

Network Video Recorder

Quick Start Guide

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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/).

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Regulatory Information

FCC Information

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

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

FCC Conditions

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

1. This device may not cause harmful interference.

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

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and (F 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.

Applicable Models

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

Series	Model
NVR-100H-D	NVR-104H-D
NVK-10011-D	NVR-108H-D
	NVR-104H-D/4P
NVR-100H-D/P	NVR-108H-D/8P
NVR-100MH-D	NVR-104MH-D
NVR-100MH-D	NVR-108MH-D
NVR-100MH-D/P	NVR-104MH-D/4P
	NVR-108MH-D/8P

Symbol Conventions

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

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

Power Supply Instructions

Use only power supplies listed in the user instructions.

NVR Models	Standard	Power Supply Models	Manufacturer
	European	MSA-C1500IC12.0-18P-DE	MOSO Power Supply Technology Co., Ltd
		ADS-26FSG-12 12018EPG	Shenzhen HONOR Electronic Co., Ltd
NVR-104H-D		KL-AD3060VA	Xiamen Keli Electronics Co., Ltd
NVR-108H-D		KPD-018-VI	Channel Well Technology Co., Ltd
NVR-104MH-D NVR-108MH-D		ADS-25FSG-12 12018GPB	Shenzhen HONOR Electronic Co., Ltd
	British	MSA-C1500IC12.0-18P-GB	MOSO Power Supply Technology Co., Ltd
		ADS-26FSG-12 12018EPB	Shenzhen HONOR Electronic Co., Ltd
NVR-104H-D/4P	Universal	MSP-Z1360IC48.0-65W	MOSO Power Supply Technology Co., Ltd
NVR-108H-D/8P		MSA-Z1040IS48.0-65W-Q	MOSO Power Supply Technology Co., Ltd
NVR-104MH-D/4P		MSA-Z1360IS48.0-65W-Q	MOSO Power Supply Technology Co., Ltd
NVR-108MH-D/8P		WISA-213001348.0-05W-Q	

- The power supplies list above is for EU countries only.
- The power supplies list is subject to change without prior notice.

Chapter1 Panels Description

1.1 Front Panel

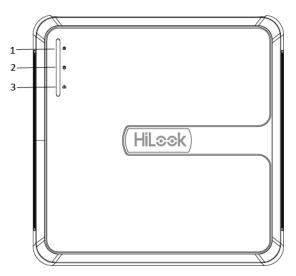


Figure 1-1 NVR-100H-D (/P) Series

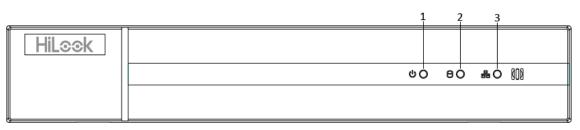


Figure 1-2	NVR-100MH-D (/P) Series
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Table 1-1	Description o	f Front Panel
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No.	Icon	Description
1	Ů	Indicator turns red when NVR is powered up.
2	<u></u>	Indicator lights in red when data is being read from or written to HDD.
3	D D D	Indicator blinks blue when network connection is functioning properly.

1.2 Rear Panel

NVR-100H-D and NVR-100MH-D Series

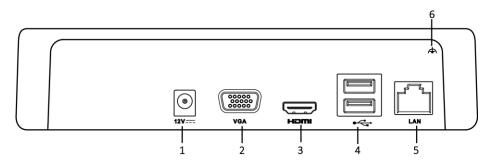


Figure 1-3 NVR-100H-D Rear Panel

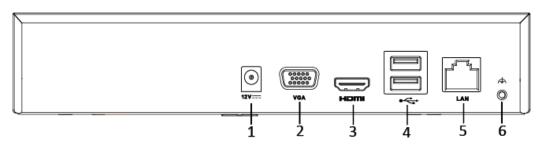


Figure 1-4 NVR-100MH-D Rear Panel

No.	Item	Description
1	Power Supply	12 VDC power supply.
2	VGA Interface	DB9 connector for VGA output. Display local video output and menu.
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	LAN Network Interface	10/100 Mbps self-adaptive Ethernet interface.
6	Ground	Ground (needs to be connected when NVR starts up).

NVR-100H-D/P and NVR-100MH-D/P Series

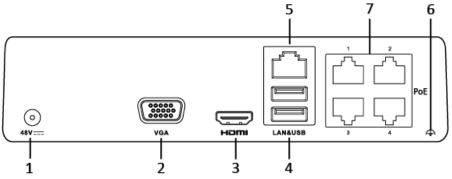


Figure 1-5 NVR-100H-D/P Rear Panel

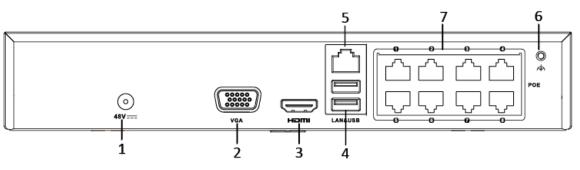


Figure 1-6 NVR-100MH-D/P Rear Panel

No.	Item	Description
1	Power Supply	12 VDC power supply.
2	VGA Interface	DB9 connector for VGA output. Display local video output and menu.
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	LAN Network Interface	10/100 Mbps self-adaptive Ethernet interface.
6	Ground	Ground (needs to be connected when NVR starts up).
7	Network Interfaces with PoE function	Network interfaces for the cameras and to provide power over Ethernet.
		4 interfaces for /4P models and 8 interfaces for /8P models.

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 device by unfastening the screws on the bottom.

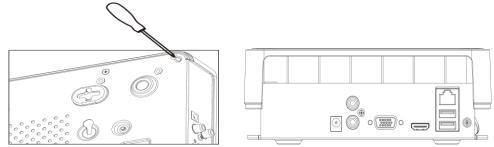


Figure 2-1 Remove the Cover

Step 2 Place the HDD on the bottom of the device and then fasten the screws on the bottom to fix the HDD.

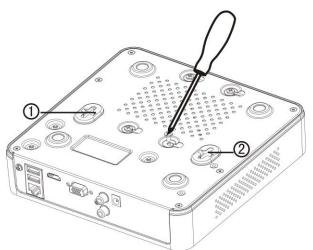


Figure 2-2 Fix the HDD

- Step 3 Connect one end of the data cable to the motherboard of NVR and the other end to the HDD.
- Step 4 Connect the power cable to the HDD.

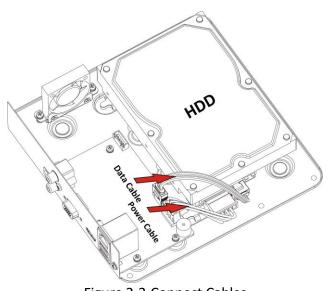


Figure 2-3 Connect Cables Step 5 Re-install the cover of the NVR and fasten screws.

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		1
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	Bit Rate	Storage Used
160К 70М 192К 84М 224К 98М 256К 112М 320К 140М 384К 168М 448К 196М 512К 225М 640К 281М 768К 337М 896К 393М 1024К 450М 1280К 562М 1536К 675М 1792К 787М 2048К 900М 4096К 1.8G 8192К 3.6G	96К	42M
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	128К	56M
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	160K	70M
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	192К	84M
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	224K	98M
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	256K	112M
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	320К	140M
512K 225M 640K 281M 768K 337M 896K 393M 1024K 450M 1280K 562M 1536K 675M 1792K 787M 2048K 900M 4096K 1.8G 8192K 3.6G	384K	168M
640K 281M 768K 337M 896K 393M 1024K 450M 1280K 562M 1536K 675M 1792K 787M 2048K 900M 4096K 1.8G 8192K 3.6G	448K	196M
768K 337M 896K 393M 1024K 450M 1280K 562M 1536K 675M 1792K 787M 2048K 900M 4096K 1.8G 8192K 3.6G	512K	225M
896K 393M 1024K 450M 1280K 562M 1536K 675M 1792K 787M 2048K 900M 4096K 1.8G 8192K 3.6G	640K	281M
1024К 450М 1280К 562М 1536К 675М 1792К 787М 2048К 900М 4096К 1.8G 8192К 3.6G	768K	337M
1280K 562M 1536K 675M 1792K 787M 2048K 900M 4096K 1.8G 8192K 3.6G	896K	393M
1536К 675М 1792К 787М 2048К 900М 4096К 1.8G 8192К 3.6G	1024К	450M
1792К 787М 2048К 900М 4096К 1.8G 8192К 3.6G	1280K	562M
2048К 900М 4096К 1.8G 8192К 3.6G	1536K	675M
4096К 1.8G 8192К 3.6G	1792K	787M
8192K 3.6G	2048К	900M
	4096К	1.8G
16384K 7.2G	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 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 switch on the 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 1 Go to Menu > Shutdown.



Figure 3-1 Shutdown

Step 2 Select Shutdown.

Step 3 Click Yes.

3.2 Activate 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 Create New Password and Confirm New Password.

- Step 2 (Optional) Use customized password to activate and add network camera(s) connected to the device.
 - 1) Uncheck Use Channel Default Password.
 - 2) Enter a password in IP Camera Activation.



Figure 3-2 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.

Step 3 Click OK.

3.3 Set the Unlock Pattern for Login

Admin can use the unlock pattern for device login.

For devices with PoE function, you can draw the device unlock pattern after activation. For other devices, the unlock pattern interface will show after the first-time login.

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 3-3 Draw the Pattern

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

3.4 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.

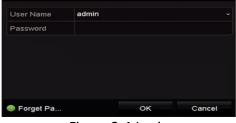


Figure 3-4 Login

Step 2 Input Password.

Step 3 Click **OK**.



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

3.5 Network Settings

Purpose:

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

Step 1 Enter the general network settings interface.

```
Menu > Configuration > Network > General
```

NIC Туре		100M Full-dup			
Enable DHCP					
IPv4 Address	10 .15 .1 .10	08 IPv6 Address 1 fe80::b6a3:82ff:febe:ad2c/6		fe80::b6a3:82ff:febe:ad2c/64	
IP∨4 Subnet	255.255.255.0		IPv6 Address 2		
IPv4 Default G	. 10 .15 .1 .254		IPv6 Default G		
MAC Address		b4:a3:82:be:ad:2c			
MTU(Bytes)		1500			
Enable Obtain DNS Server Addr					
Preferred DNS Server		10.1.7.88			
Alternate DNS Server		10.1.7.77			
Internal NIC IPv4 Address		192 . 168 . 254 . 1			

Figure 3-5 Network Settings

- Step 2 Configure the following settings: NIC Type, IPv4 Address, IPv4 Gateway, MTU and DNS Server.
- Step 3 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 4 Click Apply.

3.6 Add 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 🛃 in the center of the window to pop up the Add IP Camera interface.

		Add	l IP Camera		
No.	IP Address	Amou	int of Device	• Ty Protocol	Managen
1	10.16.1.62	1	IPC	HIKVISIO	ON 8000
2	10.16.1.199	1	IP Dor	ne HIKVISIO	O008 NC
<	11	I			>
IP Car	nera Address	10.16.1.62			
Protoc	ol	HIKVISION	I		~
Manag	gement Port	8000			
Chanr	nel Port	1			~
Trans	fer Protocol	Auto			÷
User N	Name	admin			
Passv	word				
			Search	Add	Cancel

Figure 3-6 Add IP Camera

Step 3 Select the detected IP camera and click Add to add it directly, and you can click Search 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 Add to add it.

3.7 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.



Narm (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.)

3.8 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.

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

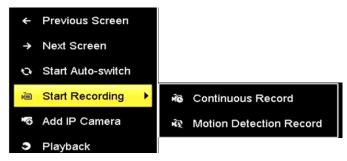


Figure 3-7 Start Recording from Right-click Menu

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

3.9 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 3-8 Playback Interface

Step 4 Select the channel(s) to 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, 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.	Calong
Confirm	•••••	
		ОК

Figure 4-1 Set Admin Password

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



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 **Login**.

a dmin
••••••
Login

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.



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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