HIKVISION

Wi-Fi Network Video Recorder

Quick Start Guide

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Quick Start Guide

About this Manual

This Manual is applicable to Wi-Fi Network Video Recorder.

The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (http://overseas.hikvision.com/en/).

Please use this user manual under the guidance of professionals.

Trademarks Acknowledgement

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Legal Disclaimer

Regulatory Information

FCC Information

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC compliance: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the RE Directive 2014/53/EU, the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU.

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info

2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (B)/NMB-3(B) standards requirements.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to

the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut

fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

Applicable Models

This manual is applicable to the models listed in the following table.

Series	Model
DS-7600NI-KI/W	DS-7604NI-KI/W
	DS-7608NI-KI/W

Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
![NOTE]	Provides additional information to emphasize or supplement important points of the main text.
![WARNING]	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
![DANGER]	Indicates a hazard with a high level of risk, which if not avoided, will result in death or serious injury.

Safety Instructions

- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed information.
- Input voltage should meet both the SELV (Safety Extra Low Voltage) and the Limited Power Source with 100~240 VAC or 12 VDC according to the IEC60950-1 standard. Please refer to technical specifications for detailed information.
- Do not connect several devices to one power adapter as adapter overload may cause over-heating or a fire hazard.
- Please make sure that the plug is firmly connected to the power socket.
- If smoke, odor or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

Preventive and Cautionary Tips

Before connecting and operating your device, please be advised of the following tips:

- Ensure unit is installed in a well-ventilated, dust-free environment.
- Unit is designed for indoor use only.
- Keep all liquids away from the device.
- Ensure environmental conditions meet factory specifications.
- Ensure unit is properly secured to a rack or shelf. Major shocks or jolts to the unit as a result of dropping it may cause damage to the sensitive electronics within the unit.
- Use the device in conjunction with an UPS if possible.
- Power down the unit before connecting and disconnecting accessories and peripherals.
- A factory recommended HDD should be used for this device.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

Chapter 1 Panels Description

1.1 Front Panel
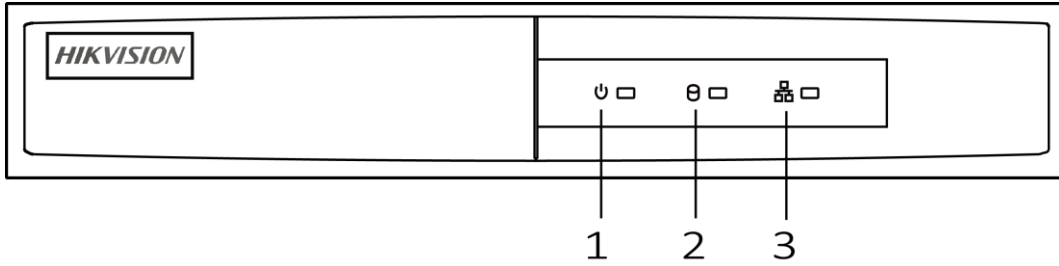
Figure 1-1 Front Panel

Table 1-1 Panel Description

No.	Name	Description
1	Power indicator	Turns green when NVR is powered up.
2	HDD indicator	Blinks red when HDD is reading/writing.
3	Network indicator	Blinks green when network connection is functioning normally.

1.2 Rear Panel
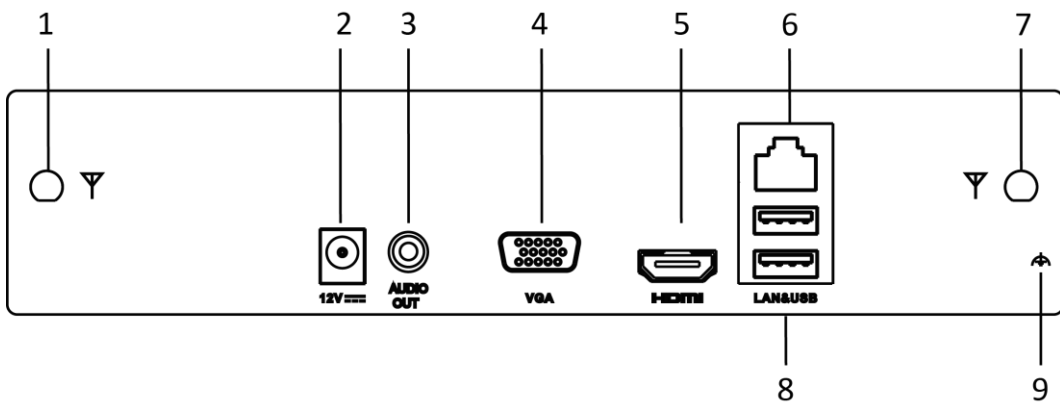
Figure 1-2 Rear Panel

Table 1-2 Panel Description

No.	Name	Description
1	Wi-Fi Antenna	Wi-Fi antenna interface.
2	Power supply	12 VDC power supply.
3	Audio out	2 RCA connectors for audio output.
4	VGA	VGA video output connector.
5	HDMI	HDMI video output connector.
6	LAN	One RJ-45 10M/100M self-adaptive Ethernet interfaces provided.
7	Wi-Fi Antenna	Wi-Fi antenna interface.
8	USB	Two USB 2.0 interface.
9	Ground	Ground (needs to be connected when device starts up).

Chapter 2 Installation and Connections

2.1 Wi-Fi NVR Installation

During installation of the Wi-Fi NVR:

- Use brackets for rack mounting.
- Ensure ample room for audio and video cables.
- When routing cables, ensure that the bend radius of the cables are no less than five times than its diameter.
- Connect the alarm cable.
- Allow at least 2cm (≈0.75-inch) of space between rack-mounted devices.
- Ensure the Wi-Fi NVR is grounded.
- Environmental temperature should be within the range of -10° C to +55° C (+14° C to +131° C).
- Environmental humidity should be within the range of 10% to 90%.

2.2 HDD Installation

Before you start:

Disconnect the power from the Wi-Fi NVR before installing a hard disk drive (HDD). A factory recommended HDD should be used for this installation.

Tools Required: Screwdriver.

Step 1 Remove the cover from the Wi-Fi NVR by unfastening the screws on the rear and side panel.

Figure 2-1 Remove Cover

Step 2 Connect one end of the data cable to the motherboard of Wi-Fi NVR and the other end to the HDD.

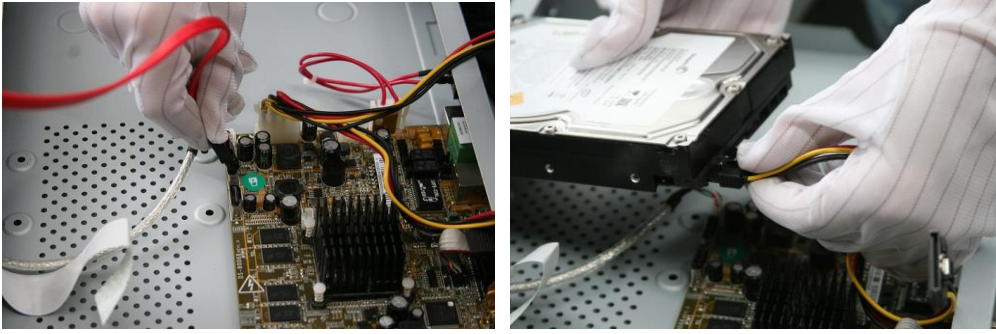Figure 2-2 Connect Data Cable

Step 3 Connect the power cable to the HDD.

Figure 2-3 Connect Power Cable

Step 4 Place the HDD on the bottom of the device and then fasten the screws on the bottom to fix the HDD.

Figure 2-4 Fix HDD

2.3 HDD Storage Calculation Chart

The following chart shows an estimation of storage space used based on recording at one channel for an hour at a fixed bit rate.

Bit Rate	Storage Used
96K	42M
128K	56M
160K	70M
192K	84M
224K	98M
256K	112M
320K	140M
384K	168M
448K	196M
512K	225M
640K	281M
768K	337M
896K	393M
1024K	450M
1280K	562M
1536K	675M
1792K	787M
2048K	900M
4096K	1.8G
8192K	3.6G
16384K	7.2G

[i] NOTE

Please note that supplied values for storage space used is just for reference. The storage values in the chart are estimated by formulas and may have some deviation from actual value.

Chapter 3 Menu Operation

3.1 Menu Structure

Refer to the following figure for the menu structure:
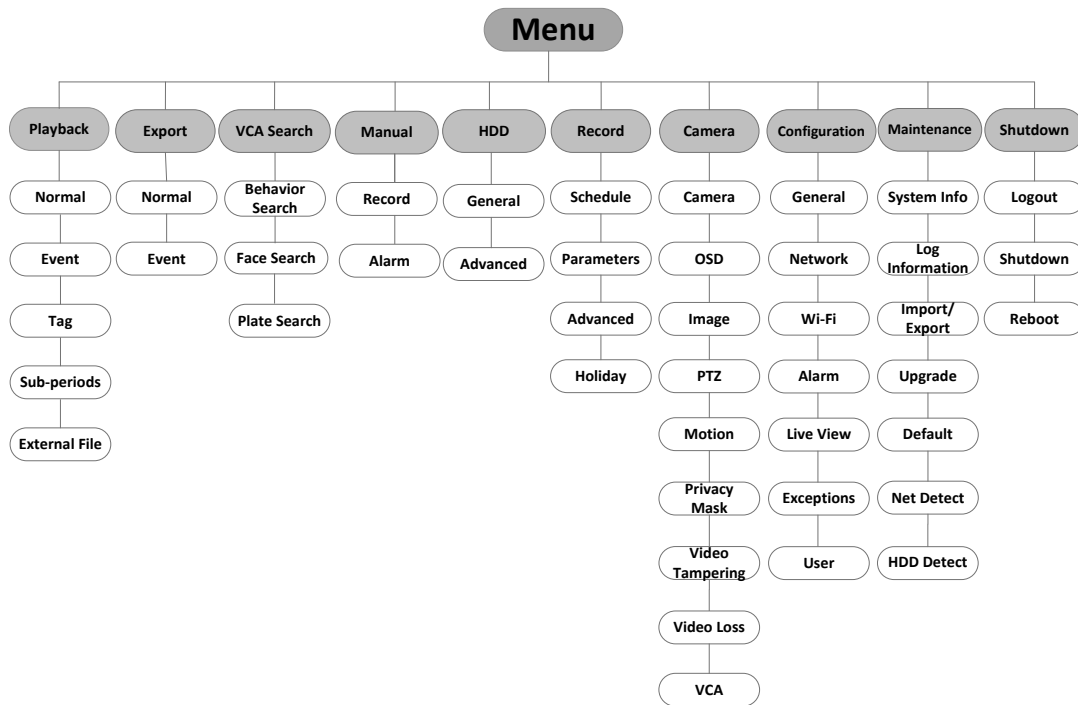
Figure 3-1 Menu Structure

3.2 Starting Up and Shutting Down the Wi-Fi NVR

Purpose:

Proper startup and shutdown procedures are crucial to expanding the life of the Wi-Fi NVR.

Before you start:

Check that the voltage of the extra power supply meets the Wi-Fi NVR requirements, and the ground connection is working properly.

3.2.1 Starting up

Step 1 Plug the power supply into an electrical outlet. It is HIGHLY recommended that an Uninterruptible Power Supply (UPS) be used in conjunction with the device.

3.2.2 Shutting down

Step 1 Go to **Menu > Shutdown.**
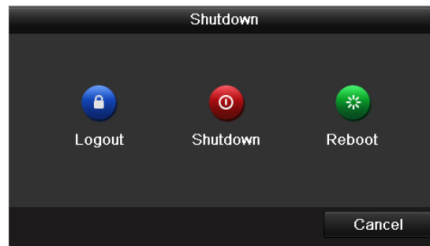
Figure 3-2 Shutdown

Step 2 Click the **Shutdown** button.

Step 3 Click the **Yes** button.

Step 4 When the dialog box "Please power off" shows, unplug the power supply.

3.2.3 Rebooting

Step 1 Go to **Menu > Shutdown**.

Step 2 Click the **Logout** button to lock the Wi-Fi NVR or the Reboot button to reboot the Wi-Fi NVR.

3.3 Activating Your Device

Purpose:

For the first-time access, you need to activate the device by setting an admin password. No operation is allowed before activation. You can also activate the device via Web Browser, SADP or client software.

Step 1 Input the same password in the text field of **Create New Password** and **Confirm New Password**.

Figure 3-3 Set Admin Password

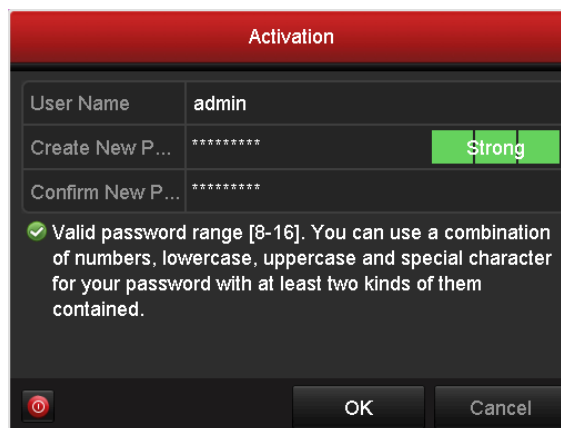⚠️ **WARNING**

STRONG PASSWORD RECOMMENDED–We highly recommend you create a strong password of your own choosing (Using a minimum of 8 characters, including at least three of the following categories: upper case letters, lower case letters, numbers, and special characters.) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

Step 2 Click **OK** to save the password and activate the device.

ℹ️ **NOTE**

For the old version device, if you upgrade it to the new version, the following dialog box will pop up once the device starts up. You can click **YES** and follow the wizard to set a strong password.

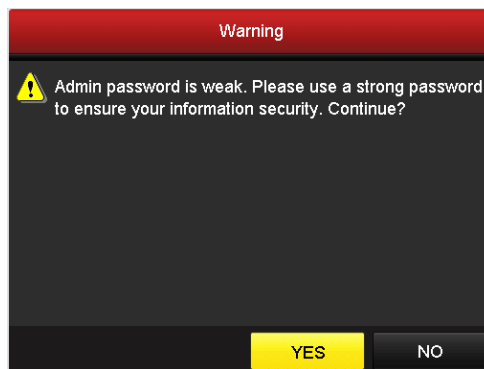Figure 3-4 Warning of Weak Password

3.4 Using the Unlock Pattern for Login

For the Admin user, you can configure the unlock pattern for device login.

After the device is activated, you can enter the following interface to configure the device unlock pattern.

Step 1 Use the mouse to draw a pattern among the 9 dots on the screen. Release the mouse when the pattern is done.

Figure 3-5 Draw the Pattern

- Connect at least 4 dots to draw the pattern.
- Each dot can be connected for once only.

Step 2 Draw the same pattern again to confirm it. When the two patterns match, the pattern is configured successfully.

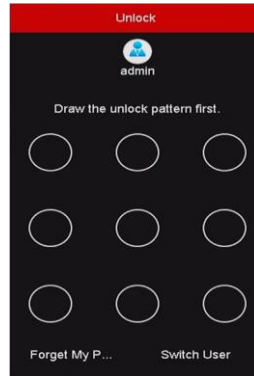Step 3 You can use the configured unlock pattern for future login.

Figure 3-6 Draw the Unlock Pattern

3.5 Login and Logout

3.5.1 User Login

Purpose:

If Wi-Fi NVR has logged out, you must login the device before operating the menu and other functions.

Step 1 Select the **User Name** in the dropdown list.

Figure 3-7 Login

Step 2 Input Password.

Step 3 Click **OK** to log in.

ℹ️ **NOTE**

In the Login dialog box, if you enter the wrong password 7 times, the current user account will be locked for 60 seconds.

3.5.2 User Logout

Purpose:

After logging out, the monitor turns to the live view mode and if you want to perform any operations, you need to enter user name and password login again.
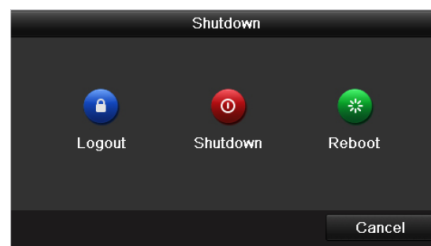
Step 1 Go to **Menu > Shutdown**.

Figure 3-8 Logout

Step 2 Click **Logout**.

ℹ️ **NOTE**

After you have logged out the system, menu operation on the screen is invalid. It is required to input a user name and password to unlock the system.

3.6 Using the Setup Wizard

The Setup Wizard can walk you through some important settings of the device. By default, the Setup Wizard starts once the device has loaded.

Check the checkbox to enable Setup Wizard when device starts. Click **Next** to continue the setup wizard. Follow the guide of the Setup Wizard to configure the system resolution, system date/time, network settings, HDD management, record settings, etc.
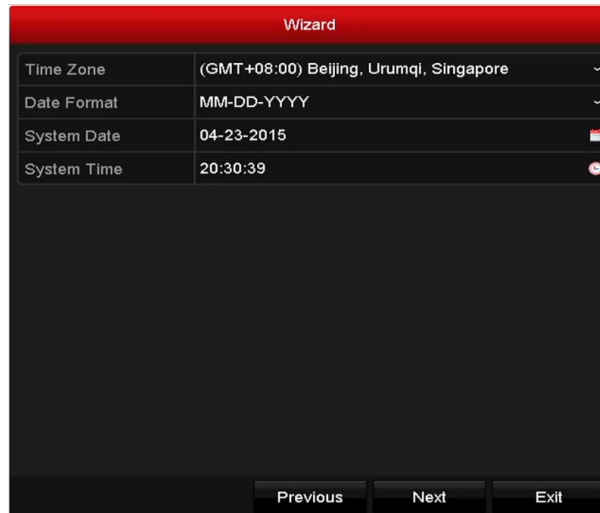
Figure 3-9 Wizard

3.7 General Network Settings

Purpose:

Network settings must be properly configured before you operate Wi-Fi NVR over network.

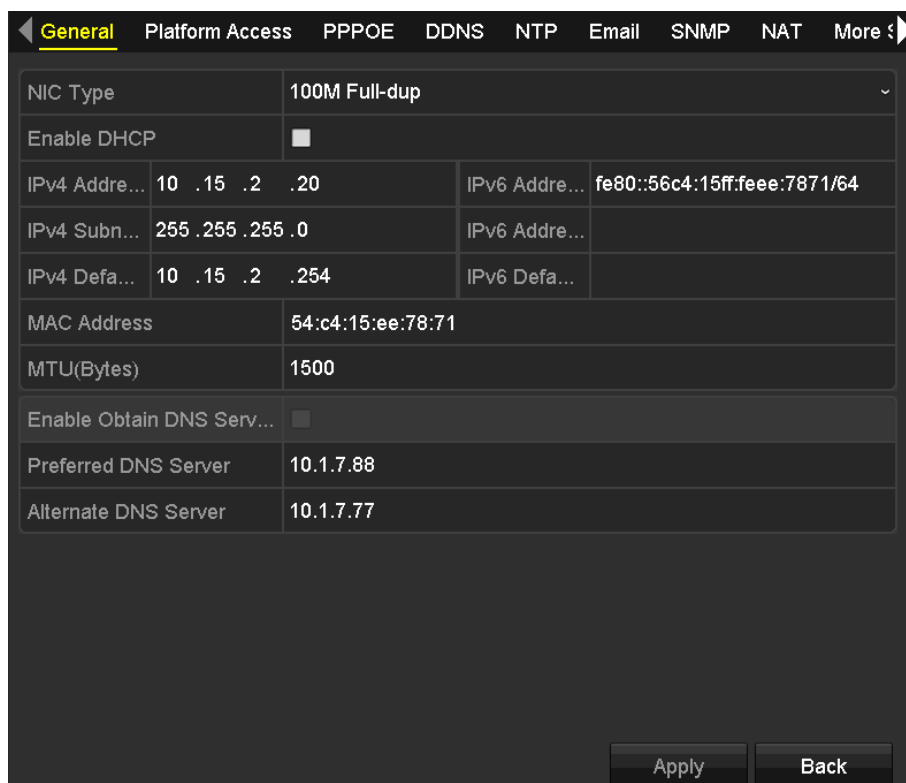Step 1 Go to **Menu > Configuration > Network**.

Figure 3-10 Network Settings

Step 2 Select the **General** tab.

Step 3 In the **General Settings** interface, you can configure the following settings: NIC Type, IPv4 Address, IPv4 Gateway, MTU and DNS Server.

Step 4 If the DHCP server is available, you can check the checkbox of **DHCP** to automatically obtain an IP address and other network settings from that server.
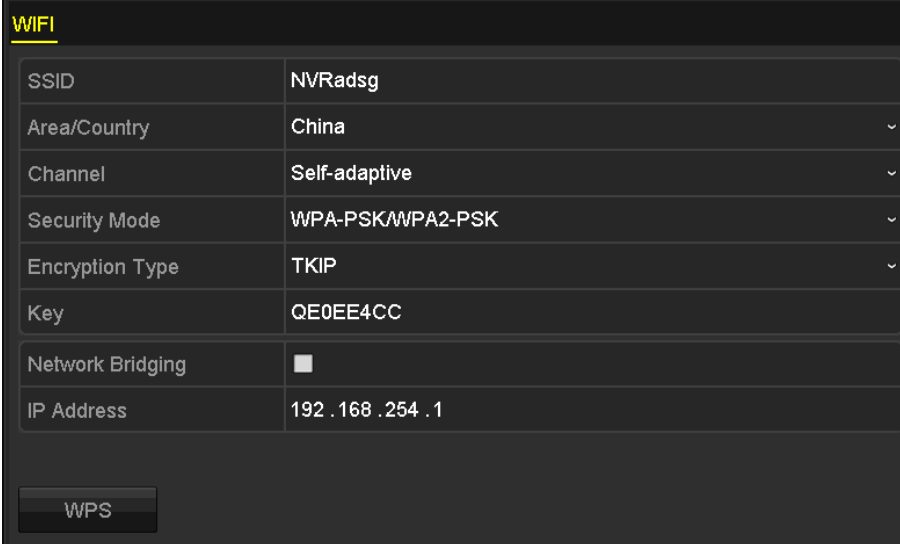
Step 5 After having configured the general settings, click the **Apply** button to save the settings.

3.8 Wi-Fi Settings

Purpose:

The device can work as a wireless network router. Follow the steps to setup a network router.

Step 1 Go to **Menu > Configuration > WiFi**.

Figure 3-11 Wi-Fi Settings

Step 2 Configure wireless network parameters, including **SSID, Security Mode, Key,** and **Network Bridging**.

● **SSID**: It is the short for Service Set Identifier. SSID is the WiFi name that the device provides.

● **Area/Country:** Select where the router is used.

● **Channel**: Select the best channel according to your situation.

● **Security Mode**: Select the security protocol for wireless network.

● **Encryption Type**: It is used to protect information. **TKIP** and **AES** are selectable.

● **Key**: Enter the encryption key.

● **WPS:** It is the short of Wi-Fi Protected Setup. Click the button and then you can connect the wireless network without password for once.

● **Network Bridging**: Enable device to create a single aggregate network from multiple communication networks or network segments.

Step 3 Click **Apply** to save the settings.

3.9 Adding IP Cameras

Purpose:

Before you can get live video or record the videos, you should add the network cameras to the device.

Before you start:

● Ensure the network connection is valid and correct.

![NOTE icon] **NOTE**

Cameras in the product bundle and bound IP cameras will automatically connect the NVR Wi-Fi.

● Activate the IP cameras to add. Please refer to the User Manual for activating the inactive IP camera.

Step 1 Click to select an idle window in the live view mode.

Step 2 Click the ![+] icon in the center of the window to pop up the Add IP Camera interface.

No.	IP Address	Amount of...	Device Ty...	Protocol	Managem
1	10.16.1.62	1	IPC	HIKVISION	8000
2	10.16.1.199	1	IP Dome	HIKVISION	8000

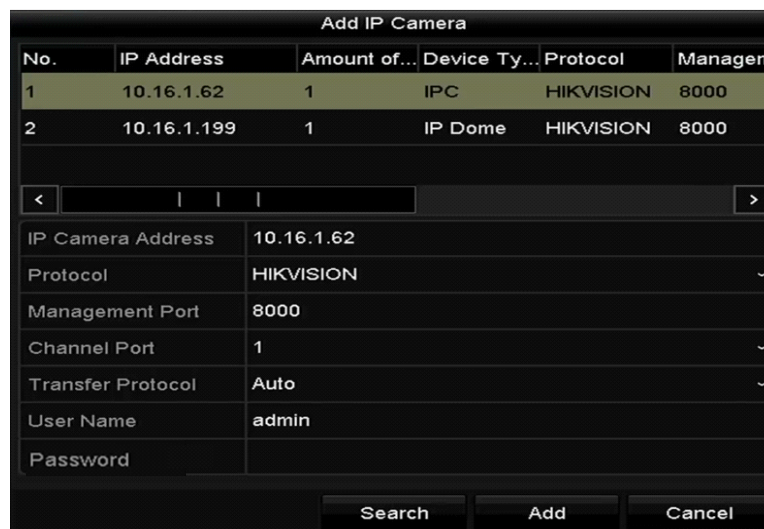|	
IP Camera Address	10.16.1.62
Protocol	HIKVISION
Management Port	8000
Channel Port	1
Transfer Protocol	Auto
User Name	admin
Password	

Figure 3-12 Add IP Camera

Step 3 Select the detected IP camera and click the **Add** button to add it directly, and you can click the **Search** button to refresh the online IP camera manually.

Or you can choose to custom add the IP camera by editing the parameters in the corresponding text field and then click the Add button to add it.

3.10 Live View

Icons are provided on screen in Live View mode to indicate camera status. These icons include:
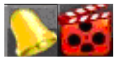
Live View Icons

In the live view mode, there are icons at the upper-right corner of the screen for each channel, showing the status of the record and alarm in the channel for quick reference.

🔔 Alarm (video loss, tampering, motion detection, VCA or sensor alarm)

🎬 Record (manual record, continuous record, motion detection, VCA or alarm triggered record)

🔔🎬 Alarm and Record

⚠️ Event/Exception (event and exception information, appears at the lower-left corner of the screen.)

3.11 Recording Settings

Before you start:

Make sure that the disk has already been installed. If not, please install a disk and initialize it. You may refer to the user manual for detailed information.

Purpose:

Two kinds of record types are introduced in the following section, including Instant Record and All-day Record. And for other recording types, you may refer to the user manual for detailed information.

📖 **NOTE**

After rebooting all the manual records enabled are canceled.

Step 1 On the live view window, right lick the window and move the cursor to the **Start Recording** option, and select **Continuous Record** or **Motion Detection Record** on your demand.
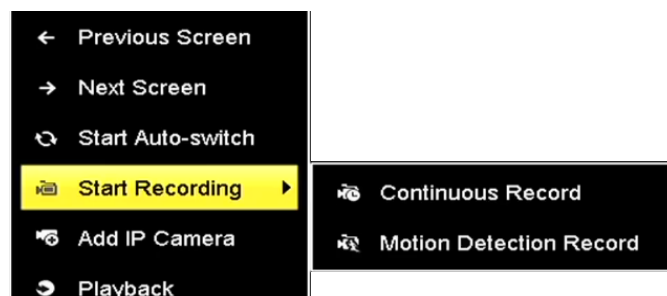
Figure 3-13 Start Recording from Right-click Menu

Step 2 Click the **Yes** button in the pop-up Attention message box to confirm the settings. All the channels will start to record in the selected mode.

3.12 Playback

The recorded video files on the HDD can be played back in the following modes: instant playback, all-day playback for the specified channel, and playback by normal/event/smart/tag/external file search.

Step 1 Go to **Menu > Playback**.

Step 2 Check channel(s) in the channel list and then double-click to select a date on the calendar.

Step 3 You can use the toolbar in the bottom part of Playback interface to control playing progress.

Figure 3-14 Playback Interface

Step 4 Select the channel(s) to or execute simultaneous playback of multiple channels.

Chapter 4 Accessing by Web Browser

NOTE

You shall acknowledge that the use of the product with Internet access might be under network security risks. For avoidance of any network attacks and information leakage, please strengthen your own protection. If the product does not work properly, please contact with your dealer or the nearest service center.

Purpose:

You can get access to the device via web browser. You may use one of the following listed web browsers: Internet Explorer 6.0, Internet Explorer 7.0, Internet Explorer 8.0, Internet Explorer 9.0, Internet Explorer 10.0, Apple Safari, Mozilla Firefox, and Google Chrome. The supported resolutions include 1024*768 and above.

Step 1 Open web browser, input the IP address of the device and then press Enter.

Step 2   Login to the device.

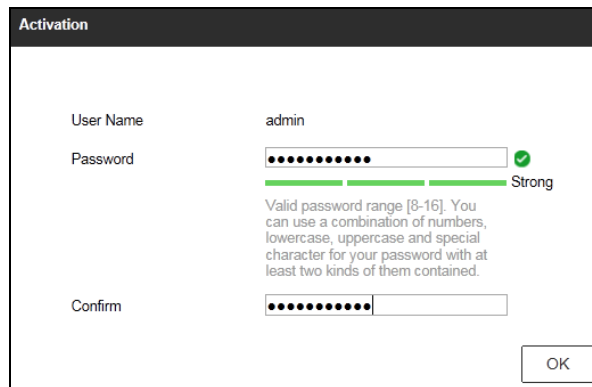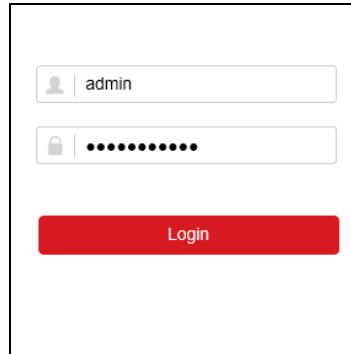● If the device has not been activated, you need to activate the device first before login.

Figure 4-1 Set Admin Password

1) Set the password for the admin user account.
2) Click **OK** to login to the device.

WARNING

STRONG PASSWORD RECOMMENDED– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password regularly, especially in the high security system, resetting the password monthly or weekly can better protect your product.

● If the device is already activated, enter the user name and password in the login interface, and click the **Login** button.

Figure 4-2 Login

Step 3 Install the plug-in before viewing the live video and managing the camera. Please follow the installation prompts to install the plug-in.

NOTE

You may have to close the web browser to finish the installation of the plug-in.

After login, you can perform the operation and configuration of the device, including the live view, playback, log search, configuration, etc.

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