



NVR Quick Start Guide

Introduction

Welcome

Thank you for purchasing our Network Video Recorder (without HDD).

This Quick Start Guide (hereinafter referred to be "the Guide") will help you become familiar with our NVR (WITHOUT HDD) in a short time.



Please read the Guide carefully before starting using your NVR (WITHOUT HDD) and properly keep it for future reference.

Important Safeguards and Warnings

- To secure your device, it is strongly recommended to create a strong password and change it periodically, especially in the high security system.
- All installation and operations herein should conform to your local electrical safety codes. We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.
- Improper battery use might result in fire, explosion, or personal injury.
- When replacing the battery, make sure the same model is used.
- We assume no liability or responsibility for any problems caused by unauthorized modifications or attempted repair.
- Use a power supply that meets the requirements for SELV (Safety Extra Low Voltage) and complies with Limited Power Source according to IEC 60950-1. Refer to the device label for detailed information.
- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.
- Keep upwards. Handle with care.
- Do not apply power to the NVR (WITHOUT HDD) before completing installation.
- Do not place objects on the NVR (WITHOUT HDD).
- All the examination and repair work should be done by the qualified service engineers.
- We are not liable for any problems caused by unauthorized modifications or attempted repair.
- The NVR (WITHOUT HDD) should be installed in a cool, dry place away from direct sunlight, inflammable, explosive substances etc.
- Be sure to use all the accessories recommended by the manufacturer.
- Before installation, please open the package and check all the components are included:
- Contact your local retailer ASAP if something is missing in your package.

Safety Icons

The following categorized signal words with defined meaning might appear in the Guide.

Signal Words	Meaning
 CAUTION	Indicates a potential risk which, if not avoided, may result in property damage, data loss, lower performance, or unpredictable result.
 NOTE	Provides additional information as the emphasis and supplement to the text.

About this Guide

- The Guide is a general document for introducing the product, so there might be some functions described for NVR (WITHOUT HDD) in the Guide not apply to the model you purchased, or the interfaces might be different, or the operations might be different, and in these cases the actual product shall govern.
- All the designs and software are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned herein are the properties of their respective owners.
- Any loss caused by not complying with the operations described in the Guide should be borne by the user.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Please visit our website or contact your local service engineer for more information.

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1 Quick Start

 NOTE

The actual appearance or quantity might be different depending on the model you purchased.


1.1 Unpacking the Accessories



Figure 1-1

1.2 Checking the Components

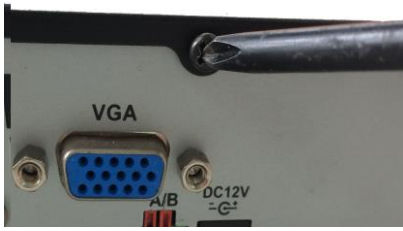
When you receive the NVR (WITHOUT HDD) (Without HDD), please check against the following checking list. If any of the items are missing or damaged, contact the local retailer or after-sales engineer immediately.

Sequence	Checking items		Requirement
1	Package	Appearance	No obvious damage.
		Packing materials	No broken or distorted positions that could be caused by hit.
2	Labels	Labels on the device	Not torn up.  NOTE Do not tear up or throw away the labels; otherwise, the warranty services are not ensured. You need to provide the serial number of the product when calling the after-sales service.
3	Device	Appearance	No obvious damage.
		Data cables, power cables, fan cables, and mainboard	No loose connection.

1.3 Installing Hard Disk Drive (HDD)

 NOTE

- Please use the recommended HDD from the manufacturer.
- Shut down the NVR (WITHOUT HDD) and unplug the power cable before opening the cover to replace the HDD.



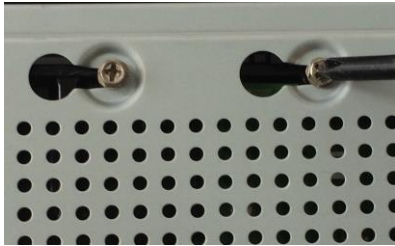
1. Remove the screws to take off the cover.



2. Fix the screws on the HDD but do not fasten them.



3. Put the HDD onto the NVR (WITHOUT HDD).



4. Turn the NVR (WITHOUT HDD) to see the back side of it. Aim the screws of the HDD at the holes on the back of the NVR (WITHOUT HDD), and then fasten the screws.



5. Use the HDD cable and power cable to connect HDD and mainboard.



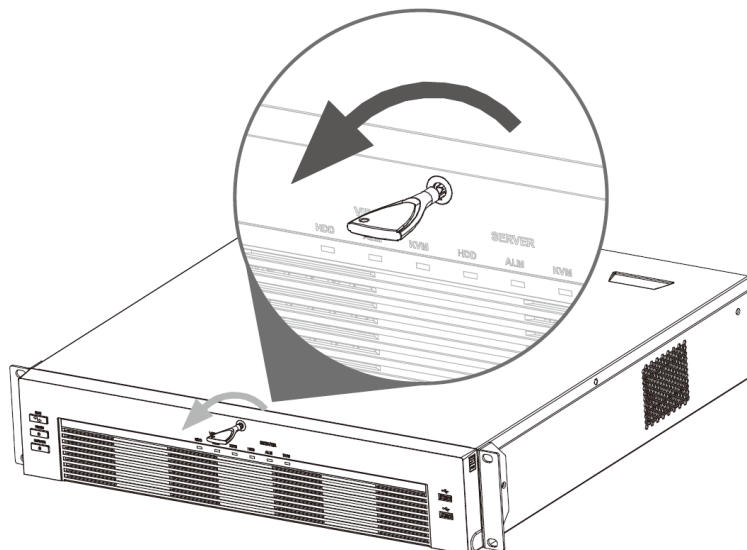
6. Put back the cover and fasten the screws.

1.3.1 Drawer-like Series Disk installation

Procedure

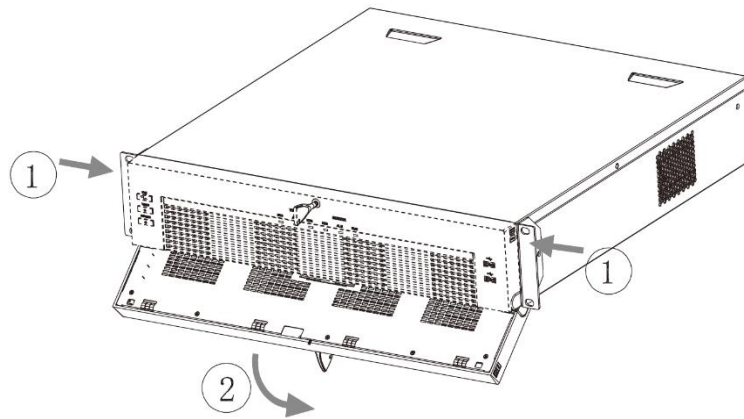
Step 1 Unlock the lock on the front panel.

Figure 3-28 Unlock front panel



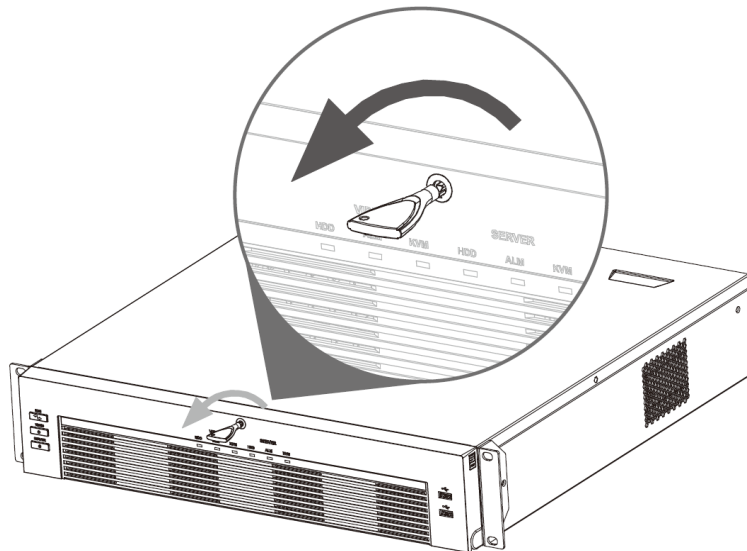
Step 2 Press the button on the 2 sides to open the front panel.

Figure 3-29 Open front panel



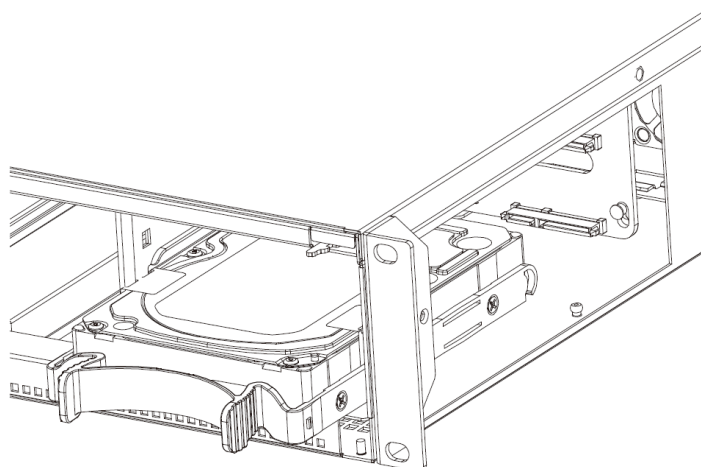
Step 3 Match the 4 screw holes on the HDD with the 4 holes on the bracket and then fasten the screws.

Figure 3-30 Fasten HDD



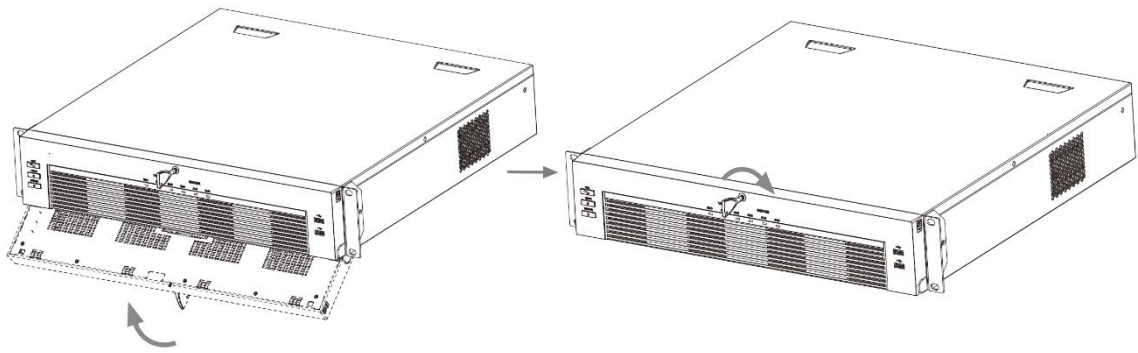
Step 4 Push the HDD box into the device.

Figure 3-31 Unlock front panel



Step 5 Close the front panel and then tighten the lock on the front panel.

Figure 3-32 Lock front panel



1.4 Booting up



CAUTION

Ensure the input voltage corresponds to the power requirement of the NVR (WITHOUT HDD).

Step 1 Connect the NVR (WITHOUT HDD) to a display.

Step 2 Plug in the power cable to the NVR (WITHOUT HDD).

Step 3 Press the power button to turn on the NVR (WITHOUT HDD). The power indicator glows. On the connected display, the live view screen is displayed.

2 General Details of Product

2.1 Front Panel

2.1.1 Mini 1U (Without HDD)

The following Figure 2-1 shows the Front panel of Mini 1U model (as an example).



Figure 2-1

SN	Name	Function
1	HDD status indicator light	The red light becomes on when HDD is abnormal.
2	Power indicator light	The red light becomes on when the power connection is OK.
3	Network status indicator light	The red light becomes on when the network connection is abnormal.
4	USB2.0 port	Connect to USB storage device, mouse

2.1.2 Compact 1U(Without HDD)

2.1.2.1 Type 1

The following Figure 2-2 shows the Front panel of Compact 1U model (as an example).



Figure 2-2

SN	Name	Function
1	HDD status indicator light	The red light becomes on when HDD is abnormal.
2	Power indicator light	The red light becomes on when the power connection is OK.
3	Network status indicator light	The red light becomes on when the network connection is abnormal.
4	USB2.0 port	Connect to USB storage device, mouse

2.1.2.2 Type 2

The following Figure2-3 shows the Front panel of Compact 1U model (as an example).





Figure 2-3

2.1.3 1U (Without HDD)

The following Figure 2-4 shows Front panel of 1U model (as an example)



Figure 2-4

Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down NVR (WITHOUT HDD).
Channel	1-16	Show the channel with recording enabled
USB port		To connect USB storage device, USB mouse.



Network abnormal indication	Net	Network error occurs or there is no network connection, the light becomes red to alert you.
HDD abnormal indication light	HDD	HDD error occurs or HDD capacity is below specified threshold value, the light becomes red to alert you.
IR Receiver	IR	It is to receive the signal from the remote control.

2.1.4 1.5U (Without HDD)

The following Figure 2-5 shows the Front panel of 1.5 U model (as an example).



Figure 2-5



Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down NVR (WITHOUT HDD).
Channel	1-16	Show the channel with recording enabled
USB port		To connect USB storage device, USB mouse.
Network abnormal indication	Net	Network error occurs or there is no network connection, the light becomes red to alert you.
HDD abnormal indication light	HDD	HDD error occurs or HDD capacity is below specified threshold value, the light becomes red to alert you.
IR Receiver	IR	It is to receive the signal from the remote control.

2.1.5 2U (Without HDD)

The following Figure 2-6 shows the Front panel of 2U model (as an example).

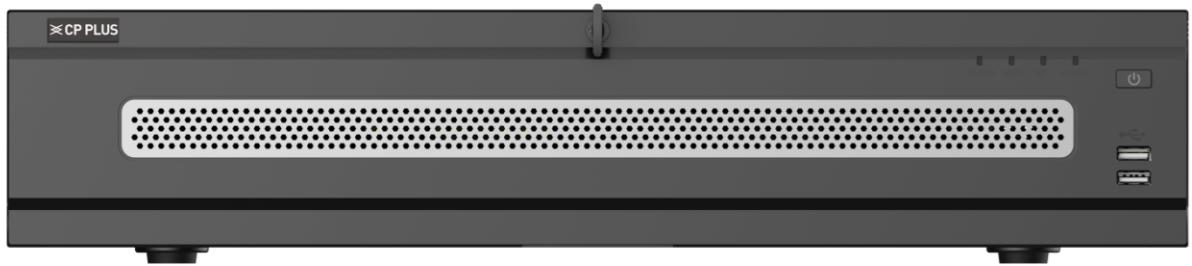


Figure 2-6

Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down NVR (WITHOUT HDD).
Channel	1-16	Show the channel with recording enabled
USB port		To connect USB storage device, USB mouse.
Network abnormal indication	Net	Network error occurs or there is no network connection, the light becomes red to alert you.
HDD abnormal indication light	HDD	HDD error occurs or HDD capacity is below specified threshold value, the light becomes red to alert you.
IR Receiver	IR	It is to receive the signal from the remote control.

2.1.6 2U (Without HDD) Drawer-Like Series

The following Figure 2-6 shows the Front panel of 2U model openable from front hot swappable disk (as an example).





Name	Icon	Function
Power button		Power button, press this button for three seconds to boot up or shut down NVR (WITHOUT HDD).
ALARM	ALM	Alarm indicator light
USB port		To connect USB storage device, USB mouse.
NET	Net	Network error occurs or there is no network connection, the light becomes red to alert you.
HDD	HDD	HDD error occurs or HDD capacity is below specified threshold value, the light becomes red to alert you.
POWER	PWD	Power Status Indicator Light

Figure 2-7

2.1.7 3U (Without HDD) Series

The following shows

Figure 2-8 the Front panel of 3U model openable from front hot swappable disk (as an example).

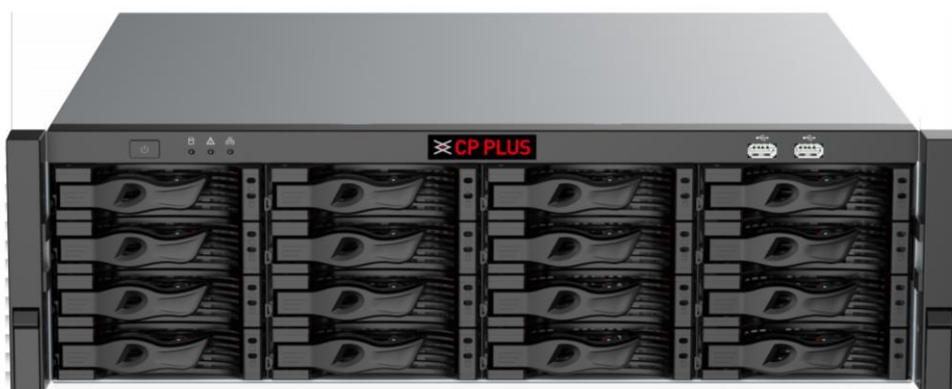


Figure 2-8

2.2 Rear Panel

2.2.1 Mini 1U Series

The NVR (WITHOUT HDD) rear panel is shown below. See Figure 2-9.

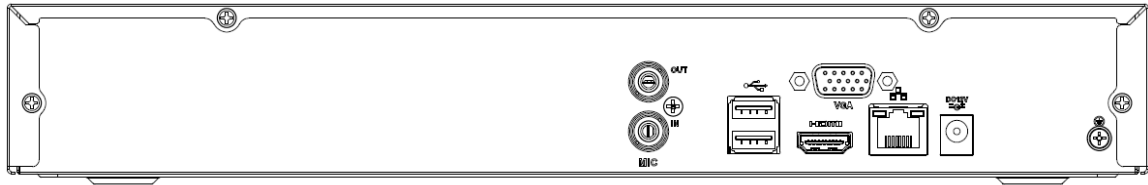


Figure 2-9

Name		Function
	Power input port	Input DC 12V/5A..
MIC IN	Audio input port	Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as microphone, pickup.
MIC OUT	Audio output port	Audio output port. It is to output the analog audio signal to devices such as the sound box. <ul style="list-style-type: none"> ● Bidirectional talk output. ● Audio output on 1-window video monitor. ● Audio output on 1-window video playback.
	GND	Alarm input ground port.
	Network port	10M/100M/1000Mbps self-adaptive Ethernet port. Connect to the network cable.
	USB2.0 port	USB2.0 port. Connect to mouse, USB storage device, USB burner and etc.
HDMI	High Definition Media Interface	High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.

2.2.2 Compact 1U Series

The Compact 1U series rear panel is shown as below. See Figure 2-10.

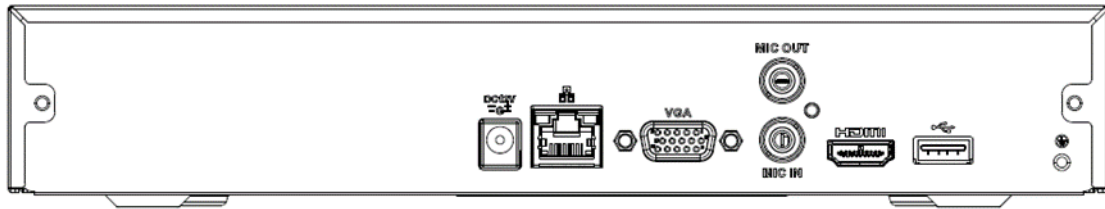





Figure 2-10

Please refer to the following sheet for detailed information.

Port Name	Connection	Function
DC 12V -G	Power input port	Power socket. 12V and 2Amp. ●
	Network port	10M/100Mbps self-adaptive Ethernet port. Connect to the network cable.
	USB port	USB port. Connect to mouse, USB storage device and etc.
HDMI	High Definition Media Interface	High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.
MIC IN	Audio input port	Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as microphone, pickup.
MIC OUT	Audio output port	Audio output port. It is to output the analog audio signal to the devices such as the sound box. ● Bidirectional talk output. ● Audio output on 1-window video monitor. ● Audio output on 1-window video playback.
	GND	Ground end

2.2.3 1U Series

The NVR (WITHOUT HDD) rear panel is shown as below. See Figure 2-11.

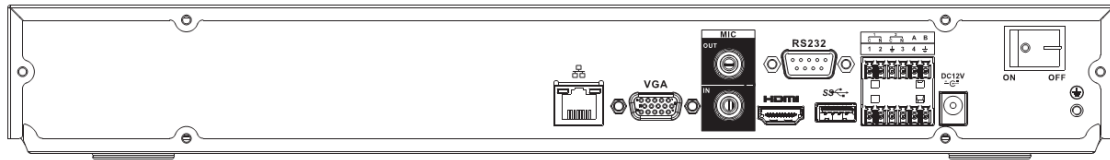








Figure 2-11

Please refer to the following sheet for detailed information.

Name		Function
	Power switch	Power on/off button.
	Power input port	Input DC 12V/5A.
MIC IN	Audio input port	Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as microphone, pickup.
MIC OUT	Audio output port	Audio output port. It is to output the analog audio signal to the devices such as the sound box. <ul style="list-style-type: none"> ● Bidirectional talk output. ● Audio output on 1-window video monitor. ● Audio output on 1-window video playback.
1~4	Alarm input port 1~4	<ul style="list-style-type: none"> ● There are two types; NO (normal open)/NC (normal close). ● When your alarm input device is using ● external power, please make sure the device and the NVR (WITHOUT HDD) have the same ground.
	GND	Alarm input ground port.
N1, N2 C1, C2	Alarm output port 1~2	<ul style="list-style-type: none"> ● 2 groups of alarm output ports. (Group 1 : port NO1~C1, Group 2: port NO2~C2).Output alarm signal to the alarm device. Please make sure there is power to the external alarm device. ● NO : Normal open alarm output port. ● C : Alarm output public end.
	Network port	10M/100M/1000Mbps self-adaptive Ethernet port. Connect to the network cable.
	 USB2.0 port	USB2.0 port. Connect to mouse, USB storage device, USB burner and etc.
RS-232	RS-232 debug COM.	It is for general COM debug to configure IP address or transfer transparent COM data.
HDMI	High Definition Media Interface	High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.4.
VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.

2.2.4 1.5U Series

The NVR (WITHOUT HDD) rear panel is shown as below. See Figure 2-12.

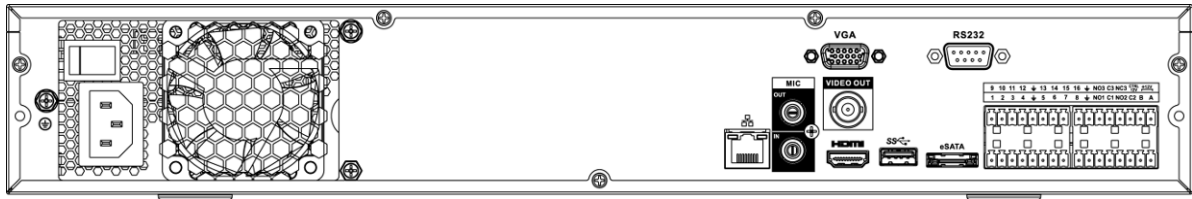




Figure 2-12

Please refer to the following sheet for detailed information.

Name		Function
Power switch	/	Power on-off button
Power input port	/	Input AC 100~240V.
MIC IN	Audio input port	Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as microphone, pickup.
MIC OUT	Audio output port	Audio output port. It is to output the analog audio signal to the devices such as the sound box. <ul style="list-style-type: none"> ● Bidirectional talk output. ● Audio output on 1-window video monitor. ● Audio output on 1-window video playback.
VIDEO OUT	Video output port	CVBS output
1~16	Alarm input port 1~16	<ul style="list-style-type: none"> ● There are four groups. The first group is from port 1 to port 4, the second group is from port 5 to port 8, the third group is from 9 to 12, and the fourth group is from 13 to 16. They are to receive the signal from the external alarm source. There are two types; NO (normal open)/NC (normal close). ● When your alarm input device is using external power, please make sure the device and the NVR (WITHOUT HDD) have the same ground.
⏏	Video output port	CVBS output
NO1~NO5	Alarm output port 1~5	<ul style="list-style-type: none"> ● 5 groups of alarm output ports. (Group 1 : port NO1~C1, Group 2:port NO2~C2, Group 3:port NO3~C3,
C1~C5		

Name		Function
NC5		<p>Group 4 : port NO4~C4, Group 5: port NO5, C5, NC5).</p> <p>Output alarm signal to the alarm device. Please make sure there is power to the external alarm device.</p> <ul style="list-style-type: none"> ● NO: Normal open alarm output port. ● C: Alarm output public end. ● NC: Normal close alarm output port.
CTRL 12V	/	<p>Controller 12V power output. It is to control the on-off alarm relay output. It can be used to control the device alarm output. At the same time, it can also be used as the power input source of some devices such as the alarm detector.</p>
+12V	/	<p>+12V power output port. It can provide the power to some peripheral devices such as the camera or the alarm device.</p> <p>Please note the supplying power shall be below 1A.</p>
	Network port	<p>10M/100M/1000Mbps self-adaptive Ethernet port. Connect to the network cable.</p>
eSATA	eSATA port	<p>External SATA port. It can connect to the device of the SATA port. Please jump the HDD when there is peripheral connected HDD.</p>
	USB2.0 port	<p>USB2.0 port. Connect to mouse, USB storage device, USB burner and etc.</p>
RS-232	RS232 debug COM.	<p>It is for general COM debug to configure IP address or transfer transparent COM data.</p>
HDMI	High Definition Media Interface	<p>High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.3</p>
VGA	VGA video output port	<p>VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.</p>
PoE PORTS	8 PoE ports	<p>Built-in Switch. Support PoE.</p> <p>The 8 PoE ports series products supports total 48V 120W power. One PoE port max supports 15W.</p>
PoE PORTS	16 PoE ports	<p>Built-in Switch. Support PoE. The 16 PoE ports series products supports total 150W power. One PoE port max supports 15W.</p>

2.2.5 2U Series

The NVR (WITHOUT HDD) rear panel is shown as below. See Figure 2-13

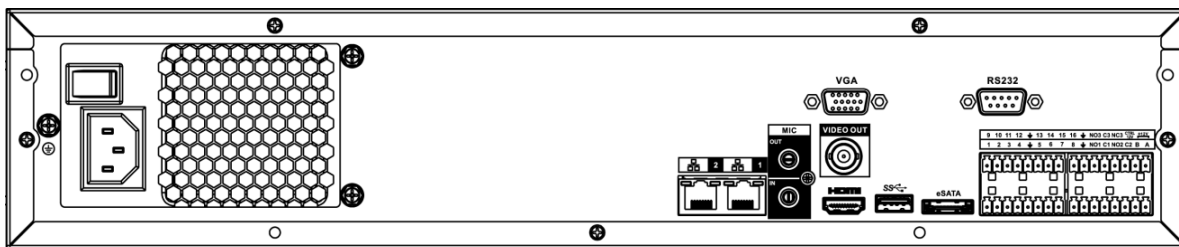





Figure 2-13

Please refer to the following sheet for detailed information.

Name		Function
Power switch	/	Power on-off button
Power input port	/	Input AC 100~240V.
MIC IN	Audio input port	Bidirectional talk input port. It is to receive the analog audio signal output from the devices such as microphone, pickup
MIC OUT	Audio output port	Audio output port. It is to output the analog audio signal to the devices such as the sound box. <ul style="list-style-type: none"> ● Bidirectional talk output. ● Audio output on 1-window video monitor. ● Audio output on 1-window video playback.
VIEDEO OUT	Video output port	CVBS output.
1~16	Alarm input port 1~16	<ul style="list-style-type: none"> ● There are four groups. The first group is from port 1 to port 4, the second group is from port 5 to port 8, the third group is from 9 to 12, and the fourth group is from 13 to 16. They are to receive the signal from the external alarm source. There are two types; NO (normal open)/NC (normal close). ● When your alarm input device is using external power, please make sure the device and the NVR (WITHOUT HDD) have the same ground.
	GND	Alarm input ground port.
NO1~NO5	Alarm output port 1~5	<ul style="list-style-type: none"> ● 5 groups of alarm output ports. (Group 1: port NO1 ~ C1, Group 2:port NO2 ~ C2,Group 3:port NO3 ~ C3, Group 4: port NO4 ~ C4, Group 5: port NO5, C5, NC5).Output alarm signal to the alarm device. Please make sure there is power to the external alarm device. ● NO: Normal open alarm output port. ● C: Alarm output public end. ● NC: Normal close alarm output port.
C1~C5		
NC5		

Name		Function
CTRL 12V	/	Controller 12V power output. It is to control the on-off alarm relay output. It can be used to control the device alarm output. At the same time, it can also be used as the power input source of some devices such as the alarm detector.
+12V	/	+12V power output port. It can provide the power to some peripheral devices such as the camera or the alarm device. Please note the supplying power shall be below 1A.
	Network port	One 10M/100M/1000Mbps self-adaptive Ethernet port. Connect to the network cable.
eSATA	eSATA port	External SATA port. It can connect to the device of the SATA port. Please jump the HDD when there is peripheral connected HDD.
	USB2.0 port	USB2.0 port. Connect to mouse, USB storage device, USB burner and etc.
RS-232	RS-232 debug COM.	It is for general COM debug to configure IP address or transfer transparent COM data.
HDMI	High Definition Media Interface	High definition audio and video signal output port. It transmits uncompressed high definition video and multiple-channel data to the HDMI port of the display device. HDMI version is 1.3
VGA	VGA video output port	VGA video output port. Output analog video signal. It can connect to the monitor to view analog video.
PoE PORTS	16 PoE ports	Built-in Switch. Support PoE. The 16 PoE ports series products supports total 150W power. One PoE port max supports 15W.

2.2.6 3U Series

The NVR (WITHOUT HDD) rear panel is shown as below. Figure 2-14

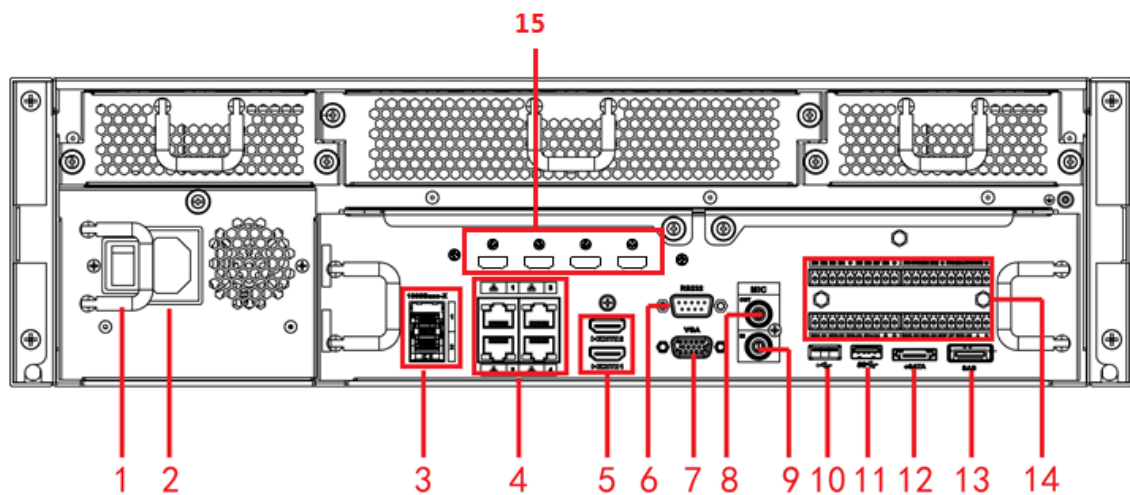



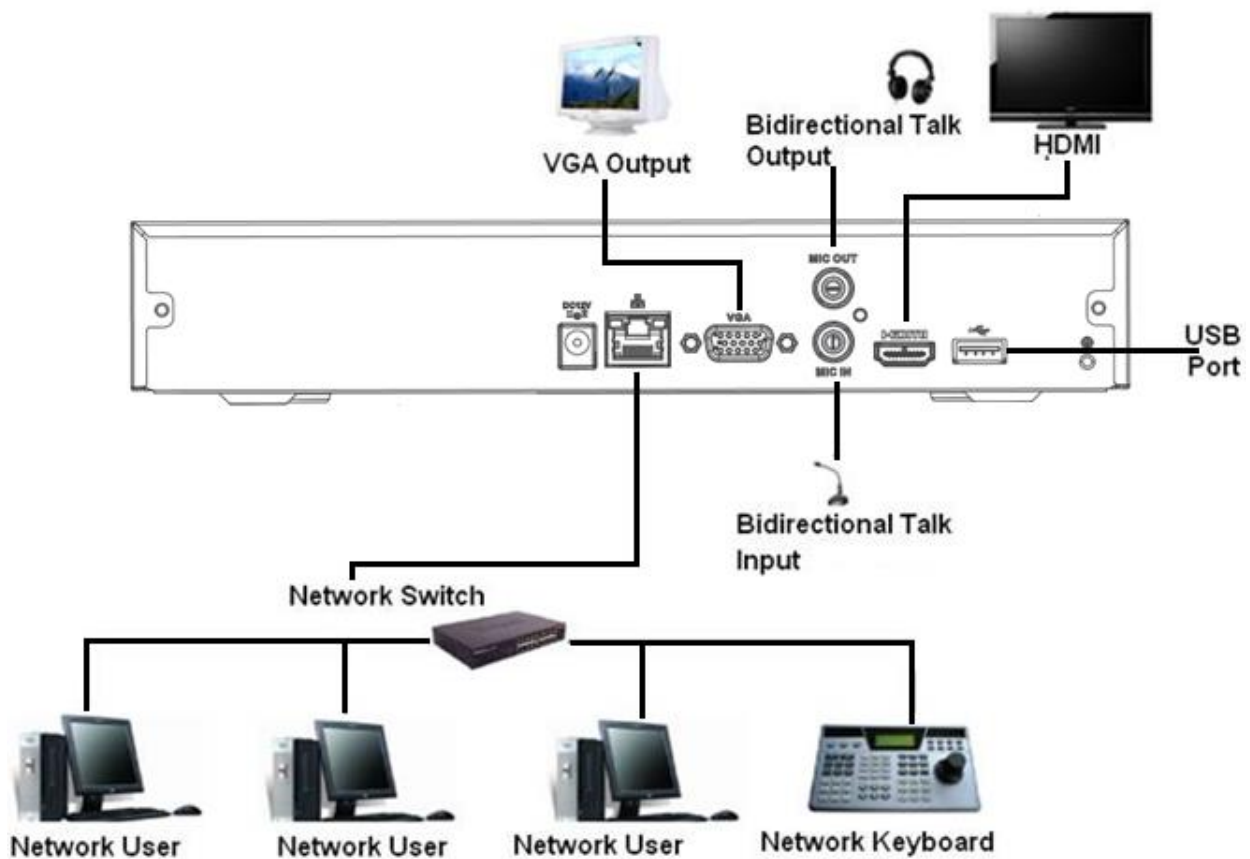
Figure 2-14

Please refer to the following sheet for detailed information.

No.	Name	No.	Name
1	Power on-off button	2	Power socket.
3	1000M fiber port	4	Network port
5	HDMI port	6	RS-232 port
7	Video VGA output	8	Audio output
9	Audio input	10	USB 3.0 port
11	USB 3.0 port	12	eSATA port
13	SAS extension port	14	Alarm input/output/RS-485 port
15	HDMI port  High-definition decoding card is not installed in standard hardware configuration, you can purchase as needed.	—	—

2.3 Connection Sample

Please refer to Figure 2-15 for connection sample. 1U series is used for reference.



3 Local Configurations

NOTE

- The interfaces in the Guide are used for introducing the operations and only for reference. The actual product shall govern.
- For details about operations of the NVR , see *User's Manual*.
- To enter the Main Menu, right-click on the live view screen to display the shortcut menu, and then click **Main Menu** and login the system.

3.1 Initializing NVR (WITHOUT HDD)

When booting up for the first time, the **Device Initialization** interface is displayed, see 0. You need to configure the password information for the **admin** (by default). If needed, you can also configure the unlock pattern and password protection mode (see Table 3-1).

NOTE

- The new password can be set from 8 characters through 32 characters and contains at least two types from number, letter and special characters (excluding "&" , ", ":", ":" and "&"). Please enter a strong password according to the password strength bar indication.
- To secure your NVR, it is strongly recommended to properly keep the password for admin and modify it periodically.

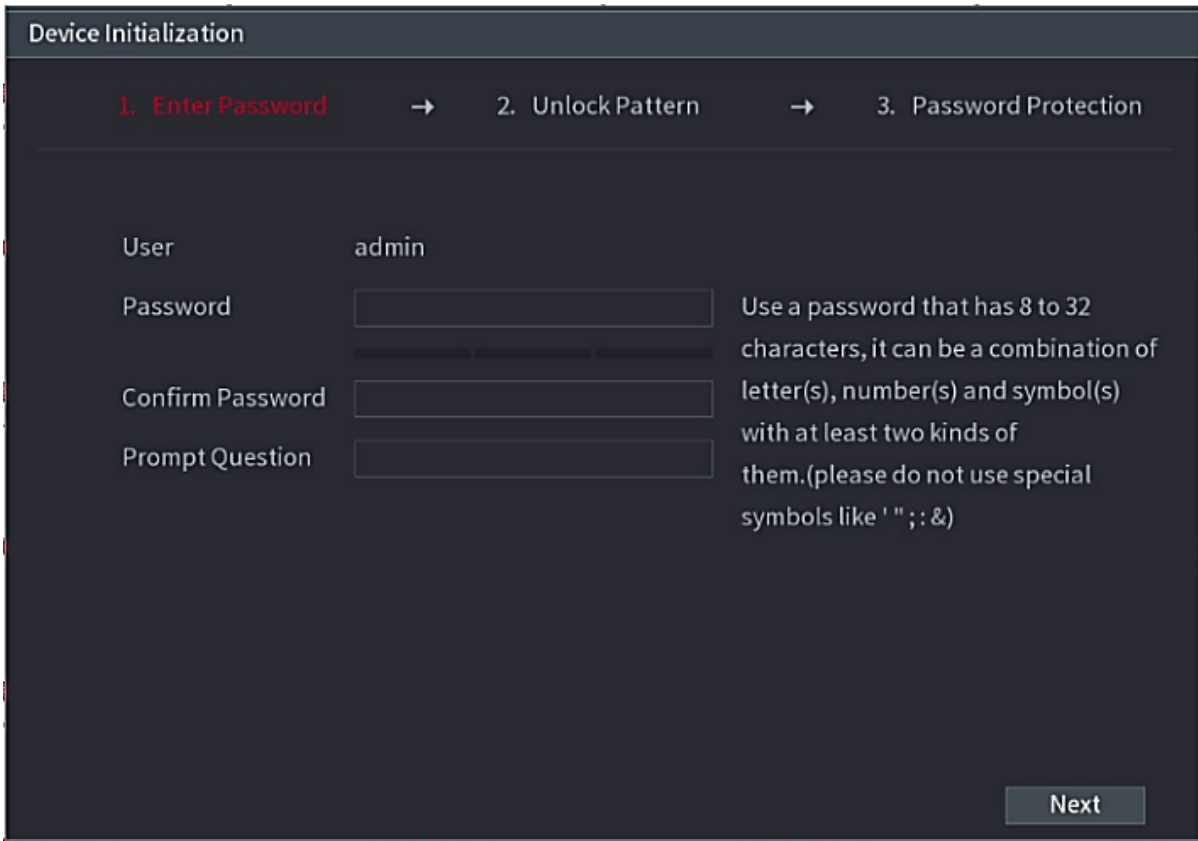


Figure 3-1


Password Protection Mode	Description
Email Address	In the Email Address box, enter an email address for password reset. In case you forgot password, enter the security code that you will get from this reserved email address to reset the password of admin.
Security Questions	Configure the security questions and answers. In case you forgot password, enter the answers to the questions can make you reset the password.
 NOTE If you want to configure the email or security questions function later or you want to change the configurations, select Main Menu → Account → User .	

Table 3-1

3.2 Configuring Recording Storage Schedule

Select **Main Menu → Storage → Schedule → Record**, the **Record** interface is displayed, see 0.

The default setting is 24 hours recording for all channels. You can modify the settings if needed.

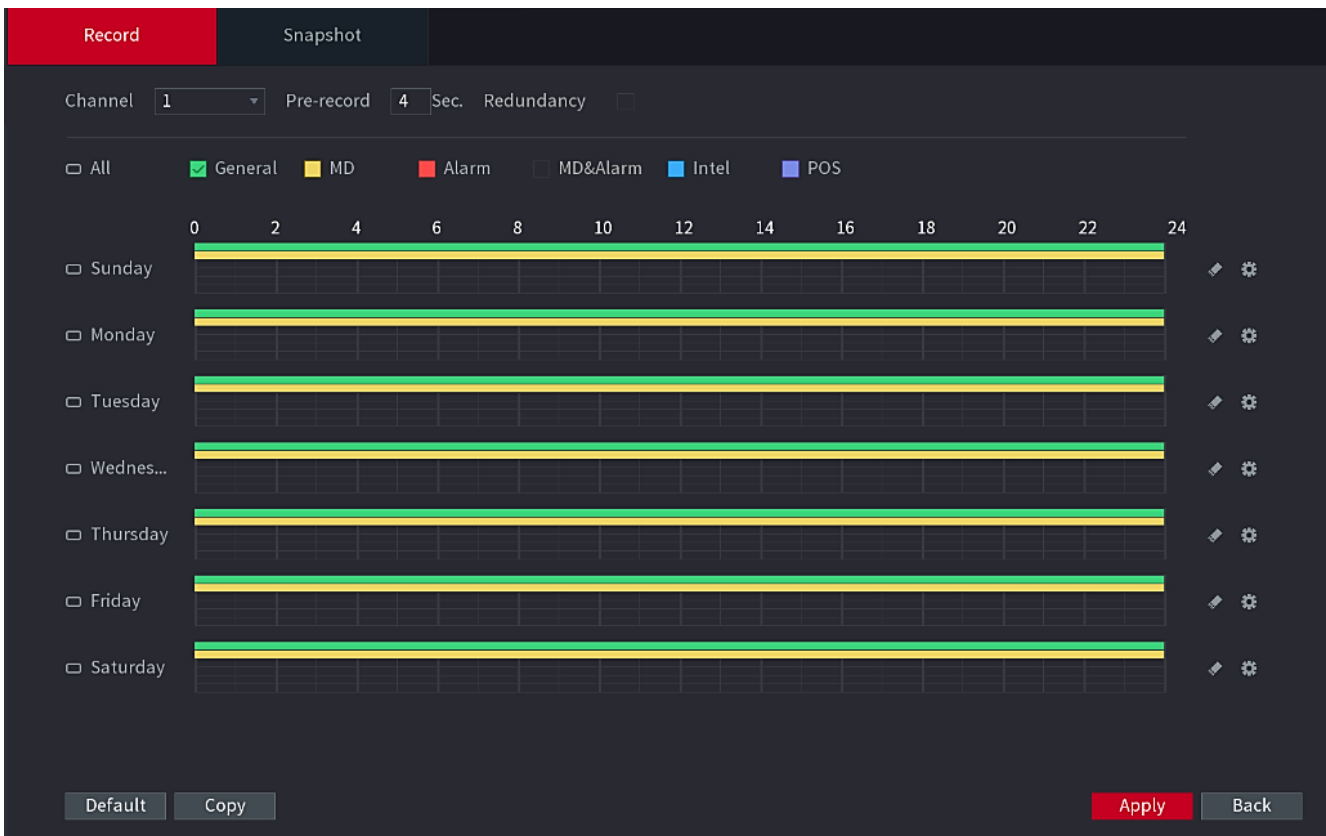


Figure 3-2

3.3 Playing Recorded Video



Select **Main Menu** → **Video**, the video search interface is displayed. See 0. You can view, search, and play back the recorded video.

Figure 3-3

3.4 Configuring InstaOn Settings

You can add the NVR into your cell phone client or the platform to manage. For details, please refer to the InstaOn Cloud operation manual.

 NOTE

Make sure the NVR is connected into the Internet, and if yes, in the **Status** box of the InstaOn Cloud interface, it shows **Online**.

3.4.1 Entering InstaOn Interface

Step 1 Select **Main Menu** → **Network** → **InstaOn**, the **InstaOn Cloud** interface is displayed. See Figure 3-1.

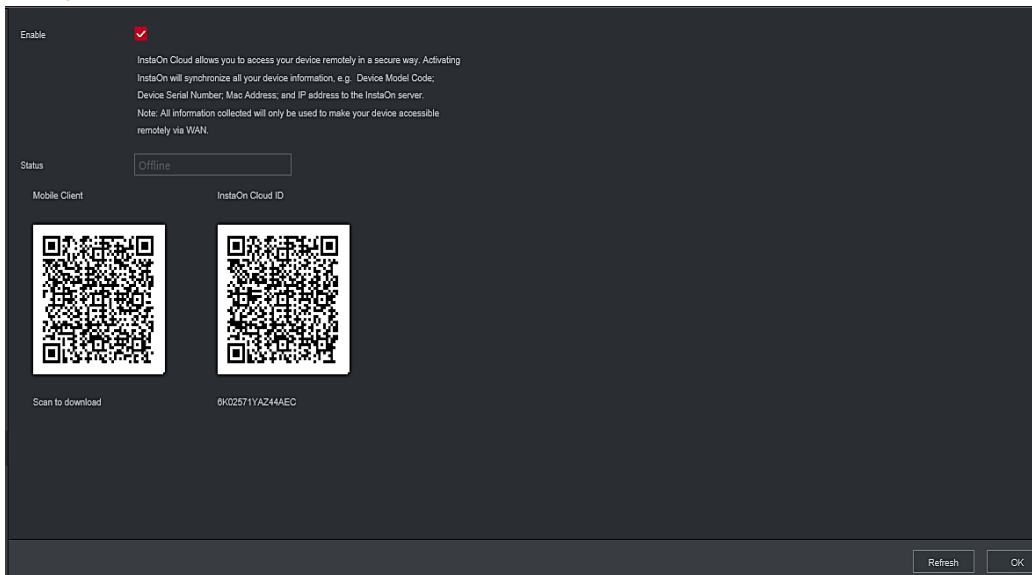



Figure 3-4

To use InstaOn function, take adding wired device into Cell Phone Client as an example.

Step 1 Use your cell phone to scan the QR code under **Cell Phone Client** to download the application.

Step 2 Open the application and tap , the menu is displayed.

Step 3 Tap **Device Manager** →  → **Add Device**, the **Add Device** interface is displayed.

See Figure 3-6.

Step 4 Tap **InstaOn**, enter a name for the NVR (WITHOUT HDD), the username and password, scan the QR code under **Device SN**, and then tap **Start Live Preview**. The NVR is added and displayed on the live view interface of the cell phone.

See Figure 3-7.

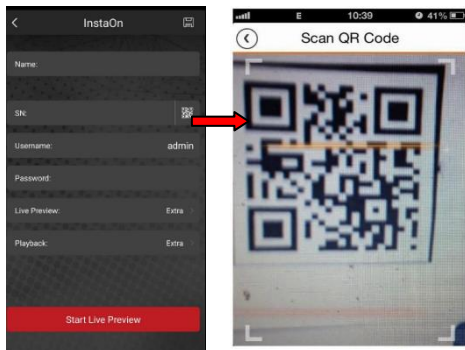


Figure 3-6

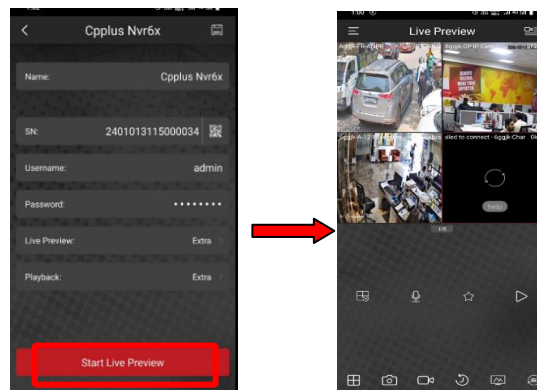



Figure 3-7

3.5 Logout

On the top right of the Main Menu interface or any interface after you have entered the Main Menu, click .

- Select **Logout**, you will log out the NVR.
- Select **Reboot**, the NVR will be rebooted.
- Select **Shutdown**, the NVR will be turned off.

You can also press the power button on the NVR to turn it off.

4 Web Login

Open the browser, enter the IP address of the NVR (WITHOUT HDD) (by default: 192.168.1.245), and then press **Enter** key. The **Login in** dialog box is displayed. See Figure 4-1. Properly enter the user name and password to login the web. For details, see *User's Manual*.

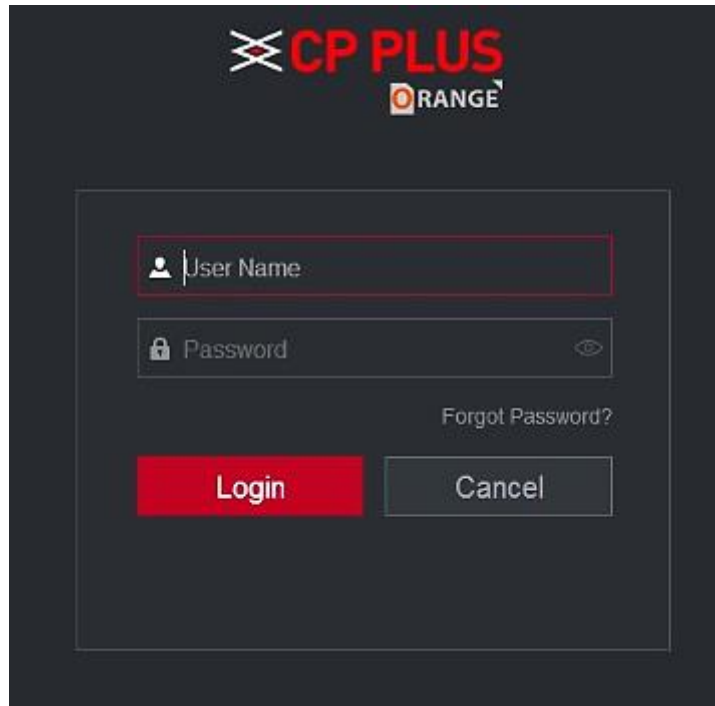


Figure 4-1

NOTE

- Device initialization is required at the first login.
- The default administrator account is **admin**. The password is the one that was configured during initializing settings. To secure your account, it is recommended to keep the password properly and change it periodically.
- You can select the protocol type as **TCP**, **UDP**, depending on the networking structure. The default is **TCP**.
- If you forgot the password, click **Forgot Password** to reset the password.
- When entering the **Live** interface for the first time, follow the onscreen instructions "Please install plugins first!" to install the plugins.

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