



HIKVISION

Network Video Recorder

Quick Operation Guide

UD.6L0202B1954A01

TABLE OF CONTENTS

NVR Pre-Installation	5
NVR Installation	5
Hard Disk Installation	5
Front Panel	9
DS-7600NI-V and DS-7600NI-VP	9
DS-7600NI-SN/SE Series	9
DS-7100NI Series	10
Rear Panel	11
DS-7600NI-SN, DS-7604NI-SN/N, DS-7608 & 7616NI-SN/N	11
DS-7600NI-SN/P	11
DS-7600NI-SE and DS-7600NI-SE/N	12
DS-7600NI-SE/P	13
DS-7600NI-V and DS-7600NI-VP	13
DS-7100NI-SL, DS-7100NI-SN and DS-7100NI-SL/W	14
DS-7100NI-SN/N and DS-7100NI-SN/P	15
Specifications	16
Specifications of DS-7600NI-SN	16
Specifications of DS-7600NI-SN/N	17
Specifications of DS-7600NI-SE	18
Specifications of DS-7600NI-SE/N	19
Specifications of DS-7600NI-SE/P	20
Specifications of DS-7600NI-V	21
Specifications of DS-7600NI-VP	22
Specifications of DS-7600NI-SN/P	23
Specifications of DS-7100NI-SL	24
Specifications of DS-7100NI-SL/W	25
Specifications of DS-7100NI-SN	26
Specifications of DS-7100NI-SN/N	27
Specifications of DS-7100NI-SN/P	28
HDD Storage Calculation Chart	29
Menu Operation	30
Menu Structure	30
Startup and Shutdown	30
Setting the Admin Password	31
Login and Logout	32
User Login	32
User Logout	32
Adding IP Cameras	33
Live View	34
Recording	35
Instant Recording	35
All-day Recording	35
Playback	35
Backup	37
Accessing by Web Browser	38
Logging In	38
Live View	39
Recording	40
Playback	42
Log	43

Quick Start Guide

COPYRIGHT ©2015 Hangzhou Hikvision Digital Technology Co., Ltd.

ALL RIGHTS RESERVED.

Any and all information, including, among others, wordings, pictures, graphs are the properties of Hangzhou Hikvision Digital Technology Co., Ltd. or its subsidiaries (hereinafter referred to be “Hikvision”). This user manual (hereinafter referred to be “the Manual”) cannot be reproduced, changed, translated, or distributed, partially or wholly, by any means, without the prior written permission of Hikvision. Unless otherwise stipulated, Hikvision does not make any warranties, guarantees or representations, express or implied, regarding to the Manual.

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.

Trademarks Acknowledgement

HIKVISION and other Hikvision’s trademarks and logos are the properties of Hikvision in various jurisdictions. Other trademarks and logos mentioned below are the properties of their respective owners.

Legal Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, IS PROVIDED “AS IS”, WITH ALL FAULTS AND ERRORS, AND HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF THIRD PARTY. IN NO EVENT WILL HIKVISION, ITS DIRECTORS, OFFICERS, EMPLOYEES, OR AGENTS BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA OR DOCUMENTATION, IN CONNECTION WITH THE USE OF THIS PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

REGARDING TO THE PRODUCT WITH INTERNET ACCESS, THE USE OF PRODUCT SHALL BE WHOLLY AT YOUR OWN RISKS. HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER ATTACK, HACKER ATTACK, VIRUS INSPECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

SURVEILLANCE LAWS VARY BY JURISDICTION. PLEASE CHECK ALL RELEVANT LAWS IN YOUR JURISDICTION BEFORE USING THIS PRODUCT IN ORDER TO ENSURE THAT YOUR USE CONFORMS THE APPLICABLE LAW. HIKVISION SHALL NOT BE LIABLE IN THE EVENT THAT THIS PRODUCT IS USED WITH ILLEGITIMATE PURPOSES.

IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE APPLICABLE LAW, THE LATER PREVAILS.

Regulatory Information

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.

Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact dealer. This manual is applicable to the models listed in the following table.

Series	Models
DS-7100NI-SL series	DS-7104NI-SL, DS-7108NI-SL
	DS-7104NI-SL/W
DS-7100NI-SN series	DS-7104NI-SN, DS-7108NI-SN, DS-7116NI-SN
	DS-7104NI-SN/N, DS-7108NI-SN/N, DS-7116NI-SN/N
	DS-7104NI-SN/P, DS-7108NI-SN/P, DS-7116NI-SN/P
DS-7600NI-SN series	DS-7604NI-SN, DS-7608NI-SN, DS-7616NI-SN
	DS-7604NI-SN/N, DS-7608NI-SN/N, DS-7616NI-SN/N
	DS-7604NI-SN/P, DS-7608NI-SN/P, DS-7616NI-SN/P
DS-7600NI-SE series	DS-7604NI-SE, DS-7608NI-SE, DS-7616NI-SE
	DS-7604NI-SE/N, DS-7608NI-SE/N, DS-7616NI-SE/N
	DS-7604NI-SE/P, DS-7608NI-SE/P, DS-7616NI-SE/P
DS-7600NI-V(P) series	DS-7604NI-V, DS-7608NI-V, DS-7616NI-V
	DS-7604NI-VP, DS-7608NI-VP, DS-7616NI-VP

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.

1. Keep all liquids away from the NVR.
2. Install the NVR in a well-ventilated and dust-free area.
3. Ensure environmental conditions meet factory specifications.
4. Install a manufacturer recommended HDD.

NVR Installation

During the installation of the NVR:

1. Use brackets for rack mounting.
2. Ensure there is 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 both the alarm and RS-485 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 $-10\text{ }^{\circ}\text{C} \sim 55\text{ }^{\circ}\text{C}$, $14\text{ }^{\circ}\text{F} \sim 131\text{ }^{\circ}\text{F}$.
8. Environmental humidity should be within the range of 10% ~ 90%.

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-7600NI-V and DS-7600NI-VP):

1. Fasten the hard disk mounting handle to the hard disk with screws.



2. Insert the key and turn in clockwise direction to open the panel lock.
3. Open the front panel.



4. Insert the hard disk along the slot until it is placed into position.



5. Repeat the above steps to install other hard disks onto the NVR. After having finished the installation of all hard disks, close the front panel and lock it with the key again.

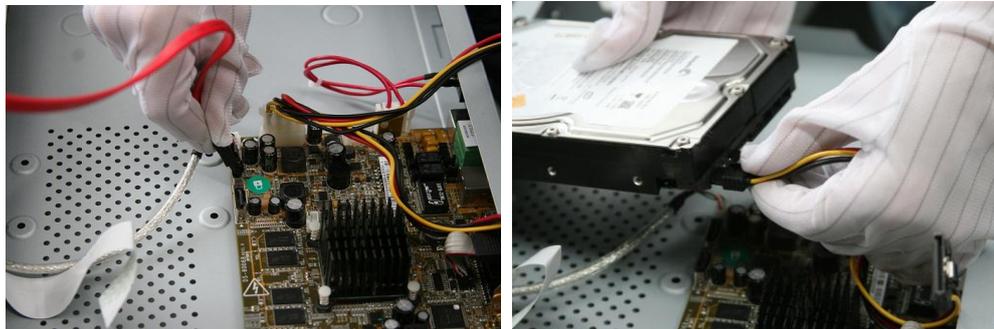


Steps (for other models):

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



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



3. Connect the power cable to the HDD.



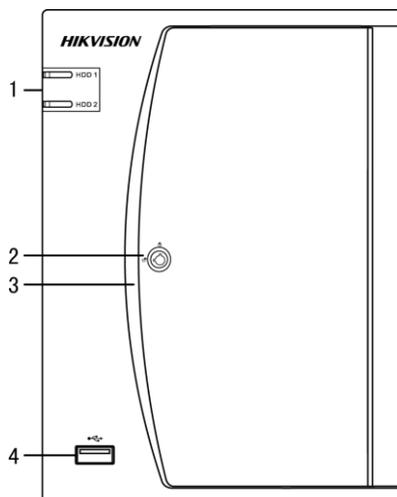
4. Place the HDD on the bottom of the device and then fasten the screws on the bottom to fix the HDD.



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

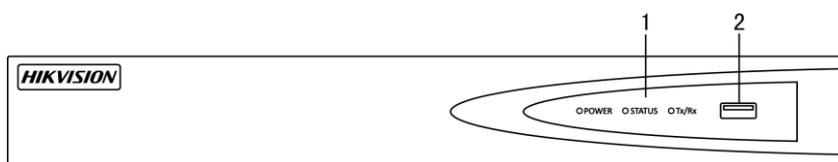
Front Panel

DS-7600NI-V and DS-7600NI-VP



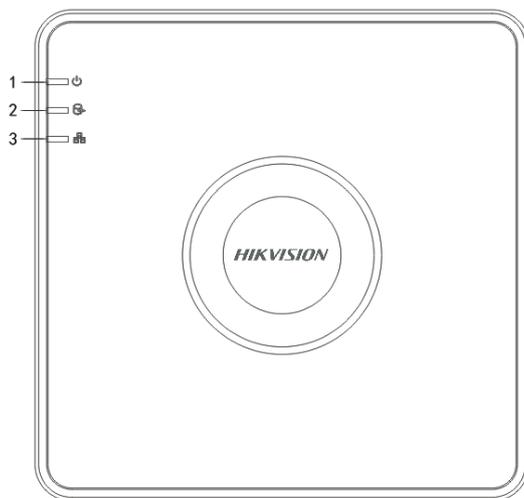
No.	Name	Description
1	HDD1/HDD2	Blinks red when data is being read from or written to HDD.
2	Panel Lock	Lock/unlock the front panel.
3	Running Status Indicator	Indicator turns yellow when system is running.
4	USB Interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).

DS-7600NI-SN/SE Series



No.	Name	Description	
1	Status Indicator	Power	Power indicator turns yellow 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 yellow 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-7100NI Series



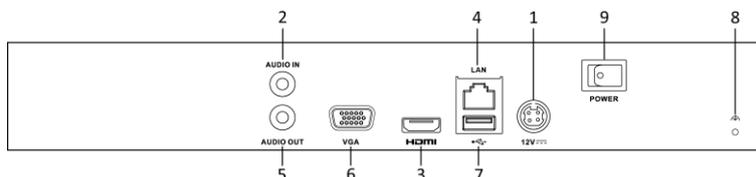
No.	Icon	Description
1		Indicator turns red when DVR is powered up.
2		Indicator lights in red when data is being read from or written to HDD.
3		Indicator blinks blue when network connection is functioning properly.

Rear Panel

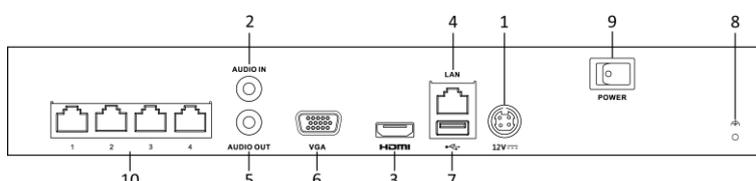


The rear panel varies according to different models.

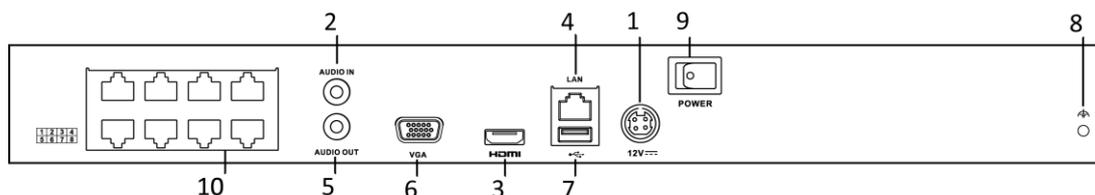
DS-7600NI-SN, DS-7604NI-SN/N, DS-7608 & 7616NI-SN/N



DS-7600NI-SN



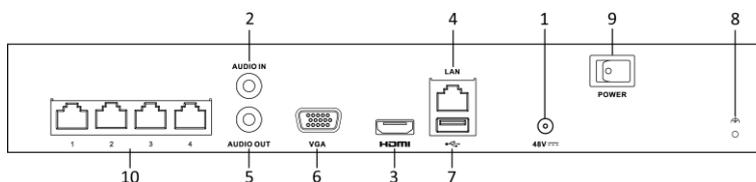
DS-7600NI-E1/4N and DS-7604NI-SN/N



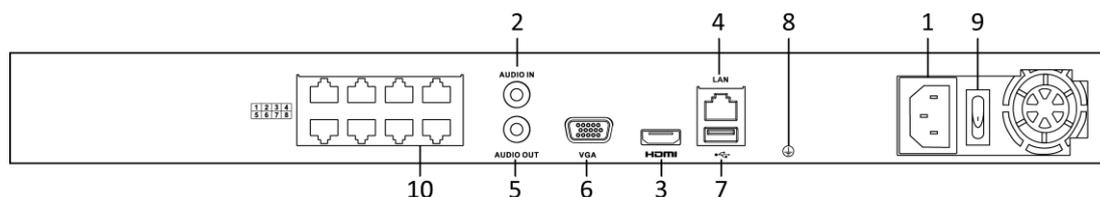
DS-7608 & 7616NI-SN/N

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-SN/P



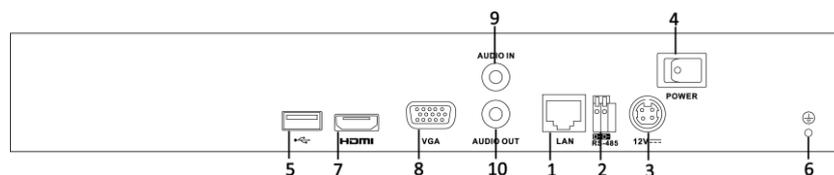
DS-7604NI-SN/P



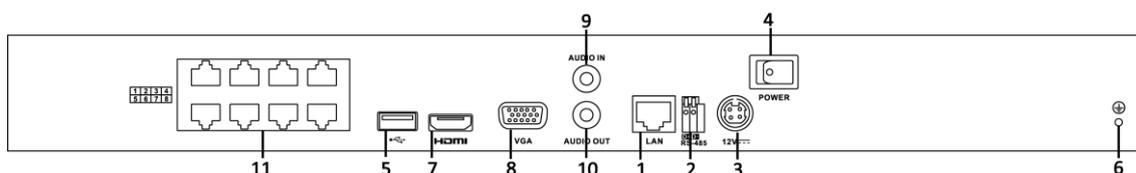
DS-7608 & 7616NI-SN/P

No.	Item	Description
1	Power Supply	48VDC or 100~240VAC 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-7600NI-SE and DS-7600NI-SE/N



DS-7604&7608&7616NI-SE

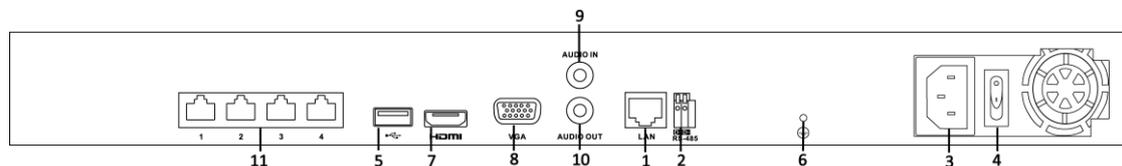


DS-7600NI-SE/N

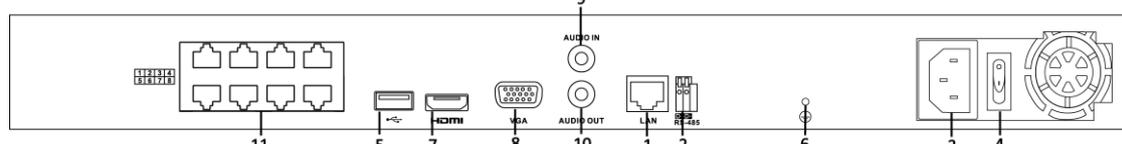
No.	Item	Description
1	LAN Network Interface	Connector for LAN (Local Area Network).
2	RS-485 Interface	Connects to RS-485 devices.
3	Power Supply	12VDC power supply
4	Power Switch	Switch for turning on/off the device.
5	USB Interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
6	GND	Ground (needs to be connected when NVR starts up).
7	HDMI Interface	HDMI video output connector.
8	VGA Output	DB9 connector for VGA output. Display local video output and menu.
9	Audio In	RCA connector for voice talk input
10	Audio Out	RCA connector for audio output

No.	Item	Description
11	Network Interfaces with switch function (for DS-7600NI-SE/N)	Network interface for the cameras.

DS-7600NI-SE/P



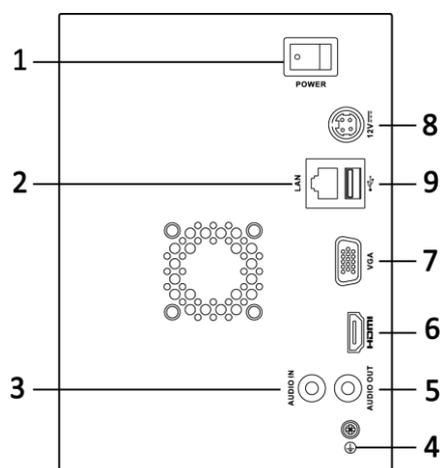
DS-7604NI-SE/P



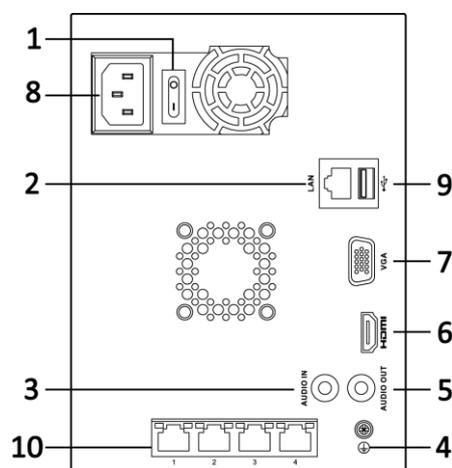
DS-7608NI-SE/P and DS-7616NI-SE/P

No.	Item	Description
1	LAN Network Interface	Connector for LAN (Local Area Network).
2	RS-485 Interface	Connects to RS-485 devices.
3	Power Supply	100~240VAC power supply
4	Power Switch	Switch for turning on/off the device.
5	USB Interface	Universal Serial Bus (USB) ports for additional devices such as USB mouse and USB Hard Disk Drive (HDD).
6	GND	Ground (needs to be connected when NVR starts up).
7	HDMI Interface	HDMI video output connector.
8	VGA Output	DB9 connector for VGA output. Display local video output and menu.
9	Audio In	RCA connector for voice talk input
10	Audio Out	RCA connector for audio output
11	Network Interfaces with PoE function	Network interface for the cameras and to provide power over Ethernet.

DS-7600NI-V and DS-7600NI-VP



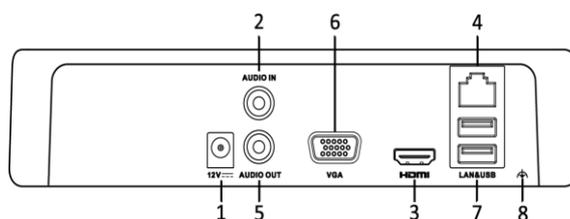
DS-7600NI-V



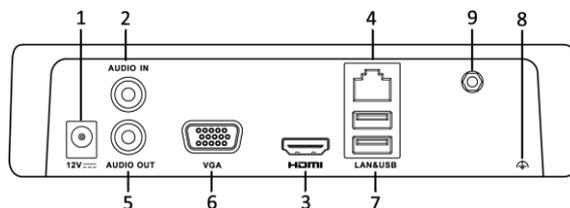
DS-7600NI-VP

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

DS-7100NI-SL, DS-7100NI-SN and DS-7100NI-SL/W



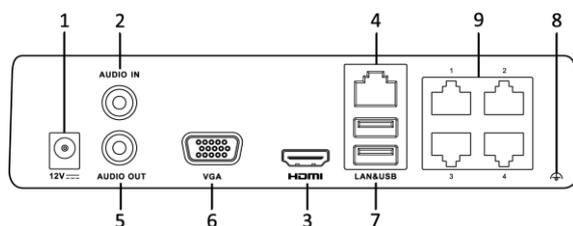
DS-7100NI-SL and DS-7100NI-SN



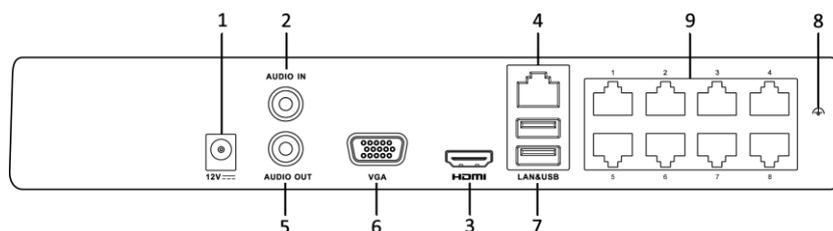
DS-7100NI-SL/W

No.	Item	Description
1	Power Supply	12VDC power supply.
2	Audio In	RCA connector for two-way audio input.
3	HDMI Interface	HDMI video output connector.
4	Network Interface	Connector for LAN (Local Area Network).
5	Audio Out	RCA connector for audio output.
6	VGA Output	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	Antenna Interface (for DS-7100NI-SL/W only)	Needs to be connected with antenna if you want to configure and get connection via WLAN.

DS-7100NI-SN/N and DS-7100NI-SN/P



DS-7104NI-SN/N, DS-7104NI-SN/P



DS-7108 & 7116NI-SN/N, DS-7108 & 7116NI-SN/P

No.	Item	Description
1	Power Supply	12VDC power supply.
2	Audio In	RCA connector for two-way audio input.
3	HDMI Interface	HDMI video output connector.
4	Network Interface	Connector for LAN (Local Area Network).
5	Audio Out	RCA connector for audio output.
6	VGA Output	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	Network Interfaces with switch function (for DS-7100NI-SN/N)	Network interface for the cameras.
	Network Interfaces with PoE function (for DS-7100NI-SN/P)	Network interface for the cameras and to provide power over Ethernet.

Specifications

Specifications of DS-7600NI-SN

Model		DS-7604NI-SN	DS-7608NI-SN	DS-7616NI-SN
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	25Mbps	50Mbps	100Mbps
	Outgoing bandwidth	40Mbps		
	Remote connection	32	128	128
Video/Audio output	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
Decoding	Playback / Live view resolution	1080P / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF		
	Capability	4-ch@720P , 2-ch@1080P	8-ch@4CIF, 4-ch@720P , 2-ch@1080P	8-ch@4CIF, 8-ch@720P , 4-ch@1080P
Hard disk	SATA	1 SATA interface for 1 HDD		2 SATA interface for 2 HDDs
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface		1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface
	USB interface	2 × USB 2.0		
	Alarm in/out (Optional)	4 / 1		
Others	Power supply	12VDC		
	Consumption (without hard disk)	≤ 6W	≤ 10W	≤ 15W
	Working temperature	-10 °C ~ +55 °C (14 F ~ 131 F)		
	Working humidity	10 % ~ 90 %		
	Chassis	1U chassis		
	Dimensions (W × D × H)	315 × 230 × 45 mm (12.4" × 9.0" × 1.8")		
	Weight (without hard disk)	≤ 1 Kg (2.2 lb)		

Specifications of DS-7600NI-SN/N

Model		DS-7604NI-SN/N	DS-7608NI-SN/N	DS-7616NI-SN/N
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	25Mbps	50Mbps	100Mbps
	Outgoing bandwidth	40Mbps		
	Remote connection	32	128	128
Video/Audio output	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
Decoding	Playback / Live view resolution	1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Capability	4-ch@720P , 2-ch@1080P	8-ch@4CIF, 4-ch@720P , 2-ch@1080P	8-ch@4CIF, 8-ch@720P , 4-ch@1080P
Hard disk	SATA	1 SATA interface for 1 HDD	2 SATA interface for 2 HDDs	
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface		1 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface
		4 independent 10/100 Mbps built-in switch Ethernet interfaces	8 independent 10 /100 Mbps built-in switch Ethernet interfaces	
	USB interface	2 × USB 2.0		
	Alarm in/out (Optional)	4 / 1		
Others	Power supply	12VDC		
	Consumption (without hard disk)	≤ 6W	≤ 10W	≤ 15W
	Working temperature	-10 °C ~ +55 °C (14 F ~ 131 F)		
	Working humidity	10 % ~ 90 %		
	Chassis	1U chassis	380 chassis	
	Dimensions (W × D × H)	315 × 230 × 45 mm (12.4" × 9.0" × 1.8")	380 × 290 × 48 mm (15.0" × 15.4" × 1.9")	
	Weight (without hard disk)	≤ 1 Kg (2.2 lb)		

Specifications of DS-7600NI-SE

Model		DS-7604NI-SE	DS-7608NI-SE	DS-7616NI-SE
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Bandwidth	Incoming bandwidth	20Mbps	40Mbps	80Mbps
	Output bandwidth	40Mbps		
Video/Audio output	Decoding resolution	5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	CVBS (optional)	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)		
	Audio output	1-ch, RCA (Linear, 1kΩ).		
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch@720P, 2-ch@1080P, 1-ch@5MP	8-ch@4CIF,4-ch@720P, 2-ch@1080P, 1-ch@5MP	
Hard disk	SATA	1 SATA interface for 1 HDD	2 SATA interfaces for 2 HDDs	
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
	Serial interface	1 RS-485 half-duplex interface		
	USB interface	2 × USB 2.0		
	Alarm in/out (optional)	4/1		
Others	Power supply	12V DC		
	Consumption	≤ 10 W (without hard disk)		
	Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)		
	Working humidity	10 % ~ 90 %		
	Chassis	Stand-alone 1U chassis	19-inch rack-mounted 1U chassis	
	Dimensions (W × D × H)	315 × 230 × 45mm (12.4 × 9.0 × 1.8 inch)	445 × 290 × 45mm (17.5 × 11.4 × 1.8 inch)	
	Weight	≤ 2 Kg (4.4 lb) (without hard disk)		

Specifications of DS-7600NI-SE/N

Model		DS-7604NI-SE/N	DS-7608NI-SE/N	DS-7616NI-SE/N
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1k Ω)		
Bandwidth	Incoming bandwidth	20Mbps	40Mbps	80Mbps
	Output bandwidth	40Mbps		
Video/Audio output	Decoding resolution	5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 \times 1080P /60Hz, 1600 \times 1200 /60Hz, 1280 \times 1024 /60Hz, 1280 \times 720 /60Hz, 1024 \times 768 /60Hz		
	CVBS (optional)	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 \times 576 (PAL); 704 \times 480 (NTSC)		
	Audio output	1-ch, RCA (Linear, 1k Ω)		
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch@720P, 2-ch@1080P,1-ch@5MP	8-ch@4CIF, 4-ch@720P, 2-ch@1080P, 1-ch@5MP	
Hard disk	SATA	1 SATA interfaces for 1 HDD	2 SATA interfaces for 2 HDDs	
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
		4 independent 10 /100 Mbps Ethernet interfaces with built-in switch function	8 independent 10 /100 Mbps Ethernet interfaces with built-in switch function	
	Serial interface	1 RS-485 half-duplex interface		
	USB interface	2 \times USB 2.0		
	Alarm in/out (optional)	4/1		
Others	Power supply	12V DC		
	Consumption	\leq 10 W (without hard disk)		
	Working temperature	-10 $^{\circ}$ C \sim +55 $^{\circ}$ C (14 $^{\circ}$ F \sim 131 $^{\circ}$ F)		
	Working humidity	10 % \sim 90 %		
	Chassis	Stand-alone 1U chassis	19-inch rack-mounted 1U chassis	
	Dimensions (W \times D \times H)	315 \times 230 \times 45mm (12.4 \times 9.0 \times 1.8 inch)	445 \times 290 \times 45mm (17.5 \times 11.4 \times 1.8 inch)	
	Weight	\leq 2 Kg (4.4 lb) (without hard disk)		

Specifications of DS-7600NI-SE/P

Model		DS-7604NI-SE/P	DS-7608NI-SE/P	DS-7616NI-SE/P
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	20Mbps	40Mbps	80Mbps
	Output bandwidth	40Mbps		
	Remote connection	32	128	128
Video/Audio output	Recording resolution	5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	CVBS (optional)	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch@720P, 2-ch@1080P,1-ch@5MP	8-ch@4CIF, 4-ch@720P, 2-ch@1080P, 1-ch@5MP	
Hard disk	SATA	2 SATA interfaces for 2 HDDs		
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
	Serial interface	1 RS-485 half-duplex interface		
	USB interface	2 × USB 2.0		
	Alarm in/out (optional)	4/1		
PoE	Interface	4 independent 10 /100 Mbps PoE Ethernet interfaces	8 independent 10 /100 Mbps PoE Ethernet interfaces	
	Output Consumption	52W	120W	
	Supported Standard	AF		
Others	Power supply	100~240VAC, 47~63Hz, 3A		
	Consumption	≤ 15 W (without hard disk)		
	Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)		
	Working humidity	10 % ~ 90 %		
	Chassis	19-inch rack-mounted 1U chassis		
	Dimensions (W × D × H)	445 × 290 × 45mm (17.5 × 11.4 × 1.8 inch)		
	Weight	≤ 2 Kg (without hard disk)		

Specifications of DS-7600NI-V

Model		DS-7604NI-V	DS-7608NI-V	DS-7616NI-V
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Bandwidth	Incoming bandwidth	20Mbps	40Mbps	80Mbps
	Output bandwidth	40Mbps		
Video/Audio output	Decoding resolution	5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch@720P, 2-ch@1080P,1-ch@5MP	8-ch@4CIF, 4-ch@720P, 2-ch@1080P, 1-ch@5MP	
Hard disk	SATA	2 SATA interfaces for 2 HDDs		
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
	Serial interface	1 RS-485 half-duplex interface		
	USB interface	2 ×USB 2.0		
Others	Power supply	12V DC		
	Consumption	≤ 10 W (without hard disk)		
	Working temperature	-10 ℃ ~ +55 ℃ (14 ℉ ~ 131 ℉)		
	Working humidity	10 % ~ 90 %		
	Chassis	Vertical chassis		
	Dimensions (W × D × H)	130 × 180 × 236mm (5.1 × 7.1 × 9.3 inch)		
	Weight	≤ 2 Kg (4.4 lb) (without hard disk)		

Specifications of DS-7600NI-VP

Model		DS-7604NI-VP	DS-7608NI-VP	DS-7616NI-VP
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	20Mbps	40Mbps	80Mbps
	Output bandwidth	40Mbps		
	Remote connection	32	128	128
Video/Audio output	Recording resolution	5MP/3MP/1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
	Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch@720P, 2-ch@1080P,1-ch@5MP	8-ch@4CIF, 4-ch@720P, 2-ch@1080P, 1-ch@5MP	
Hard disk	SATA	2 SATA interfaces for 2 HDDs		
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet interface		
	Serial interface	1 RS-485 half-duplex interface		
	USB interface	2 × USB 2.0		
PoE	Interface	4 independent 10 /100 Mbps PoE Ethernet interfaces		
	Output Consumption	52W		
	Supported Standard	AF		
Others	Power supply	100~240VAC, 47~63Hz, 3A		
	Consumption	≤ 15 W (without hard disk)		
	Working temperature	-10 ℃ ~ +55 ℃		
	Working humidity	10 % ~ 90 %		
	Chassis	Vertical chassis		
	Dimensions (W × D × H)	130 × 180 × 236mm (5.1 × 7.1 × 9.3 inch)		
	Weight	≤ 2 Kg (4.4 lb) (without hard disk)		

Specifications of DS-7600NI-SN/P

Model		DS-7604NI-SN/P	DS-7608NI-SN/P	DS-7616NI-SN/P
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	25Mbps	50Mbps	100Mbps
	Outgoing bandwidth	40Mbps		
	Remote connection	32	128	128
Video/Audio output	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
Decoding	Playback / Live view resolution	1080P / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF		
	Capability	4-ch@720P, 2-ch@1080P	8-ch@4CIF, 4-ch@720P, 2-ch@1080P	8-ch@4CIF, 8-ch@720P, 4-ch@1080P
Hard disk	SATA	1 SATA interface for 1 HDD	2 SATA interface for 2 HDDs	
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface		1 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface
	USB interface	2 × USB 2.0		
	Alarm in/out (Optional)	4 / 1		
PoE	Interface	4 independent 10/100 Mbps PoE Ethernet interfaces	8 independent 10 /100 Mbps PoE Ethernet interfaces	
	Max. Power	35W	120W	
	Supported Standard	AF		
Others	Power supply	48VDC	220VAC	
	Consumption (without hard disk and PoE)	≤ 6W	≤ 10W	≤ 15W
	Working temperature	-10 °C ~ +55 °C (14 °F ~ 131 °F)		
	Working humidity	10 % ~ 90 %		
	Chassis	1U chassis	19-inch rack-mounted 1U chassis	
	Dimensions (W × D × H)	315 × 230 × 45 mm (12.4" × 9.0" × 1.8")	445 × 290 × 45 mm (17.5" × 15.4" × 1.8")	
	Weight (without hard disk)	≤ 1 Kg (2.2 lb)		

Specifications of DS-7100NI-SL

Model		DS-7104NI-SL	DS-7108NI-SL
Video/Audio input	IP video input	4-ch	8-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)	
Network	Incoming bandwidth	25Mbps	50Mbps
	Outgoing bandwidth	40Mbps	
	Remote connection	32	128
Video/Audio output	Recording resolution	1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF	
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
	Audio output	1-ch, RCA (Linear, 1kΩ)	
	Playback resolution	1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF	
	Synchronous playback	4-ch@720P, 2-ch@1080P	8-ch@4CIF, 4-ch@720P, 2-ch@1080P
Hard disk	SATA	1 SATA interface for 1 HDD	
	Capacity	Up to 4TB for each disk	
External interface	Network interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface	
	USB interface	2 × USB 2.0	
Others	Power supply	12VDC	
	Consumption	≤ 15 W (without hard disk)	
	Working temperature	-10 °C ~ +55 °C (+14 °F ~ +131 °F)	
	Working humidity	10 % ~ 90 %	
	Chassis	1U chassis	
	Dimensions (W × D × H)	200 × 200 × 45 mm (7.9 × 7.9 × 1.8 inch)	
	Weight	≤ 1 Kg (2.2 lb)(without hard disk)	

Specifications of DS-7100NI-SL/W

Model		DS-7104NI-SL/W
Video/Audio input	IP video input	4-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1k Ω)
Network	Incoming bandwidth	25Mbps
	Outgoing bandwidth	40Mbps
	Remote connection	32
Video/Audio output	Recording resolution	1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz
	Audio output	1-ch, RCA (Linear, 1k Ω)
	Playback resolution	1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF
	Synchronous playback	4-ch@720P, 2-ch@1080P, 1-ch@5MP
Hard disk	SATA	1 SATA interface for 1 HDD
	Capacity	Up to 4TB for each disk
External interface	Network interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface
	Antenna Interface	1, with wireless AP function
	USB interface	2 × USB 2.0
Others	Power supply	12VDC
	Consumption	≤ 15 W (without hard disk)
	Working temperature	-10 °C ~ +55 °C (+14 °F ~ +131 °F)
	Working humidity	10 % ~ 90 %
	Chassis	1U chassis
	Dimensions (W × D × H)	200 × 200 × 45 mm (7.9 × 7.9 × 1.8 inch)
	Weight	≤ 1 Kg (2.2lb) (without hard disk)

Specifications of DS-7100NI-SN

Model		DS-7104NI-SN	DS-7108NI-SN	DS-7116NI-SN
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	25Mbps	50Mbps	100Mbps
	Outgoing bandwidth	40Mbps		
	Remote connection	32	128	128
Video/Audio output	Recording resolution	1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
	Playback resolution	1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch@720P, 2-ch@1080P	8-ch@4CIF, 4-ch@720P, 2-ch@1080P	
Hard disk	SATA	1 SATA interface for 1 HDD		
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface		1 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface
	USB interface	2 × USB 2.0		
Others	Power supply	12VDC		
	Consumption	≤ 24 W (without hard disk)		
	Working temperature	-10 °C ~ +55 °C (+14 °F ~ +131 °F)		
	Working humidity	10 % ~ 90 %		
	Chassis	1U chassis		
	Dimensions (W × D × H)	205 × 205 × 45 mm (8.1 × 8.1 × 1.8 inch)		
Weight	≤ 1 Kg (without hard disk)			

Specifications of DS-7100NI-SN/N

Model		DS-7104NI-SN/N	DS-7108NI-SN/N	DS-7116NI-SN/N
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	25Mbps	50Mbps	100Mbps
	Outgoing bandwidth	40Mbps		
	Remote connection	32	128	128
Video/Audio output	Recording resolution	1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
	Playback resolution	1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch@720P, 2-ch@1080P	8-ch@4CIF, 4-ch@720P, 2-ch@1080P	
Hard disk	SATA	1 SATA interface for 1 HDD		
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface		1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface
		4 independent 10 /100 Mbps built-in switch Ethernet interfaces	8 independent 10 /100 Mbps built-in switch Ethernet interfaces	
	USB interface	2 × USB 2.0		
Others	Power supply	12VDC		
	Consumption	≤ 24W (without hard disk)		
	Working temperature	-10 ℃ ~ +55 ℃ (+14 ℉ ~ +131 ℉)		
	Working humidity	10 % ~ 90 %		
	Chassis	1U chassis		
	Dimensions (W × D × H)	205 × 205 × 45 mm (8.1 × 8.1 × 1.8 inch)	285 × 210 × 45 mm (11.2 × 8.3 × 1.8 inch)	
	Weight	≤ 1 Kg (without hard disk)		

Specifications of DS-7100NI-SN/P

Model		DS-7104NI-SN/P	DS-7108NI-SN/P	DS-7116NI-SN/P
Video/Audio input	IP video input	4-ch	8-ch	16-ch
	Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Network	Incoming bandwidth	25Mbps	50Mbps	100Mbps
	Outgoing bandwidth	40Mbps		
	Remote connection	32	128	128
Video/Audio output	Recording resolution	1080p/UXGA/720p/VGA/4CIF/DCIF/2CIF/CIF/QCIF		
	HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz		
	Audio output	1-ch, RCA (Linear, 1kΩ)		
	Playback resolution	1080P /UXGA /720P /VGA /4CIF /DCIF /2CIF /CIF /QCIF		
	Synchronous playback	4-ch@720P, 2-ch@1080P	8-ch@4CIF, 4-ch@720P, 2-ch@1080P	
Hard disk	SATA	1 SATA interface for 1 HDD		
	Capacity	Up to 4TB for each disk		
External interface	Network interface	1 RJ-45 10 /100 Mbps self-adaptive Ethernet interface		1 RJ-45 10 /100/1000 Mbps self-adaptive Ethernet interface
	USB interface	2 × USB 2.0		
PoE	Interface	4 independent 10 /100 Mbps PoE Ethernet interfaces	8 independent 10 /100 Mbps PoE Ethernet interfaces	
	Max. Power	35W	100W	
	Supported Standard	AF		
Others	Power supply	48VDC		
	Consumption (without hard disk)	≤ 50 W	≤ 120 W	
	Working temperature	-10 °C ~ +55 °C (+14 °F ~ +131 °F)		
	Working humidity	10 % ~ 90 %		
	Chassis	1U chassis		
	Dimensions (W × D × H)	205 × 205 × 45 mm (8.1 × 8.1 × 1.8 inch)	285 × 210 × 45 mm (11.2 × 8.3 × 1.8 inch)	
	Weight	≤ 1 Kg (without hard disk)		

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

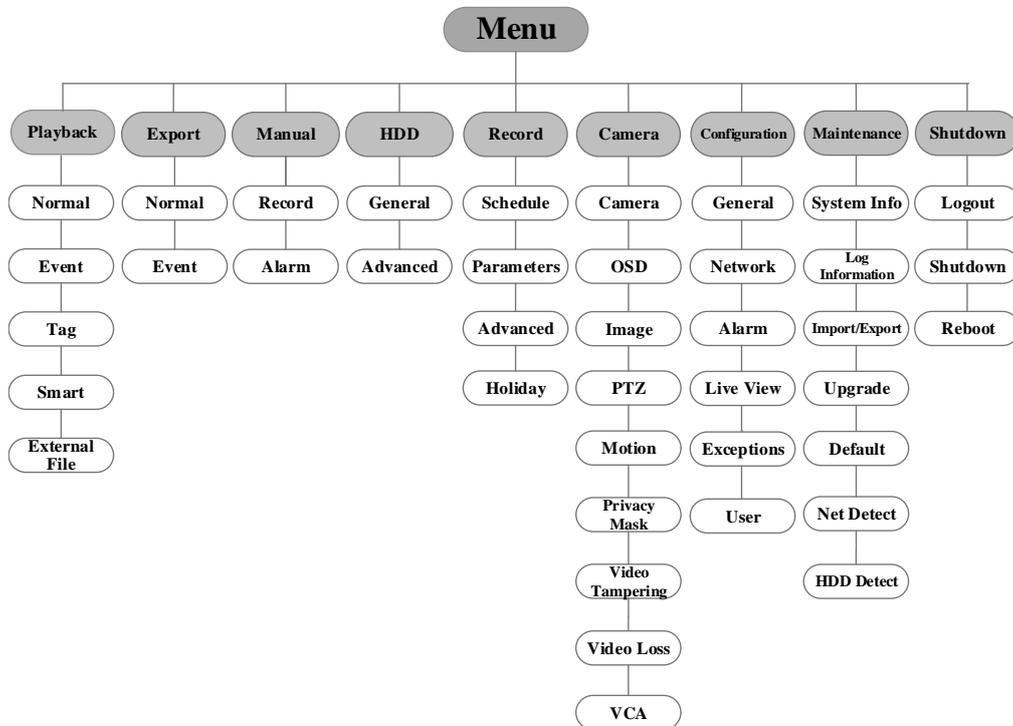


Please note that supplied values for storage space used is just for reference. The storage values in the chart are estimated by formulas and may have some deviation from actual value.

Menu Operation

Menu Structure

The menu structure of NVR is as follows:



The menu structure may vary according to different models.

The RS-232 is not available by the menu of DS-7600NI, DS-7100NI-SN, DS-7100NI-SN/N and DS-7100NI-SN/P series NVR. And the RS-232 and Alarm are not available by the menu of DS-7100NI-SL and DS-7100NI-SL/W series NVR.

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.
2. Press the POWER button on the front panel. The Power LED should turn green (for DS-7600 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.

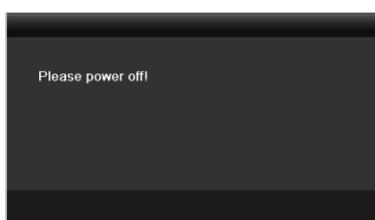
To shut down the NVR:

Steps:

1. Enter the Shutdown menu.
Menu > 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.



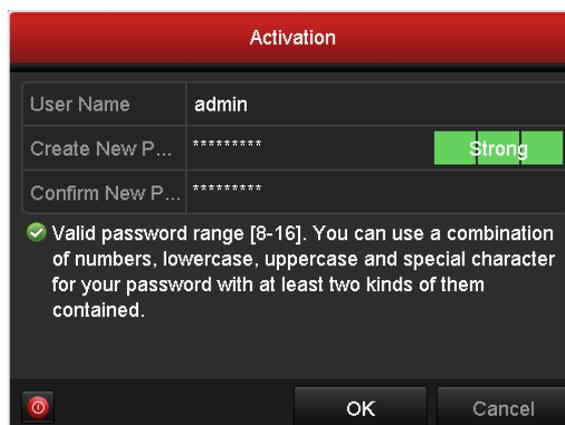
Setting the Admin Password

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**.

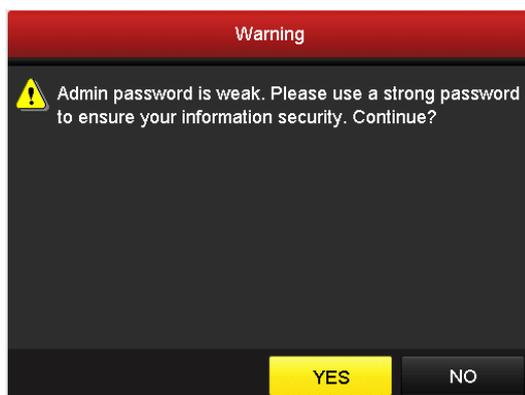


⚠️ STRONG PASSWORD RECOMMENDED— *We highly recommend you create a strong password of your own choosing (using a minimum of 8 characters, including upper case letters, lower case letters, numbers, and special characters) in order to increase the security of your product. And we recommend you reset your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



Login and Logout

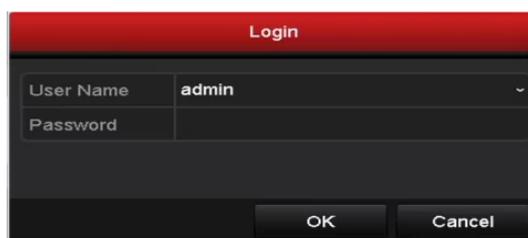
User Login

Purpose:

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

Steps:

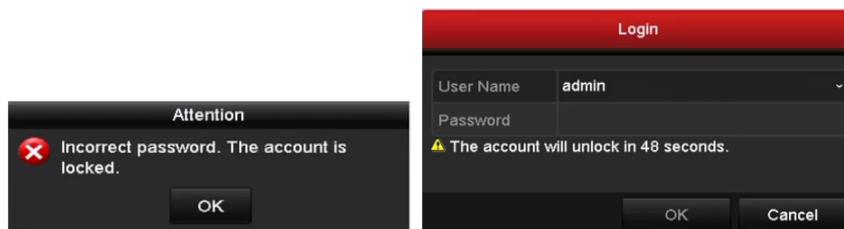
1. Select the **User Name** in the dropdown list.



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 operation, you need to enter user name and password tog in again.

Steps:

1. Enter the Shutdown menu.
Menu > Shutdown



2. Click **Logout**.



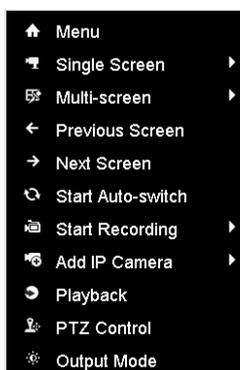
After you have logged out the system, menu operation on the screen is invalid. It is required to input a user name and password to unlock the system.

Adding IP Cameras

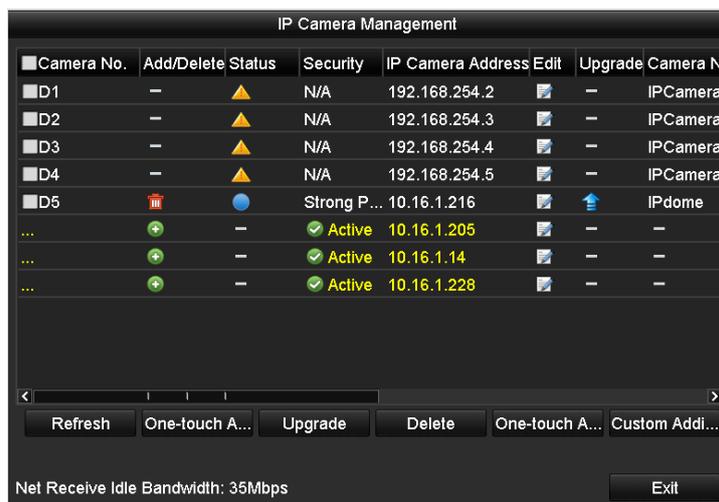
You should add and configure the online IP cameras to enable the live view and recording function.

Steps:

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



2. Positioning the cursor to **Add IP Camera** and click to select **Manual** in the pop-up menu to enter the IP Camera Management interface.



3. The online cameras with same network segment will be displayed in the camera list. Click the **+** button to add the camera.



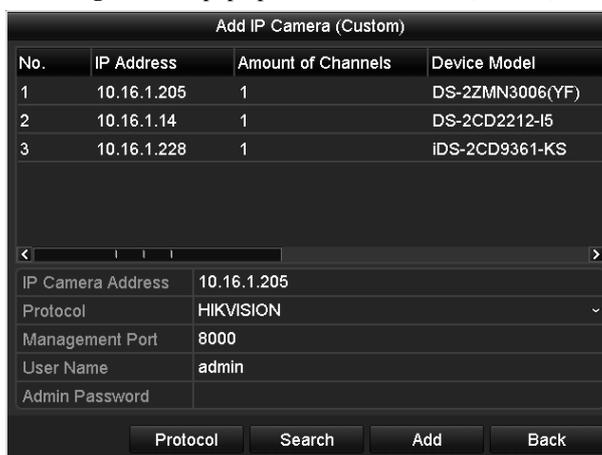
The added camera is marked in white while the camera has not been added is marked in yellow.

Explanation of the icons

Icon	Explanation	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.



- 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

Some icons are provided on screen in Live View mode to indicate different 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, so that you can find problems as soon as possible.



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



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



Alarm & Record



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



The Alarm, Motion & Alarm, Motion | Alarm recording types are not supported by the DS-7100NI-SL(/W) series NVR.

Recording

Before you start:

Make sure that the HDD has already been installed. If not, please install a HDD and initialize it. You can 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.

Instant Recording

On the live view window of each channel, there is a quick setting toolbar which shows on the bottom of the window when you click on it.



Click the  icon to enable the record, and the icon turns to . And click  icon to disable the record,

then the icon turns to .

All-day Recording

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.
2. And click the **Yes** button in the popup Attention message box to confirm the settings.

Then all the channels will start to record in the selected mode.

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 on this channel will be played back.

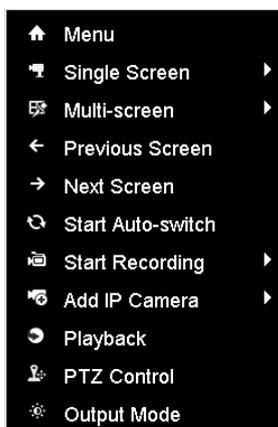


● **Option 2:**

Steps:

1. Enter the Playback menu.

Mouse: right click a channel in live view mode and select Playback from the menu.



Front Panel (not applicable for the DS-7100NI and DS-7600NI series): press PLAY button to play back record files of the channel under single-screen live view.

Under multi-screen live view, record files of the selected channel will be played back.



Pressing numerical buttons will switch playback to related channels during playback process.

2. Playback management.

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



Just check the channel or channels if you want to switch playback to another channel or execute simultaneous playback of multiple channels.



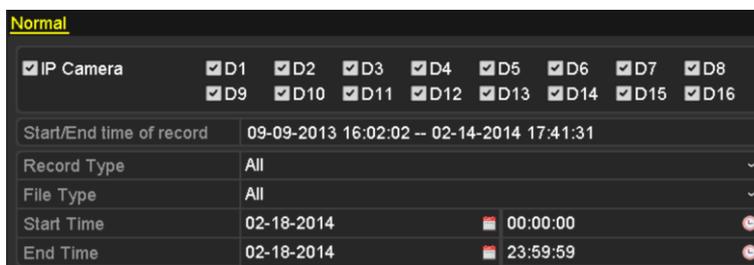
The reverse playback is not supported by DS-7100NI-SN series NVR.

Backup

Recorded files can be backed up to various devices, such as USB flash drives, USB HDDs or a DVD writer.

Steps:

1. Enter Video Export interface.
Choose the channel(s) you want to back up and click on the **Quick Export** button.



2. Enter Export interface, choose backup device and click **Export** button to start exporting.



3. Check backup result.

Choose the recording file in Export interface and click button  to check it.



Accessing by Web Browser

Logging In

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.

Before you start:

Ensure the PC and NVR are in the same network segment.

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.

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:

- 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.



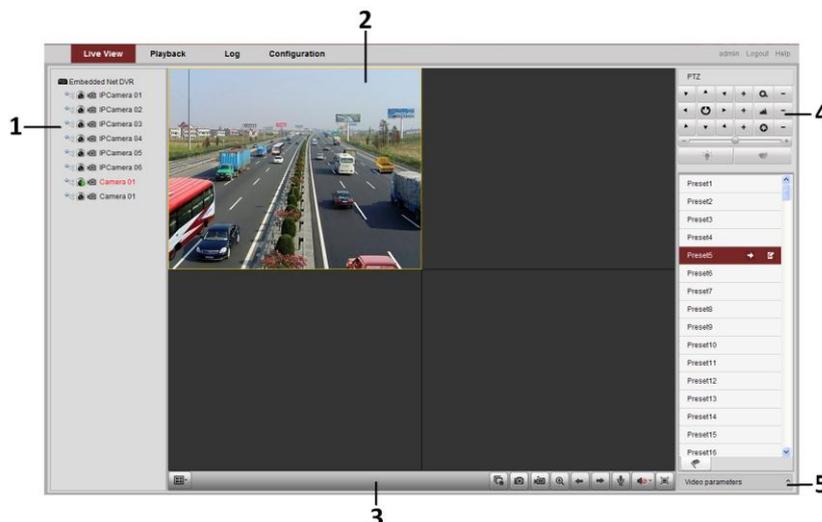
3. Install the plug-in before viewing the live video and managing the camera. Please follow the installation prompts to install the plug-in.



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

Live View

The live view interface appears by default when you log in the device.



The live view interface may differ according to different models.

Interface Introduction

No.	Name	Description
1	Channel List	Displays the list of channels and the playing and recording status of each channel. The stream type can be switched by clicking the icon before the channel name: stands for main stream and for sub-stream.
2	Live View Window	Displays the image of channel, and multi-window division is supported.
3	Play Control Bar	Play control operations are supported.
4	PTZ Control	Pan, tilt, zoom operations are supported, as well as preset editing and calling.

No.	Name	Description
		PTZ function can only be realized if the connected camera supports PTZ control.
5	Video Parameters Configuration	Brightness, contrast, saturation and hue of the image can be edited.



The PTZ control is supported by DS-7600NI-SE series NVR only.

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 device list to start the live view.
3. You can click the  button on the toolbar to start the live view of all cameras on the device list.

Refer to the following table for the description of buttons on the live view window:

Icon	Description	Icon	Description
	Select the window-division mode		Open/Close audio
	Start/Stop all live view		Start/Stop two-way Audio
	Capture pictures in the live view mode		Adjust volume
	Start/Stop all recording		Enable/Disable digital zoom
	Previous/Next page		Full screen

Recording

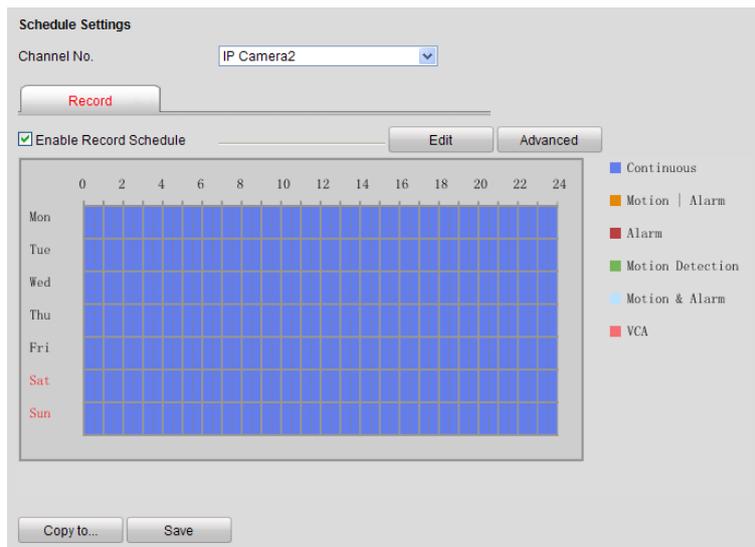
Before you start

Make sure the device is connected with HDD or network disk, and the HDD or network disk has been initialized for the first time to use.

Two recording types can be configured: Manual and Scheduled. The following section introduces the configuration of scheduled recording.

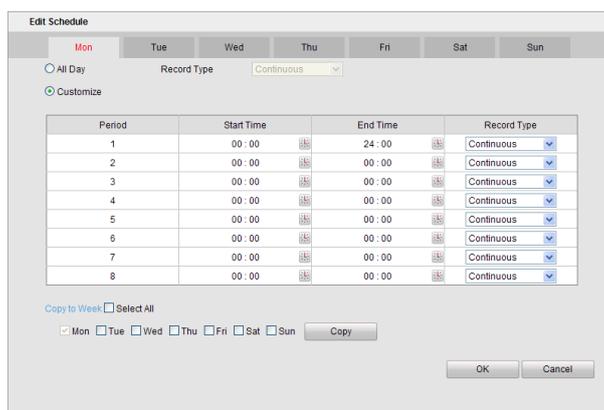
Steps:

1. Click **Configuration > Remote Configuration > Camera Settings > Schedule Settings** to enter Record Schedule settings interface.
2. Select the camera to configure the record schedule.
3. Check the checkbox of **Enable Schedule** to enable recording schedule.



The Alarm, Motion & Alarm, Motion | Alarm recording types are not supported by the DS-7100NI-SL(/W) series NVR.

4. Choose the day in a week to configure scheduled recording.
5. Click **Edit** to edit record schedule.



- 1) Configure All Day or Customize Record:
 - If you want to configure the all-day recording, please check the **All Day** checkbox.
 - If you want to record in different time sections, check the **Customize** checkbox. Set the **Start Time** and **End Time**.



Up to 8 segments can be configured and each segment cannot be overlapped.

- 2) Select a **Record Type**. The record type can be Continuous, Motion, Alarm, Motion & Alarm, Motion | Alarm and VCA.
 - 3) Check the checkbox of **Select All** and click **Copy** to copy settings of this day to the whole week. You can also check any of the checkboxes before the date and click **Copy**.
 - 4) Click **OK** to save the settings and exit the **Edit Schedule** interface.
6. Click **Advanced** to configure advanced record parameters.
 7. Click **Save** to activate the above settings.

Playback



The playback interface may differ according to different models.

Interface Introduction

No.	Name	Description
1	Channel List	Displays the list of channels and the playing status of each channel.
2	Playback Window	Displays the image of channel.
3	Play Control Bar	Play control operations are supported.
4	Time Line	Displays the time bar and the records marked with different colors.
5	Playback Status	Displays the playback status, including channel number and playback speed.
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 the camera from the device list for playback.
3. Select the date from the calendar and click **Search**.
4. Click the **Play** button to play the video file searched on the current date.
5. Use the buttons on the toolbar to operate in playback mode.

Button	Description	Button	Description
	Play/Pause		Stop
	Slow down		Speed up
	Play by single frame		Capture
	Stop all playback		Download
	Video clip		Open/Close audio
	Full screen		Reverse playback

- 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.



The reverse playback is not supported by DS-7100NI-SN series NVR.

Log

You can view and export the log files at any time, including operation, alarm, exception and information of device.

Before you start:

The Log function can be realized only when the device is connected with HDD or network disk.

Steps:

- Click **Log** on the menu bar to enter the Log interface.

No.	Time	Major Type	Minor Type	Channel No.	Local/Remote User	Remote Host IP
1	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
2	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
3	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
4	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
5	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
6	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
7	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
8	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
9	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
10	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
11	2013-02-28 09:38:38	Operation	Remote: Configure Parameters	A4	admin	192.168.1.12
12	2013-02-28 09:38:38	Operation	Remote: Configure Parameters	A4	admin	192.168.1.12
13	2013-02-28 09:38:38	Operation	Remote: Configure Parameters	A4	admin	192.168.1.12
14	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
15	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
16	2013-02-28 09:38:38	Operation	Remote: Get Parameters		admin	192.168.1.12
17	2013-02-28 09:38:39	Operation	Remote: Get Parameters		admin	192.168.1.12
18	2013-02-28 09:38:40	Operation	Remote: Get Parameters		admin	192.168.1.12
19	2013-02-28 09:38:41	Operation	Remote: Get Parameters		admin	192.168.1.12
20	2013-02-28 09:38:41	Operation	Remote: Get Parameters		admin	192.168.1.12
21	2013-02-28 09:38:41	Operation	Remote: Get Parameters		admin	192.168.1.12
22	2013-02-28 09:38:42	Operation	Remote: Configure Parameters	A3	admin	192.168.1.12
23	2013-02-28 09:38:42	Operation	Remote: Configure Parameters	A3	admin	192.168.1.12
24	2013-02-28 09:38:42	Operation	Remote: Configure Parameters	A3	admin	192.168.1.12
25	2013-02-28 09:38:42	Operation	Remote: Get Parameters		admin	192.168.1.12
26	2013-02-28 09:38:42	Operation	Remote: Get Parameters		admin	192.168.1.12
27	2013-02-28 09:38:42	Operation	Remote: Get Parameters		admin	192.168.1.12
28	2013-02-28 09:38:42	Operation	Remote: Get Parameters		admin	192.168.1.12
29	2013-02-28 09:38:47	Operation	Remote: Get Parameters		admin	192.168.1.12
30	2013-02-28 09:38:47	Operation	Remote: Get Parameters		admin	192.168.1.12

- Set the log search conditions to refine your search, including the Major Type, Minor Type, Start Time and End Time.
- Click the **Search** button to start searching log files.
- The matched log files will be displayed on the list.



Up to 2000 log files can be found each time, and 100 log files can be displayed on each page.

You can click the button to save the searched log files to local directory.



First Choice for Security Professionals