



HIKVISION

Network Video Recorder

Quick Start Guide

UD00613B

TABLE OF CONTENTS

Chapter1 Description of Panels	6
1.1 Front Panel	6
1.2 Rear Panel	11
Chapter 2Installation and Connections.....	14
2.1 NVR Installation.....	14
2.2 Hard Disk Installation.....	14
2.3 Connections	18
Wiring of Alarm Input.....	18
Wiring of Alarm Output	18
Connection of Alarm Connectors	19
2.4 HDD Storage Calculation Chart	20
Chapter 3Menu Operation	21
3.1 Menu Structure	21
3.2 Startup and Shutdown.....	21
3.3 Activating Your Device	22
3.4 Using the Unlock Pattern for Login.....	23
3.5 Login and Logout	24
User Login	24
User Logout	25
3.6 Using the Setup Wizard	25
3.7 Network Settings	26
3.8 Adding IP Cameras	27
3.9 Live View	28
3.10 Recording Settings.....	28
3.11 Playback	29
Chapter 4Accessing by Web Browser	30

Quick Start Guide

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About this Manual

This Manual is applicable to Network Video Recorder (NVR).

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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FCC Information

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 EMC Directive 2004/108/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 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 (A)/NMB-3(A) standards requirements.



Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into “Warnings” and “Cautions”

Warnings: Serious injury or death may occur if any of the warnings are neglected.

Cautions: Injury or equipment damage may occur if any of the cautions are neglected.

	
Warnings Follow these safeguards to prevent serious injury or death.	Cautions Follow these precautions to prevent potential injury or material damage.



Warnings

- 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.



Applicable Models

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

Series	Models
DS-7600NI-E1/E2 series	DS-7604NI-E1, DS-7608NI-E1, DS-7616NI-E1
	DS-7604NI-E1/4P
	DS-7604NI-E1/4N
	DS-7608NI-E2, DS-7616NI-E2, DS-7632NI-E2
	DS-7608NI-E2/8P, DS-7616NI-E2/8P, DS-7616NI-E2/16P, DS-7632NI-E2/8P
	DS-7608NI-E2/8N, DS-7616NI-E2/8N, DS-7632NI-E2/8N
DS-7700NI-E4 series	DS-7708NI-E4, DS-7716NI-E4, DS-7732NI-E4
	DS-7708NI-E4/8P, DS-7716NI-E4/16P, DS-7732NI-E4/16P
DS-8600NI-E8 series	DS-8608NI-E8, DS-8616NI-E8, DS-8632NI-E8

Symbol Conventions

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

Symbol	Description
	Indicates a potentially hazardous situation, which if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
	Provides additional information to emphasize or supplement important points of the main text.

Chapter1 Description of Panels

1.1 Front Panel

DS-8600NI-E8

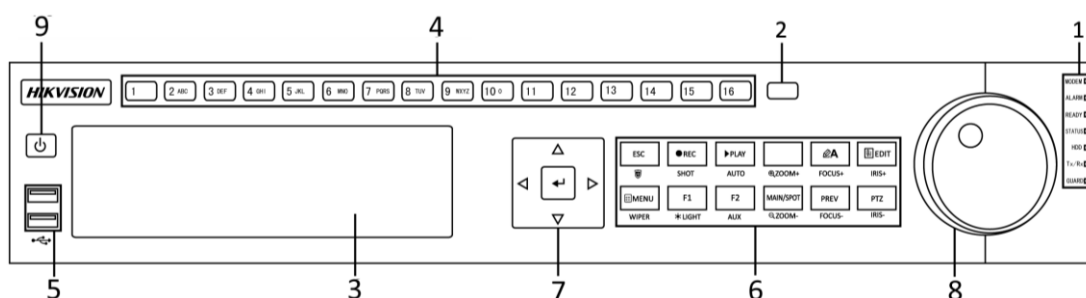


Figure 1. 1 Front Panel of DS-8600NI-E8

Table 1. 1 Description of Front Panel

No.	Name	Function Description
1	Status Indicators	ALARM Turns red when a sensor alarm is detected.
		READY Ready LED is normally blue, indicating that the device is functioning properly.
		STATUS Turns blue when device is controlled by an IR remote. Turns red when controlled by a keyboard and purple when IR remote and keyboard is used at the same time.
		HDD Flashes red when data is being read from or written to HDD.
		MODEM Reserved for future usage.
		Tx/Rx Flashes blue when network connection is functioning properly.
		GUARD Guard LED turns blue when the device is in armed status; at this time, an alarm is enabled when an event is detected. The LED turns off when the device is unarmed. The arm/disarm status can be changed by pressing and holding on the ESC button for more than 3 seconds in live view mode.
2	IR Receiver	
3	DVD-R/W	
4	Alphanumeric Buttons	
4	Alphanumeric Buttons	Switch to the corresponding channel in Live view or PTZ Control mode.
		Input numbers and characters in Edit mode.
		Switch between different channels in Playback mode.
		The light of the button is blue when the corresponding channel is recording; it is red when the channel is in network transmission status; it is pink when the channel is recording and transmitting.
5	USB Interfaces	Universal Serial Bus (USB) ports for additional devices such as

No.	Name		Function Description
6	Composite Keys		USB mouse and USB Hard Disk Drive (HDD).
		ESC	Back to the previous menu.
			Press for Arming/disarming the device in Live View mode.
		REC/SHOT	Enter the Manual Record setting menu.
			In PTZ control settings, press the button and then you can call a PTZ preset by pressing Numeric button.
			It is also used to turn audio on/off in the Playback mode.
		PLAY/AUTO	The button is used to enter the Playback mode.
			It is also used to auto scan in the PTZ Control menu.
		ZOOM+	Zoom in the PTZ camera in the PTZ Control setting.
		A/FOCUS+	Adjust focus in the PTZ Control menu.
			It is also used to switch between input methods (upper and lowercase alphabet, symbols and numeric input).
		EDIT/IRIS+	Edit text fields. When editing text fields, it will also function as a Backspace button to delete the character in front of the cursor.
			On checkbox fields, pressing the button will <i>tick</i> the checkbox.
			In PTZ Control mode, the button adjusts the iris of the camera.
			In Playback mode, it can be used to generate video clips for backup.
			Enter/exit the folder of USB device and eSATA HDD.
		MAIN/SPOT/ZOO M-	Switch between main and spot output.
			In PTZ Control mode, it can be used to zoom out the image.
		F1/ LIGHT	Select all items on the list when used in a list field.
			In PTZ Control mode, it will turn on/off PTZ light (if applicable).
			In Playback mode, it is used to switch between play and reverse play.
		F2/ AUX	Cycle through tab pages.
			In synchronous playback mode, it is used to switch between channels.
		MENU/WIPER	Press the button will help you return to the Main menu (after successful login).
			Press and hold the button for 5 seconds will turn off audible key beep.
			In PTZ Control mode, the MENU/WIPER button will start wiper (if applicable).
			In Playback mode, it is used to show/hide the control interface.
		PREV/FOCUS-	Switch between single screen and multi-screen mode.
			In PTZ Control mode, it is used to adjust the focus in conjunction with the A/FOCUS+ button.
		PTZ/IRIS-	Enter the PTZ Control mode.
			In the PTZ Control mode, it is used to adjust the iris of the PTZ camera.
7	Control Buttons	DIRECTION	The DIRECTION buttons are used to navigate between different fields and items in menus.
			In the Playback mode, the Up and Down button is used to speed up and slow down recorded video. The Left and Right button

No.	Name		Function Description
			will select the next and previous record files.
			In Live View mode, these buttons can be used to cycle through channels.
			In PTZ control mode, it can control the movement of the PTZ camera.
		ENTER	The ENTER button is used to confirm selection in any of the menu modes.
			It can also be used to <i>tick</i> checkbox fields.
			In Playback mode, it can be used to play or pause the video.
			In single-frame Playback mode, pressing the button will advance the video by a single frame.
			In Auto-switch mode, it can be used to stop /start auto switch.
8	JOG SHUTTLE Control	Move the active selection in a menu. It will move the selection up and down.	
		In Live View mode, it can be used to cycle through different channels.	
		In the Playback mode: The outer ring is used to speed up or slow down the record files and the inner ring is used to jump 30s forward/backward in records files.	
		In PTZ control mode, it can control the movement of the PTZ camera.	
9	POWER ON/OFF		Power on/off switch.

DS-7700NI-E4 (/P)

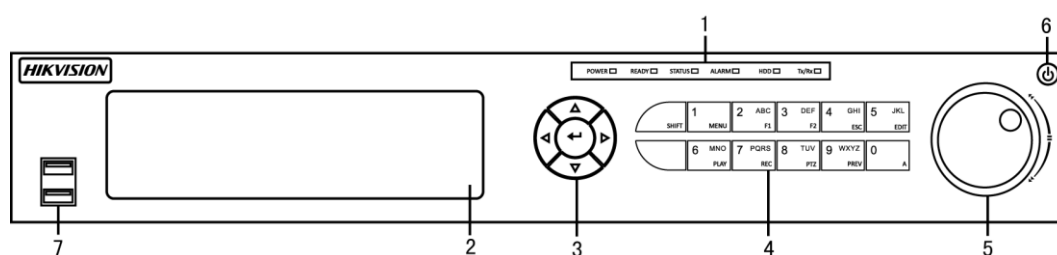


Figure 1. 2 DS-7700NI-E4 (/P) Series

Table 1. 2 Description of Front Panel

No.	Name		Function Description
1	Status Indicators	POWER	Turns green when NVR is powered up.
		READY	The LED is green when the device is running normally.
		STATUS	The light is green when the IR remote control is enabled; The light is red when the function of the composite keys (SHIFT) are used; The light is out when none of the above condition is met.
		ALARM	The light is red when there is an alarm occurring.
		HDD	Blinks red when HDD is reading/writing.

No.	Name		Function Description
		Tx/Rx	Blinks green when network connection is functioning normally.
2	DVD-R/W		Slot for DVD-R/W.
3	Control Buttons	DIRECTION	In menu mode, the direction buttons are used to navigate between different fields and items and select setting parameters.
			In playback mode, the Up and Down buttons are used to speed up and slow down record playing, and the Left and Right buttons are used to move the recording 30s forwards or backwards.
			In the image setting interface, the up and down button can adjust the level bar of the image parameters.
			In live view mode, these buttons can be used to switch channels.
		ENTER	The Enter button is used to confirm selection in menu mode; or used to check checkbox fields and ON/OFF switch.
			In playback mode, it can be used to play or pause the video.
			In single-frame play mode, pressing the Enter button will play the video by a single frame.
			In auto sequence view mode, the buttons can be used to pause or resume auto sequence.
4	Composite Keys	SHIFT	Switch between the numeric or letter input and functions of the composite keys. (Input letter or numbers when the light is out; Realize functions when the light is red.)
		1/MENU	Enter numeral "1";
			Access the main menu interface.
		2/ABC/F1	Enter numeral "2";
			Enter letters "ABC";
			The F1 button when used in a list field will select all items in the list.
			In PTZ Control mode, it will turn on/off PTZ light and when the image is zoomed in, the key is used to zoom out.
		3/DEF/F2	Enter numeral "3";
			Enter letters "DEF";
			The F2 button is used to change the tab pages.
			In PTZ control mode, it zooms in the image.
		4/GHI/ESC	Enter numeral "4";
			Enter letters "GHI";
			Exit and back to the previous menu.
		5/JKL/EDIT	Enter numeral "5";
			Enter letters "JKL";
			Delete characters before cursor;
			Check the checkbox and select the ON/OFF switch;
			Start/stop record clipping in playback.
		6/MNO/PLAY	Enter numeral "6";
			Enter letters "MNO";
			Playback, for direct access to playback interface.
		7/PQRS/REC	Enter numeral "7";
			Enter letters "PQRS";
			Open the manual record interface.

No.	Name		Function Description
		8/TUV/PTZ	Enter numeral “8”;
			Enter letters “TUV”;
			Access PTZ control interface.
		9/WXYZ/PRE V	Enter numeral “9”;
			Enter letters “WXYZ”;
			Multi-channel display in live view.
		0/A	Enter numeral “0”;
			Shift the input methods in the editing text field. (Upper and lowercase, alphabet, symbols or numeric input).
			Double press the button to switch the main and auxiliary output.
5	JOG SHUTTLE Control	Move the active selection in a menu. It will move the selection up and down.	
		In Live View mode, it can be used to cycle through different channels.	
		In the Playback mode, it can be used to jump 30s forward/backward in video files.	
		In PTZ control mode, it can control the movement of the PTZ camera.	
6	POWER ON/OFF		Power on/off switch.
7	USB Interfaces		Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).

DS-7600NI-E1/E2

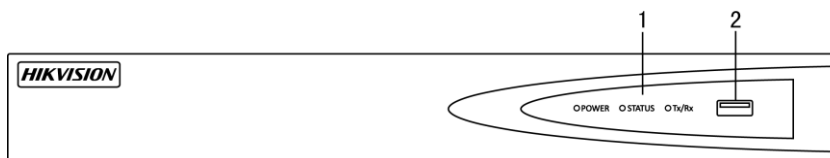


Figure 1.3 DS-7600NI-E1/E2 Series

Table 1.3 Description of Front Panel

No.	Name		Description
1	Status Indicator	Power	Power indicator turns green when system is running.
		Status	Status indicator blinks red when data is being read from or written to HDD.
		Tx/Rx	Tx/Rx indicator blinks green when network connection is functioning properly.
2	USB Interface		Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).

1.2 Rear Panel

DS-8600NI-E8, DS-7700NI-E4 and DS-7700NI-E4/P

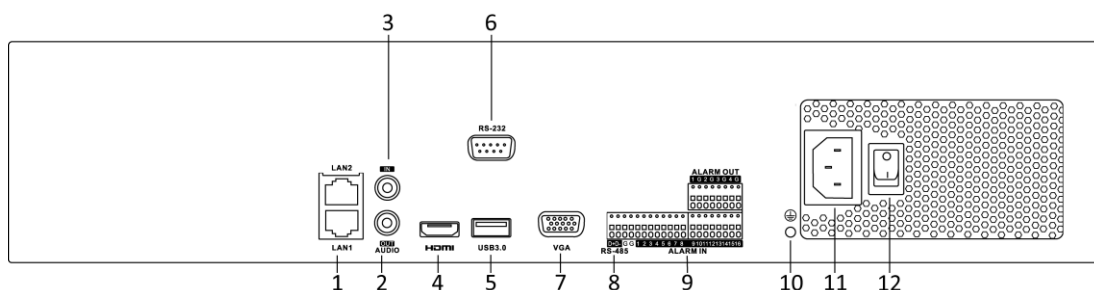


Figure 1. 4 DS-8600NI-E8 and DS-7700NI-E4 Series

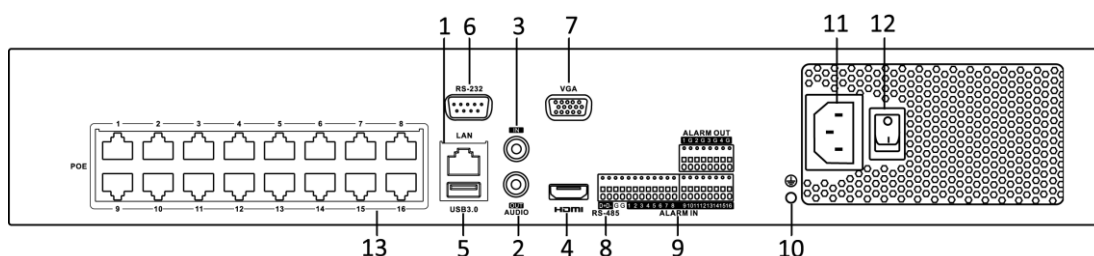


Figure 1. 5 DS-7700NI-E4/P Series

Table 1. 4 Description of Interfaces

No.	Item	Description
1	LAN Interface	1 network interface provided for DS-7700NI-E4/P and 2 network interfaces for DS-7700NI-E4 and DS-8600NI-E8.
2	AUDIO OUT	RCA connector for audio output.
3	LINE IN	RCA connector for audio input.
4	HDMI	HDMI video output connector.
5	USB 3.0 interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
6	RS-232 Interface	Connector for RS-232 devices.
7	VGA	DB9 connector for VGA output. Display local video output and menu.
8	RS-485 Interface	Half-duplex connector for RS-485 devices.
9	ALARM IN	Connector for alarm input.
	ALARM OUT	Connector for alarm output.
10	GROUND	Ground (needs to be connected when NVR starts up).
11	AC 100V ~ 240V	100V ~ 240V AC power supply.
12	Power Switch	Switch for turning on/off the device.
13	Network Interfaces with PoE function (supported by DS-7700NI-E4/P)	Network interfaces for the cameras and to provide power over Ethernet.

DS-7600NI-E1, DS-7600NI-E1/4N, DS-7600NI-E2 and DS-7600NI-E2/8N

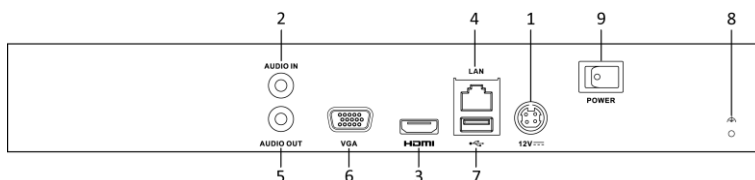


Figure 1. 6 DS-7600NI-E1/E2 Series

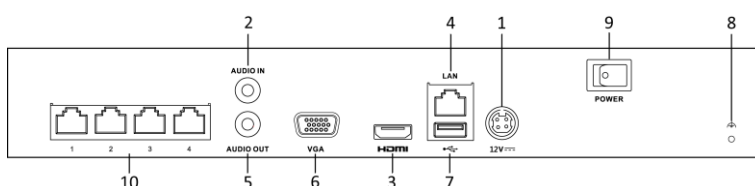


Figure 1. 7 DS-7600NI-E1/4N Series

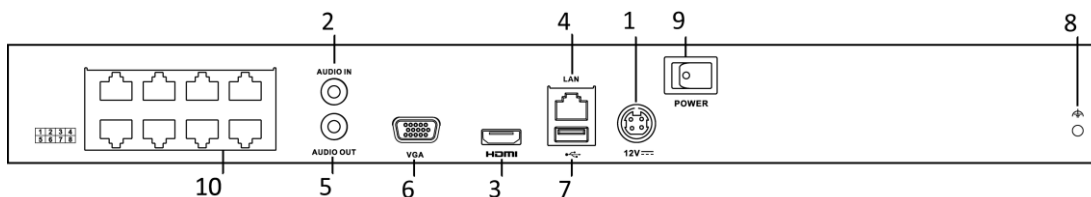


Figure 1. 8 DS-7600NI-E2/8N Series

Table 1. 5 Description of Interfaces

No.	Item	Description
1	Power Supply	DC 12V power supply.
2	Audio In	RCA connector for audio input.
3	HDMI Interface	HDMI video output connector.
4	LAN Network Interface	1 10 /100 /1000 Mbps self-adaptive Ethernet interface
5	Audio Out	RCA connector for audio output.
6	VGA Interface	DB9 connector for VGA output. Display local video output and menu.
7	USB Interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
8	Ground	Ground (needs to be connected when NVR starts up).
9	Power Switch	Switch for turning on/off the device.
10	Network Interfaces with built-in switch function	Built-in switch network interfaces for the cameras. (Supported by DS-7600NI-E1/4N, DS-7600NI-E2/8N and DS-7600NI-SN/N).

DS-7600NI-E1/4P and DS-7600NI-E2/8P

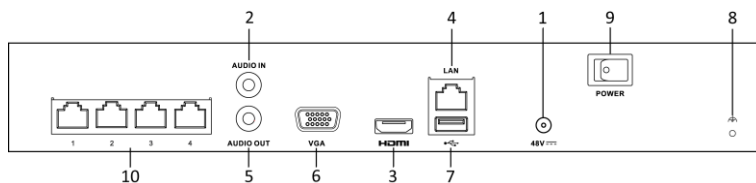


Figure 1. 9 DS-7600NI-E1/4P Series

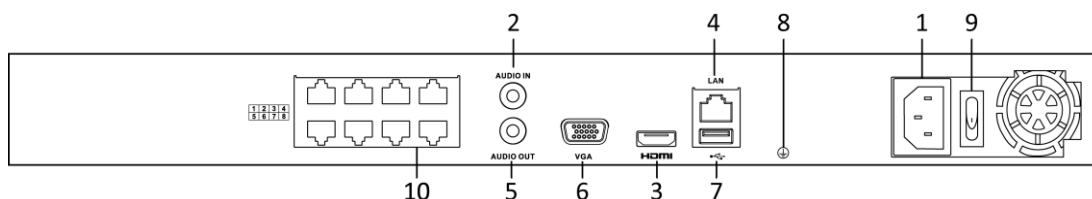


Figure 1. 10 DS-7600NI-E2/8P Series

Table 1. 6 Description of Rear Panel Interfaces

No.	Item	Description
1	Power Supply	48V DC power supply for DS-7600NI-E1/4P and AC 100~240V for DS-7600NI-E2/8P.
2	Audio In	RCA connector for audio input.
3	HDMI Interface	HDMI video output connector.
4	LAN Network Interface	1 10 /100 /1000 Mbps self-adaptive Ethernet interface
5	Audio Out	RCA connector for audio output.
6	VGA Interface	DB9 connector for VGA output. Display local video output and menu.
7	USB Interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
8	Ground	Ground (needs to be connected when NVR starts up).
9	Power Switch	Switch for turning on/off the device.
10	Network Interfaces with PoE function	Network interfaces for the cameras and to provide power over Ethernet.

Chapter 2 Installation and Connections

2.1 NVR Installation

During installation of the NVR:

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

2.2 Hard Disk Installation

Before you start:

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

Up to 8 SATA hard disks can be installed on your NVR.

Tools Required: Screwdriver.

Steps (for DS-8600NI-E8):

1. Remove the cover from the NVR by unfastening the screws on the back and side.



Figure 2. 1 Remove the Cover

2. Install the HDD in the HDD rack using the provided screws. Fasten the screws on the button to fix the HDD.

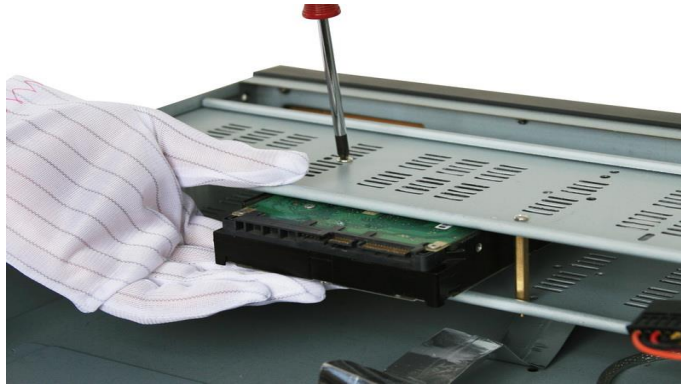


Figure 2. 2 Install the HDD

-
3. Connect one end of the data cable to the NVR motherboard and the other end to the HDD.

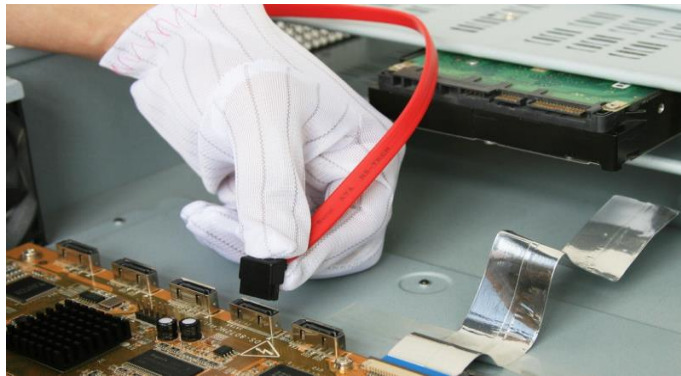


Figure 2. 3 Connect the data cable

-
4. Connect the power cable to the HDD.

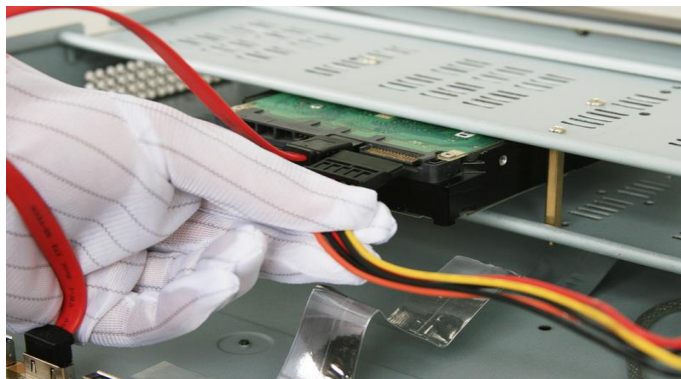


Figure 2. 4 Connect the power cable

-
5. Re-install the NVR cover and fasten screws.

Steps (for other models):

1. Remove the cover from the NVR by unfastening the screws on the rear and side panel.



Figure 2. 5 Remove the Cover

2. Connect one end of the data cable to the motherboard of NVR and the other end to the HDD.

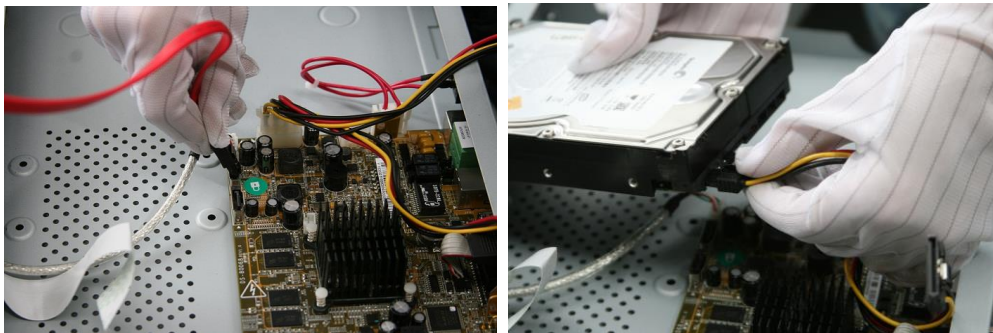


Figure 2. 6 Connect the data cable

3. Connect the power cable to the HDD.



Figure 2. 7 Connect the power cable

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



Figure 2. 8 Place the HDD on the bottom

-
5. Re-install the cover of the NVR and fasten screws.

2.3 Connections



This section is applicable for the DS-8600NI-E8, DS-7700NI-E4 and DS-7700NI-E4/P series only.

Wiring of Alarm Input

The alarm input is an open/closed relay. To connect the alarm input to the device, use the following diagram.



If the alarm input is not an open/close relay, please connect an external relay between the alarm input and the device.

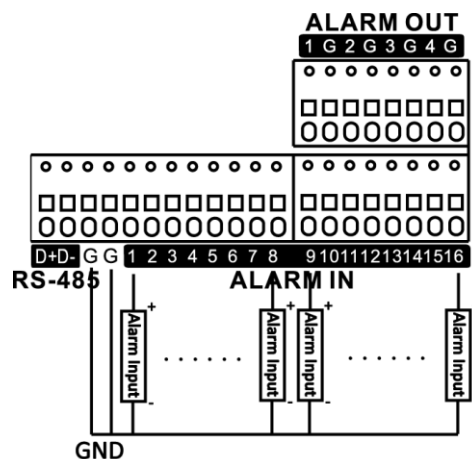


Figure 2.9 Alarm Input Wiring

Wiring of Alarm Output

To connect to an alarm output (AC or DC load), use the following diagram:

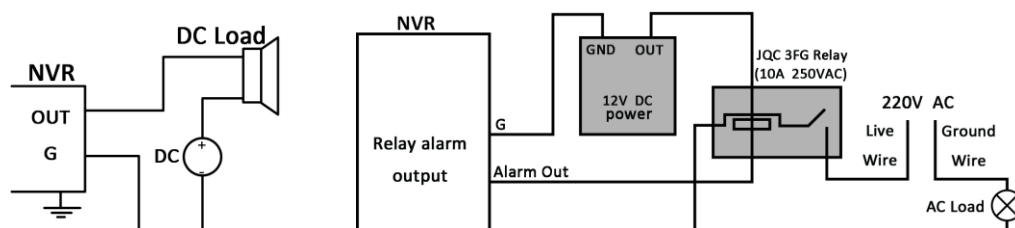


Figure 2.10 Alarm Output Wiring

For DC load, the jumpers can be used within the limit of 12V/1A safely.

To connect an AC load, jumpers should be left open (you must remove the jumper on the motherboard in the NVR). Use an external relay for safety (as shown in the figure above).

There are 4 jumpers (JP1, JP2, JP3, and JP4) on the motherboard, each corresponding with one alarm output. By default, jumpers are connected. To connect an AC load, jumpers should be removed.

Example:

If you connect an AC load to the alarm output 3 of the NVR, then you must remove the JP 3 jumper.

Connection of Alarm Connectors

To connect alarm devices to the NVR:

1. Disconnect *pluggable block* from the ALARM IN /ALARM OUT terminal block.
2. Unfasten stop screws from the *pluggable block*, insert signal cables into slots and fasten stop screws. Ensure signal cables are tight.
3. Connect *pluggable block* back into terminal block.

2.4 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



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:

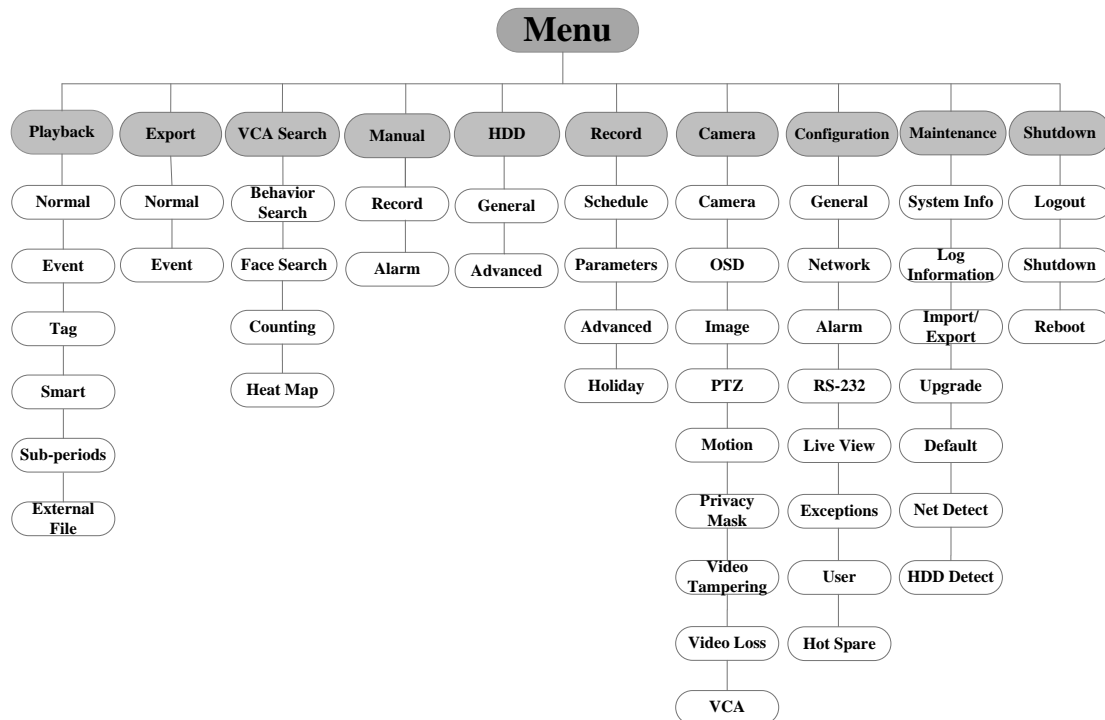


Figure 3. 1 Menu Structure



The menu structure may vary according to different models.

3.2 Startup and Shutdown

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

To start your NVR:

Steps:

1. 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. The Power button (for the DS-8600 series NVR) on the front panel should be red, indicating the device gets the power supply.
2. Press the POWER button on the front panel. The Power LED should turn blue (for the DS-8600-E8 series NVR) or green (for the DS-7700NI-E4(P) and DS-7600NI-E1/E2 series NVR). The unit will begin to start. 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:

1. Enter the Shutdown menu.
Menu > Shutdown

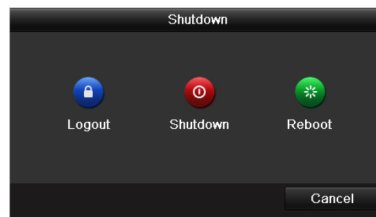


Figure 3. 2 Shutdown

2. Select the **Shutdown** button.
3. Click the **Yes** button.
4. Turn off the power switch on the rear panel when the attention pops up.

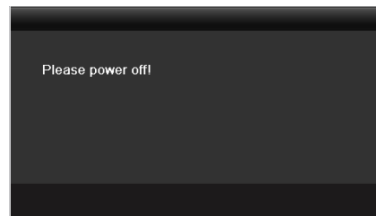


Figure 3. 3 Power off

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.

Steps:

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

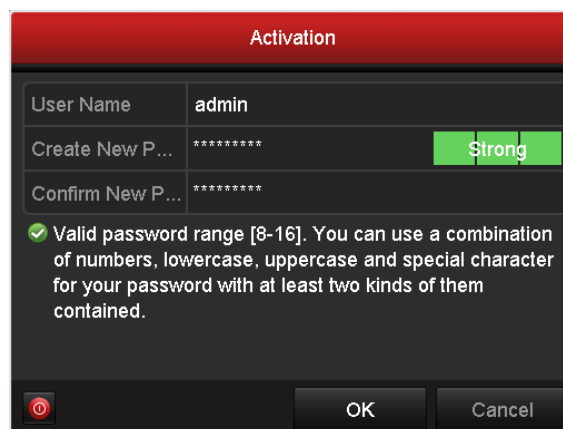


Figure 3. 4 Set Admin Password

! 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.

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



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.

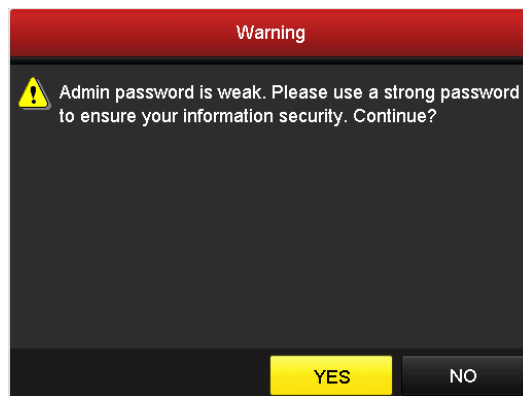


Figure 3. 5 Warning of Weak Password

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.

Steps:

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. 6 Draw the Pattern



- Connect at least 4 dots to draw the pattern.
 - Each dot can be connected for once only.
2. Draw the same pattern again to confirm it. When the two patterns match, the pattern is configured successfully.
 3. You can use the configured unlock pattern for future login.

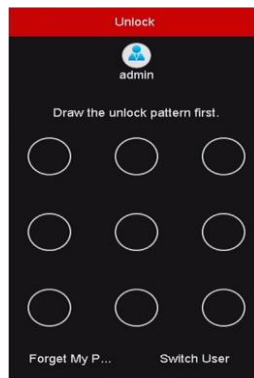


Figure 3. 7 Draw the Unlock Pattern

3.5 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.

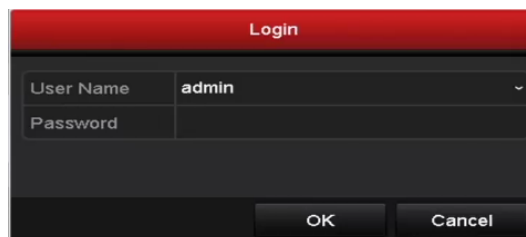
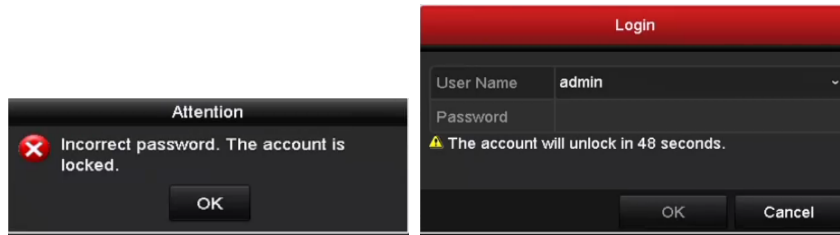


Figure 3. 8 Login

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



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

Figure 3.9 Account Lock

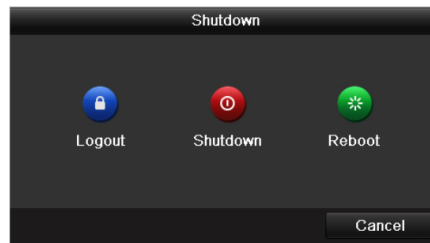
User Logout

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 log in again.

Steps:

1. Enter the Shutdown menu.
Menu > Shutdown

Figure 3.10 Logout

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.

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.

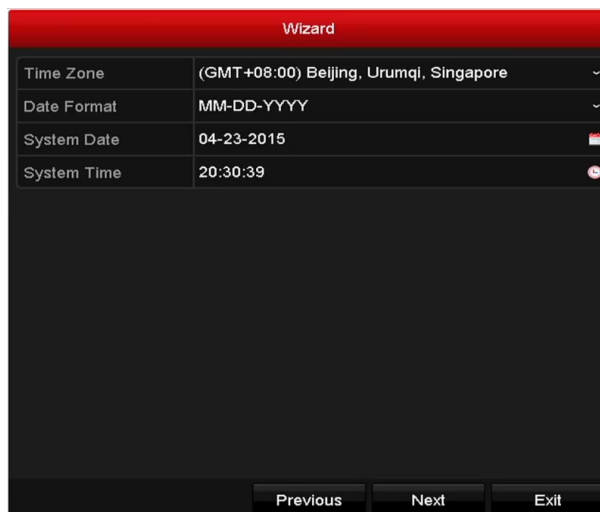


Figure 3.11 Wizard

3.7 Network Settings

Purpose:

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

Steps:

1. Enter the Network Settings interface.

Menu > Configuration > Network

Working Mode	Net Fault-tolerance		
Select NIC	bond0		
NIC Type	10M/100M/1000M Self-adaptive		
Enable DHCP	<input type="checkbox"/>		
IPv4 Address...	10 .16 .1 .96	IPv6 Address...	fe80::c256:e3ff:fe2b:e1e1/64
IPv4 Subn...	255 .255 .255 .0	IPv6 Address...	
IPv4 Defa...	10 .16 .1 .254	IPv6 Defa...	
MAC Address	c0:56:e3:2b:e1:e1		
MTU(Bytes)	1500		
Preferred DNS Server			
Alternate DNS Server			
Main NIC	LAN1		
<div>Apply Back</div>			

Figure 3.12 Network Settings



The dual-NIC network 10 /100/1000 Mbps self-adaptive Ethernet interfaces are provided for the DS-8600NI-E8 and DS-7700NI-E4 series NVR; one 10 /100 Mbps self-adaptive Ethernet interface for DS-7604/7608NI-E1(E2) series NVR; and one 10 /100/1000 Mbps self-adaptive Ethernet interface for other models.

2. Select the **General** tab.
3. In the **General Settings** interface, you can configure the following settings: NIC Type, IPv4 Address, IPv4 Gateway, MTU and DNS Server.
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.
4. After having configured the general settings, click the **Apply** button to save the settings.

3.8 Adding IP Cameras

Purpose:

Before you can get live video or record the video files, you should add the network cameras to the connection list of the device.


Before you start:

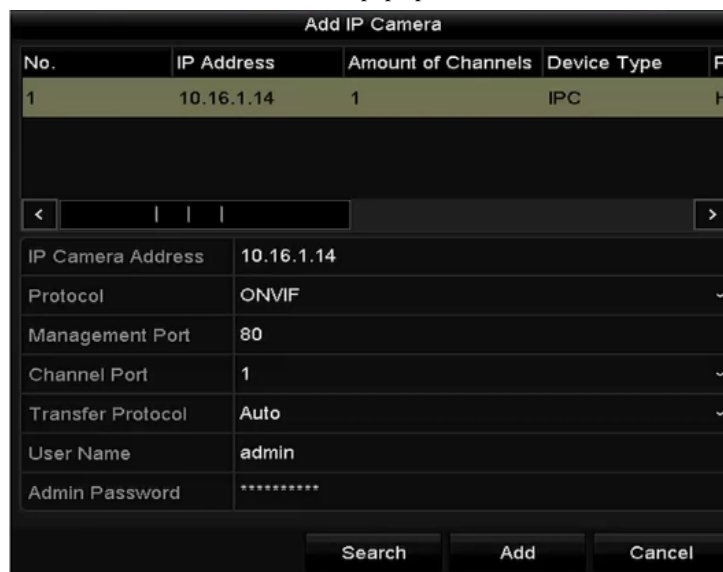
Ensure the network connection is valid and correct, and the IP camera to add has already been activated. Please refer to the *User Manual* for activating the inactive IP camera.

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

- **OPTION 1:**

Steps:

1. Click to select an idle window in the live view mode.
2. Click the  icon in the center of the window to pop up the Add IP Camera interface.



No.	IP Address	Amount of Channels	Device Type	Pl
1	10.16.1.14	1	IPC	H

IP Camera Address	10.16.1.14
Protocol	ONVIF
Management Port	80
Channel Port	1
Transfer Protocol	Auto
User Name	admin
Admin Password	*****

Figure 3. 13 Add IP Camera

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.

3.9 Live View

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

Live View Icons

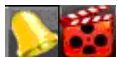
In the live view mode, there are icons at the upper-right corner of the screen for each channel, showing the status of the record and alarm in the channel for quick reference.



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.)

3.10 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 record types, you may refer to the user manual for detailed information.



After rebooting all the manual records enabled are canceled.

Steps:

1. On the live view window, right click the window and move the cursor to the **Start Recording** option, and select **Continuous Record** or **Motion Detection Record** on your demand.

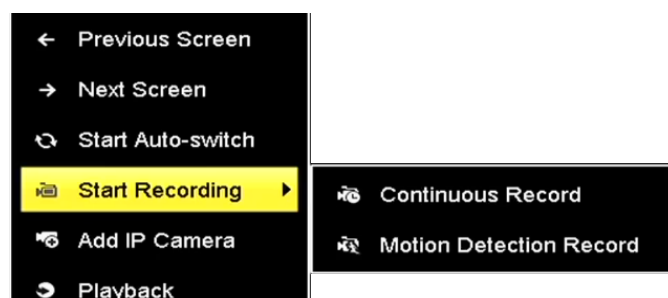


Figure 3. 14 Start Recording from Right-click Menu

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.

3.11 Playback

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

Steps:

1. Enter playback interface.
Click menu>playback or from the right-click menu.
2. Check the checkbox of channel(s) in the channel list and then double-click to select a date on the calendar.
3. You can use the toolbar in the bottom part of Playback interface to control playing progress.



Figure 3. 15 Playback Interface

Select the channel (s) you want to play back by checking the checkbox (es), or execute simultaneous playback of multiple channels.

Chapter 4 Accessing by Web Browser



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.

Steps:

1. Open web browser, input the IP address of the device and then press Enter.
2. Login to the device.
 - If the device has not been activated, you need to activate the device first before login.

The screenshot shows a web browser window titled "Activation". It contains a form with the following fields and elements:

- User Name:** A text box containing the value "admin".
- Password:** A text box filled with dots. To its right is a green checkmark icon and the word "Strong". Below the text box is a green progress bar that is nearly full.
- Confirm:** A text box filled with dots.
- Instructions:** Below the password field, there is a text block: "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 Button:** A button labeled "OK" is located at the bottom right of the form.

Figure 4. 1 Set Admin Password

- 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.

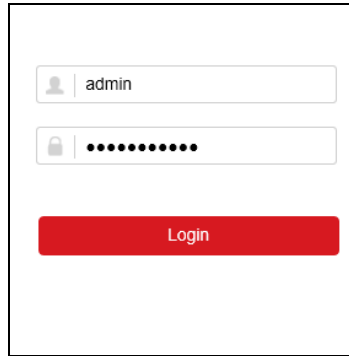
A login form with a white background and a black border. It contains two input fields: the first has a user icon and the text 'admin'; the second has a lock icon and ten dots representing a password. Below these fields is a red button with the text 'Login' in white.

Figure 4. 2 Login

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



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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