

The logo for Speco Technologies features a dark blue, curved, swoosh-like shape above the company name. The name "speco technologies" is written in a lowercase, sans-serif font, with a registered trademark symbol (®) at the end.

speco technologies[®]

USER MANUAL

Wireless Network Video Recorder

Wireless NVR

ZIPK8WN2
(N8JWN&O2WK1N)

A decorative dark blue swoosh shape is located at the bottom right corner of the page.

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Chapter 1 Safety Instructions

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

1. Power sources (note: please use the power supply attached or included in the box)

Never operate the equipment by using an unspecified power supply.

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

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

3. Do not install the equipment in a dusty area

Do not install the equipment in a dusty area.

4. Do not place the equipment outdoors or in a humid environment

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

5. Keep the surface of the equipment clean and dry

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

6. Do not operate if any problems are found

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

7. Do not try to open the unit

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

8. Handle with care

If your WIRELESS NVR does not work normally because of contact with the floor or a hard object, please contact your authorized dealer for repair or replacement.

9. Install the unit in a place with good ventilation

The WIRELESS NVR system includes a hard drive which produces large amounts of heat during operation. As a result, do not block the ventilation openings (on the top, bottom,

both sides and the rear) during operation. Install or put the equipment in a place with good ventilation.

10. The included power adapter can only be used for 1 WIRELESS NVR unit. Do not try to connect more equipment, or your WIRELESS NVR may restart repeatedly because of insufficient power.

11. Prevent the equipment from water splash or drip. Do not place objects containing water, such as a flower vase, on the equipment.

12. Do not ingest the battery as it's a Chemical Burn Hazard,

This product contains a coin / button cell battery.

If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

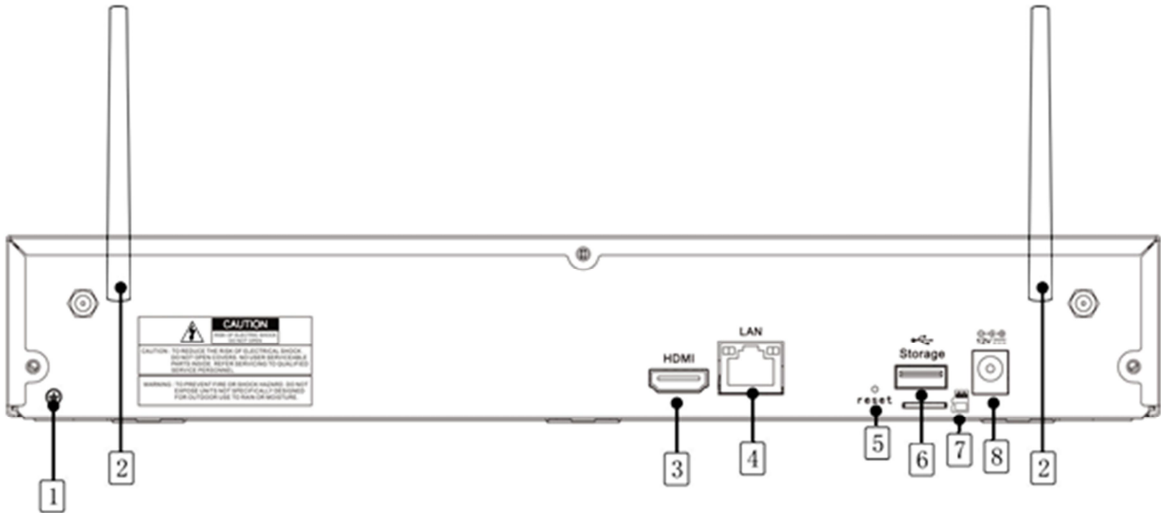
Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

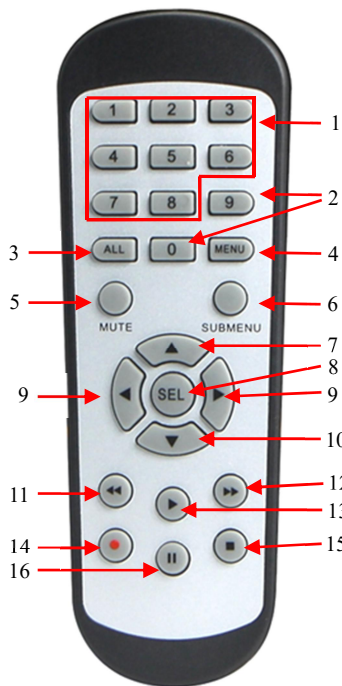
Chapter 2 Product Overview

2.1 Rear Panel



#	Physical interface	Connection
1	Ground connection	A terminal to connect a separate ground cable. * Make sure to add a ground cable in order to use the equipment safely.
2	Antenna	Receive signals from wireless cameras.
3	HDMI	Connect with HDMI display devices such as a PC monitor.
4	WAN:(RJ45) Network port	Connect with WAN via an Ethernet cable.
5	Reset	Press 3 seconds to reset password; press 10 seconds to load to default
6	USB port	Connect with USB flash disk or USB mouse
7	SD card slot	Plugin SD card as a hard disk to record. When the hard disk is working, the SD card will not work.
8	Power port	Connect with the DC12V 2A power supply included with the device.

2.2 Remote Control (For Reference Only)



No.	Icon	Description
1	1-8	Numeric keys Press to display channel 1~8
2	9、0	Numeric keys
3	ALL	Press to display all channels Multiple display mode
4	Menu	Press to enter or exit the Main Menu
5	Mute	Mute On/off
6	Submenu	Go to submenu
7	▲	Up arrow key; Volume increase
8	SEL	Press to enter the selected menu item and edit the setting
9	◀ ▶	Left/Right key; Decrease/increase parameter value of control bar.
10	▼	Down arrow key; Volume decrease
11	◀◀	Press to rewind during video playback
12	▶▶	Press to fast forward during video playback
13	▶	Press to play recorded video or enter the recording search menu
14	●	Press to start manual recording
15	■	Press to stop manual recording or stop the video playback
16		Press to pause the video playback or enter frame-playback mode

Chapter 3 WIRELESS NVR Common Operations

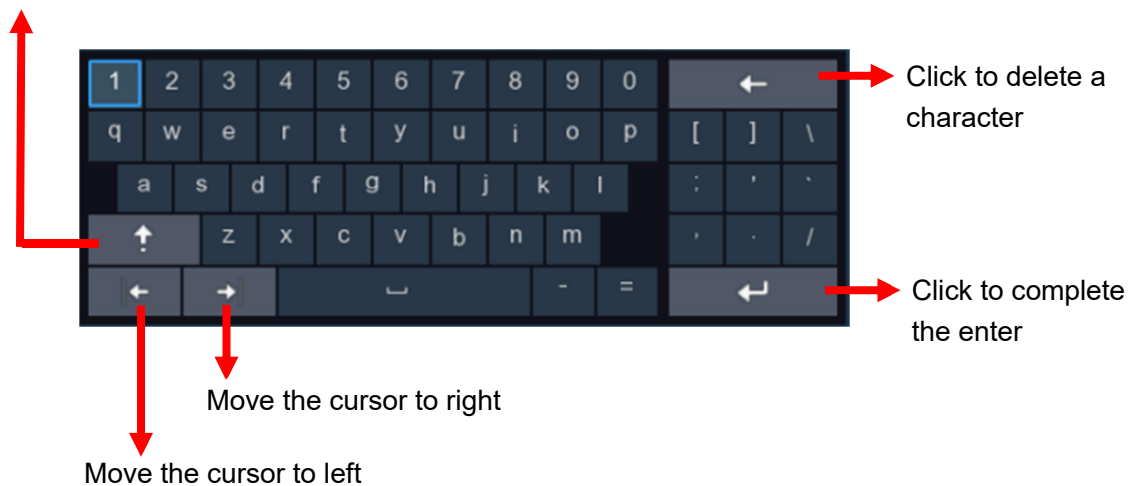
3.1 Using the Supplied Mouse

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

3.2 Using the Virtual Keyboard

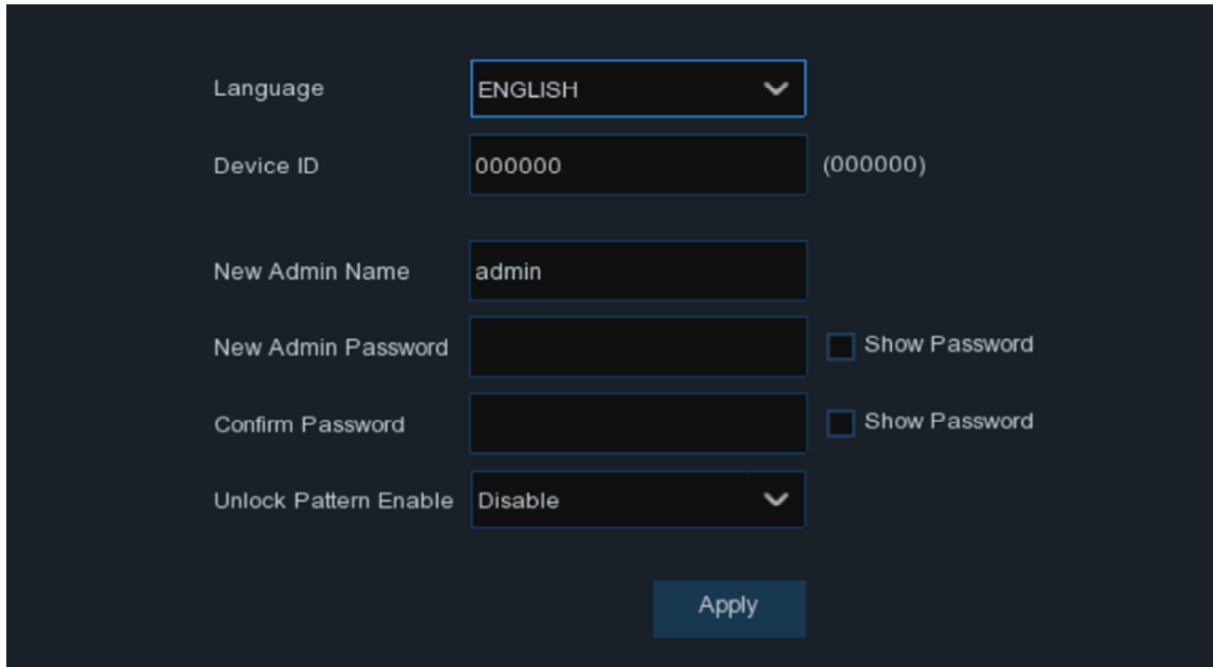
You will see the virtual keyboard automatically on the screen when you need to enter data

Click to toggle the keyboard to upper case and more punctuation



3.3 Password

When you run the WIRELESS NVR for the first time, you are required to set your own password immediately to protect your privacy. Please be sure to note your username and password and save them in a secure place.



Language	ENGLISH	
Device ID	000000	(000000)
New Admin Name	admin	
New Admin Password		<input type="checkbox"/> Show Password
Confirm Password		<input type="checkbox"/> Show Password
Unlock Pattern Enable	Disable	

Apply

Language: Choose an OSD language

Device ID: Input the device ID in the parentheses. Default ID is 000000. View more about Device ID at [5.6.1 General](#).

New Admin name: To set your own administrator name.

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

Confirm Password: Enter your own password again.

Unlock Pattern Enable: Enable or disable unlock pattern. Set a pattern in lieu of a password to quickly log in to your WIRELESS NVR.

Click **Apply** to confirm your settings and you'll then go to the login interface. Draw an unlock pattern or Enter your user name & password to **Login** the WIRELESS NVR system.

The screenshot shows a dark-themed login interface. At the top, there are three input fields: 'Language' with a dropdown menu set to 'ENGLISH', 'Device ID' with the value '000000' and a '(000000)' label to its right, and 'User' with a dropdown menu set to 'admin'. Below these fields is a blue button labeled 'Password'. Underneath the button, the text 'Draw the unlock pattern first.' is displayed. At the bottom of the interface is a 3x3 grid of white circles, intended for drawing an unlock pattern.

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

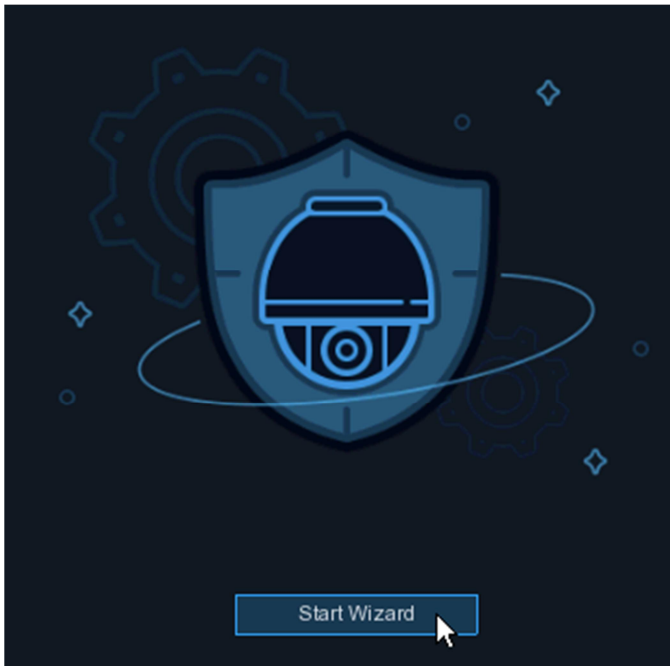
Chapter 4 WIRELESS NVR Start up

4.1 Startup Wizard

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

4.1.1 Start Wizard

Click the [Start Wizard](#) to proceed to the next step



4.1.2 Network Configuration

The screenshot shows a 'Wizard' window titled 'Network'. It contains several sections for configuration:

- Local Connection:** A checkbox for 'DHCP' is checked. Below it are input fields for 'IP Address' (192.168.006.028), 'Subnet Mask' (255.255.255.000), and 'Gateway' (192.168.006.001).
- DNS:** Input fields for 'DNS1' (192.168.001.001) and 'DNS2' (008.008.008.008).
- Port:** Input fields for 'Web Port' (00080), 'Client Port' (09000), and 'RTSP Port' (00554).
- At the bottom, there is a checked checkbox for 'UPNP' and two buttons: 'Next' and 'Cancel'.

If you connect to a router that allows the use of DHCP, please check the **DHCP** box. The router will automatically assign all the network parameters for your WIRELESS NVR. Below are the parameters to complete if the network does not use DHCP:

IP Address: The IP address identifies the WIRELESS NVR on the network. It consists of four groups of numbers between 0 to 255, separated by periods. For example, "192.168.1.100".

Subnet Mask: Subnet mask is a network parameter which defines a range of IP addresses that can be used in a network. If the 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, "255.255.0.0".

Gateway: This address allows the WIRELESS NVR to access the Internet. The format of the **Gateway** address is the same as the **IP Address**. For example, "192.168.1.1".

DNS1/DNS2: DNS1 is the primary DNS server and DNS2 is a backup DNS server. It's usually adequate to just enter the DNS1 server address.

Port

Web Port: This is the port that you will use to log in remotely to the WIRELESS 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 WIRELESS NVR will use to send information (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 WIRELESS NVR will be allowed to transmit real-time streaming to another device (e.g. using a streaming Media player.).

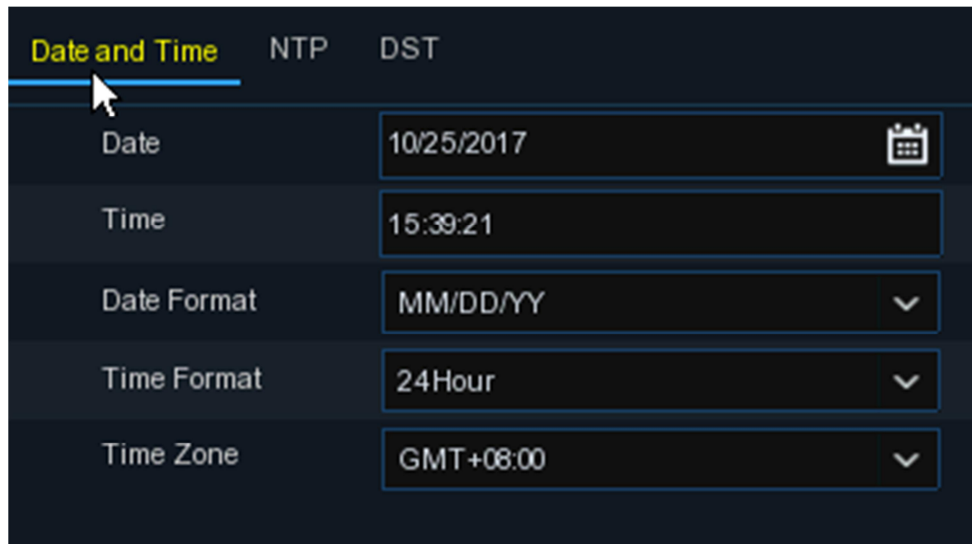
UPnP: If you want to log in remotely to the WIRELESS NVR using Web Client, you need to complete the port forwarding in your router. Enable this option if your router supports UPnP. In this case, you do not need to manually configure port forwarding on your router. If your router does not support UPnP,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

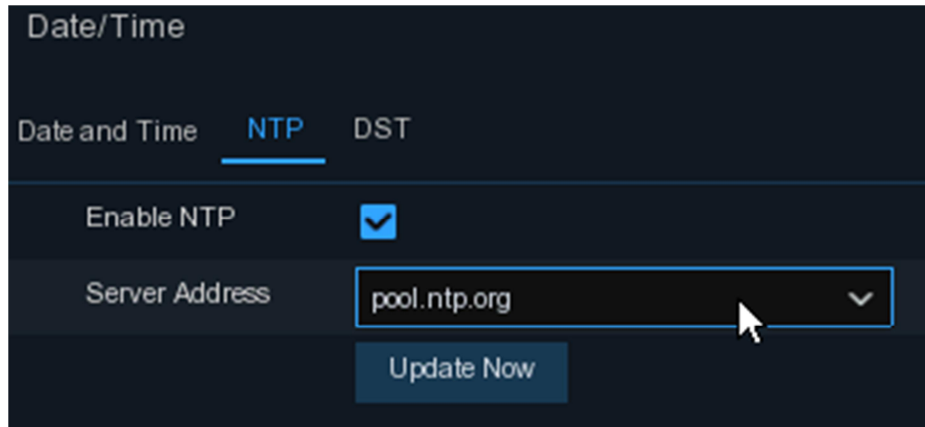
Date Format: Choose from the dropdown menu to set preferred date format.

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

Time Zone: Set the correct time zone.

NTP

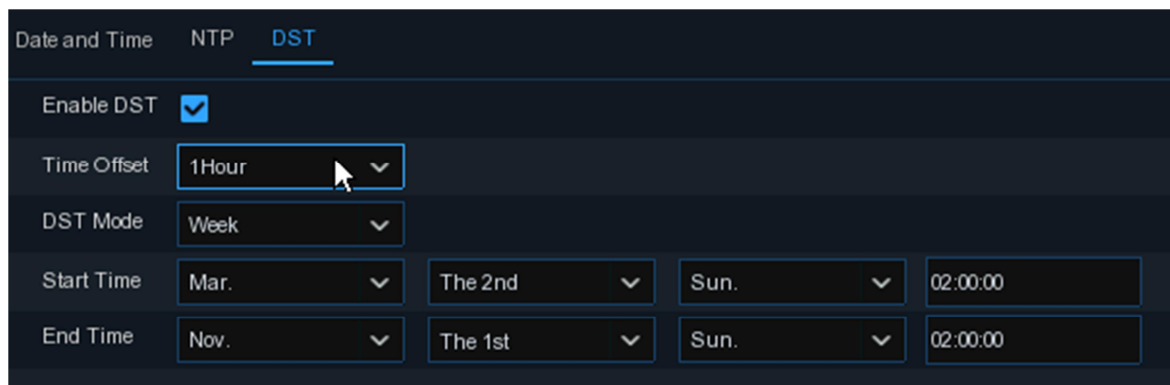
NTP stands for Network Time Protocol. This feature allows you to synchronize the date and time automatically on the WIRELESS NVR over the Internet. For this to work, the WIRELESS NVR needs to be connected to the Internet.



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

DST

DST stands for Daylight Savings Time.



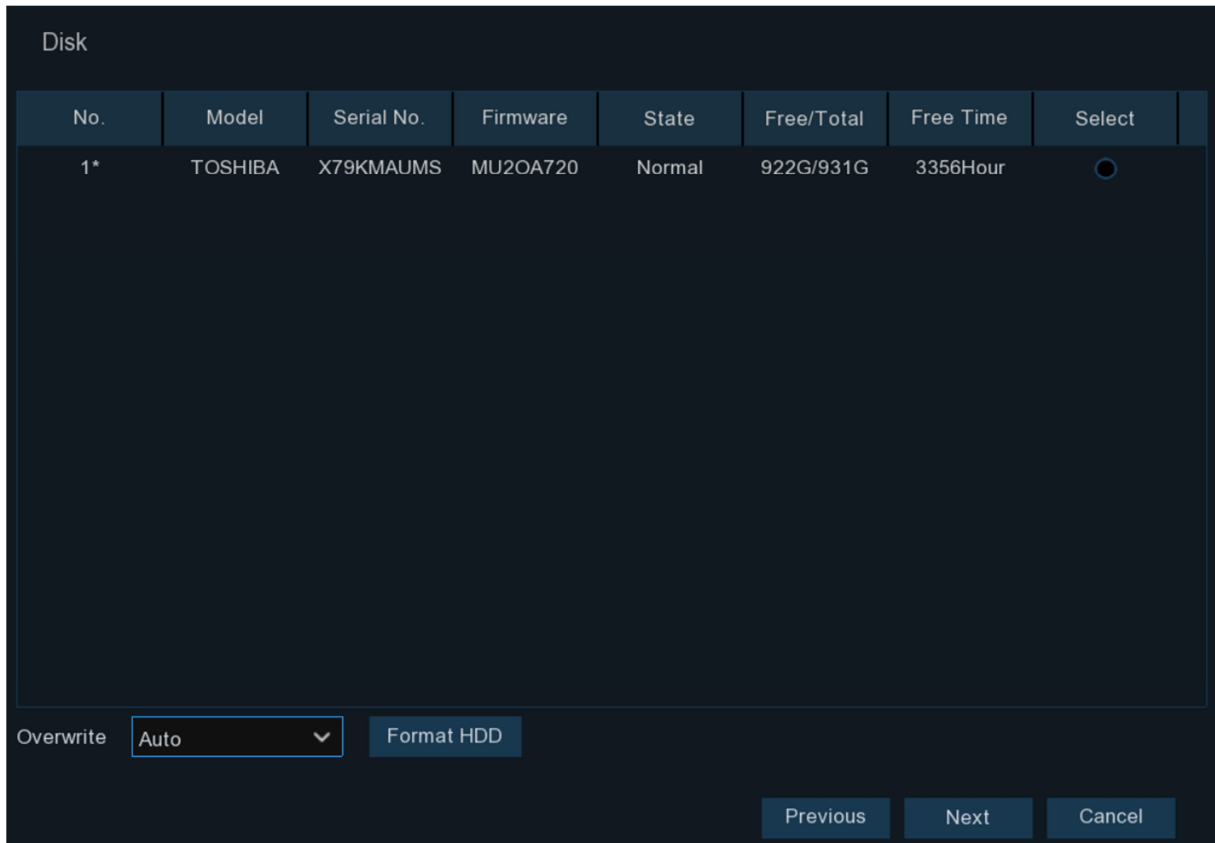
DST: Enable if Daylight Saving Time (DST) is observed in your region

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 Disk

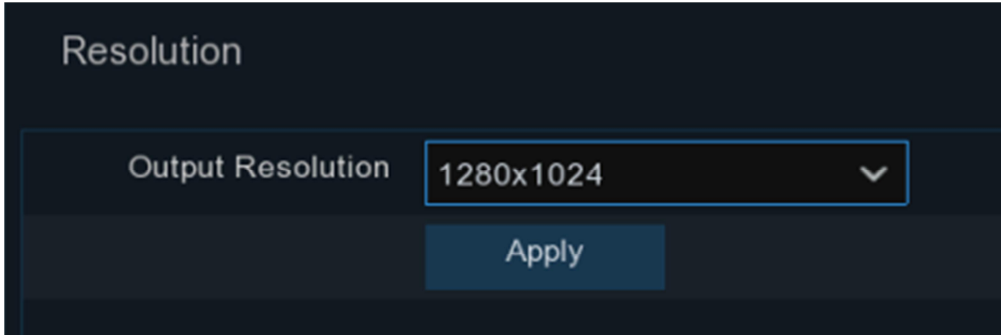


If a HDD is installed in the WIRELESS NVR for the first time, it must be formatted. Select the HDD and then click **Format HDD** button to format the HDD.

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.

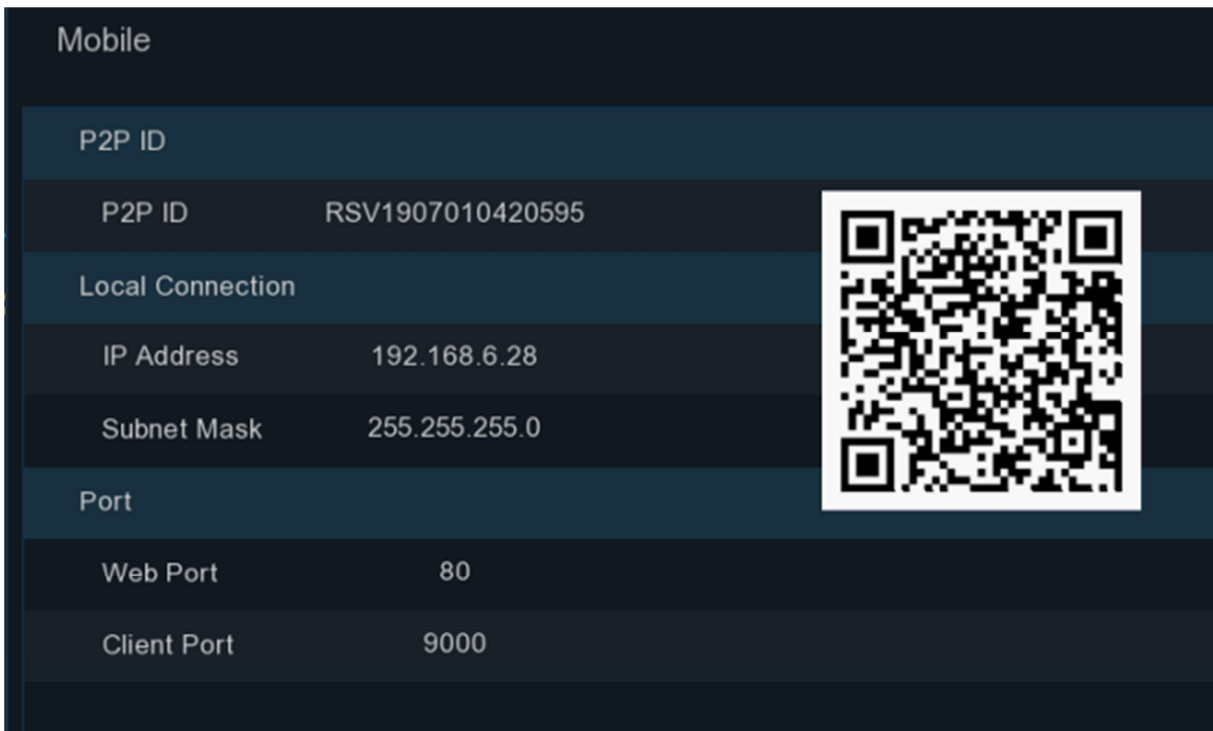
4.1.5 Resolution

Choose an output resolution to match your monitor. The WIRELESS NVR supports adjusting the output resolution automatically to match the best resolution of your monitor when the system is starting up.



4.1.6 Mobile

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



4.1.7 Summary

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

Check **“Don't show this window next time”** if you don't want to display the Start Wizard the next time the system reboots. Click **Finish** to save & exit.

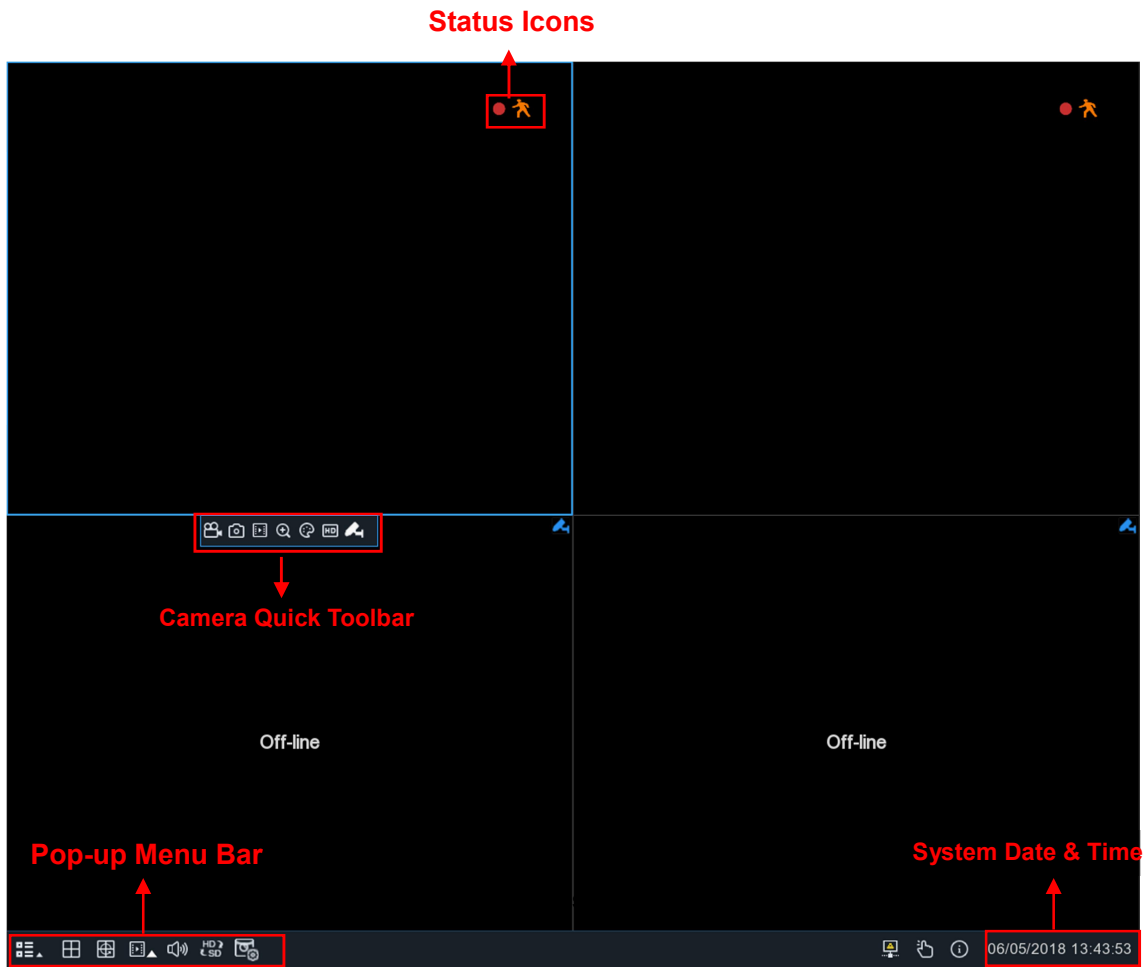
The screenshot shows a 'Summary' window with a dark background. It is divided into two main sections: 'System' and 'Network'. The 'System' section includes settings for Resolution (1920x1080), Date/Time (04/10/2017 16:18:17, GMT+08:00), NTP (OFF), and DST (OFF). The 'Network' section includes settings for DHCP (ON), IP Address (192.168.6.28), Subnet Mask (255.255.255.0), Gateway (192.168.6.1), DNS1 (192.168.1.1), and DNS2 (8.8.8.8). At the bottom, there is a checkbox labeled 'Don't show this window next time.' which is currently unchecked.

System	
Resolution	1920x1080
Date/Time	04/10/2017 16:18:17, GMT+08:00
NTP	OFF
DST	OFF




Network	
DHCP	ON
IP Address	192.168.6.28
Subnet Mask	255.255.255.0
Gateway	192.168.6.1
DNS1	192.168.1.1
DNS2	8.8.8.8

Don't show this window next time.

4.2 Live View Screen











Status Icons

-  This indicates that the WIRELESS NVR is currently recording.
-  This icon appears when the camera has detected motion.
-  Click to enter pairing.

4.2.1 Camera Quick Toolbar







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




-  Click to manually record the channel immediately. If manual recording is in process, the icon will be red. 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 previous 5 minutes recording of this channel
-  Click to zoom-in on 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.
-  Click to enter pairing


4.2.2 Taskbar



-  Click to open the Start Menu
-  Click to choose a different layout for live view
-  Click to start viewing channels in a sequence
-  Quick playback. You can choose to play the latest recording for all channels from the beginning of the day, or you can choose the playback from the latest 5s, 10s, 30s, 1Min, 5Min.
-  Click to switch all Wireless channels between mainstream and substream (for live view resolution)
-  Click to switch among real-time, balanced, or smooth view. The view effect modes affect only the live view video quality by bitrate and frame rate but do not affect the recording quality.






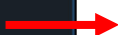

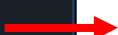


 This icon will appear if the network is disconnected.

 To start or stop Manual Record .

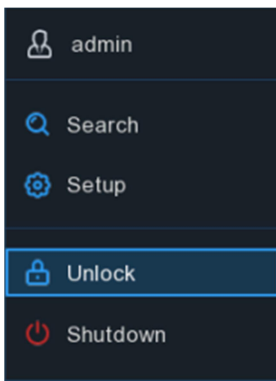
 To view system information, and network state.

4.2.3 Start Menu


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


 admin		To switch user. To enable multi-user, please view on 5.6.3 Multi-user .
 Search		Search & Playback. View more on Chapter 6 Search, Playback & Backup
 Setup		NVR System Setup. View on Chapter 5 NVR System
 Lock Screen		Lock & unlock screen. View on 4.2.3.1 Unlock and Lock Screen .
 Shutdown		Shutdown, reboot & logout the system. View on 4.2.3.2 Shutdown .

4.2.3.1 Unlock and Lock Screen

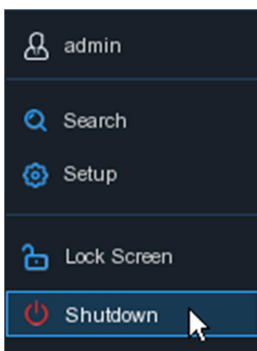


The screen will lock to protect unauthorized OSD operation while the NVR is not in active menu operation for 1 minute.

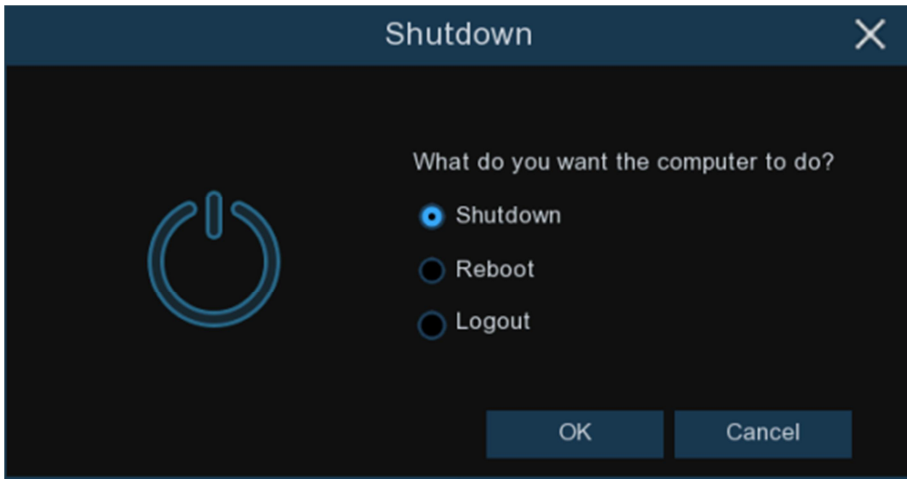
If necessary, you can also lock the screen operation manually. To do so, go to Start Menu, and then click the Lock Screen icon  to lock the system immediately.

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

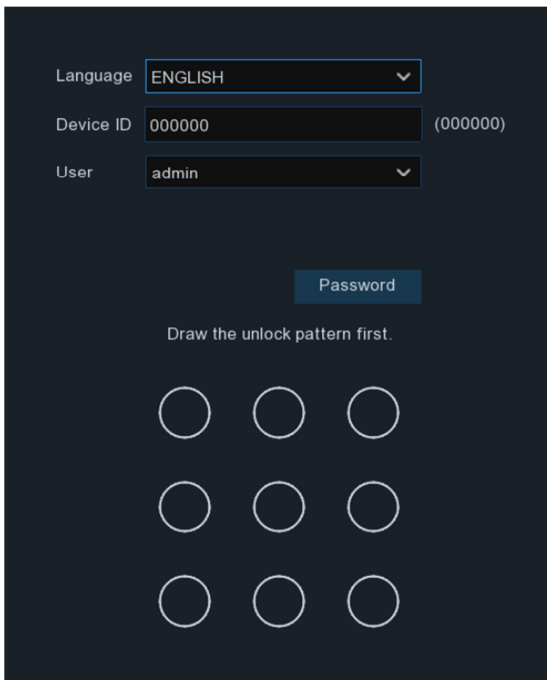
4.2.3.2 Shutdown



Click the **Shutdown** button from Start Menu, and then select the further action. Click the **OK** button, and the system will require you to input the Admin password to authenticate.

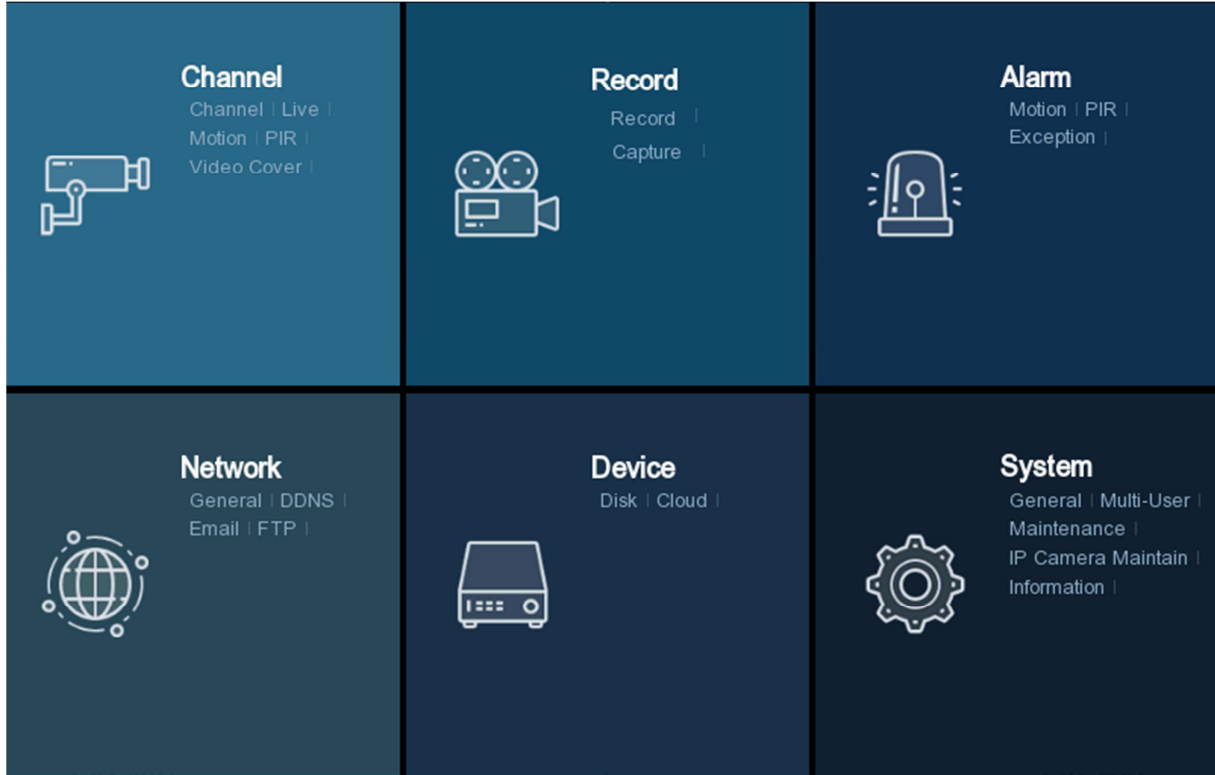


If you choose to **Logout** of the system, the live view screen will disappear. You will need to login to the system for further operations.



5. Chapter 5 WIRELESS NVR System Setup

You are able to configure the WIRELESS NVR for Channel, Record, Alarm, Network, Device & System from [Start Menu](#) ▢ [Setup](#).



5.1 Channel

In this section, you are allowed to configure the wireless cameras, live view display, manage Wireless cameras, motion setup, and Video Cover.

5.1.1 Channel

Setup Channel Record Alarm Network Device System

Wireless Camera

Region: NA

Wireless Band Selection: Auto Activate

Wireless Channel: 1

Channel	Camera Version	Pair
CH1	1.1.0.006	
CH2	1.1.0.006	
CH3		
CH4		

The use of wireless channels requires compliance with local regulations.

Default Apply

Region: NA/UK/MKK depending on the region.

Wireless Band selection: Auto or Manual optional. Auto is recommended.

Wireless Channel: Wireless Channel.

Camera version: Camera firmware Version.

Pair: Click the channel button to do pairing.

5.1.2. Live

To configure camera parameters.

The screenshot shows a web interface for configuring camera channels. The main menu includes 'Setup', 'Channel', 'Record', 'Alarm', 'Network', 'Device', and 'System'. The 'Channel' section is expanded to show 'Live' settings. A table lists four channels (CH1-CH4) with various configuration options.

Channel	Setup	Covert	Alias	Position	Date Format	Time Format	Signal Strength
CH1		<input type="checkbox"/>	CH1	Hidden alias	YYYY-MM-DD	24 Hour	<input checked="" type="checkbox"/>
CH2		<input type="checkbox"/>	CH2	Hidden alias	YYYY-MM-DD	24 Hour	<input checked="" type="checkbox"/>
CH3		<input type="checkbox"/>	CH3	Hidden alias	MM/DD/YYYY	24 Hour	<input checked="" type="checkbox"/>
CH4		<input type="checkbox"/>	CH4	Hidden alias	MM/DD/YYYY	24 Hour	<input checked="" type="checkbox"/>

An 'Apply' button is located at the bottom right of the interface.

Channel: Display channel number.

Setup: Click icon into the setup page.

The screenshot shows a configuration panel for a camera channel. The settings are as follows:

- Channel:** CH1 (dropdown menu)
- Alias:** CH1 (text input)
- Position:** Hidden alias (dropdown menu)
- Date Format:** YYYY-MM-DD (dropdown menu)
- Time Format:** 24 Hour (dropdown menu)
- Signal Strength:** (checkbox)
- HUE:** Slider set to 128
- BRIGHT:** Slider set to 128
- CONTRAST:** Slider set to 128
- SATURATION:** Slider set to 128

Red arrows point from the following text to the corresponding UI elements:

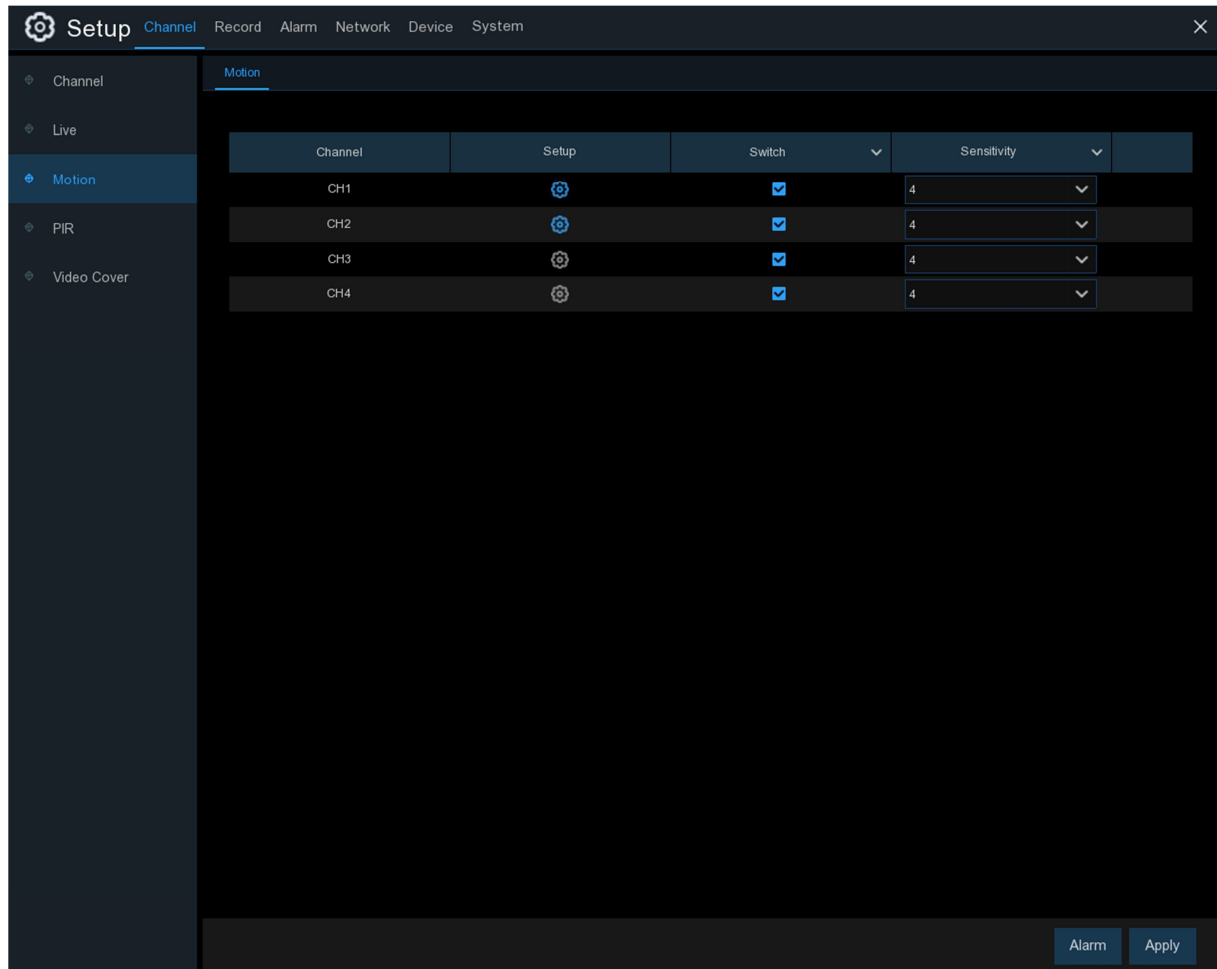
- Choose a channel to configure (points to Channel dropdown)
- Give a name to the camera (points to Alias text input)
- Date format to display for the Wireless camera (points to Date Format dropdown)
- Time format to display for the Wireless camera (points to Time Format dropdown)
- Display signal strength (points to Signal Strength checkbox)
- Adjust the Hue value for the image color (points to HUE slider)
- Adjust the Bright value for the image color (points to BRIGHT slider)
- Adjust the Contrast value for the image color (points to CONTRAST slider)
- Adjust the Saturation value for the image color (points to SATURATION slider)

At the bottom of the panel, there are two buttons: **Default** and **Apply**.

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

5.1.3 Motion

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



Setup: Click icon into the setup page.



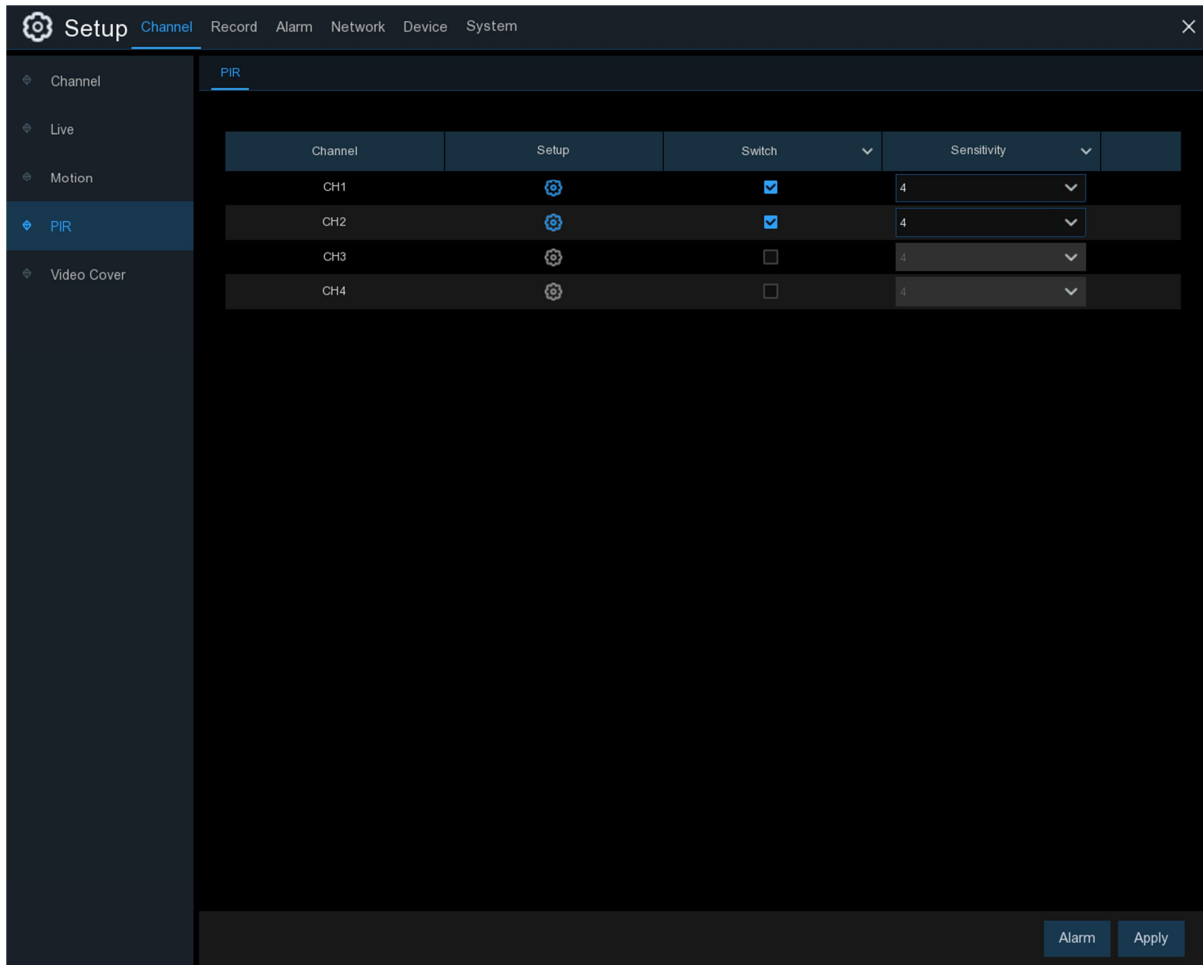
Motion Detection Area:

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

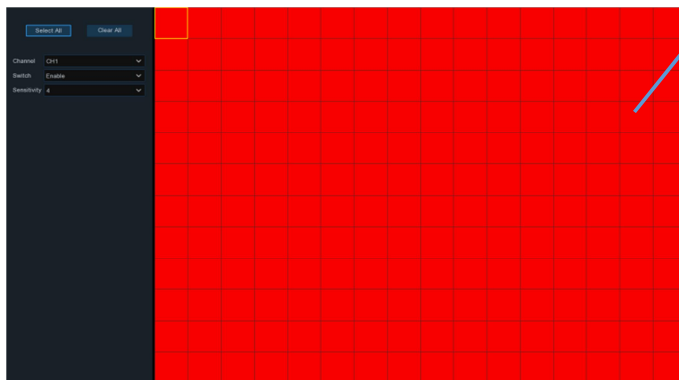
Switch: Enable or disable motion detection.

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

5.1.4 PIR



Setup: Click icon into the setup page.



Motion Detection Area:

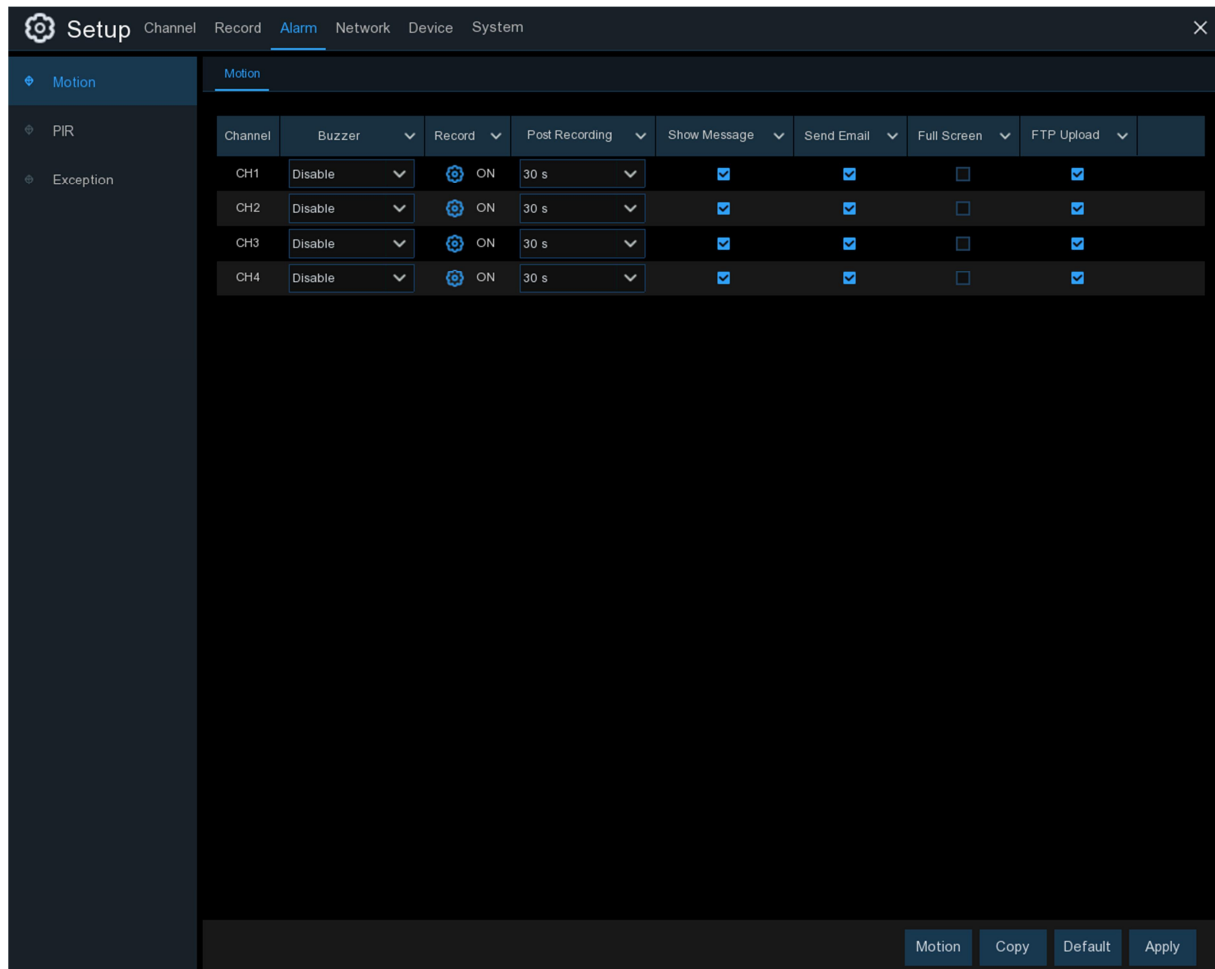
The whole screen is marked for motion detection (red blocks) as default. If you want to disable the motion detection on a certain area, click the grid cursor and then drag the mouse to highlight the scope to unmark the area into transparent blocks. After setting is completed, click the right button of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

Switch: Enable or disable motion detection.

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

5.1.5 Alarm

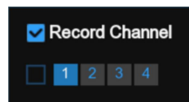
Click **Alarm** button to configure the motion detection alarm function:



Channel: Display channel number.

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