

The background of the top half of the page features a large, stylized graphic. On the left, there is a semi-circular radar-like display with concentric white arcs and red tick marks. To its right is a larger, more complex graphic consisting of concentric semi-circular bands in shades of grey and red, with a central white crosshair and three white dots of increasing size. The A1 Security Cameras logo is positioned at the top left, with the 'A1' in a large, bold, black font and the 'S' in 'SECURITY' in a smaller, bold, black font. The word 'CAMERAS' is in a large, bold, black font, and 'SION' is in a large, bold, italicized black font. Below the logo, the tagline 'The First Name in Security' is written in a smaller, black font.

A1 SECURITY CAMERAS *SION*

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Quick Start Guide

UD.6L0202B1986A01

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Quick Start Guide

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About this Manual

This Manual is applicable to WIFI NVR (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.

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Regulatory information **FCC information**

FCC compliance: 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.

Note: This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

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 Low Voltage Directive 2006/95/EC, the R&TTE Directive 1999/5/EC, 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

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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

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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 manual is applicable to the model **DS-7108N1-E1/V/W**.

NVR Pre-Installation

The NVR is highly advanced surveillance equipment that should be installed with care. Please take into consideration the following precautionary steps before installation of the NVR.

- Keep all liquids away from the NVR.
- Install the NVR in a well-ventilated and dust-free area.
- Ensure environmental conditions meet factory specifications.

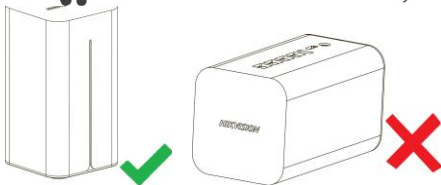
NVR Installation

During the installation of the NVR:

- Use brackets for rack mounting.
- Ensure there is ample room for cables.
- When routing cables, ensure that the bend radius of the cables are no less than five times than its diameter.
- Allow at least 2cm (≈ 0.75 -inch) of space between racks mounted devices.
- Environmental temperature should be within the range of $0^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ($+32^{\circ}\text{F} \sim +104^{\circ}\text{F}$).
- Environmental humidity should be within the range of $10\% \sim 90\%$.
- Lay the device in a proper way, as shown below.

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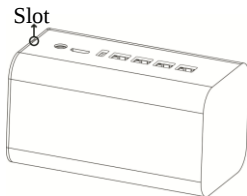
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HDD Installation

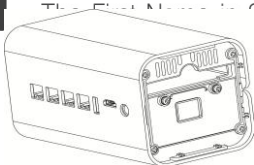
A HDD is required for the purpose of storage videos, logs, etc.

1. Insert a screwdriver into the slot below the power supply interface to uninstall the cover in bottom.

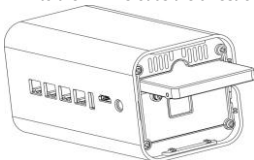


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2. Insert the 2.5-inch HDD into the HDD slot as the direction shown below.

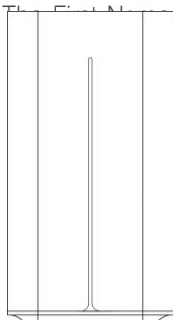


3. Install the cover and lay the device properly.

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Main Features

- Support establishing wired and wireless network instead of a wireless router.
- Support SADP automatically searching and adding active IP cameras.
- A build-in noiseless fan supports automatically adjusting speed.

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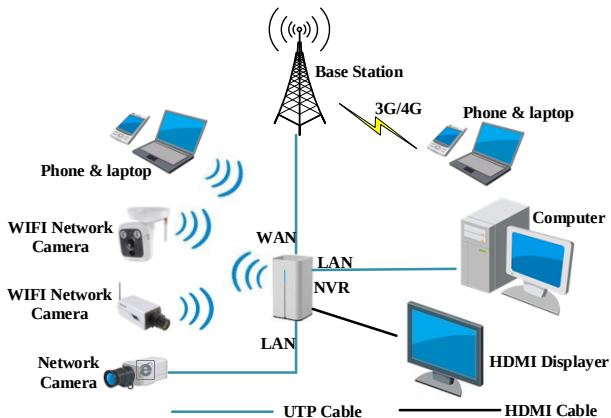
Quick Operat

Typical



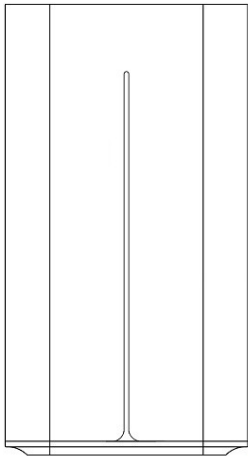
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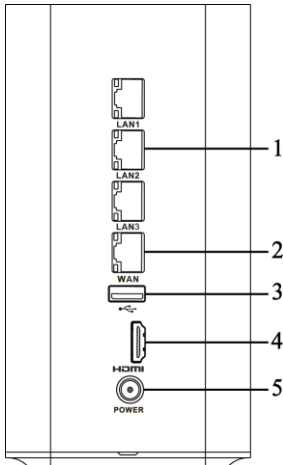


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Front Panel



Rear Panel

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No.	Name	Function Description
1	LAN Interface (1 ~ 3)	3 RJ-45 10 /100Mbps network interfaces for LAN (Local Area Networks).
2	WAN Interface	1 RJ-45 10 /100 Mbps network interface for WAN (Wide Area Networks).
3	USB Interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB writer.
4	HDMI	HDMI video output connector.
5	POWER	12VDC Power supply.

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Quick Oper:

Menu Op

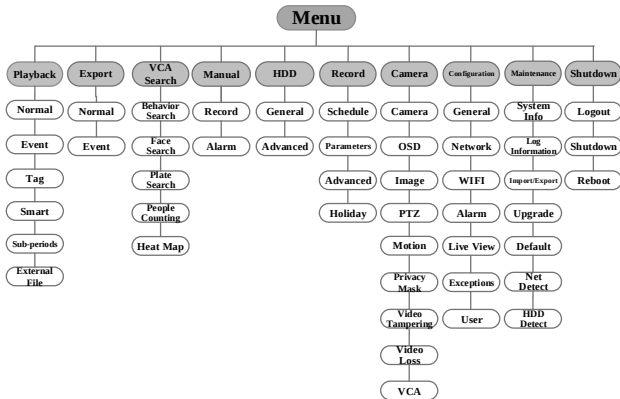


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You can operate the NVR locally via displayer and mouse connected to NVR.

Menu Structure



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Startup and Shutdown

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

To start your NVR:

Step:

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

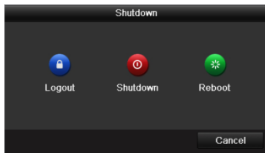
After the device starting up, the wizard will guide you through the initial settings, including modifying password, date and time settings, network settings, HDD initializing, and recording.

To shut down the NVR:

Steps:

1. Enter the Shutdown menu.

Menu > Shutdown

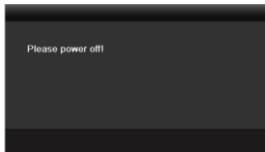


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2. Click t
3. Click the **Yes** button.
4. Unplug the power supply on the rear panel when the attention pops up.



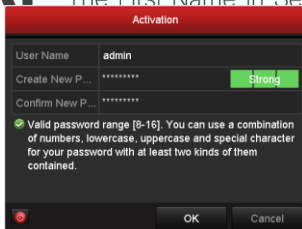
Setting the Admin Password

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.

Steps:

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



Activation

User Name	admin
Create New P...	***** Strong
Confirm New P...	*****

✓ Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.

OK Cancel

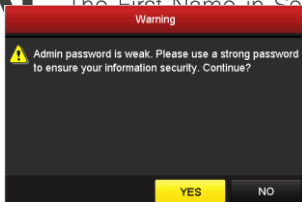


STRONG PASSWORD RECOMMENDED– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password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

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

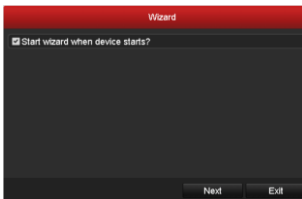


For the old version device, if you update it to the new version, the following dialog box will pop up once the device starts up. You can click **YES** and follow the wizard to set a strong password.



Using Wizard for Basic Configurations

After admin password is set, the setup wizard pops up automatically. It can walk you through some basic settings of the NVR.



Steps:

1. If you don't want to use the setup wizard at that moment, click the **Exit** button. You

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can also

wizard when

the device starts?” checkbox checked.

2. Click the **Next** button to enter the **Date and Time Settings** interface.

The screenshot shows a 'Wizard' window with a red header. It contains a table with the following settings:

Time Zone	(GMT+08:00) Beijing, Urumqi, Singapore	-
Date Format	MM-DD-YYYY	-
System Date	01-01-1970	🇺🇸
System Time	02:08:33	🕒

At the bottom, there are three buttons: 'Previous', 'Next', and 'Exit'.

3. After the time settings, click **Next** button which takes you to the WAN Setup Wizard window.

The screenshot shows a 'Wizard' window with a red header. The text inside says: 'Please select the network connection mode to access the internet:'. Below this, there are three radio button options under the label 'Connection Mode':

- ☒ PPPOE
- ☐ Dynamic IP Address
- ☐ Static IP Address

Below these options, there are two input fields:

Account	Account A
Password	*****

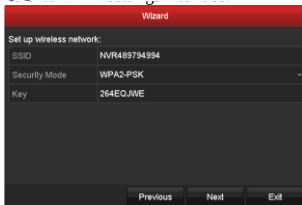
At the bottom, there are three buttons: 'Previous', 'Next', and 'Exit'.

4. Select the **Connection Mode** as **PPPoE** and input **Account** and **Password**.

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5. Click **Next**



Wizard

Set up wireless network:

SSID	NVR489794994
Security Mode	WPA2-PSK
Key	264EQJWE

Previous Next Exit

6. Edit **SSID** and select **Security Type**. Input **Network Security Key** if Security Type does not set as **Disable**.
7. Click **Next** button which takes you to the General Network Configuration window.



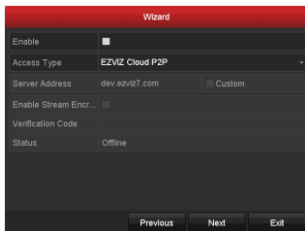
Wizard

NIC Type	10M/100M Self-adaptive
Enable DHCP	☐
IPv4 Address	192.168.254.100
IPv4 Subnet Mask	255.255.255.0
IPv4 Default Gateway	192.168.254.1
Preferred DNS Serv...	192.168.254.1
Alternate DNS Server	

Previous Next Exit

8. Click **Next** button after you configured the general network parameters. Then you will enter the **EZVIZ Cloud P2P** interface. Configure the EZVIZ Cloud P2P

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9. Click **Next** button to enter the **Advanced Network Parameter** interface. You can enable UPnP, enable DDNS and set other ports according to your need.

The screenshot shows a 'Wizard' window with a red title bar. It contains several configuration fields: 'Server Port' (8000), 'HTTP Port' (80), 'RTSP Port' (554), 'Enable UPnP' (checkbox), 'Enable DDNS' (checkbox), 'DDNS Type' (HIDDNS), 'Area/Country' (Custom), 'Server Address' (www.hiddns.com), 'Device Domain Name', 'Status' (Connecting the address server failed), 'User Name', and 'Password'. At the bottom are 'Previous', 'Next', and 'Exit' buttons.

Server Port	8000
HTTP Port	80
RTSP Port	554
Enable UPnP	☐
Enable DDNS	☒
DDNS Type	HIDDNS
Area/Country	Custom
Server Address	www.hiddns.com
Device Domain Name	
Status	Connecting the address server failed.
User Name	
Password	

10. After configuration finishes, click **Next** button to enter **HDD Management** interface.

The screenshot shows an 'HDD Management' window with a red title bar. It contains a table with columns: 'L...', 'Capacity', 'Status', 'Property', 'Type', and 'Free Space'. The table has one row with data: '1', '465.77GB', 'Normal', 'RW', 'Local', and '456.00GB'. Below the table is an 'Init' button. At the bottom are 'Previous', 'Next', and 'Exit' buttons.

L...	Capacity	Status	Property	Type	Free Space
1	465.77GB	Normal	RW	Local	456.00GB

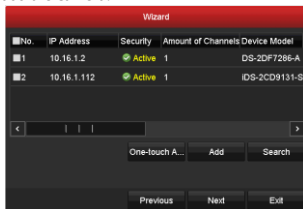
11. To initialize the HDD, click the **Init** button. Initialization removes all the data saved
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in the HDD.

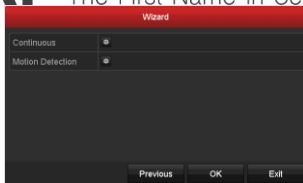
12. Click **Next** button. You enter the Adding IP Camera interface.
13. Click **Next** button to enter the **IP Camera Management** interface.
14. Click **Search** to search the online IP Camera and the **Security** status shows whether it is active or inactive. Before adding the camera, make sure the IP camera to be added is in active status.

If the camera is in inactive status, you can click the inactive icon of the camera to set the password to activate it. You can also select multiple cameras from the list and click the **One-touch Activate** to activate the cameras in batch.

Click the **Add** to add the camera.



15. Click **Next** button. Configure the recording for the added IP Cameras.



16. Click **OK** to complete the startup Setup Wizard.

Login and Logout

User Login

Purpose:

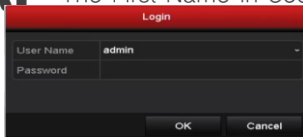
If NVR has logged out, you must login the device before operating the menu and other functions.

Steps:

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

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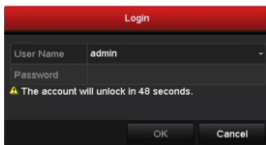
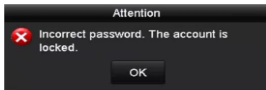


A login dialog box with a red title bar labeled "Login". It contains two input fields: "User Name" with the value "admin" and a dropdown arrow, and "Password". At the bottom are "OK" and "Cancel" buttons.

2. Input **Password**.
3. Click **OK** to log in.



The device gets locked for 60 seconds if the admin user performs 7 failed password attempts (5 attempts for the guest/operator).



User Logout

Purpose:

After logging out, the monitor turns to the live view mode and if you want to do some

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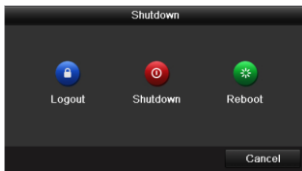
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operation, you

Steps:

1. Enter the Shutdown menu.

Menu > Shutdown



2. Click **Logout**.



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.

Adding IP Cameras

You should add and configure the online IP cameras to enable the live view and recording function.

Before you start:

Ensure the network connection is valid and correct, and the IP camera to add has already

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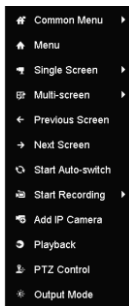
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been activated. Please refer to the User Manual for activating the inactive IP camera.

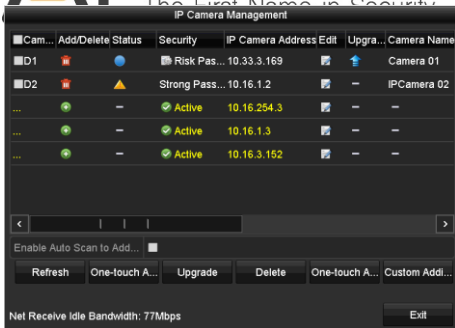
You can select one of the following three options to add the IP camera.

Steps:

1. Right-click the mouse when you in the live view mode to show the right-click menu.



2. Click **Add IP Camera** to enter the IP Camera Management interface.



3. Click the  button to add the camera.



- The online cameras with same network segment will be displayed in the camera list.
- The added cameras are marked in white while these have not been added are marked in yellow.



Icon	Explanation
	Edit basic parameters of the camera
	Add the detected IP camera.
	The camera is connected.
	The camera is disconnected; you can click the icon to get the exception information of camera.
	Delete the IP camera
	Advanced settings of the camera.
	Upgrade the connected IP camera.
Security	Show the security status of the camera to be active/inactive or the password strength (strong/medium/weak/risk)

4. To add other IP cameras:

- 1) Click the **Custom Adding** button to pop up the Add IP Camera (Custom) interface.

Add IP Camera (Custom)

No.	IP Address	Amount of Channels	Device Model
2	10.16.1.3	1	DS-2CD2112-I
1	10.16.254.3	1	IDS-2DF5220S-D4W/J
3	10.16.3.152	1	IDS-2CD2112-I

IP Camera Address: 10.16.1.3

Protocol: HIKVISION

Management Port: 8000

Transfer Protocol: Auto

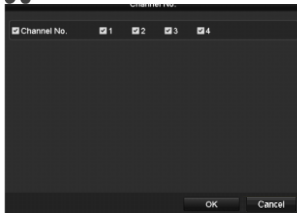
User Name: admin

Admin Password:

☒ Continue to Add

Protocol Search Add Back

- 2) You can edit the IP address, protocol, management port, and other information of the IP camera to be added.
- 3) Click **Add** to add the camera.
- 4) (For the encoders with multiple channels only) check the checkbox of Channel No. in the pop-up window, as shown in the following figure, and click **OK** to finish adding.



Live View

After exit the wizard, you will enter live view interface. You can view the image of added cameras there.

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, so that you can find problems as soon as possible.



Alarm (video loss, tampering or motion detection)



Record (manual record, continuous record or motion detection record)



Alarm & Record

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

Playback

Play back the record files of a specific channel in the live view menu. Channel switch is supported.

● Option 1:

Choose a channel under live view using the mouse and click the  button in the shortcut operation menu.



Only record files recorded during the past five minutes of channel will be played back.



● Option 2:

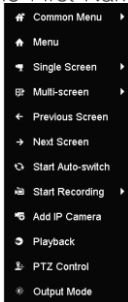
Steps:

1. Enter the Playback menu.

Right-click a channel in live view mode and select Playback from the menu. Record files of the selected channel will be played back.

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2. Playback management.

Check the channel or channels if you want to execute simultaneous playback of multiple channels.

The toolbar in the bottom part of Playback interface can be used to control playing process.

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Accessing by Web Browser

You can access to the device via web browser.

Before you start:

1. Establish the connection between the NVR and Internet via the WAN interface.
 2. Establish the network connection between your computer and the NVR via wired or wireless network.
- **Wired network:** connect the Ethernet port of computer to the LAN interface of NVR. And configure the IP address of computer on the principle that the network segment is the same with NVR, that is 192.168.254.×××.
 - **Wireless network:** the default SSID and key of wireless network provided by NVR is in the tag of device.

Logging in and Using Wizard

Steps:

1. Open web browser, input the IP address of the device (the default IP address: 192.168.254.100) and then press **Enter**. The login interface appears.
- If the device has not been activated, activate the device first before login.

Activation

User Name admin

Password ✓ Strong

Valid password range [8-16]. You can use a combination of numbers, lowercase, uppercase and special character for your password with at least two kinds of them contained.

Confirm

OK

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

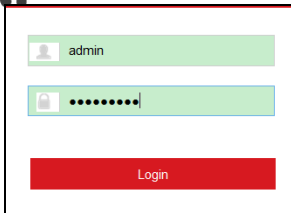


STRONG PASSWORD RECOMMENDED– We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your password 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.

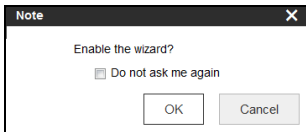
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A login form with a white background and a black border. It contains three main elements: a username field with a person icon and the text 'admin', a password field with a lock icon and ten dots, and a red 'Login' button at the bottom.

- 1) Input the **User Name** and **Password**, and click the **Login** button to pop up wizard.



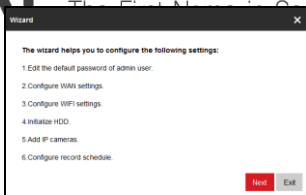
2. Click **OK** to enable the wizard.



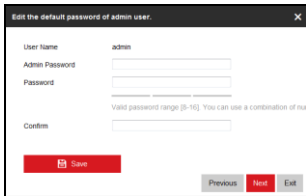
It will lead you to configure basic configurations, including setting password, configuring WAN and WIFI parameters, initializing HDD, adding IP cameras and setting record schedule.

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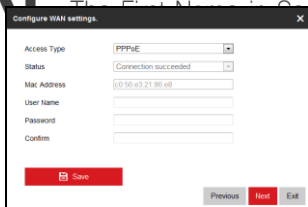
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3. Click **Next** to enter **Edit Password** interface.



4. Input **Admin Password**, **New Admin Password** and **Confirm**.
5. Click **Save** to save the new password and click **Next** to enter WAN settings interface.



Configure WAN settings.

Access Type: PPPoE

Status: Connection succeeded

Mac Address: c0 56 e3 21 86 e8

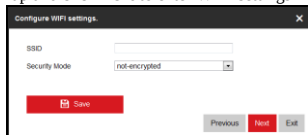
User Name:

Password:

Confirm:

Save Previous Next Exit

- Set the **Access Type** as **PPPoE**, input **User Name**, **Password** and **Confirm**.
- Click **Save** to dial up and click **Next** to enter WIFI settings interface.



Configure WIFI settings.

SSID:

Security Mode: not-encrypted

Save Previous Next Exit

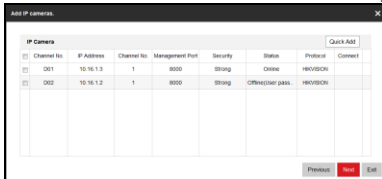
- Input the new **SSID** (the name of WIFI) and **Key**.
- Click **Save** to create WIFI and click **Next** to enter HDD Initialization interface.



10. Select the **HDD No.** and click **Format** to format it.
11. After the formatting finishes, click **Next** to enter Add IP Camera interface.



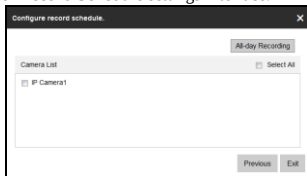
- Before you add IP cameras, please establish the network connection between IP cameras and the NVR via wired or wireless network. For details, you can refer to the *before you start* section in *Accessing by Web Browser*
- Hikvision WIFI IP camera which has default user name and password and is within 2m distance from the NVR will be added automatically.



12. Click **Quick Add**.

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13. Check
14. Click **Next** to enter **Record Schedule** settings interface.



15. Select the added cameras and click **All-day Recording** to enable recording for them.
16. Click **Exit** to finish wizard and enter home page.
17. When you log in for the first time, the system will remind you to install the Plug-in control. After the installation, you can configure and manage the device remotely.



- You may use one of the following listed web browsers: Internet Explorer 6.0, 7.0, 8.0, 9.0 and 10.0, Apple Safari, Mozilla Firefox, and Google Chrome.
- The supported resolutions are 1024*768 and above.

Live View

Purpose:

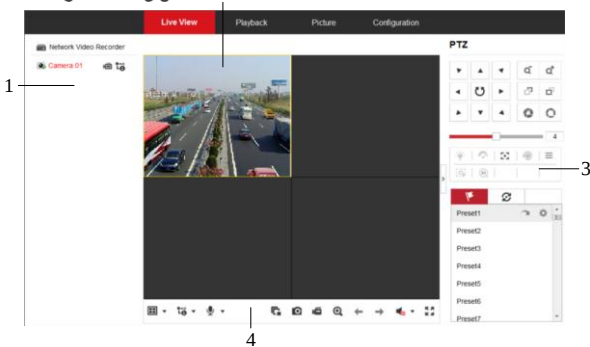
You can view the live image of the added cameras in the live view interface. The live view window is shown below.

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No.	Name	Description
1	Channel List	Displays the list of channels and the playing and recording status of each channel.  NOTE The live view stream can be switched by clicking the icon before the channel name:  stands for main

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No.	Name	Description
		stream and  for sub-stream.
2	Live View Window	Displays the image of channel, and multi-window division is supported.
3	PTZ Control	Pan, tilt, zoom operations are supported, as well as preset editing and calling.  PTZ function can only be realized if the connected camera supports PTZ control.
4	Play Control Bar	Play control operations are supported.

Start Live View

Steps:

1. In the live view window, select a playing window by clicking the mouse.
2. Double click a camera from the Channel List to start the live view.
3. Click  on the Play Control Bar to start live view of all added cameras.

Refer to the following table for the description of buttons on the Play Control Bar.

Icon	Description
	Select window-division mode.

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Icon	Description
	Switch live view stream as main stream or sub-stream.
	Start/stop two-way audio
	Start/stop all live view
	Capture pictures in the live view mode
	Start/stop all recording
	Enable/disable digital zoom
	Previous/next page
	Open/close audio
	Adjust volume
	Full screen

Playback

You can playback the record files in HDD in playback interface, as shown below.

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No.	Name	Description
1	Channel List	Displays the list of channels and the playing status of each channel.
2	Playback Window	Displays the playback image.
3	Play Control Bar	Play control operations are supported.

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No.		
4	Time Line	Displays the time bar and the records marked with different colors.
5	Playback Status	Displays the playback status.
6	Calendar	You can select the date to play.

Start Playback

Steps:

1. Click **Playback** on the menu bar to enter playback interface.
2. Click to select the camera from the channel list for playback.
3. Click to select a date from the calendar and click **Search**.
4. Click  in toolbar to play the video file searched on the current date.
5. Use the buttons on the toolbar to operate in playback mode. The description of buttons in toolbar is shown below.

Button	Description	Button	Description
	Select window-division mode.		Reverse playback/Pause
	Stop		Slow down
	Play/Pause		Speed up

Buttons	Description	Buttons	Description
	Play by single frame		Stop all playback
	Capture		Video clip
	Enable/disable digital zoom		Open/Close audio
	Adjust volume		Download
	Full screen		

6. You can drag the progress bar with the mouse to locate the exact playback point.

You can also input the time in the textbox and click  button to locate the playback point.

The color of the video on the progress bar stands for the different video types.

■ Command
 ■ Continuous
 ■ Alarm
 ■ Manual

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