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Network Video Recorder

Quick Start Guide

TABLE OF CONTENTS

Chapter1 Panels Description	7
1.1 Front Panel.....	7
DS-7600NI-Q1 (/P) and DS-7600-K1(/P) (B) Series.....	7
DS-7600NI-Q2 (/P) Series.....	7
DS-7700NI-Q4 (/P) and DS-8600NI-Q8 Series.....	8
1.2 Rear Panel.....	9
DS-7600NI-Q1, DS-7600NI-K1 (B) and DS-7600NI-Q2 Series.....	9
DS-7600NI-Q1/P, DS-7600NI-K1/P(B) and DS-7600NI-Q2/P Series	9
DS-7700NI-Q4 (/P) and DS-8600NI-Q8 Series.....	10
Chapter 2 Installation and Connections	13
2.1 NVR Installation.....	13
2.2 Hard Disk Installation.....	13
2.3 HDD Storage Calculation Chart	15
Chapter 3 Menu Operation.....	16
3.1 Menu Structure	16
3.2 Startup and Shutdown.....	16
3.3 Activating Your Device.....	17
3.4 Using the Unlock Pattern for Login.....	19
3.5 User Login	19
3.6 Using the Setup Wizard	20
3.7 Network Settings	21
3.8 Adding IP Cameras	21
3.9 Live View	22
3.10 Recording Settings.....	23
3.11 Playback.....	23
Chapter 4 Accessing by Web Browser.....	25

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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

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 EMC Directive 2014/30/EU, the LVD Directive 2014/35/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 (A)/NMB-3(A) standards requirements.

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Applicable Models

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

Series	Model
DS-7600NI-Q1	DS-7604NI-Q1
	DS-7608NI-Q1
	DS-7616NI-Q1
DS-7600NI-Q2	DS-7608NI-Q2
	DS-7616NI-Q2
DS-7600NI-Q1/P	DS-7604NI-Q1/4P
	DS-7608NI-Q1/8P
DS-7600NI-Q2/P	DS-7608NI-Q2/8P
	DS-7616NI-Q2/16P
DS-7600NI-K1(B)	DS-7604NI-K1(B)
	DS-7608NI-K1(B)
	DS-7616NI-K1(B)
DS-7600NI-K1/P(B)	DS-7604NI-K1/4P(B)
	DS-7608NI-K1/8P(B)
DS-7700NI-Q4	DS-7708NI-Q4
	DS-7716NI-Q4
	DS-7732NI-Q4
DS-7700NI-Q4/P	DS-7708NI-Q4/8P
	DS-7716NI-Q4/16P
	DS-7732NI-Q4/16P
DS-8600NI-Q8	DS-8608NI-Q8
	DS-8616NI-Q8
	DS-8632NI-Q8

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

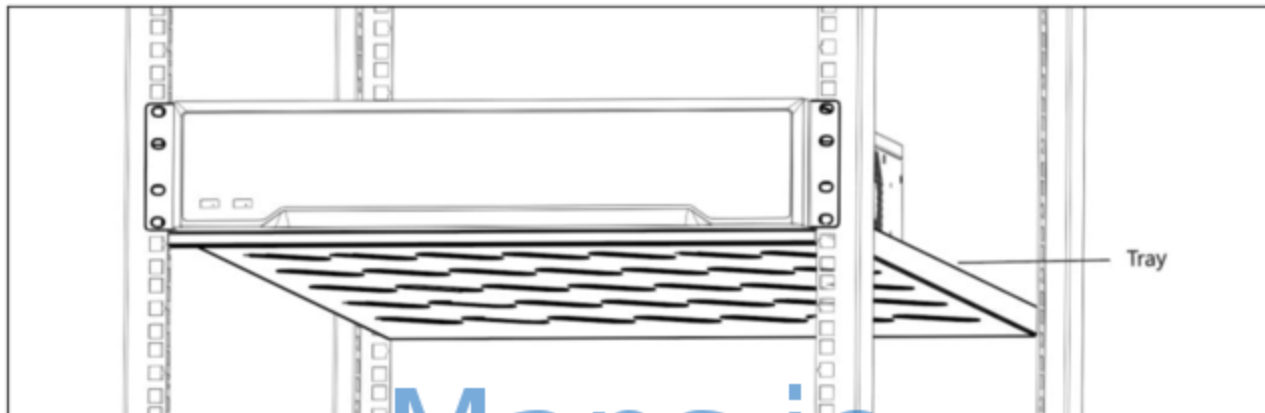
- Proper configuration of all passwords and other security settings is the responsibility of the installer and/or end-user.
- In the use of the product, you must be in strict compliance with the electrical safety regulations of the nation and region. Please refer to technical specifications for detailed 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.
- If the POE ports of device do not comply with Limited Power Source, the additional equipment connected to POE ports shall have fire enclosure.
- The USB interface of the /P devices can be connected with the mouse and U-flash disk storage device only.

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.
- When installing the device into a cabinet over 2U height, it is suggest to use rack shelf to bear the weight. If the cabinet height is over 4U, it is suggested to use slide rails or rack shelf to bear the weight.



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Chapter1 Panels Description

1.1 Front Panel

DS-7600NI-Q1 (/P) and DS-7600-K1(/P) (B) Series



Figure 1-1 DS-7600NI-Q1 (/P) and DS-7600-K1(/P) (B) Series

Table 1-1 Panel Description

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).

DS-7600NI-Q2 (/P) Series



Figure 1-2 DS-7600NI-Q2 and DS-7600NI-Q2/P Series

Table 1-2 Panel Description

No.	Name	Connections
1	POWER	Turns green when device is powered up.
2	HDD	Flickers red when data is being read from or written to HDD.
3	Tx/Rx	Flickers blue when network connection is functioning properly.
4	USB Interface	Universal Serial Bus (USB) port for additional devices such as USB mouse and USB Hard Disk Drive (HDD).

DS-7700NI-Q4 (/P) and DS-8600NI-Q8 Series

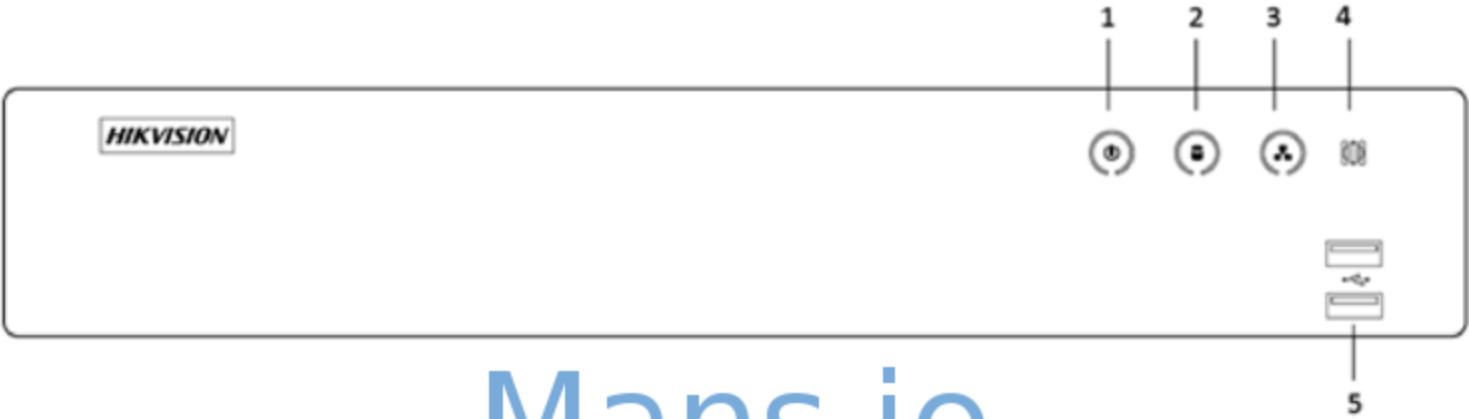


Figure 1-3 DS-7700NI-Q4 (/P) and DS-8600NI-Q8 Series

Table 1-3 Panel Description

No.	Name	Connections
1	POWER	Turns white when device is powered up.
2	HDD	Flickers red when data is being read from or written to HDD.
3	Tx/Rx	Flickers white when network connection is functioning properly.
4	Infrared Receiver	Receiver for IR remote control.
5	USB Interface	Universal Serial Bus (USB) port for additional devices such as USB mouse and USB Hard Disk Drive (HDD).

1.2 Rear Panel

DS-7600NI-Q1, DS-7600NI-K1 (B) and DS-7600NI-Q2 Series

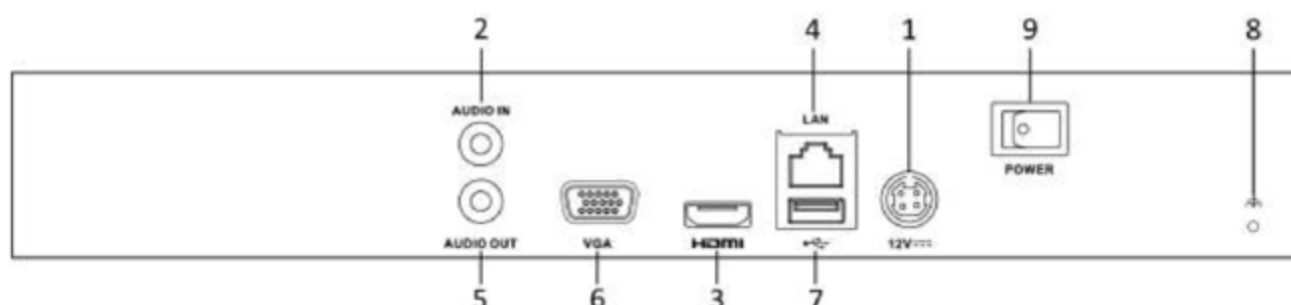


Figure 1-4 DS-7600NI-Q1, DS-7600NI-K1 (B) and DS-7600NI-Q2 Series

Table 1-4 Panel Description

No.	Item	Description
1	Power Supply	12 VDC 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.

DS-7600NI-Q1/P, DS-7600NI-K1/P(B) and DS-7600NI-Q2/P Series

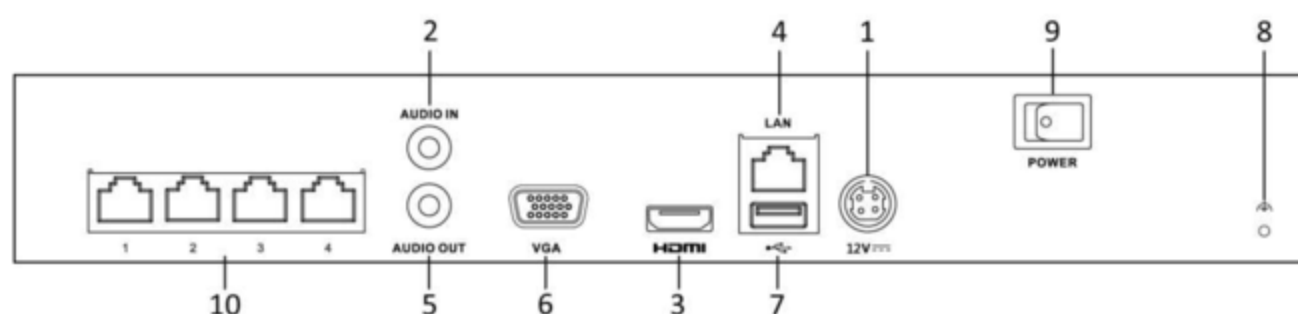


Figure 1-5 DS-7600NI-Q1/4P and DS-7604NI-K1/4P(B) Series

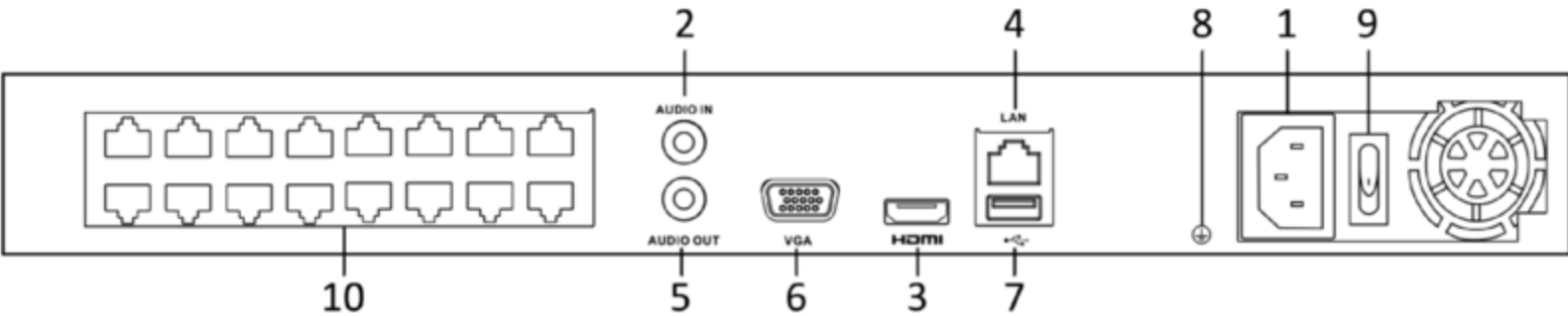


Figure 1-6 DS-7600NI-Q2/16P Series

Table 1-5 Panel Description

No.	Item	Description
1	Power Supply	100~240 VAC 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 PoE function	Network interfaces for the cameras and to provide power over Ethernet.

DS-7700NI-Q4 (/P) and DS-8600NI-Q8 Series

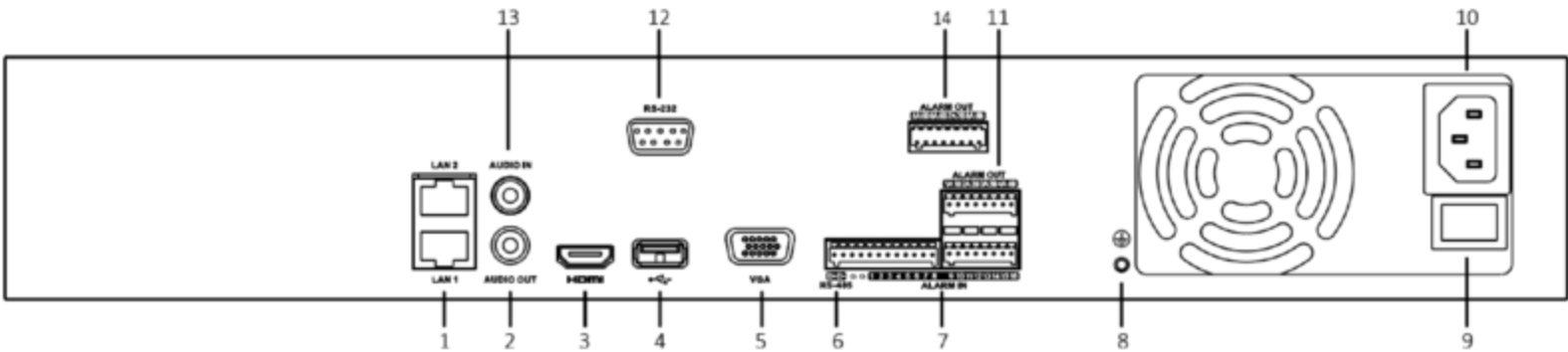


Figure 1-7 DS-7700NI-Q4 Series

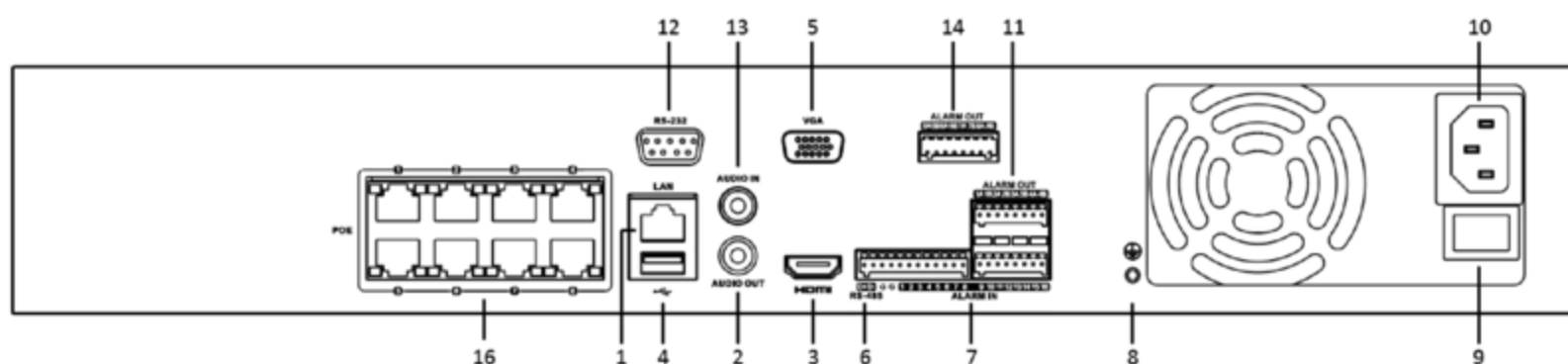


Figure 1-8 DS-7700NI-Q4/P Series

NOTE

The DS-7716NI-Q4/16P and DS-7732NI-Q4/16P provides 16 network Interfaces with PoE function.

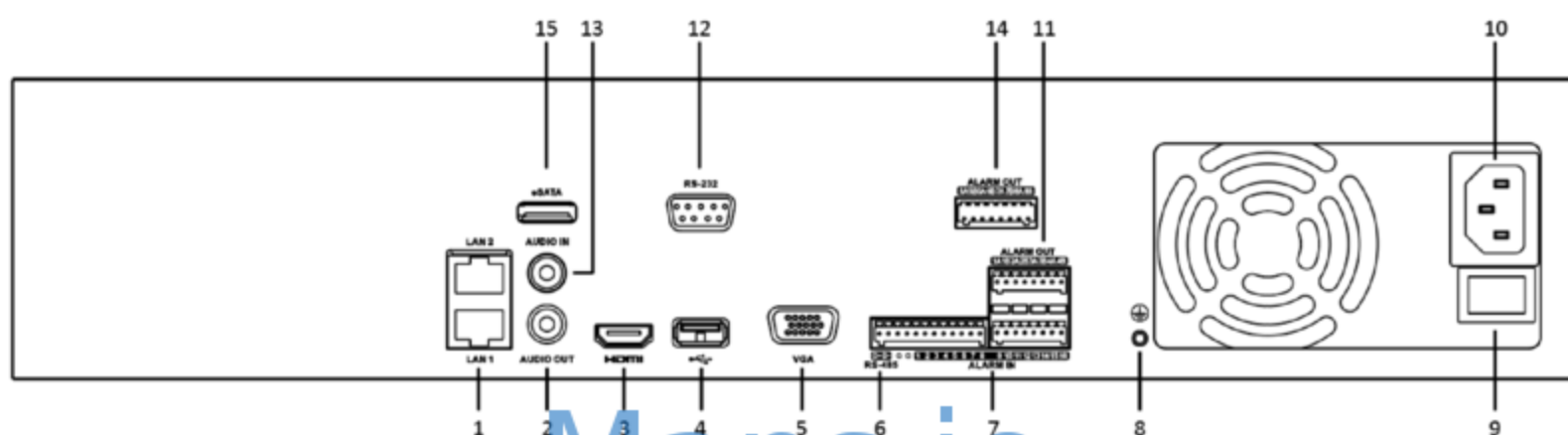


Figure 1-9 DS-8600NI-Q8 Series

Table 1-6 Panel Description

No.	Item	Description
1	LAN Network Interface	2, 10 /100 /1000 Mbps self-adaptive Ethernet interface
2	Audio Out	RCA connector for audio output.
3	HDMI Interface	HDMI video output connector.
4	USB Interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
5	VGA Interface	DB9 connector for VGA output. Display local video output and menu.
6	RS-485 Interface	Half-duplex connector for RS-485 devices.
7	ALARM IN	Connector for alarm input.
8	Ground	Ground (needs to be connected when NVR starts up).
9	Power Switch	Switch for turning on/off the device.
10	Power Supply	100~240 VAC power supply.

11	ALARM OUT	Connector for alarm output.
12	RS-232 Interface	Connector for RS-232 devices.
13	Audio In	RCA connector for audio input.
14	ALARM OUT	Connector for alarm output (optional).
15	eSATA	Connects external SATA HDD, CD/DVD-RM.
16	Network Interfaces with PoE function	Network interfaces for the cameras and to provide power over Ethernet.

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Chapter 2 Installation and Connections

2.1 NVR Installation

During installation of the 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 racks mounted devices.
- Ensure the NVR is grounded.
- Environmental temperature should be within the range of -10 to +55° C, +14 to +131° F.
- 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.

Tools Required: Screwdriver.

Step 1 Remove the cover from the 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 NVR and the other end to the HDD.

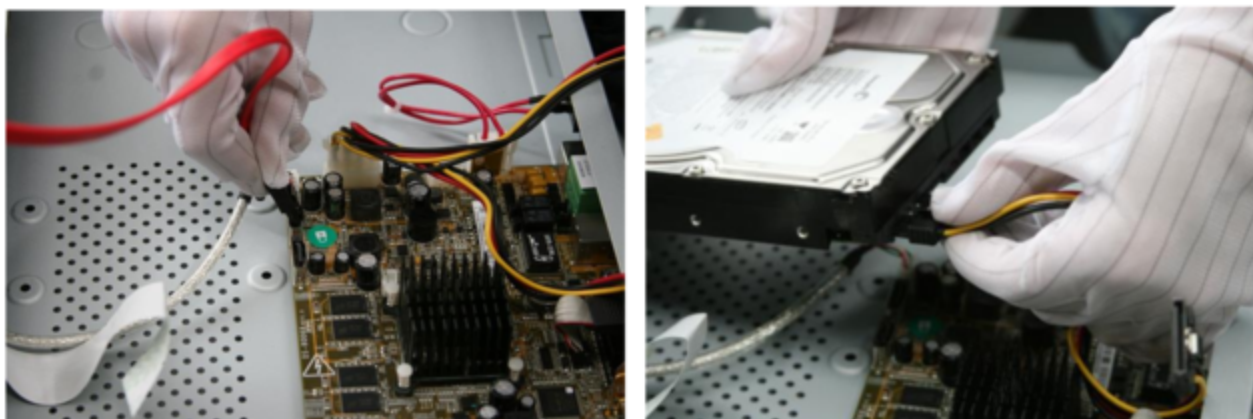


Figure 2-2 Connect Data Cable

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 Hard Disk

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

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:

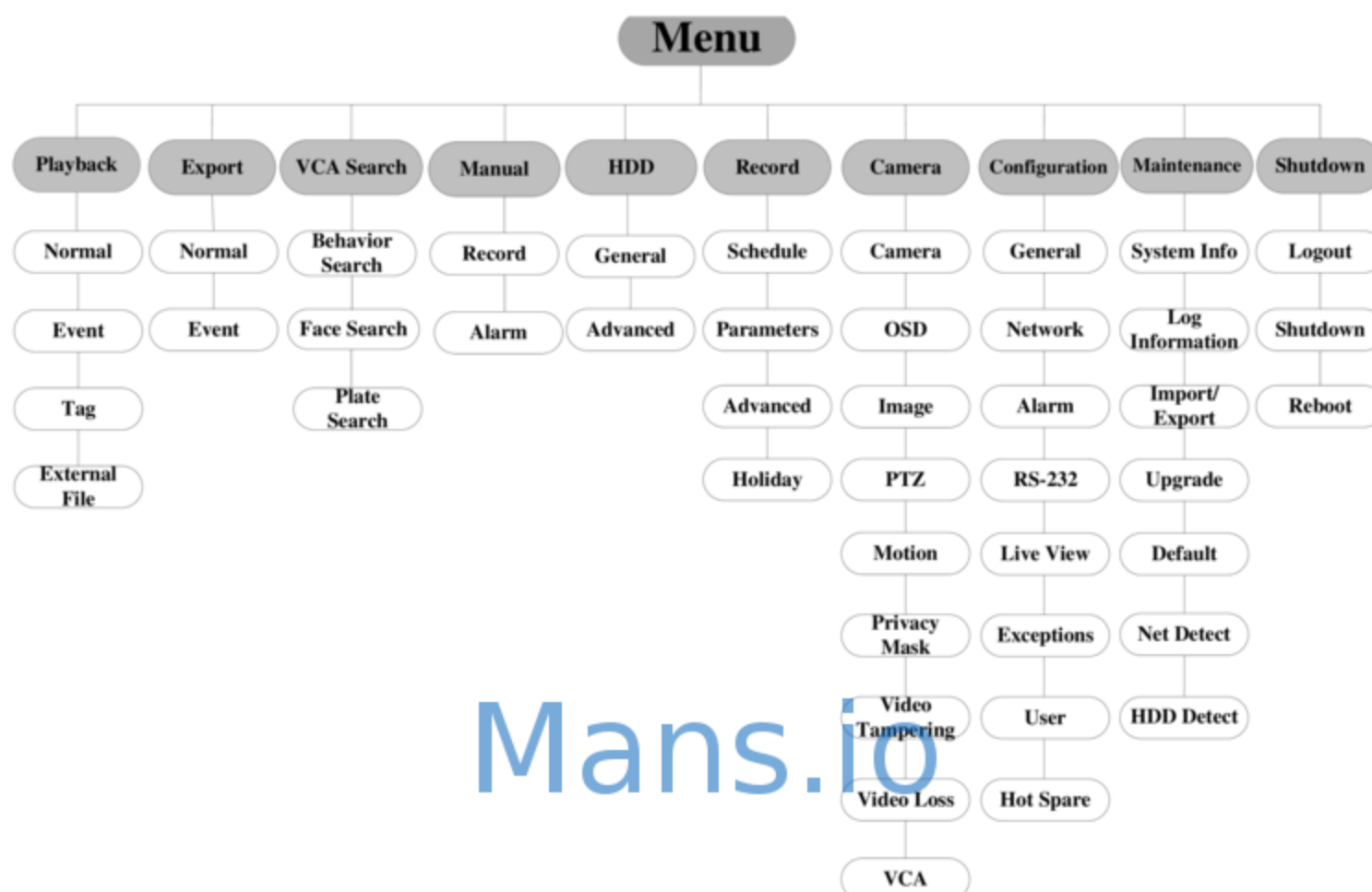


Figure 3-1 Menu Structure



NOTE

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:

Step 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) on the front panel should be red, indicating the device is receiving the power.

Step 2 Press the POWER button on the front panel. The Power LED should turn blue. The unit will begin to start.

After the device starts 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:

Step 3 Enter the Shutdown menu.

Menu > Shutdown



Figure 3-2 Shutdown

Step 4 Select the **Shutdown** button.

Step 5 Click the **Yes** button.

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**.

The 'Activation' dialog box has a red title bar. It contains four input fields: 'User Name' with 'admin', 'Create New P...' with masked characters and a green 'Strong' indicator, 'Confirm New P...' with masked characters, and 'IP Camera Acti...' with masked characters. Below the fields is a green checkmark icon and a message: '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.' At the bottom are three buttons: a red power button, 'OK', and 'Cancel'.

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 In the **IP Camera Activation** text field, enter the password to activate the IP camera (s) connected to the device.

Step 3 Click **OK** to save the password and activate the device.

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.

The 'Warning' dialog box has a red title bar. It contains a yellow warning icon and the text: 'Admin password is weak. Please use a strong password to ensure your information security. Continue?'. At the bottom are two buttons: 'YES' and 'NO'.

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.

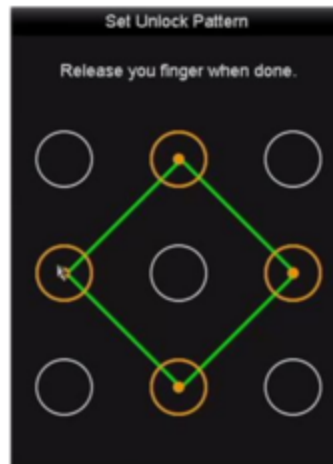


Figure 3-5 Draw the Pattern



NOTE

- 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.

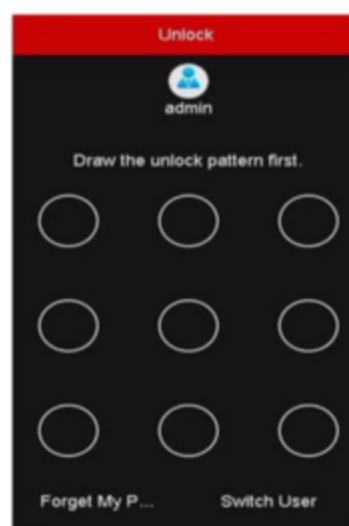


Figure 3-6 Draw the Unlock Pattern

3.5 User Login

Purpose:

If 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.



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

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 3-8 Wizard

3.7 Network Settings

Purpose:

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

Step 1 Enter the Network Settings interface.

Menu > Configuration > Network

General				Platform Access	DDNS	NTP	Email	SNMP	NAT	More Settings	
NIC Type		10M/100M/1000M Self-adaptive									
Enable DHCP		☒									
IPv4 Address...	10	.16	.1	.26	IPv6 Address...		fe80::269:6cff:fe2a:fb88/64				
IPv4 Subn...	255	.255	.255	.0	IPv6 Address...						
IPv4 Defa...	10	.16	.1	.254	IPv6 Defa...						
MAC Address		00:69:6c:2a:fb:88									
MTU(Bytes)		1500									
Enable DNS DHCP		☒									
Preferred DNS Server		10.1.7.88									
Alternate DNS Server		10.1.7.77									

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Figure 3-9 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 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:**

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.



The 'Add IP Camera' dialog box contains a table with the following data:

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

Below the table is a search bar with a left arrow, a text input field, and a right arrow. Underneath is a form with the following fields:

- IP Camera Address: 10.16.1.62
- Protocol: HIKVISION (dropdown)
- Management Port: 8000
- Channel Port: 1 (dropdown)
- Transfer Protocol: Auto (dropdown)
- User Name: admin
- Password: (empty)

At the bottom are three buttons: Search, Add, and Cancel.

Figure 3-10 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.

3.9 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.



NOTE

After rebooting all the manual records enabled are canceled.

Step 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.

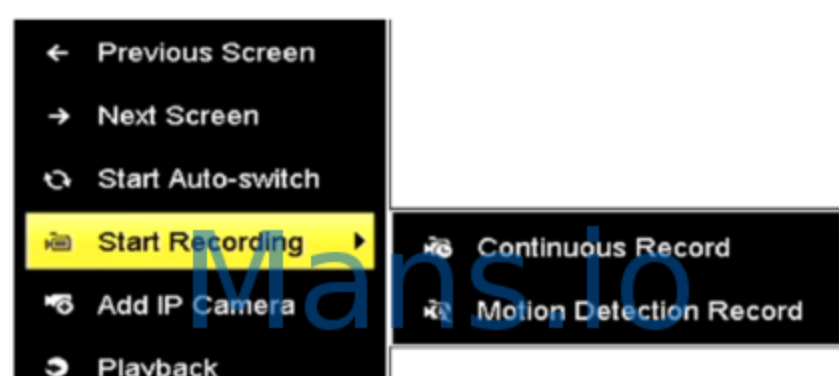


Figure 3-11 Start Recording from Right-click Menu

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.

3.11 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.

Step 1 Enter playback interface.

Click Menu>Playback or from the right-click menu

Step 2 Check the checkbox of 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 3-12 Playback Interface

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

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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, Internet Explorer 11.0, 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.

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

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.

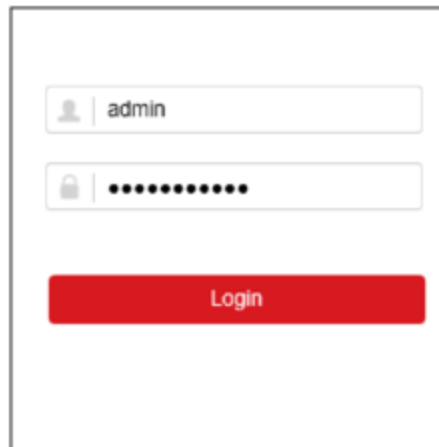
The image shows a login interface within a rectangular frame. It contains two input fields: the top one has a user icon and the text 'admin'; the bottom one has a lock icon and a series of dots representing a masked password. Below these fields is a prominent red button with the word 'Login' in white text.

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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