVR.
- 2. Start a video recording playback.
- 3. Click 🐰 icon.
- 4. Check the channel(s) you want to make a video clip backup.
- 5. Move the mouse cursor to the timeline where you want to start the video clip.

- 6. Press and hold the left button of your mouse, and drag the 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 driver 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 summarized. You can also quickly back up events to a USB flash drive.



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 of your mouse upon one of the events to play the video immediately.
- 6. Click K (1 17 > >) icons in the bottom-right corner of the menu to browse between pages of events, or input the page you want to browse.
- 7. You can switch the view of list form in by clicking below icons which is show at the right bottom corner of the screen:
 - Thumbnails view. You can view the snapshots of the events.
 - List view. The events will be displayed in list.



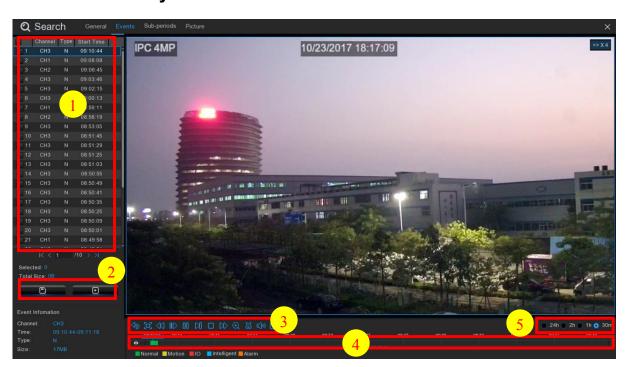
Detailed view. You can view the details of the events.



In the detailed view mode, you can lock the video events to keep events from being overwritten in the hard drive. Click the $\stackrel{\cdot}{=}$ icon to lock or click $\stackrel{\cdot}{=}$ to unlock the events.

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

6.1.2.1 Event Playback Control



- 1. Event List, you can select the events here.
- 2. Click icon to save your selected event videos to USB flash drive. Click icon to play video.
- 3. Control the playback with buttons on **Video Playback Controls**. You can click icon or click right button of your mouse to exit the playback and return to event search window.

- 4. The event you are playing now will be displayed on the timeline.
- 5. Use the timeframe options (24h 2h 1h 30m) to view a smaller or larger time period.

6.1.3 Sub-periods Playback

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



To search & play video in sub-periods:

- 1. Choose the date & time you want to search.
- 2. Choose the split-screens you want the videos to be played in.
- 3. Check the recording types you want to search, or check Search Type to choose all.
- 4. Choose the channels you want to search. Please note that this function only supports to search & play one channel at a time.
- 5. Click the play button to start playing. Control the playback with buttons on Video Playback Controls.
- 6. Videos are being played in split-screens.
- 7. Click the left button of your mouse upon a particular split-screen, the time period of the video split-screen will be displayed on the timeline. The 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 (• 24h • 2h • 1h • 30m) to view a smaller or larger time period.

6.1.4 Picture Search & View

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

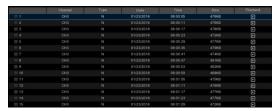


To search, play & back up pictures:

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

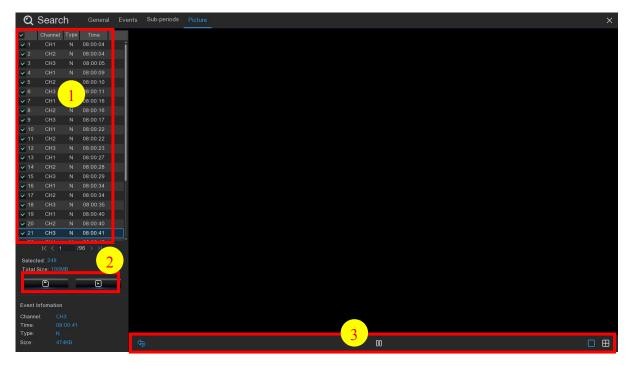


Detailed view. You can view the details of the events.



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

6.1.4.1 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.
- 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.

Chapter 7 Remote Access via Web Client

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

7.1 Basic System Environment Requirements

The minimum requirements for hardware and OS required to run Web Client are given as 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		
Direct3D	Acceleration Function		
Ethernet Adapter	10/100/1000M Ethernet Adapter		
IE	Microsoft Internet Explorer (Ver. 11,10,9,8). It doesn't support Edge.		
Mozilla Firefox	V51 or below. It doesn't support V52 or above version.		
Google Chrome	V44 or below. It doesn't support V45 or above version.		
Mac Safari	5.1 or above		

7.2 Web Plugin Download and Installation

To access the Web Client, do the following:

For IE/Chrome/Firefox:

- **1.** Launch the explorer on your PC and enter the NVR IP address or DDNS domain name (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 plugin. Click **download** to download the plugin and install to your computer.

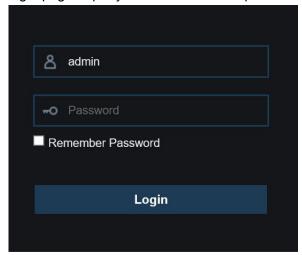
You haven't installed the plugin or it is not the latest version.

Please click download to download the latest plugin.

Please close browser before plugin installation!!!



3. After installing the plug-in, close & launch again your browser 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. It doesn't support V45 or above so far.

For Mac Safari:

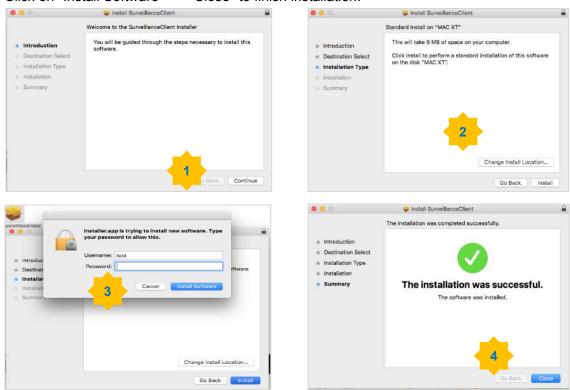
1. Launch the Safari in your Mac, and enter the NVR IP address or DDNS domain name (Host Name) you have set on NVR in the URL box.



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



3. Click on "Continue" --> "Install". Enter user name and password for Mac computer, Click on "Install Software" --> "Close" to finish installation.



4. Close Safari and open again to repeat step 1 to open the Web Client login page.

7.3 Web Client Manager

The web client supports to fully control the NVR with administrator account. Please make sure to protect your user name & password for preventing illegal login.

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, color 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 is saved in NVR's HDD.

Remote Setting: Access functions of the NVR setting menus.

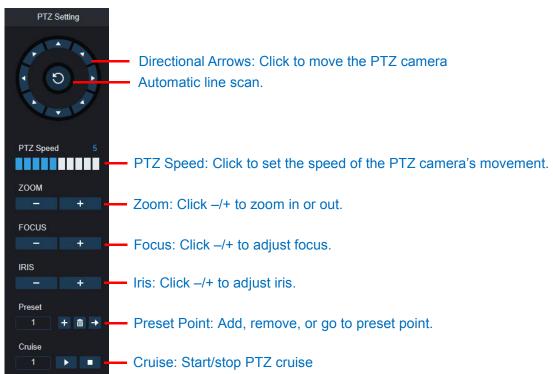
Local Settings: Set download locations for recordings and snapshots taken using Web Client, and choose file type for video files.

- 4- Information: Hover over to see system details.
- 5- Exit.
- **6- Color Controls.** Click to display or hide the color controls.



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

8- PTZ Controls



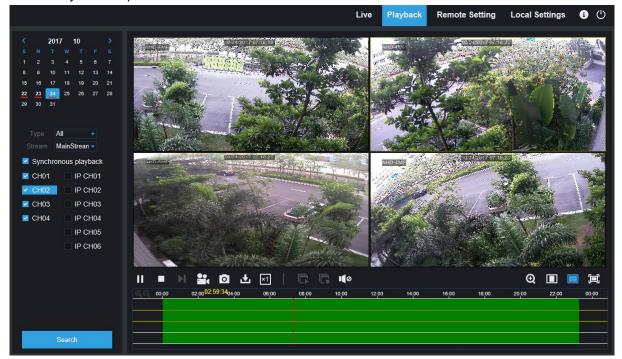
9- Live View Control Buttons:



- Open the images on Live window.
- Close all the Live channels
- Original Proportions: Shows live video at 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.
- **I** Volume Control. **I** ✓ Volume is mute.
- **10- Navigation:** Shows current page number for the channels shown on screen. Use the arrow keys to switch between pages.
- 11- Page View: Click to select how many channels appear on screen at a time.

7.3.2 Playback

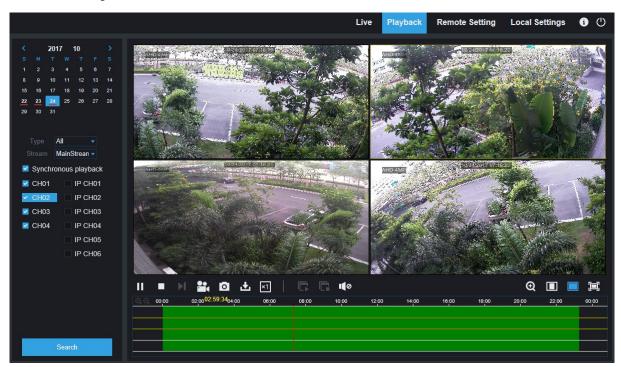
You can search & play recording videos stored in the HDD inside the NVR, and download the videos to your computer.



To search recordings:

- 1. Click **Playback** in the top-right corner of the window.
- 2. Select a day on the calendar to search for recordings from. Days with recordings appear with a red underline.
- 3. Select the recording type to search for from the dropdown next to Type, or select All to search for all recordings.
- 4. To choose the video stream you want to search & play. If you want to play Substream recordings, please make sure you had set the NVR to record with Dualstream at <u>5.2.2.1</u> 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 upon one of the channels which is being played and then click record button to record current video to your computer. Click again to stop recording.
- Click upon one of the channels which is being played and then click 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.

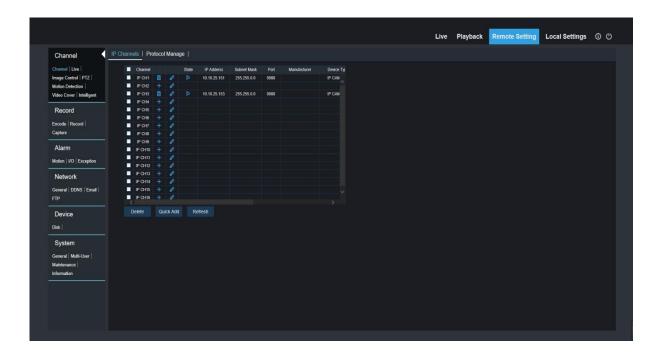
		Start Time	End Time	Status	File Size		
1	V	2017-10-25 00:00:00	2017-10-25 00:01:04	Completed	47.00M		
2	V	2017-10-25 00:01:04	2017-10-25 00:06:56	2%	253.76M		
3		2017-10-25 00:06:56	2017-10-25 00:12:48	Not Downloaded	253.71M		
4		2017-10-25 00:12:48	2017-10-25 00:18:41	Not Downloaded	253.91M		
5		2017-10-25 00:18:41	2017-10-25 00:24:34	Not Downloaded	253.64M		
6		2017-10-25 00:24:34	2017-10-25 00:30:27	Not Downloaded	253.68M		
7		2017-10-25 00:30:27	2017-10-25 00:36:18	Not Downloaded	253.75M		
8		2017-10-25 00:36:18	2017-10-25 00:42:10	Not Downloaded	253.90M		
9		2017-10-25 00:42:10	2017-10-25 00:48:03	Not Downloaded	253.74M		
10		2017-10-25 00:48:03	2017-10-25 00:53:56	Not Downloaded	253.63M		
10 V Show from 1 to 10, total 95. Per page :							
Start Download			ownload	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.

- ▶1 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.
- ① Digital Zoom: Click upon on a playing video, then click-and-drag over an area of the video to enlarge. Right-click to return to the normal display.
- Original Proportions: Shows the playing video at the original proportions
- Stretch: Stretch the playing video to fit the full area for each channel on screen.
- To enlarge the web client to full screen.

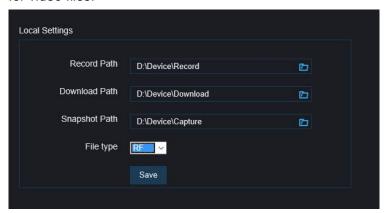
7.3.3 Remote Setting

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



7.3.4 Local Setting

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



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

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

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

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

Save: Click to save the modifications.

Chapter 8 Viewing Backed Up Video on PC/Mac

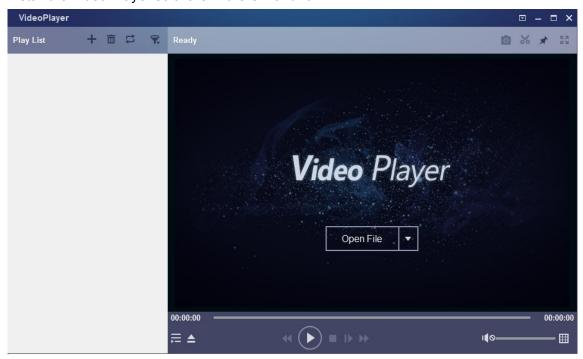
This section will help you to play the backup files with the powerful video player which is attached in the CD.

For Mac users, please install the app "VideoPlayer_x.x.xx_xxxx_xx_xxdmg", for example: VideoPlayer_1.0.15_2017_01_6.dmg.

For PC users, please install the software "VideoPlayer_x.x.xx_xxxx_xxx_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 in the CD 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.

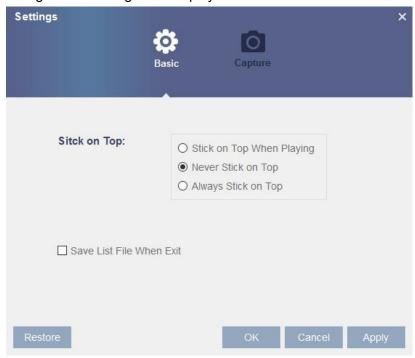
3. Play Controls

- Play
- Pause
- Stop
- Play frame by frame. Click once to play a frame of the video
- I Slow Play, 1/2, 1/4 and 1/8, 1/16 speed
- Fast Forward, x2, x4, x8 and x16

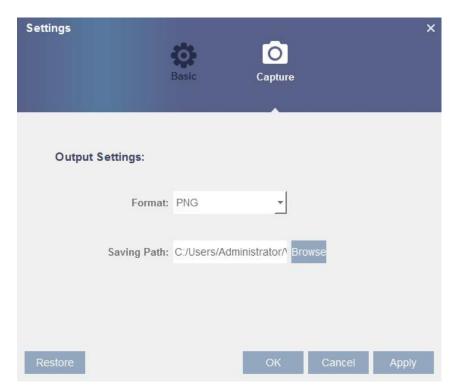
4. Volume control

- Multi-screen play. It allows to play multiple videos at a time. When you choose multi-screen, you can drag the video in Play List to the play screen.
- 5. Take snapshot
 - To save a video clip to your computer. Press once to start, press again to end the video clip.

- Keep the video player on top
- Enlarge the video play screen to full screen
- 6. Advanced Setup Menu allows to choose the OSD language of the video player, and configure the setting of video player.



Basic Settings: Set on-top mode

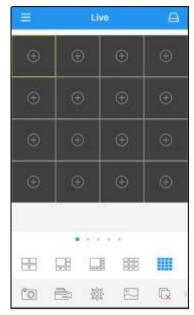


Capture Settings: Set the format and the path to save snapshots.

Chapter 9 Remote Access via Mobiel Devices

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

- 1) Search RXCamView from Google Play Store for android devices or App Store or iOS devices and install.
- 2) Run the app, it will display the live view screen.



3) Touch the [icon to open device list page, touch + to add device.



4) Choose "Manual", and input the NVR information.



Device Name: Input the name you want to display

Login Type: Device ID and IP/DOMAIN

-Device ID: For P2P connection.

-IP/DOMAIN: IP address or Domain name of the NVR.

Device ID/IP Address: Input the P2P ID or IP address/Domain name. You can touch the icon to scan the P2P QR code to add device.

Media Port: Input the media port in NVR network setting User Name / Password: Input the user name & password of the NVR.

Channels: System will display the number of channels of the NVR after connected.

5) After all settings completed, touch **Save** to save, the app will turn to Live view display if the device is well connected.

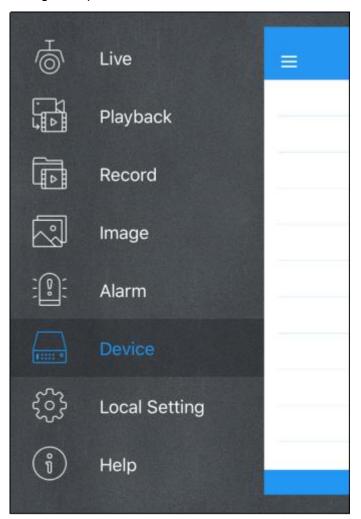


- 💾 4 pictures display
- 🕌 6 pictures display
- 🧾 8 pictures display
- 🚃 9 pictures display
- 16 pictures display

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

- Snap shoot the pictures
- Record the live view video to your mobile device
- PTZ control
- Picture quality
- Close all live view pictures
- Turn Off/On Audio
- Adjust the video scale
- Dual-way speaker (If your NVR support)

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.



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 and data cord and power cables are securely connected, and if something wrong with the HDD interface. Or you may 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 consult with our technical personnel. We strongly suggest user to set password easy to be remembered and relatively safe. If you have safety requirement, please do not set very simply password, such as 000000.
- 3. Q: We see abnormal video signal or even no video signal by connecting the NVR and camera together. Power supply for both devices is OK. What is wrong?
 - A: Check network cable at NVR side to see if the cable is firmly connected and if it is worn out and needs to be replaced, or to check if NTSC or PAL is selected consistently.
- 4. Q: How to prevent NVR from being influenced by heat?
 - A: The NVR needs to dissipate heat while it is running. Please place 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 while the monitor screen is OK and panel keys are functional. Why?
 - A: Operate again by aiming the remote controller at the IR receiver on front panel. If it still doesn't work, please check if the batteries in the remote controller are dying. If not, check if the remote controller is broken.
- 6. Q: I want to take out HDD from my PC and install it in NVR. Can it work?
 - A: All HDDs supported by the system can be used. But remember, once NVR runs, the data on your HDD will be lost.
- 7. Q: Can I playback while recording?
 - A: Yes. The system supports the function of playing while recording.
- 8. Q: Can I clear some records on HDD of NVR?
 - A: In consideration of the file security, you may not clear part of records. If you want to remove all the records, you can format HDD.
- 9. Q: Why can't I log in NVR client?
 - A: Please check if the network connection settings are correct and RJ-45 port is with good contact. And check if your account and password are correctly input.
- 10. Q: Why can't I find any records during playback?
 - A: Please check if the data line connection for HDD is OK and system time is properly adjusted. Try a few times and restart. If it still doesn't work, check if the HDD is broken.
- 11. Q: Why NVR cannot control PTZ?
 - A: Please check if:
 - a) PTZ in the front side is malfunctioned.
 - b) Setting, connection and installation of PTZ decoder are not correct.
 - c) PTZ setting of NVR is not correct.

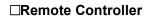
- d) Protocol of PTZ decoder does not match that of NVR.
- e) Address of PTZ decoder does not match that of NVR.
- f) If many decoders are connected, the farthest side of AB line of PTZ decoder should be added 120Ω resistance to realize reflection suppression and impedance matching. Otherwise, PTZ control will be unstable.
- 12. 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.
- 13. Q: Why doesn't alarm work?
 - A: Please check if the alarm setting, alarm connection and alarm input signals are correct.
- 14. 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 and if I/O alarm is set as Always Off. Besides, refer to corresponding HDD alarm setting.
- 15. 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 record. If you want to stop Scheduled recording in certain time quantum, please change the setting to No Record. To stop Startup recording, please change record mode to scheduled recording or manual recording. Then you may stop recording by the prescribed methods. And another way of stopping recording is to set channel as off status in record setting.

10.2 Usage Maintenance

- 1. To shut down NVR, please firstly shut down the system and then turn off the power. Do not turn off the power directly or HDD data will be lost or damaged.
- 2. Please keep NVR away from heat sources or places.
- 3. Clean the internal dust regularly. Make sure the good ventilation of NVR so as to ensure the good heat dissipation.
- 4. Please do not hot plugging audio and video cables, or cables connected to ports like RS-232 or RS-485. Otherwise the ports will be damaged.
- 5. Please check the HDD cable and data cable regularly to see if they are ageing.
- 6. Please prevent the audio and video signals of NVR from being intervened by other electronic devices, and prevent the HDD from being damaged by static electricity and induced voltage. If the network cable is frequently plugged, it is suggested to replace connecting line regularly, or the input signal may be unstable.
- 7. This is a class A product. It maybe bring wireless interference in life. Under this situation, it need user to make measures.

10.3 Accessories (For reference only)







□ Power Adapter



☐ Warranty Card



☐ USB mouse



 \square CD

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