

# Contents

Preface .....	1
Part I Local Operations .....	1
1 Before You Begin .....	1
Login .....	1
Local Operations .....	2
2 Initial Configuration .....	3
Preparation .....	3
Startup Wizard .....	3
3 Preview .....	7
Status Icons in the Preview Window .....	7
Preview Pane Toolbar .....	7
Shortcut Menu in Preview Window .....	8
Example of Auto-Switch Operation .....	8
Digital Zoom .....	9
Preview Configuration .....	11
4 Camera Management .....	11
Camera Management .....	11
Basic Settings .....	17
Image Settings .....	18
Encoding Settings .....	19
5 PTZ Control .....	20
Controlling a PTZ Camera Using the PTZ Toolbar .....	20
Configuring and Calling a Preset .....	22
Configuring and Calling a Patrol Route .....	22
6 Recording .....	24
Manual Recording .....	24
Scheduled Recording .....	25
Alarm-Triggered Recording .....	27
Disk Management .....	27
7 Playback .....	28
Instant Playback .....	28
Playback .....	29
Playback Toolbar .....	31
8 Backup .....	32
Recording Backup .....	32
Recording Clips Backup .....	34
9 Alarm .....	36
Alarm Input .....	36
Alarm Output .....	38
Motion Detection .....	39
Tampering Detection .....	41
Exception .....	43

Alarm-Triggered Actions .....	44
<b>10 Network Configuration .....</b>	<b>45</b>
Basic Configuration .....	45
PPPoE .....	46
DDNS .....	46
UPnP .....	47
Email .....	48
<b>11 System Configuration .....</b>	<b>48</b>
Basic Configuration .....	48
Time Configuration .....	49
DST Configuration .....	50
Preview Configuration .....	50
View Configuration .....	51
Serial Port Configuration .....	53
User Configuration .....	53
<b>12 System Maintenance .....</b>	<b>55</b>
System Information .....	55
Log Query .....	55
Import/Export .....	56
System Restoration .....	59
Auto-Maintain .....	59
System Upgrade .....	59
<b>13 Shutdown .....</b>	<b>61</b>
<b>Part II Web-Based Operations .....</b>	<b>62</b>
<b>1 Before You Begin .....</b>	<b>62</b>
<b>2 Login .....</b>	<b>63</b>
<b>3 Live View .....</b>	<b>63</b>
PTZ Control .....	64
Image Settings .....	66
<b>4 Playback .....</b>	<b>66</b>
Recording Playback .....	67
Recording Download .....	68
<b>5 Configuration .....</b>	<b>69</b>
<b>Part III DDNS .....</b>	<b>70</b>
<b>1 Overview .....</b>	<b>70</b>
Networking .....	70
<b>2 Access Through the App .....</b>	<b>71</b>
How to get the App .....	71
Configuration .....	72
<b>3 Access Through the Browser .....</b>	<b>73</b>
Registration .....	73
Log In .....	73
Configuration .....	75

# Preface

---

This manual is a guide to operating an NVR device (referred to as device in this manual) locally or through the Web interface. The figures in this manual are only for illustration purpose. The display may vary with device model. Please see your device for the actual display. In this manual, the terms IP camera and IPC refer to the same thing – network camera, which requires a connection to the network.

The content of this manual is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment. We assume no responsibility or liability for any errors or inaccuracies that may appear in the book.

## Part I Local Operations

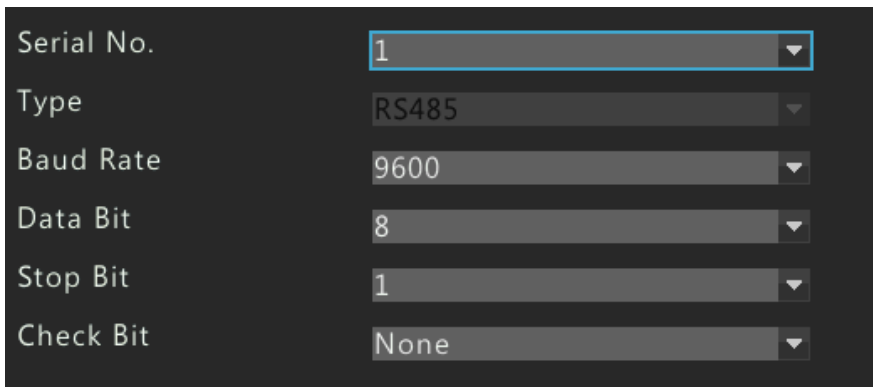
### 1 Before You Begin

---

Make sure you have permission for the operations you want to perform. For more details, see [Serial Port Configuration](#)

Serial port settings in the device should be consistent with that of the connected serial device. Serial port configuration is required for PTZ control.

1. Click **Menu>System>Serial**.
2. Configure the parameters for the serial port.



Serial No.	1
Type	RS485
Baud Rate	9600
Data Bit	8
Stop Bit	1
Check Bit	None

3. After you have completed the configuration, click **OK**.
- [User Configuration](#).

- The figures in this manual are for illustration purpose only because difference exists between different models. Please see the actual display on your device.
- The parameters that are grayed out cannot be modified. For the actual parameters and parameter values, see the display on your device.

## Login



### NOTE!

- Use the default username “admin” and password “123456” when you log in to the device the first time.
- The parameters that are grayed out cannot be modified. For the actual parameters and parameter values, see the display on your device.

## Permissions are required for operations in the system. For configuration, see [Serial Port Configuration](#)

Serial port settings in the device should be consistent with that of the connected serial device. Serial port configuration is required for PTZ control.

1. Click **Menu>System>Serial**.
2. Configure the parameters for the serial port.

Serial No.	1
Type	RS485
Baud Rate	9600
Data Bit	8
Stop Bit	1
Check Bit	None

3. After you have completed the configuration, click **OK**.
  - [User Configuration](#).

4. Right-click anywhere in the preview window and then choose **Menu**. The login dialog box is displayed.
5. Enter the correct username and password, and then click **Login**.  
To log in without entering a password next time, click **Menu>System>Basic**, and then clear the check box for **Enable Password**.

## Local Operations

You can refer to [Initial Configuration](#) and complete a quick configuration in the local GUI.



## NOTE!

Unless otherwise specified, all operations described in this manual are performed by a right-handed user. For descriptions about how to operate the device using a mouse, see Mouse Operations.

## Mouse Operations

This manual describes mouse operations for a right-handed user.

**Table 1-1** Mouse Operations

Name	Action	Description
Left button	Click	Select or confirm an item. Select to edit digits, symbols, upper-case or lower-case letters in a field.
	Double-click	Enter or exit full screen mode in preview state.
	Drag	Draw or move a rectangle on the screen, for example, when setting a privacy mask area.
Right button	Click	Show the shortcut menu. Exit digital zoom. Exit the current window when <b>Cancel</b> or <b>Exit</b> is displayed.
Wheel	Rotate forward/backward	Scroll up/down in a drop-down list, on a tab, or in a window.

## Front Panel Buttons

The front panel buttons may vary with device model. Please see the buttons on your device.

**Table 1-2** Front Panel Lights

Name	Icon	Description
Power indicator light		Power is supplied if lighted
Net indicator light		Network is connected if lighted.
HDD indicator light		HDD is on working state if lighted.

# 2 Initial Configuration

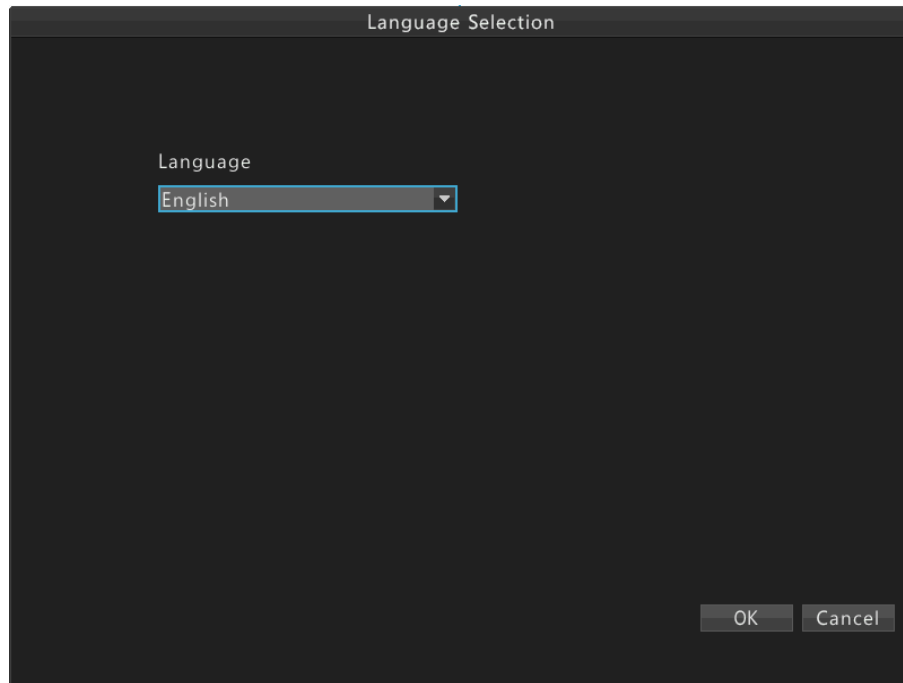
## Preparation

- Make sure that at least one monitor is correctly connected to the VGA/HDMI interface on the rear panel of the device.
- Make sure that the hard disk(s) are correctly installed. For the steps to install a hard disk, refer to the quick guide.

## Startup Wizard

The startup wizard can guide you to complete the most basic configuration for the device to operate correctly.

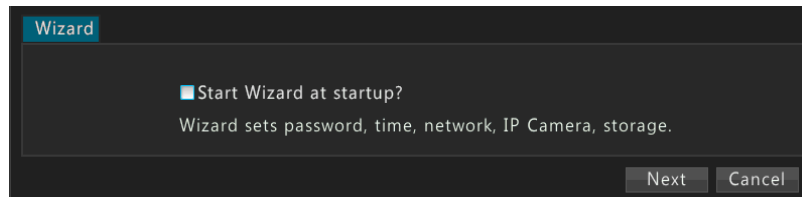
1. Choose the default language of your device, and then click **OK**.



### NOTE!

You may also change the language of device under **Menu>System>Basic**.

2. Choose whether to show startup wizard at the next startup, and then click **Next**.



### NOTE!

You may also enable Startup Wizard under **Menu>System>Basic**.

3. Choose whether to enable the auto-add function, and then click **Next**.

**IP Camera Auto-Add**

☒ Enable IP Camera auto-add function.

Note

1. Enable this function if this is the only NVR in the network.
2. Disable this function if this is not the only NVR in network.

Previous Next Cancel



## NOTE!

- The device with PoE ports or switching ports does not support the auto-add function.
- You may also enable the auto-add function under **Menu>Camera>Camera**.

4. Enter the admin password 123456 and then click **Next**.

**Change Password**

Admin Password  123

Change Password

New Password

Confirm

Previous Next Exit

5. Set the correct time zone and system time, and then click **Next**.

**Wizard**

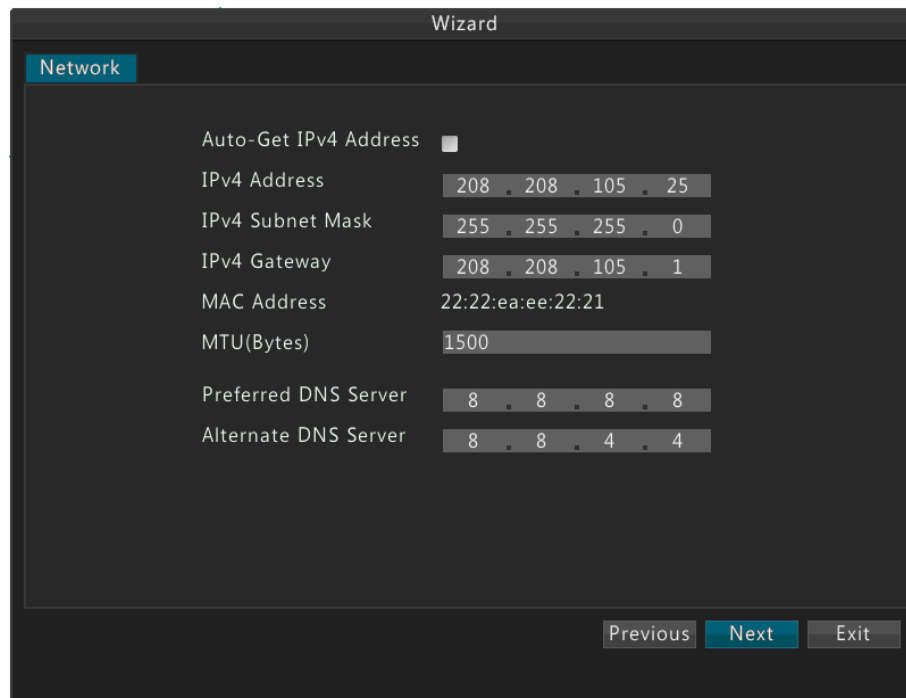
**Time**

Time Zone (GMT+00:00) Dublin, Edinbu ▾

System Time 2014 - 11 - 04 07:19:31 ▾

Previous Next Exit

6. Set the correct IP address, subnet mask and gateway. Keep the default settings for other network parameters unless modification is necessary. And then click **Next**.



The screenshot shows a 'Wizard' window titled 'Network'. It contains the following fields and values:

Field	Value
Auto-Get IPv4 Address	<input type="checkbox"/>
IPv4 Address	208 . 208 . 105 . 25
IPv4 Subnet Mask	255 . 255 . 255 . 0
IPv4 Gateway	208 . 208 . 105 . 1
MAC Address	22:22:ea:ee:22:21
MTU(Bytes)	1500
Preferred DNS Server	8 . 8 . 8 . 8
Alternate DNS Server	8 . 8 . 4 . 4

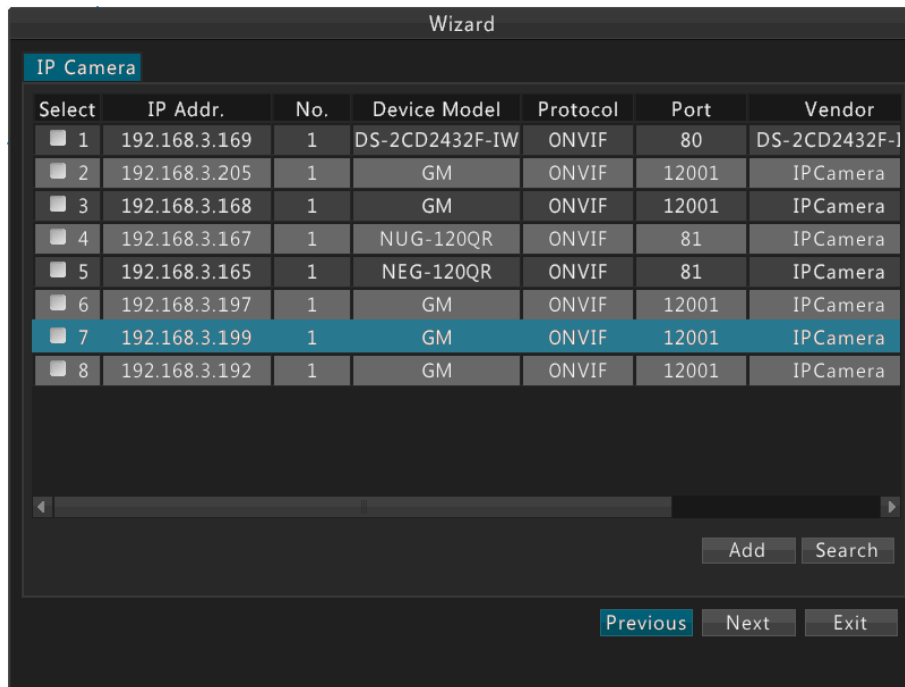
At the bottom right, there are three buttons: 'Previous', 'Next' (highlighted in blue), and 'Exit'.



#### NOTE!

- For a device with more than one Network Interface Card (NIC), you can select the desired NIC and a default route.
  - For a device with a PoE port or switching ports, you can configure an internal IPv4 address.
  - The **IP Camera** window is not displayed if you have enabled the auto-add function in step 2.
7. Click **Search**, select the camera you want to add, and then click **Add**. After the camera is added successfully, click **Next**.

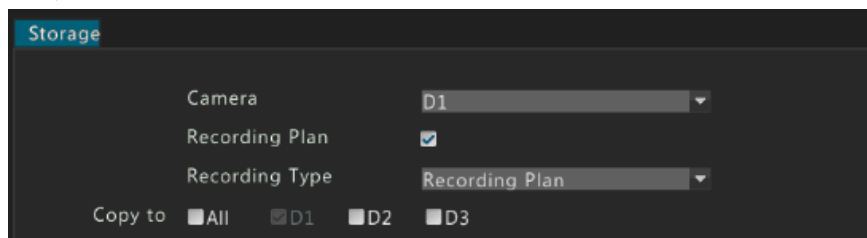




## NOTE!

Normally, all the IPCs that are found (including IPCs connected through ONVIF) can be added to the device, and the status is displayed as **Connected**. If the status is **Disconnected**, check the network connection, and check whether the username and password for the IPC are correct.

- By default, a 24-hour recording plan is enabled for all the connected cameras, but you can select a camera and then change the recording type as required. After you have completed the configuration, click **OK**.





# 3 Preview

## Status Icons in the Preview Window

The following icons indicate recording status and alarm status in the preview window.

**Table 3-1** Preview Icons

Icon	Name	Description
------	------	-------------

Icon	Name	Description
	Alarm	This icon appears when a motion detection alarm or a tampering alarm is reported.
	Recording	This icon appears when manual recording is in progress.









## Preview Pane Toolbar

A preview pane toolbar appears when you click a pane in preview status. You can use a preview pane toolbar to operate the corresponding pane.

**Figure 3-1** Preview Pane Toolbar



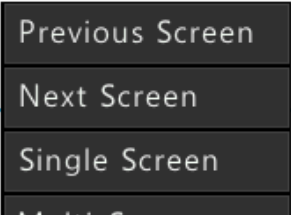
**Table 3-2** Pane Toolbar Buttons

Button	Button Name	Description
	PTZ Control	Click this button to display the PTZ control panel for a PTZ camera in preview status.
	Manual Recording	Click button  to start recording live video in the current pane toolbar, or click  to stop manual recording
	Instant Playback	Click this button to play the video recorded within five minutes.
	Digital Zoom	Click this button to increase the size of a certain part of an image in the current pane.
	Image Config	Click this button to configure the image parameters in the current pane.
	Exit	Click this button to exit the toolbar in the current pane.

## Shortcut Menu in Preview Window

The following menu appears when you right-click anywhere in the preview window. The table below describes the menu functions.

**Table 3-3** Preview Operations

Menu Name	Description	Screenshot
Previous Screen Next Screen	Switch to the previous or next screen.	
Single Screen	Switch the display by selecting the desired camera from the menu.	
Multi-Screen	Change to the desired screen layout by selecting	

	from the menu.	
Corridor	Used to view videos indifferent screen layouts: 3, 5 and 7 screens.	
Start Auto-Switch Stop Auto-Switch	Start/stop auto-switching one or multiple panes in preview status.	
Playback	Start playback.	
Menu	Display the main menu.	

## Example of Auto-Switch Operation

Auto-switch requires you to configure the screen layout, panes, the corresponding cameras, and the auto-switch interval.

This example describes how to configure auto-switch for five cameras based on a 4-pane screen layout.

1. Right-click anywhere in the preview window, and then click **Multi-Screen>4 Screens**. Four screens are displayed.

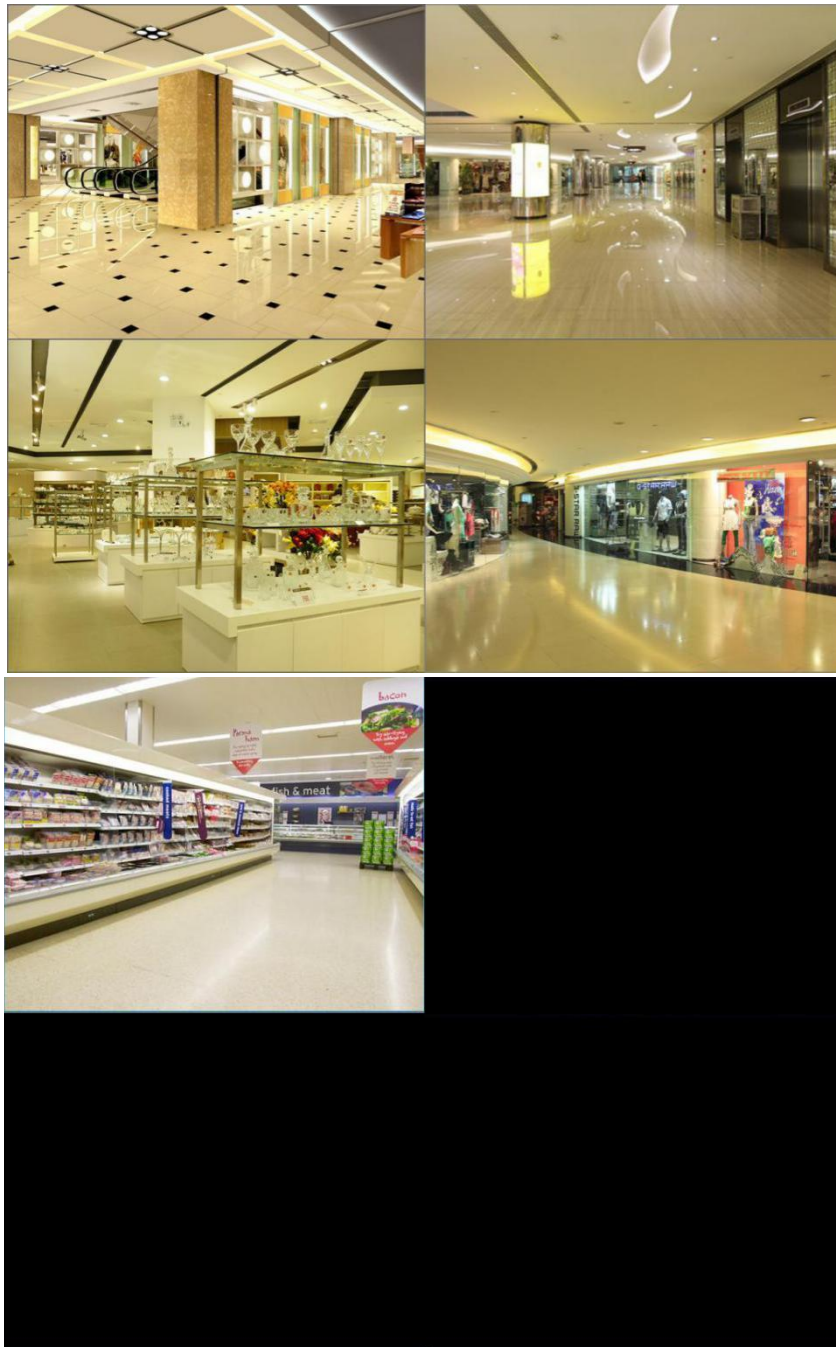
Previous Screen	
Next Screen	
Single Screen	
Multi-Screen	4 Screens
Corridor	6 Screens
Start Auto-Switch	8 Screens
Playback	9 Screens
Menu	16 Screens
	25 Screens
	36 Screens



### NOTE!

Depending on the model of your device, the number of screens that can be displayed may vary.

2. Right-click anywhere in the preview window and then click **Start Auto-Switch**. Auto-switch starts to display four panes on the first screen and then the 9\*pane on the second screen at the set interval.



## NOTE!

The default auto-switch interval is eight seconds, which can be modified under **Menu>System>Preview**.

## Digital Zoom

Digital zoom allows you to increase the size of a certain part of an image in a pane of the preview window to get more details of the selected part.

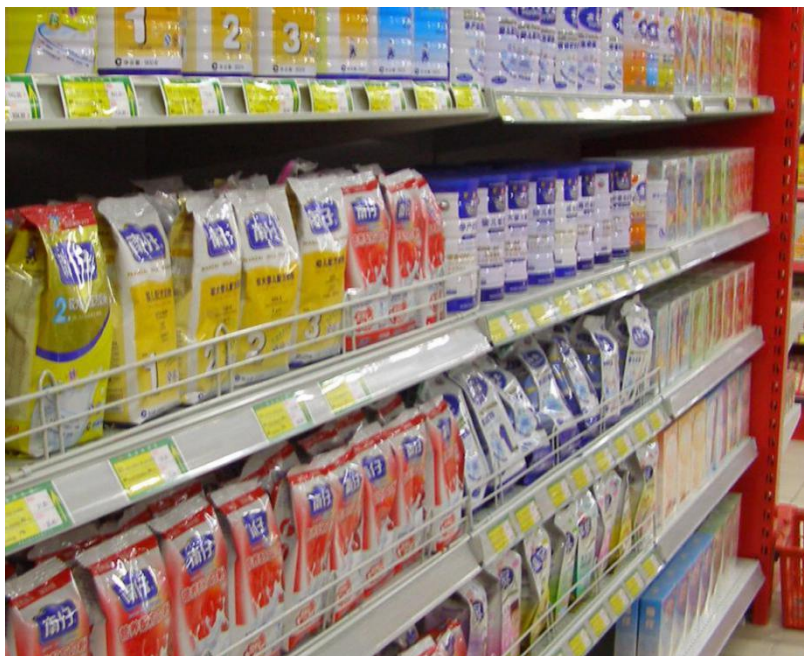
1. Click the desired pane in the preview window and then click the **Digital Zoom** button.



2. Use the mouse to set an area.



3. Release the mouse to increase the size.



#### **NOTE!**

You can restore the original size by right-clicking the area. To apply this function to other areas, repeat steps 2 and 3.

4. To exit digital zoom, right-click anywhere in the preview window in normal size.

## Preview Configuration

Normally, you can preview live video after you have completed the startup wizard. To modify preview parameters, follow these steps.

1. Click **Menu>System>Preview**.
2. Configure preview parameters.

Video Output	HDMI/VGA
Resolution	1280*1024/60Hz
Default Layout	4 screens
Auto-Switch Time(sec)	8
Switch	<input type="checkbox"/>
Transparency	Opaque
Operation Timeout(min)	5



### NOTE!

Depending on the model of your device, the supported output interfaces and the number of screens that can be displayed may vary. See your device for the actual display.

3. After you have completed the configuration, click **OK**.

## 4 Camera Management

### Camera Management

Before you start IP camera management, make sure that the IPCs are connected to the device through network.

#### Adding IPCs Using the Auto-Add Function

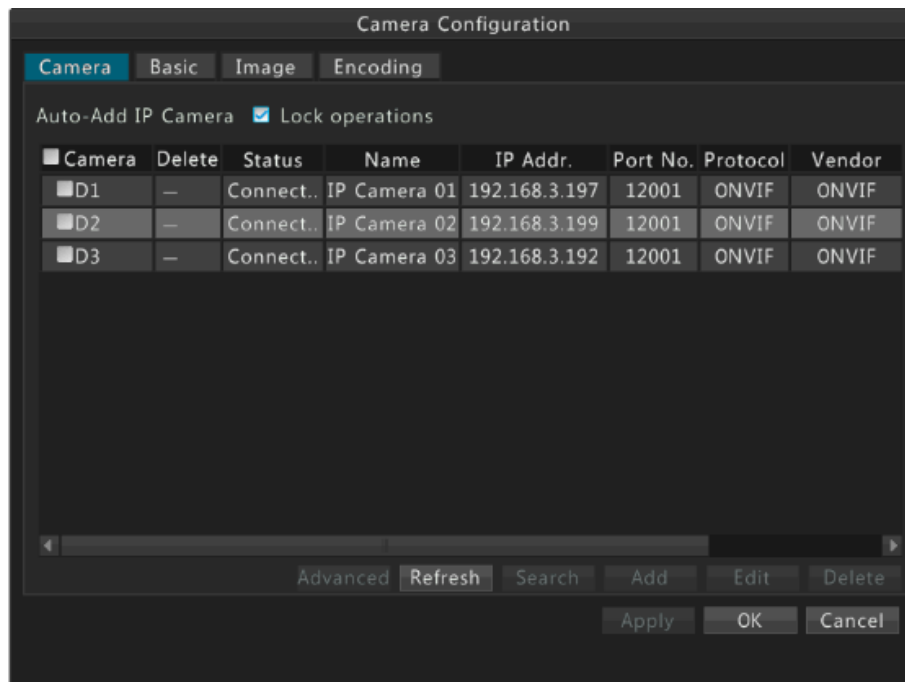


### NOTE!

The device with PoE ports or switching ports does not support the auto-add function.



1. Click **Menu> Camera> Camera**.
2. Select **Auto-Add IP Camera**. IPCs connected to the device will be added automatically.



#### NOTE!

The auto-add function is enabled by default for devices with one hard disk slot. For devices with more than one disk slot, this function is disabled by default.

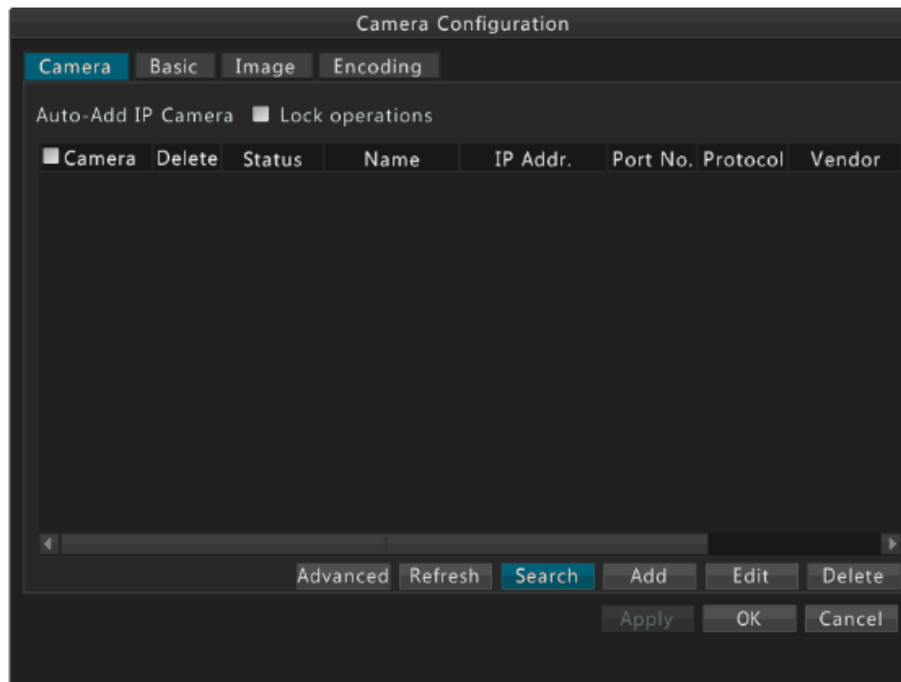
## Searching and Adding IPCs



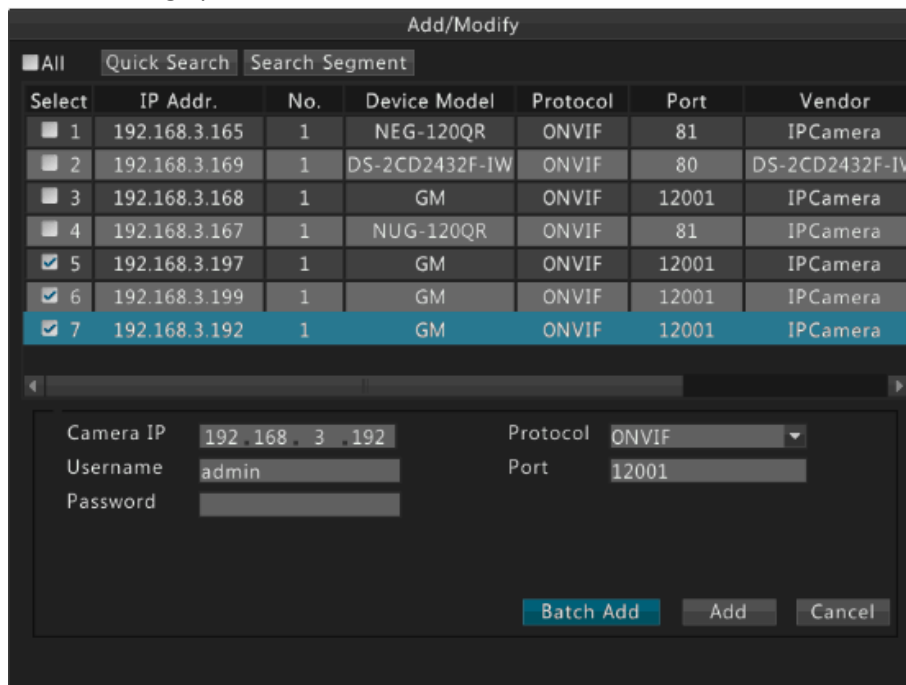
#### NOTE!

When adding an IPC using ONVIF, you need to click **Edit** and modify the username and password of the IPC if the username and password are different from the default username and password.

1. Click **Menu>Camera>Camera**.



2. Click **Search** to perform a quick search.
  - To make a quick search again, click **Quick Search**. The device searches for IPCs on the network automatically.
  - To search a specified network segment, click **Search Segment**.
3. Perform the following operations as needed.



- To add one IPC, select the IPC and then click **Add**.



- To add multiple IPCs at a time, select the IPCs and then click **Batch Add**. You may also select **Select All** as required to add the IPCs if the number of IPCs does not exceed the maximum number allowed.
- Check the connection status on the **Camera** tab.

<input type="checkbox"/> Camera	Delete	Status	Name	IP Addr.	Port No.	Protocol	Vendor
<input type="checkbox"/> D1	—	Connect..	IP Camera 01	192.168.3.197	12001	ONVIF	ONVIF



## NOTE!

Normally, all the found IPCs (including IPCs connected through ONVIF) can be added to the device, and the status is displayed as **Connected**. If the status is **Disconnected**, check the network connection, and check whether the username and password for the IPC are correct.

## Adding IPCs Manually

- Click **Menu>Camera>Camera**. Click **Add**.

Camera Configuration

Camera Basic Image Encoding

Auto-Add IP Camera ☐ Lock operations

<input type="checkbox"/> Camera	Delete	Status	Name	IP Addr.	Port No.	Protocol	Vendor
---------------------------------	--------	--------	------	----------	----------	----------	--------

Advanced Refresh Search Add Edit Delete

Apply OK Cancel

- Configure the **parameters** and then click **OK**.

Camera IP 192 . 168 . 3 . 192

Protocol ONVIF

Port 12001

Username admin

Password \*\*\*\*\* 123

3. Check the **connection** status on the **Camera** tab.

Camera	Delete	Status	Name	IP Addr.	Port No.	Protocol	Vendor
D1	—	Connect..	IP Camera 01	192.168.3.197	12001	ONVIF	ONVIF

## Adding IPCs Using the Plug-and-Play Function



### NOTE!

- The Plug-and-Play function is available only for the device with PoE ports or switching ports.
- The **Camera** corresponding to a PoE port or a switching port cannot be deleted.

1. Click **Menu> Camera> Camera**.

Camera	Delete	Status	Name	IP Addr.	Port No.	Protocol	Vendor
D1	—	Connect..	IP Camera 01	192.168.8.105	12001	ONVIF	ONVIF
D2	—	Disconn...	IP Camera 02	193.168.0.3	81	ONVIF	
D3	—	Connect..	IP Camera 03	192.168.8.106	12001	ONVIF	ONVIF
D4	—	Disconn...	IP Camera 04	193.168.0.5	81	ONVIF	

2. **Select** the desired camera and then click **Edit**.

Add Mode: Plug-and-Play

Camera IP: Manual

Protocol: ONVIF

Port: 81

Username: admin

Password: \*\*\*\*\*

Distance Transfer: ☒ Enable

- To add the camera in Plug-and-Play mode, connect the camera to an independent 100M Ethernet NIC or to an independent 100M Ethernet NIC that supports PoE.
  - To add the camera manually, modify the parameters.
3. Check the connection status on the **Camera** tab.



## NOTE!

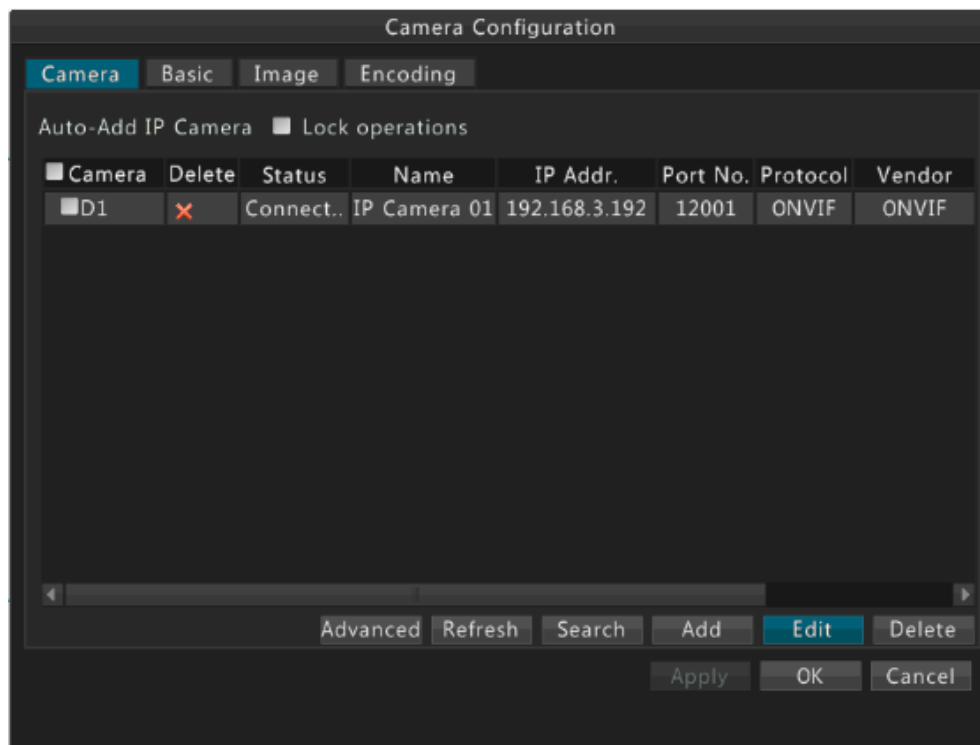
For a device with a PoE port, **Incorrect Power** will be displayed in the **Status** column if the power of an online IPC is lower or higher than the rated power.

## Advanced Settings

1. **Advanced Settings** is not available for the present.

## Editing an IPC

1. Click **Menu> Camera> Camera**.
2. Select the IPC and then click **Edit**.



3. Edit the settings as required.


The 'Add/Modify' dialog box contains the following fields:

Camera IP	192 . 168 . 3 . 192
Protocol	ONVIF
Port	12001
Username	admin
Password	

At the bottom right, there are 'OK' and 'Cancel' buttons.

4. After you have completed the configuration, click **OK**.

## Deleting an IPC

1. Click **Menu> Camera> Camera**.
  2. Select the IPC and then click **Delete**.
- To delete one camera, select the camera, click  and then click **OK**.

The 'System Prompt' dialog box displays the text: 'Delete the selected IP camera(s)?' with 'OK' and 'Cancel' buttons at the bottom.

- To delete multiple cameras at a time, select the cameras, click **Delete**, and then click **OK**.

The 'System Prompt' dialog box displays the text: 'Delete the selected IP camera(s)?' with 'OK' and 'Cancel' buttons at the bottom.



### NOTE!

**Cameras** corresponding to PoE ports or switching ports cannot be deleted.

## Basic Settings

1. Click **Menu> Camera >Basic**.

2. Select the **Camera** and set the **Camera** name.

The screenshot shows a 'Camera Configuration' dialog box with three tabs: 'Camera', 'Basic', 'Image', and 'Encoding'. The 'Basic' tab is selected. It contains the following settings:

Setting	Value
Camera	D1
Name	IP Camera 01
Date Format	yyyy/MM/dd
Time Format	HH:mm:ss
Show Time	<input checked="" type="checkbox"/> Yes
Show Name	<input checked="" type="checkbox"/> Yes
OSD Position	Set
Privacy Mask	<input checked="" type="checkbox"/> Yes
Mask Area	Set

At the bottom right, there are three buttons: 'Apply', 'OK', and 'Cancel'.

3. Set the OSD.

You may set the date and time formats, display time and name on the screen. You may also click **Set** to set the position precisely.

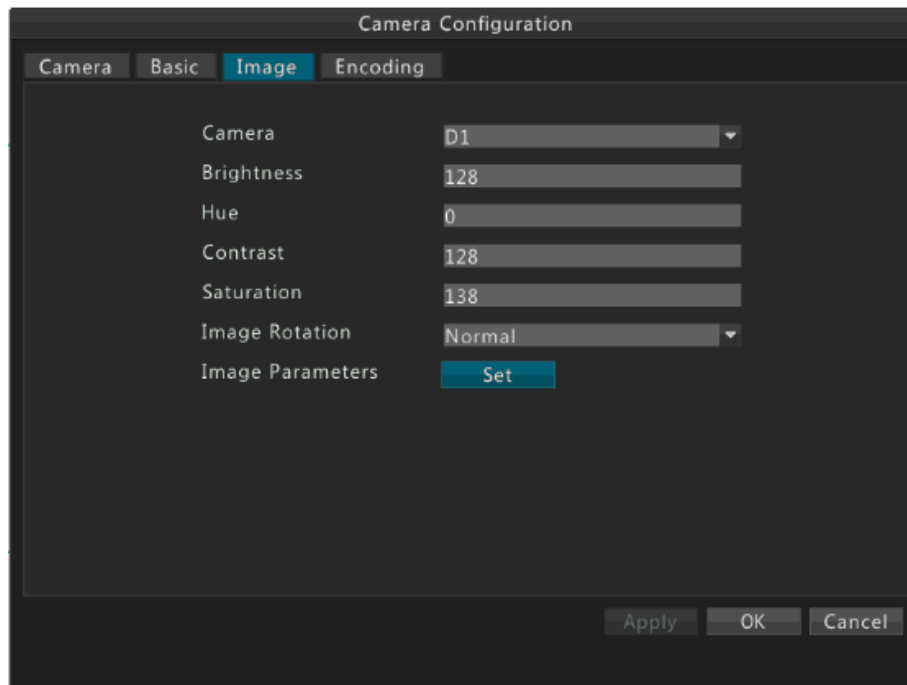
4. Set privacy mask.

**Privacy mask** is reserved function.

5. After you have completed the configuration, click **OK**.

## Image Settings

1. Click **Menu>Camera>Image**.



2. Select the **Camera** and then set brightness, hue, contrast, and saturation. You may also click **Set** and adjust the settings while viewing images in the preview window.
3. After you have completed the configuration, click **OK**.

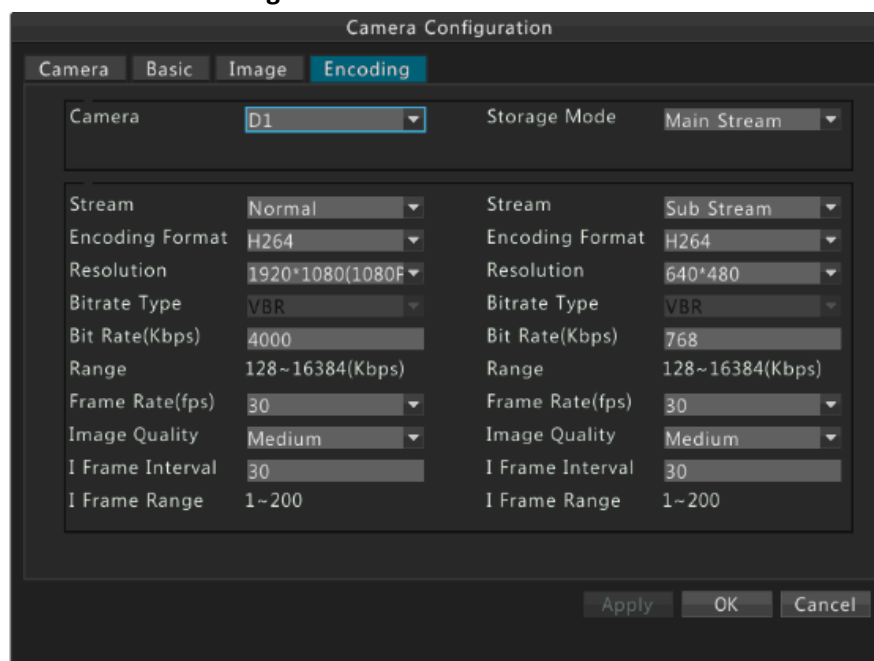


### NOTE!

Changing image settings will change images of both live and recorded videos.

## Encoding Settings

1. Click **Menu > Camera > Encoding**.



2. Select the **Camera** and then set the encoding parameters, including **Resolution, Bit rate and Frame Rate**.



#### NOTE!

Encoding types include Constant Bit Rate (CBR) and Variable Bit Rate (VBR). Image quality can be set only when **Encoding Type** is set to **VBR**.

3. After you have completed the configuration, click **OK**.

## 5 PTZ Control

PTZ control allows you to control the rotation speed, viewing direction, iris, focus and turn on or off the wiper of a PTZ camera from a remote location. In addition, you can set preset positions (presets for short) for a PTZ camera.



#### NOTE!

PTZ control is applicable to the PTZ camera only and depends on the functions and protocols that the PTZ camera supports. For example, some manufacturers use presets for other purposes (such as wiper or menu). Refer to the specifications for details.

### Controlling a PTZ Camera Using the PTZ Toolbar




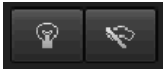
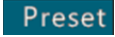

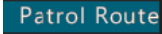
1. Click the desired pane in the preview window and then click the **PTZ Control** button on the toolbar.




2. The PTZ toolbar appears. Control the PTZ camera using the PTZ toolbar as required. For details about how to use the PTZ toolbar, see PTZ Toolbar Buttons.



**Table 5-1** PTZ Toolbar Buttons

Button	Description
	Control the rotation direction of the PTZ camera or stop rotation.
	<ul style="list-style-type: none"> <li>Adjust zoom.</li> <li>Adjust focus.</li> <li>Adjust iris.</li> </ul>
	Control the rotation speed. 1 means the slowest speed, and 9 means the fastest speed.
	Click to enter the PTZ management.
	<ul style="list-style-type: none"> <li>Turn on/off the light</li> <li>Turn on/off the wiper</li> </ul>
	Preset button.
	<ul style="list-style-type: none"> <li>Save a preset, which means setting the current status (including position) of a PTZ camera as a preset.</li> <li>Call a preset, so that the PTZ camera goes to the preset position.</li> </ul> <p><b>Note:</b> Before you select a preset number, check whether a preset has been configured for this preset number. The new preset will replace the current one after you click the save button.</p>
	Patrol route button.



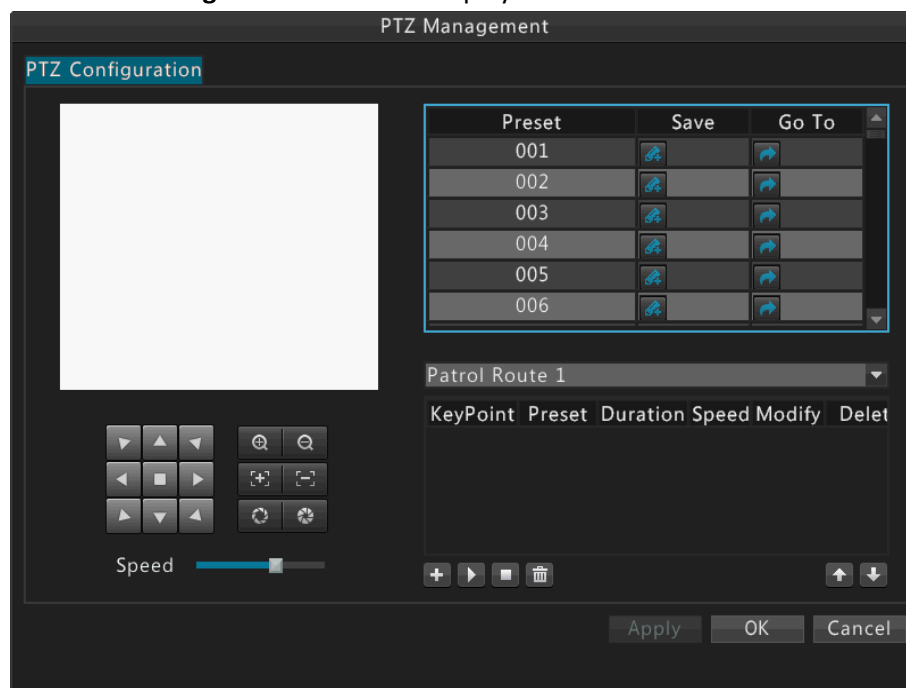
Button	Description
	<ul style="list-style-type: none"> <li>Start a patrol route.</li> <li>Stop a patrol route.</li> </ul>



## Configuring and Calling a Preset

- Click the desired pane in the preview window and then click the **PTZ Control** button on the toolbar.



- Click **Set**. The **PTZ Management** window is displayed.



- Configure presets.
  - Use the direction buttons to rotate the PTZ camera to the desired position, select a preset number that is not in use, and then click  to save the preset.
  - To add more presets, repeat the above operations.
- Select the desired preset number from the drop-down list and then click .

## Configuring and Calling a Patrol Route



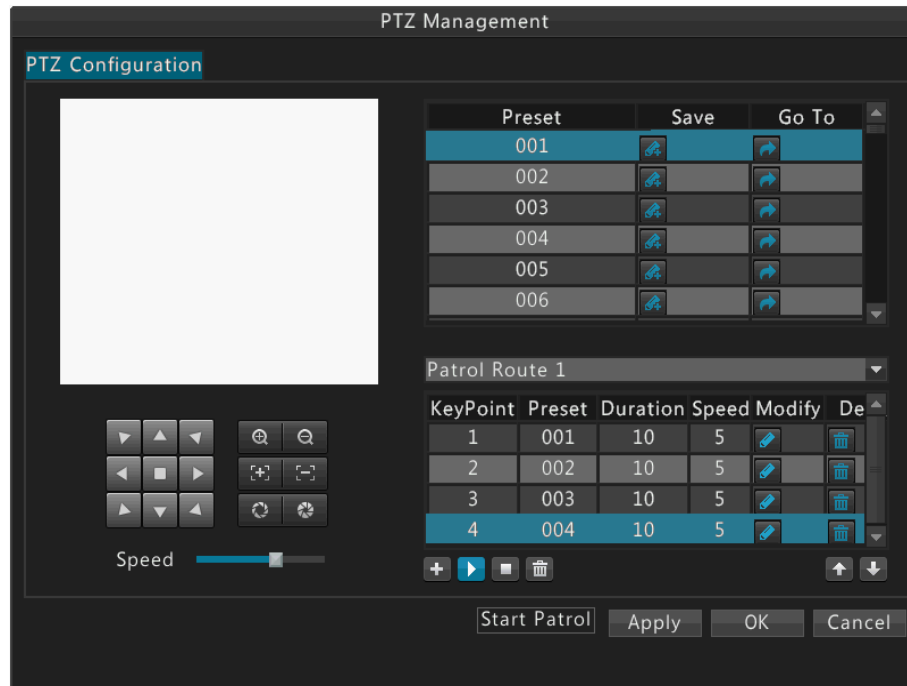
### NOTE!


Each PTZ camera allows up to four patrol routes, and each patrol route allows up to eight presets.

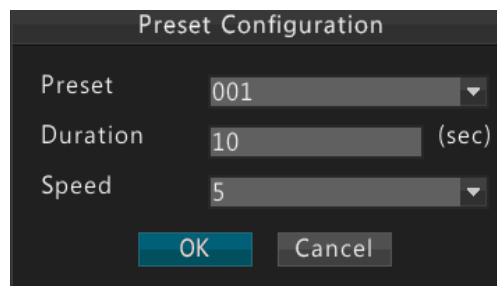
1. Click the desired pane in the preview window and then click the **PTZ Control** button on the toolbar.





2. Click **Set**. The **PTZ Management** window is displayed.








3. Click , set the duration and speed as required, and then click **OK**. Repeat this step to add more key points.



4. Select the desired patrol route from the drop-down list and then click  to start it. To stop the patrol route, click .



## NOTE!

- The default duration is 10 seconds, and the default speed is 5.
- The  and  buttons are used to modify and delete a preset.
- The  and  buttons are used to adjust the sequence of key points.
- The  button is used to delete all the key points.

# 6 Recording


You can record video after you have finished the configuration as described in [Initial Configuration](#).

## Manual Recording




Manual recording refers to manually recording audio/video data from a camera to a hard disk. Manual recording is different from scheduled recording and alarm-triggered recording.

- Option 1

Click the desired pane in the preview window, and then click the **Manual Recording** button to start recording.

Click  icon to start recording, and  turns to .




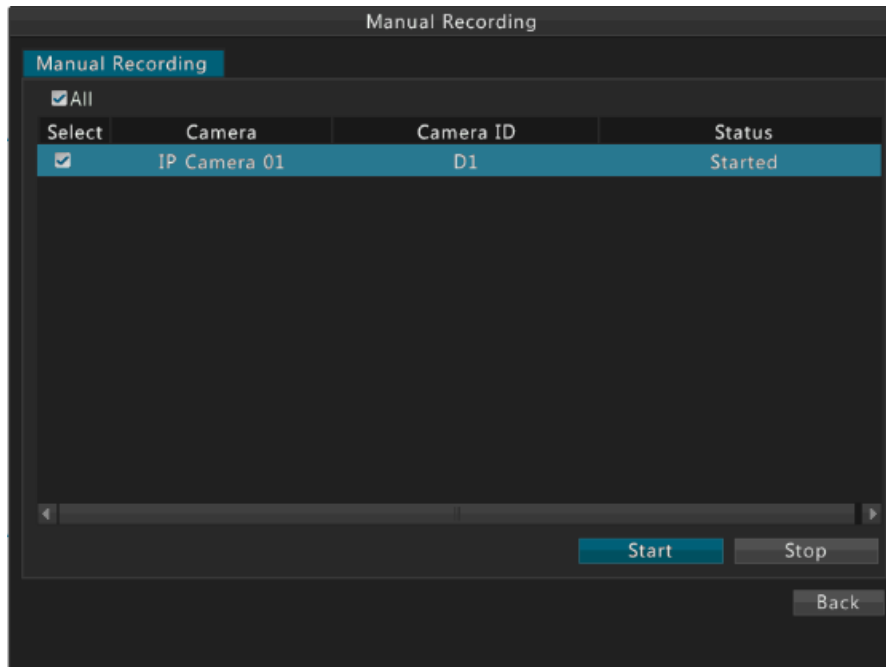
Click  icon to stop recording, and  turns to .



- Option 2

Click **Menu>Recording**, select the camera, and then click **Start** to start recording.

The  icon appears in the upper right corner of the pane when recording is started.



To stop manual recording, click **Menu>Recording**, select the camera, and then click **Stop**.



### NOTE!

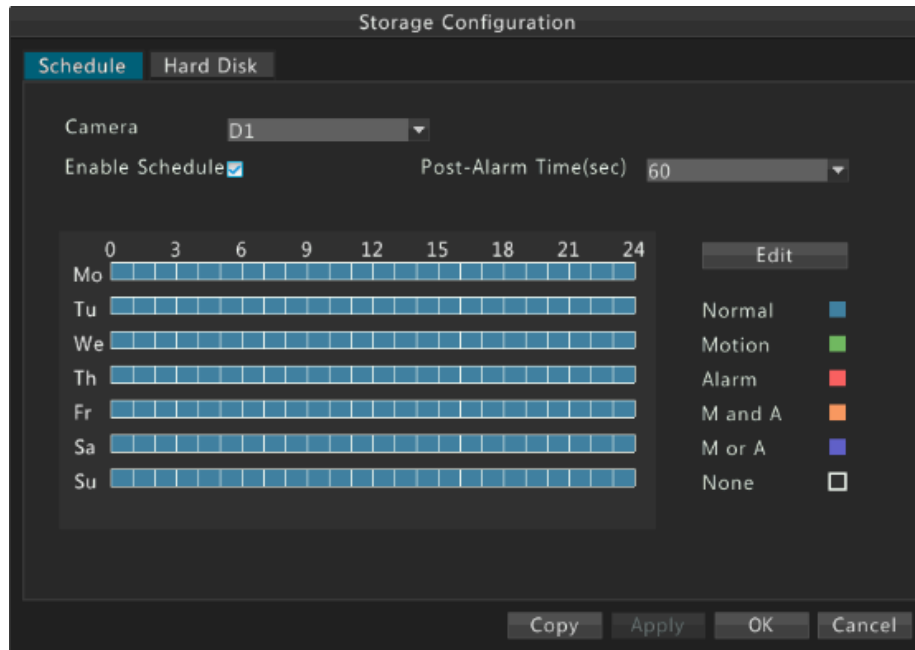
The number of supported channels may vary with device model. For the actual number of channels that your device supports, see the display on your device.

## Scheduled Recording

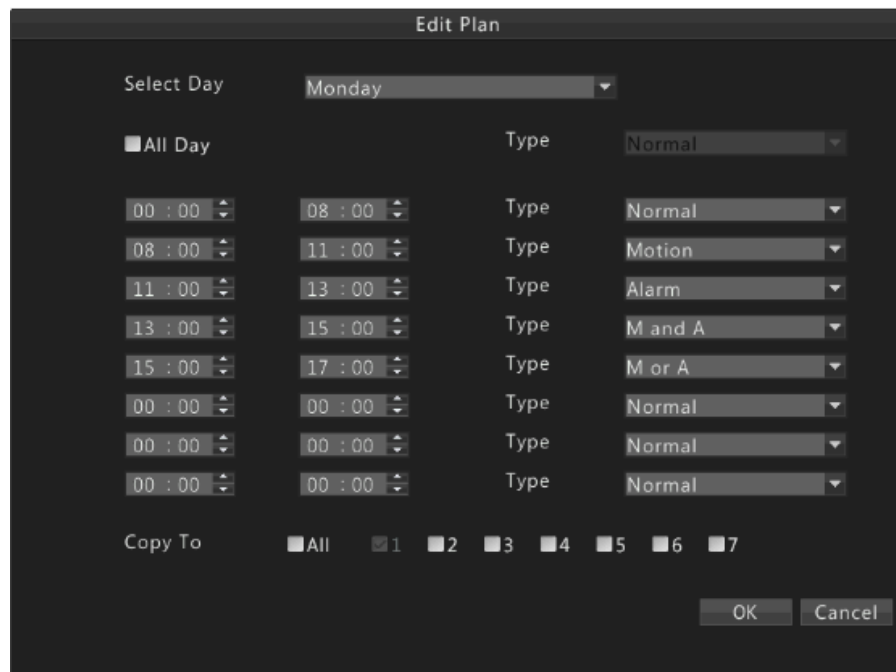
Make a recording plan for a camera so that the device will record video from the camera according to the plan. Scheduled recording is different from manual recording and alarm-triggered recording.

By default a 24-hour recording plan is started for all channels. You may change the plan as needed and record video by time period.

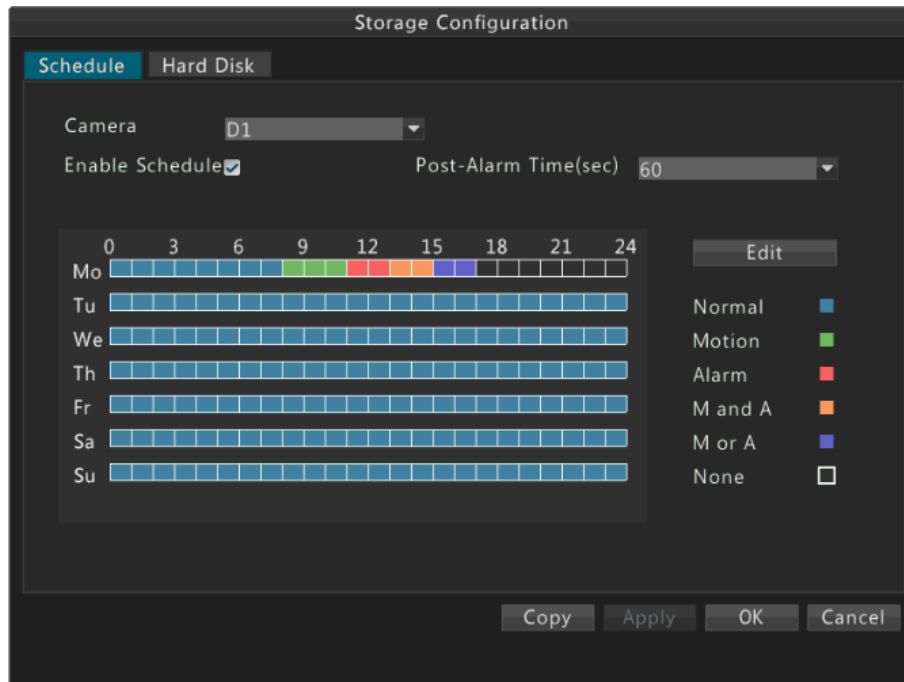
1. Click **Menu>Storage>Schedule**.



2. Make a recording plan.
  - a. Select the **camera** and then select **Enable Schedule**.
  - b. Click **Edit**.
3. Set recording times and recording type(s).



- To record video all day long, select **All Day** and then select a type.
  - To record video by time period, set the time periods. Up to eight periods are allowed for each day.
  - To apply the same plan to other days, select the day(s) for **Copy To**.
4. Click **OK**.



## NOTE!

- The number of channels supported may vary with device model. For the actual number of channels that your device supports, see the display on your device.
- To apply the same settings to other channels, click **Copy** and then select the desired channels.

## Alarm-Triggered Recording

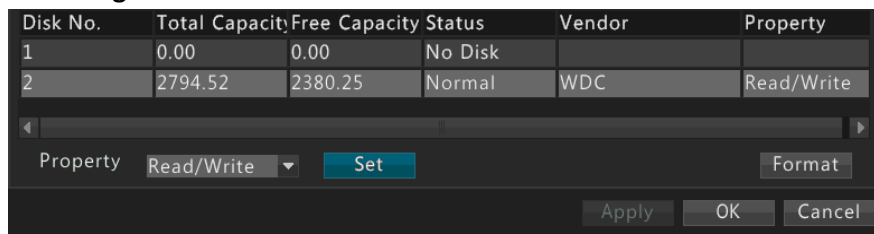
Alarm-triggered recording means that recording is triggered when an alarm is reported.

1. Configure a recording plan. For more details, see [Scheduled Recording](#).
2. Configure alarm-triggered storage. For more details, see [Alarm-Triggered Storage](#).

## Disk Management

Make sure that the disks are correctly installed before you start. Only admin can format a hard disk or set disk property.

1. Click **Menu>Storage>Hard Disk**.





## NOTE!

The **Hard Disk** tab displays disk information, including total capacity, free capacity, and disk status.

### 2. Set disk property.

Disk No.	Total Capacity	Free Capacity	Status	Vendor	Property
1	0.00	0.00	No Disk		
2	2794.52	2380.25	Normal	WDC	Read/Write

Property	Read/Write	Set	Format
		Apply	OK
		Cancel	

- Select the disk you want to set.
- Select the desired option from the **Property** drop-down list.
- Click **Set**.



## NOTE!

- The device allows you to format a hard disk after installing it.
- Format a disk with caution because it will delete all the data stored on the hard disk.

# 7 Playback

## Instant Playback

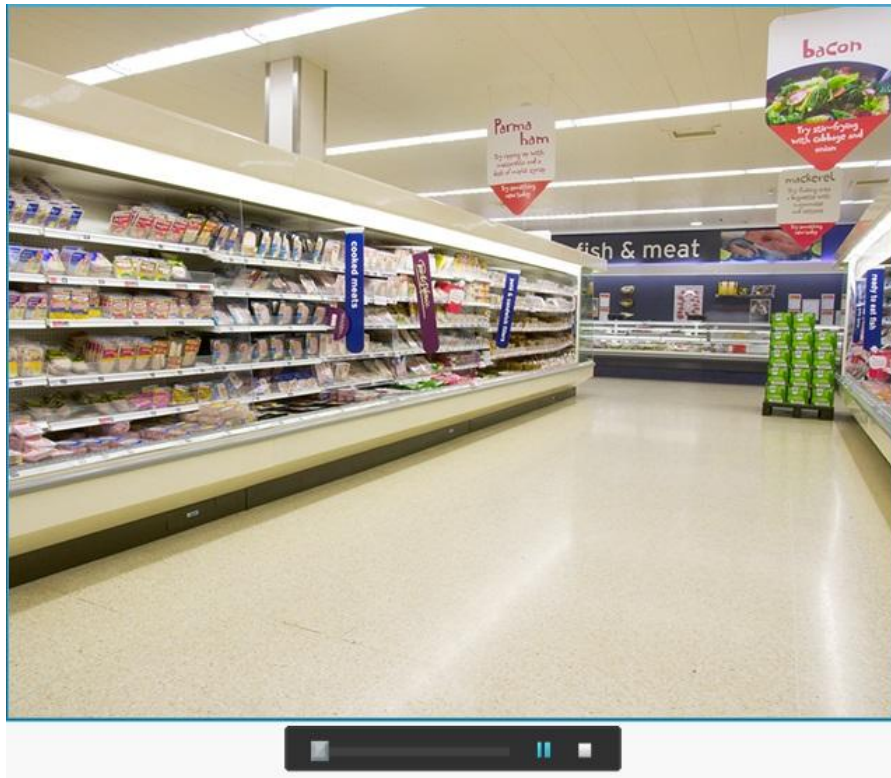
Instant playback means the playback of video recorded within five minutes. Instant playback is convenient when you have detected an exception during live view.

Before you use this function, check that a recording exists for the past five minutes.

- Click the desired pane in the preview window and then click the **Instant Playback** button.



- Use the slider to control the progress, and click the buttons to pause or stop playback as required.



## Playback

Playback is used to play video stored on a hard disk of the device. Before you use this function, check that a recording exists.

1. Click **Menu>Playback** or right-click anywhere in the preview window and then click **Playback**.
2. Query a recording.
  - a. Select the desired camera. The first camera selected is the main camera, and it is in yellow font.
  - b. Select the date from the calendar. The selected date is highlighted with yellow frames.



Select	Channel Name
<input type="checkbox"/>	IPCamera 01
<input type="checkbox"/>	IPCamera 02
<input checked="" type="checkbox"/>	IPCamera 03
<input checked="" type="checkbox"/>	IPCamera 04
<input type="checkbox"/>	IPCamera 05
<input checked="" type="checkbox"/>	IPCamera 06
<input type="checkbox"/>	IPCamera 07
<input type="checkbox"/>	IPCamera 08
<input type="checkbox"/>	IPCamera 09
<input type="checkbox"/>	IPCamera 10
<input type="checkbox"/>	IPCamera 11
<input type="checkbox"/>	IPCamera 12
<input type="checkbox"/>	IPCamera 13
<input type="checkbox"/>	IPCamera 14
<input type="checkbox"/>	IPCamera 15
<input type="checkbox"/>	IPCamera 16

Oct 2014

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	



## NOTE!

- A date with a green background color has a recording. A date with no background color has no recording.
- During synchronous playback for multiple cameras, the calendar shows recording status for the main camera.

3. Click the **Play** button or double-click the date to start playback.
- By default the device starts from the first recording of the selected day.
  - You may move the slider to control the progress.

Normal
2015-01-19 10:27:17
IP Camera 02

Select
Channel Name

☒ IPCa
☒ IPCamera 02
☒ IPCamera 03
☒ IPCamera 04

Jan 2015

S	M	T	W	T	F	S
			1	2	3	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

10:27:17

Schedule Motion Alarm M and A M or A Manual

OX



## NOTE!

- You can also play back the recordings by selecting the desired channel and then double-clicking the date.
- The playback toolbar offers other functions such as forward by frame, speed up, speed down. For more details, see [Playback Toolbar](#).

## Playback Toolbar

Figure 7-1 Playback Toolbar

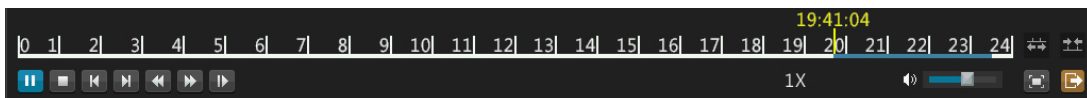


Table 7-1 Playback Toolbar Buttons

Button	Description
	Display the current position of playback. <b>Note:</b> You can move the slider to change the start time from which the playback begins.
	Playback progress bar.
	Play/pause/stop
	Rewind 30 seconds, forward 30 seconds.
	Slow down or accelerate the playback. You can click  to restore the normal speed after clicking , and vice versa.
	Forward by frame
	Digital zoom
	Start/stop clipping.
	Decrease or increase the size of the progress bar.
	Adjust volume for the selected pane.
	Exit the playback page.
	Play in full screen mode. <b>Note:</b> You can exit full screen mode by right-clicking the mouse.

## 8 Backup

### Recording Backup

Backup, also known as recording backup, refers to the process of querying video stored on a hard disk of the device and then saving the recording to a USB drive as a file. The following conditions must be met for backup:

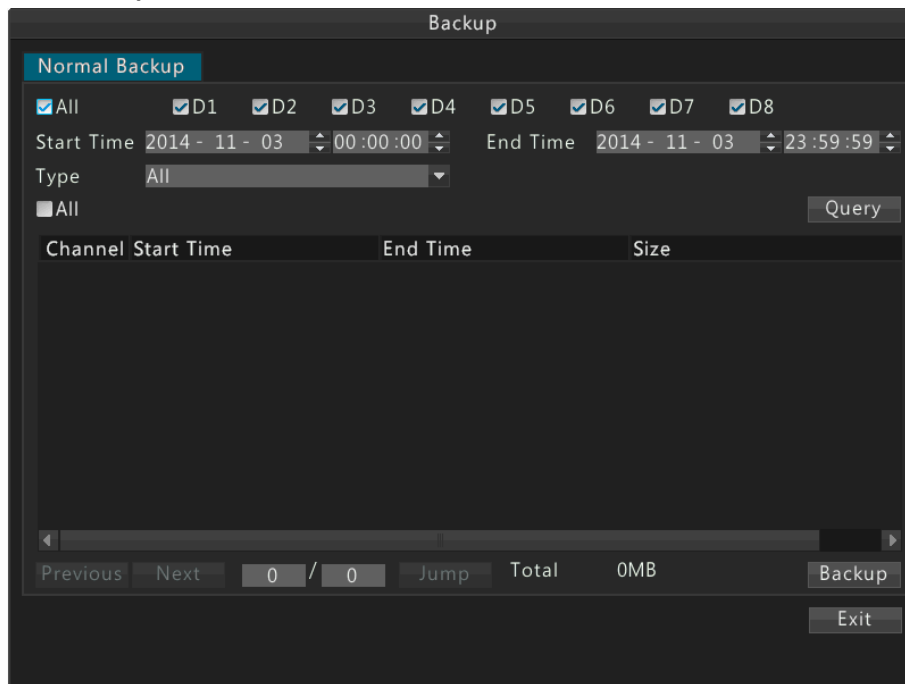
- The USB drive has been formatted into a FAT32 or NTFS file system and correctly plugged into the device.
- You have local playback permission for the corresponding camera.
- A recording is stored on the hard disk.



#### NOTE!

- Up to 80 records can be displayed on one page. If more than 80 records are retrieved, narrow down the search range and query again, or click **Next** to view records page by page.
- By default a recording is backed up as a \*.mp4 file.

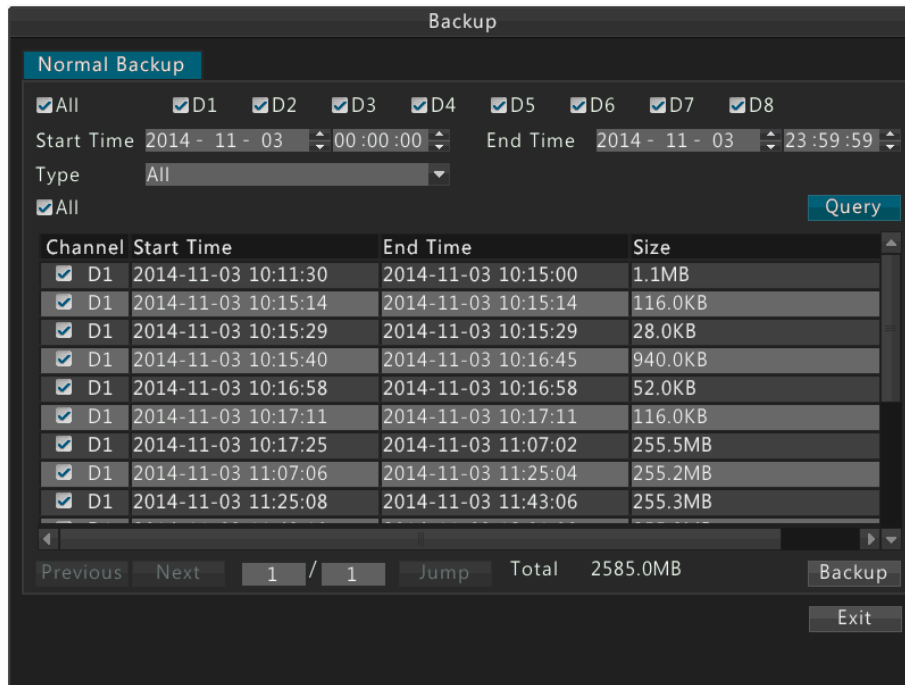
1. Click **Menu>Backup**.



#### NOTE!

All the channels are selected by default.

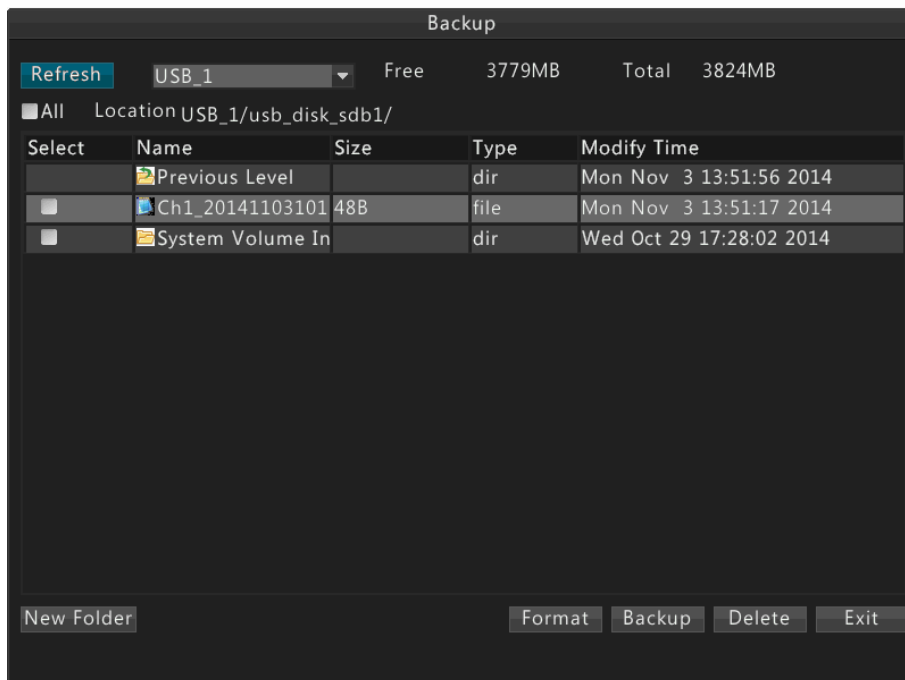
2. Select the desired channel(s), set the time range, select the recording type, and then click **Query**.



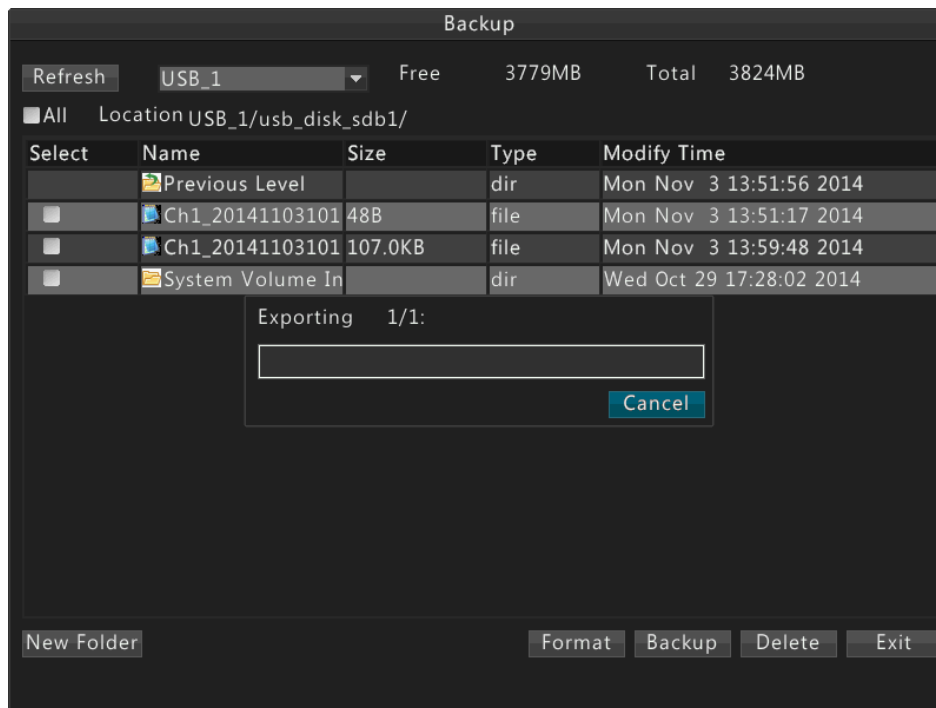
## NOTE!

All the channels are selected by default.

3. Select the desired recording(s) and then click **Backup**.



4. Select the partition and destination folder, and then click **Backup**. The selected recordings are stored in the selected directory.





## NOTE!

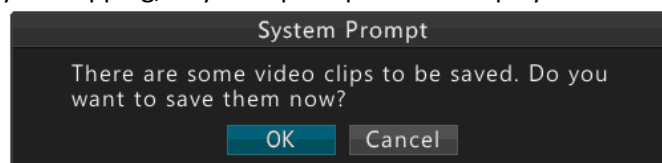
- You may click **New Folder** to create a new folder and then double-click the folder to select it.
- After backup is started, the progress bar shows “Exporting X/Y” to indicate the progress. The X indicates the current recording that is being backed up, and the Y indicates the total number of recordings to be backed up. To cancel the operation, click **Cancel**.
- A backup file is named in this format: camera name-recording start time. For example, Ch1-20141020192835.mp4.

## Recording Clips Backup

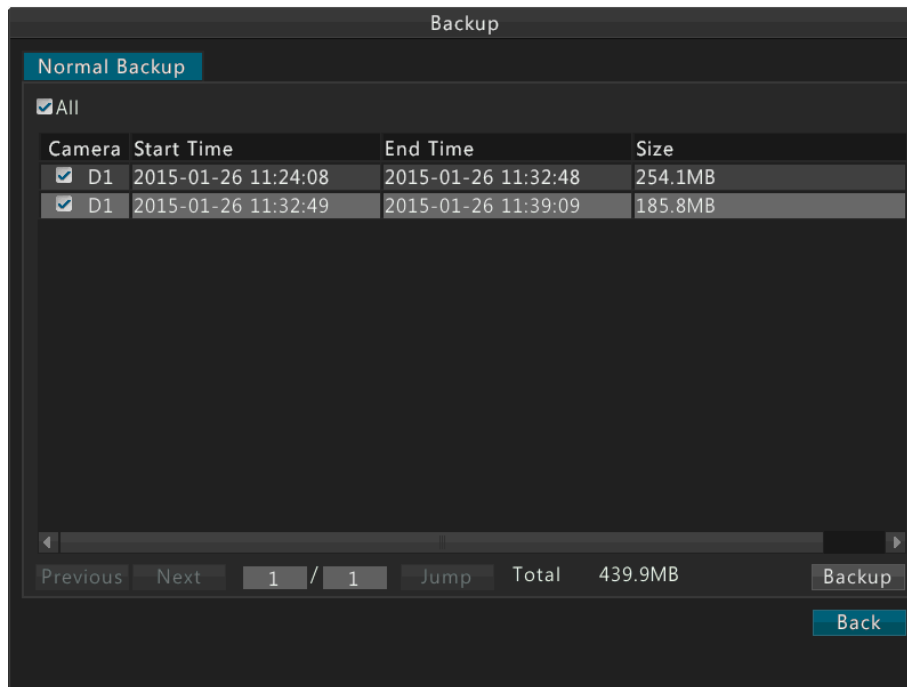
You may also backup recording clips using USB devices.

1. Enter **Playback** interface. For detailed steps, see [Playback](#).
2. Clip the recordings.

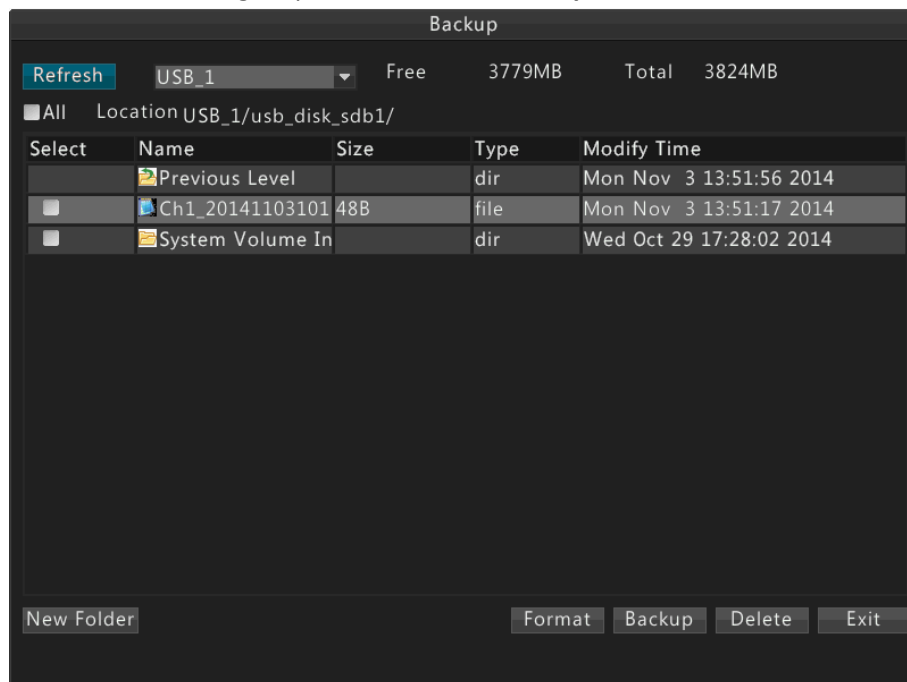
During playback, use buttons  and  in the playback toolbar to start or stop clipping recordings. After your clipping, a system prompt will be displayed.



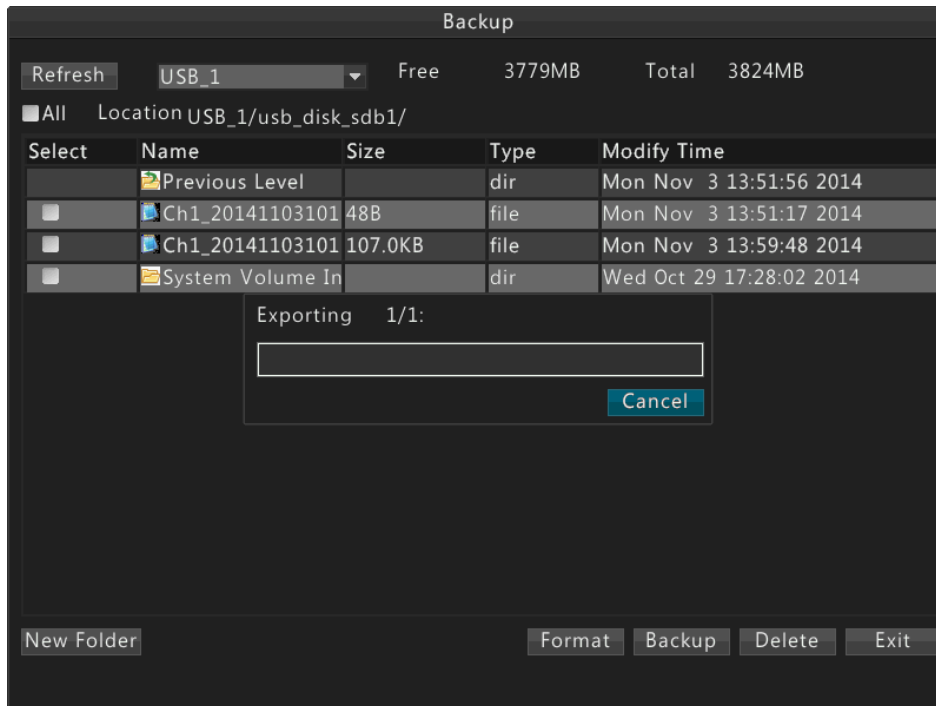
3. Click **OK**.



4. Select the desired recordings clips and then click **Backup**.



5. Select the USB partition and then click **Backup**.



## NOTE!

- After backup is started, the progress bar shows “Exporting X/Y” to indicate the progress. The X indicates the current recording that is being backed up, and the Y indicates the total number of recordings to be backed up. To cancel the operation, click **Cancel**.
- A backup file is named in this format: camera name-recording start time. For example, Ch1-20141020192835.mp4.

# 9 Alarm

## Alarm Input

1. Click **Menu>Alarm>Alarm Input**.
2. Select the desired channel, click **Set**, select **Enable** and the correct trigger mode, and then click **OK**.

No.	Alarm Status	Trigger Mode
A<-1	Disabled	Normally Open
A<-2	Disabled	Normally Open
A<-3	Disabled	Normally Open
A<-4		Normally Open
A<-5		Normally Open
A<-6		Normally Open
A<-7		Normally Open
A<-8		Normally Open
D6<-1		Normally Open
D6<-2		Normally Open

Alarm Input ☒ Enable
 

Trigger Mode
 

Normally Open
 Normally Open
 Normally Close

OK
 Cancel



## NOTE!

To apply the same settings to other channels, click **Copy** and then select the desired channels.

- Click **Trigger Action**. For more details, see [Alarm-Triggered Actions](#).

Alarm Configuration
 

Alarm Input
 Motion Detection
 Tampering Detection
 Exception

No.	Alarm Status	Trigger Mode
D1<-1	Enabled	Normally Open

Set
 Trigger Actions
 Arming Schedule
 Copy

Back



## NOTE!

- The number of channels supported may vary with device model. For the actual number of channels that your device supports, see the display on your device.
- The supported alarm-triggered actions may vary with device model. For the actual actions that your device supports, see the display on your device.

- Set an Arming Schedule.



**Arming Schedule**

Current Camera: D1<-1

Select Day: Monday

Start Time	End Time
00 : 00	24 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00

Copy To: ☐ All ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7

Apply OK Cancel

- a. Click **Arming Schedule**.
- b. Set the plan as required.
- c. After you have completed the configuration, click **Apply**.



#### NOTE!

- Up to eight time periods are allowed for each day. Overlapping time periods are not allowed.
- To apply the same plan to other days, select the day(s) right to **Copy To**.

## Alarm Output

- Click **Menu>Alarm>Alarm Output**.
- Select the desired channel, click **Set**, select the correct trigger mode, and set the duration.

Serial No.	Default Status	Duration(sec)
A->1	Normally Open	30
A->2	Normally Open	30
D4->1	Normally Open	30

Default Status: Normally Open

Duration:

OK Cancel

Set Copy

3. After you have completed the configuration, click **OK**.



## NOTE!

To apply the same settings to other channels, click **Copy** and then select the desired channels.

## Motion Detection

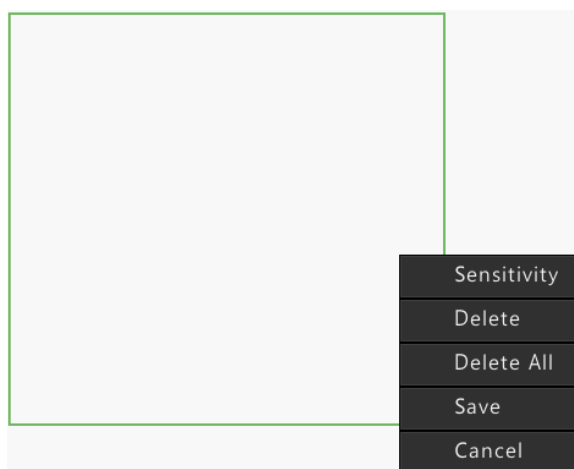
The motion detection alarm function requires you to set at least one detection area on the screen, the sensitivity of detection, and an Arming Schedule. After the configuration is complete, the device will report an alarm when the movement of an object inside that area(s) reaches a certain extent during the specified period(s).

1. Click **Menu>Alarm>Motion Detection**.
2. Select the camera and then click **Enable/Disable** to enable motion detection alarm.

The screenshot shows the 'Alarm Configuration' window with the 'Motion Detection' tab selected. It features a table with columns 'Camera', 'Status', and 'Max Area Number'. The first row shows 'D1' with 'Disabled' status and '--' for the max area number. Below the table is a large black area for setting detection zones. At the bottom, there are buttons for 'Enable/Disable', 'Detection Area', 'Trigger Actions', 'Arming Schedule', 'Copy', and 'Back'.

Camera	Status	Max Area Number
D1	Disabled	--

3. Set a detection area.



- 

A greater value means a higher degree of detection sensitivity.

- | Camera | Status  | Max Area Number |
|--------|---------|-----------------|
| D1     | Enabled | --              |
- Enable/Disable

Detection Area

Trigger Actions

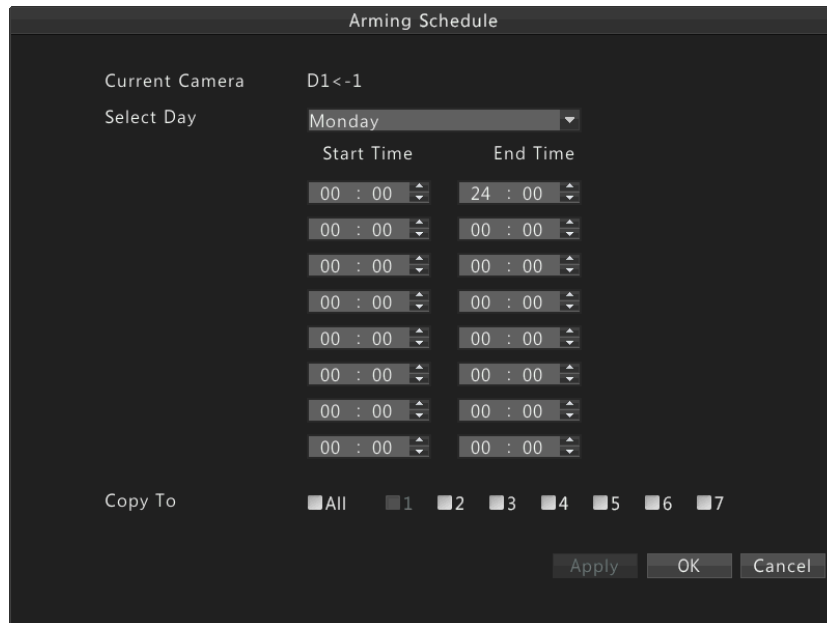
Arming Schedule

Copy



- The number of channels supported may vary with device model. For the actual number of channels that your device supports, see the display on your device.
- The supported alarm-triggered actions may vary with device model. For the actual actions that your device supports, see the display on your device.

- 41



The 'Arming Schedule' window shows the current camera as 'D1<-1' and the selected day as 'Monday'. It features a table for setting start and end times for up to eight periods. All times are currently set to 00:00. At the bottom, there are checkboxes for 'Copy To' (All, 1, 2, 3, 4, 5, 6, 7) and buttons for 'Apply', 'OK', and 'Cancel'.

Start Time	End Time
00 : 00	24 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00
00 : 00	00 : 00



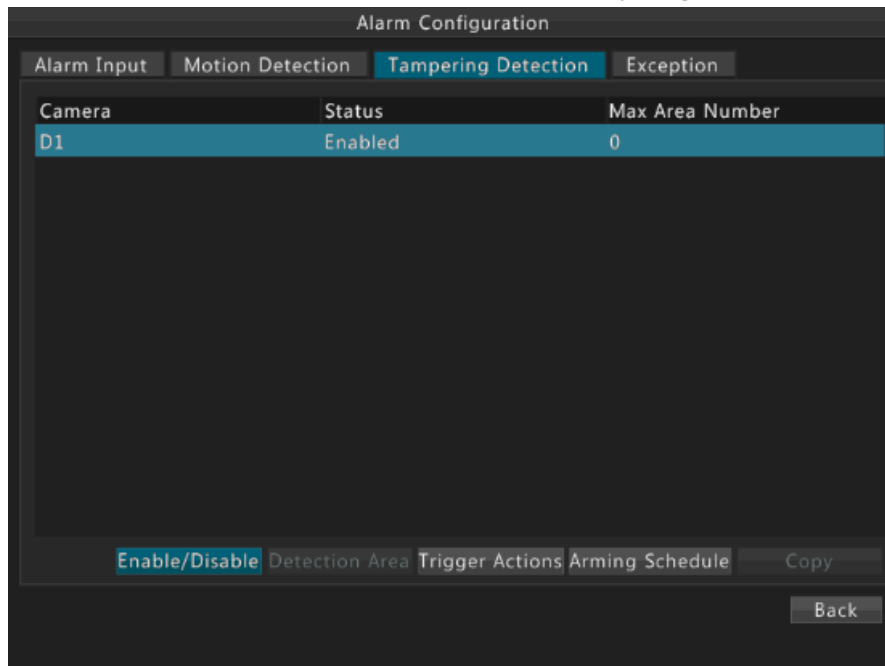
## NOTE!

Up to eight time periods are allowed for each day. Overlapping time periods are not allowed.

## Tampering Detection

The tampering detection function requires you to set a detection area on the screen, the sensitivity of detection, actions to be triggered by a tampering detection alarm, and a guard plan. After the configuration is complete, the device will report an alarm when the detection area is blocked.

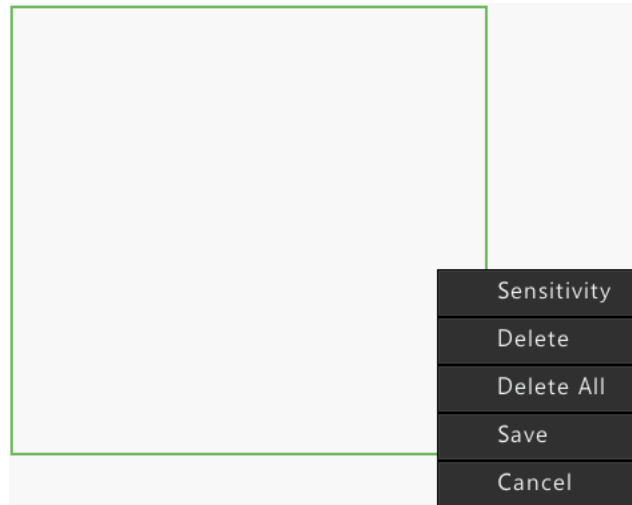
1. Click **Menu>Alarm>Tampering Detection**.
2. Select the camera and then click **Enable/Disable** to enable tampering detection alarm.



The 'Alarm Configuration' window shows the 'Tampering Detection' tab selected. It contains a table with columns 'Camera', 'Status', and 'Max Area Number'. The first row shows 'D1' with 'Enabled' status and '0' Max Area Number. At the bottom, there are buttons for 'Enable/Disable', 'Detection Area', 'Trigger Actions', 'Arming Schedule', 'Copy', and 'Back'.

Camera	Status	Max Area Number
D1	Enabled	0

3. Set a detection area.
  - a. Click **Detection Area**.
  - b. Drag the mouse to set a detection area.
  - c. Right-click the detection area, click **Sensitivity** on the pop-up menu, and then set detection sensitivity.
  - d. After you have completed the configuration, click **Apply**.



#### NOTE!

A greater value means a higher degree of detection sensitivity.

4. Click **Trigger Action**. For more details, see [Alarm-Triggered Actions](#).

Channel	Status	Max Area Number
D1	Enabled	1
D4	Enabled	1

Enable/Disable Detection Area Trigger Action Guard Plan Copy



## NOTE!

- The number of channels supported may vary with device model. For the actual number of channels that your device supports, see the display on your device.
- The supported alarm-triggered actions may vary with device model. For the actual actions that your device supports, see the display on your device.

### 5. Set an Arming Schedule.

- a. Click **Arming Schedule**.
- b. Set the plan as required.
- c. After you have completed the configuration, click **Apply**.

The image shows a screenshot of the 'Arming Schedule' configuration window. At the top, it says 'Arming Schedule'. Below that, 'Current Camera' is set to 'D1<-1'. 'Select Day' is set to 'Monday'. There are two columns: 'Start Time' and 'End Time'. Each column has eight time slots, each with a dropdown menu showing '00 : 00'. At the bottom, there is a 'Copy To' section with checkboxes for 'All', '1', '2', '3', '4', '5', '6', and '7'. The 'All' checkbox is checked. At the bottom right, there are three buttons: 'Apply', 'OK', and 'Cancel'.



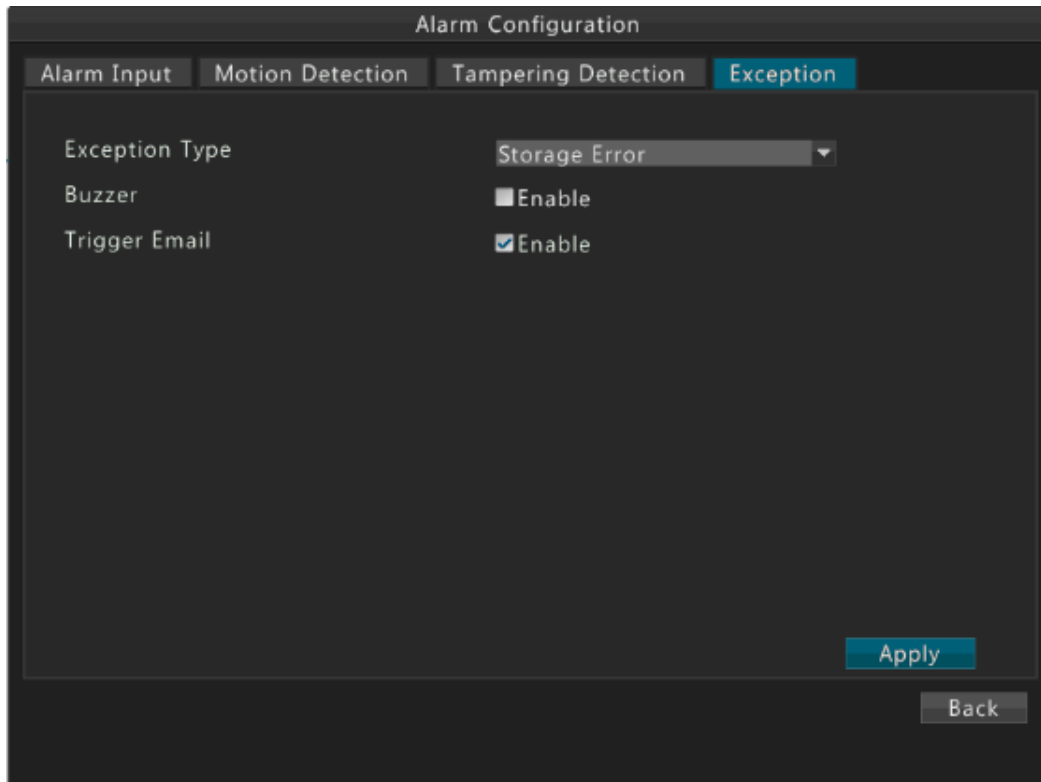
## NOTE!

Up to eight time periods are allowed for each day. Overlapping time periods are not allowed.

## Exception

To configure exceptions is for the purpose of handling unexpected events.

1. Click **Menu>Alarm>Exception**.
2. Select the exception type, select **Enable**.



3. After you have completed the configuration, click **Apply**.
4. Click **Exit**.

## Alarm-Triggered Actions

A reported alarm can be set to trigger multiple actions, including sound (buzzer), storage (recording video when an alarm is reported), and preview pane. The supported alarm-triggered actions may vary with device model. For the actual actions that your device supports, see the display on your device.

### Alarm-Triggered Sound

The device starts to sound the buzzer when an alarm is reported.

### Alarm-Triggered E-mail

The device starts to e-mail the alarm messages to the user when an alarm is triggered.

### Alarm-Triggered Storage

The device starts to record live video from the specified camera(s) when an alarm is reported.

### Alarm-Triggered Preset

A PTZ camera goes to a preset position when an alarm is reported.

## Alarm-Triggered Preview

If alarm-triggered preview is enabled for a camera, the device plays live video from the camera in full screen when the camera reports an alarm, and then the device switches to the next screen at the set interval. An alarm icon is displayed on the screen with the live video from the camera for differentiation.

## Alarm-Triggered Alarm Output

The device triggers the action of a third-party device by outputting an alarm.

# 10 Network Configuration

Network configuration is required if the device operates in a network.



### NOTE!

The default IP address for the device is 192.168.0.30.

## Basic Configuration

1. Click **Menu>Network>Basic**.
2. Set the network parameters, including IPv4 address, subnet mask, and gateway.

Enable DHCP	<input type="checkbox"/>
IPv4 Address	208 . 208 . 105 . 45
IPv4 Subnet Mask	255 . 255 . 0 . 0
IPv4 Gateway	208 . 208 . 105 . 1
MAC Address	48:ea:63:00:19:42
MTU(Bytes)	1500
Preferred DNS Server	8 . 8 . 8 . 8
Alternate DNS Server	8 . 8 . 4 . 4

3. After you have completed the configuration, click **OK**.





## NOTE!

- If a DHCP server is used on the network, you can select **Enable DHCP** to obtain a dynamic IP address.
- If your device has more than one NIC, you can select an NIC to configure and the default route.
- If your device has a PoE port or switching port, you can configure an internal NIC IPv4 address.

## PPPoE

1. Click **Menu>Network>PPPoE**.

Connection

PPPoE ☒

Username 123

Password \*\*\*

IP Info

Address

Subnet Mask

Gateway

2. Select **PPPoE**, and then enter the correct username and password provided by your ISP. The network information will be displayed under **IP Info**.
3. After you have completed the configuration, click **OK**.

## DDNS

1. Click **Menu>Network>DDNS**.
2. Select **DDNS**. ()

Network

Basic PPPoE **DDNS** UPnP Email

DDNS ☒

DDNS Type HDCCTVDDNS

Domain testddns

Device Status Online

Username testgmail@gmail.com

Password \*\*\*\*\*

Apply OK Cancel

3. After you have completed the configuration, click **OK**.
4. Access your NVR remotely by domain, e.g. [http://www.test.hdcctvddns.com:http\\_port](http://www.test.hdcctvddns.com:http_port).



#### NOTE!

- DDNS is enabled by default. If not, Enable HDCCTVDDNS on the NVR manually.
- Register at [www.hdcctvddns.com](http://www.hdcctvddns.com).
- Setup an unused domain name (The domain name can be any name to identify your system).
- Enter the registered account in the Username and Password field.
- Make sure the UPnP of the router has been enabled. Or you can manually open the port on the router.

## UPnP

UPnP means Universal Plug and Play. When UPnP is enabled for Network Address Translation (NAT), device ports can be mapped automatically to the router, and computers can access the devices from outside the LAN.

You must enable UPnP in the router before using this function.

1. Click **Menu>Network>UPnP**.
2. By default UPnP is enabled. You may select a mapping type as needed. If you select **Manual**, you need to set the external ports.

Port Type	Mapping IP	External Port	Status
HTTP Port	0.0.0.0	50080	Inactive
RTSP Port	0.0.0.0	50554	Inactive
Stream Port	0.0.0.0	57070	Inactive
Service Port	0.0.0.0	56060	Inactive

3. Click **Refresh** and check whether the status in the **Status** column is updated.
4. After you have completed the configuration, click **OK**.

## Email

1. Click **Menu>Network>Email**.
2. Configure the related parameters.

To enable the server authentication, enter the correct username and password.

Network

Basic PPPoE DDNS UPnP **Email**

Server Authentication ☒

Username lottie9214@gmail.com

Password \*\*\*\*\*

SMTP Server smtp.gmail.com

SMTP Port 25

Enable SSL ☐

Sender Name lottie

Sender Address lottie9214@gmail.com

Select Recipient Recipient 1 ▼ Test

Recipient Name nvr alarm

Recipient Address lottietest@gmail.com

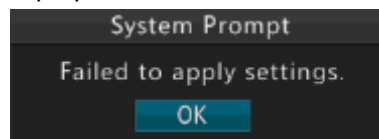
Apply OK Cancel



#### NOTE!

Depending on the location of the e-mail accounts to which you want to send notification, click the checkbox to enable **SSL** if required by the SMTP server.

3. Click **Test**.
- Test succeeds When it prompt 'Email test successful'.
- If test fails, the prompt xxx is displayed.



## 11 System Configuration

### Basic Configuration

1. Click **Menu>System>Basic**.
2. Configure the parameters.

Device Name	NVR32-2
Device ID	1
Language	English
Enable Audio Out	<input type="checkbox"/> Yes
Enable Startup Wizard	<input type="checkbox"/> Yes
Enable Password	<input checked="" type="checkbox"/> Yes

3. After you have completed the configuration, click **OK**.



#### NOTE!

- Only admin can configure the **Enable Password** parameter.
- If **Enable Password** is not selected, no password is required for login to the device.

## Time Configuration

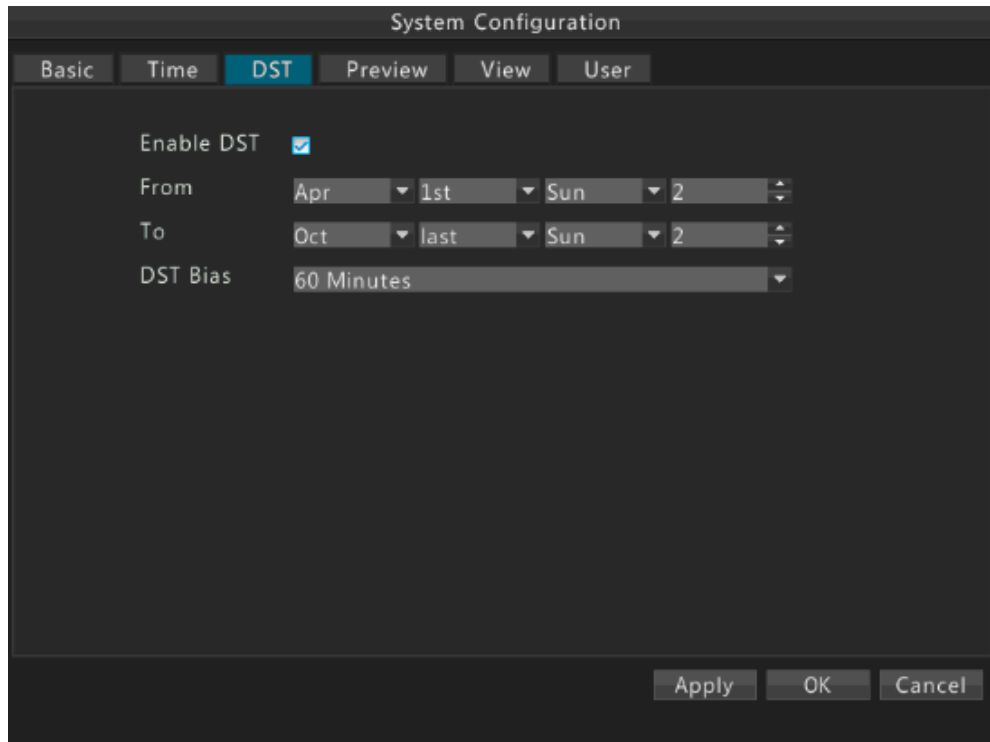
1. Click **Menu>System>Time**.
2. Select the correct time zone and set the system time manually. You may also select **Enable NTP** and then set the IP address and port number of the NTP server and the update interval.

Time Zone	(GMT+00:00) Dublin, Edinbu
System Time	2014 - 11 - 18 02:02:51
Enable NTP	<input checked="" type="checkbox"/> Yes
NTP Server	210 . 72 . 145 . 44
NTP Port	123
Update Interval(min)	10

3. After you have completed the configuration, click **OK**.

## DST Configuration

1. Click **Menu>System>DST**.
2. Select **Enable DST** and then choose the correct Start &End time、DST Bias.



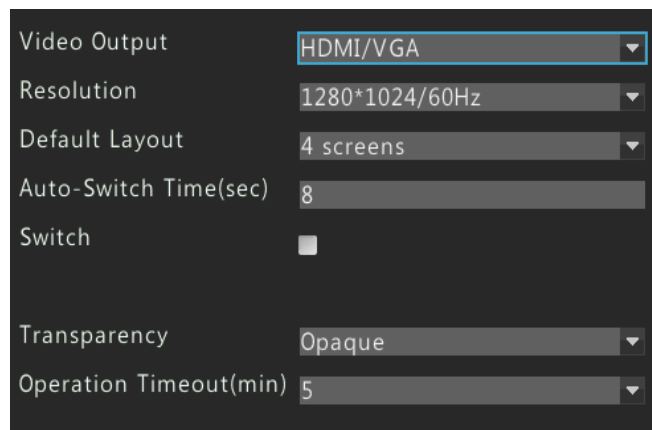
The image shows the 'System Configuration' dialog box with the 'DST' tab selected. The 'Enable DST' checkbox is checked. The 'From' date is set to April 1st, Sunday, at 2:00. The 'To' date is set to October last, Sunday, at 2:00. The 'DST Bias' is set to 60 Minutes. At the bottom right are 'Apply', 'OK', and 'Cancel' buttons.

Field	Value
Enable DST	<input checked="" type="checkbox"/>
From	Apr 1st Sun 2
To	Oct last Sun 2
DST Bias	60 Minutes

3. After you have completed the configuration, click **Apply**.

## Preview Configuration

1. Click **Menu>System>Preview**.
2. Configure the parameters.



The image shows the 'Preview Configuration' dialog box. It contains several settings: Video Output (HDMI/VGA), Resolution (1280\*1024/60Hz), Default Layout (4 screens), Auto-Switch Time(sec) (8), Switch (unchecked), Transparency (Opaque), and Operation Timeout(min) (5).

Video Output	HDMI/VGA
Resolution	1280*1024/60Hz
Default Layout	4 screens
Auto-Switch Time(sec)	8
Switch	<input type="checkbox"/>
Transparency	Opaque
Operation Timeout(min)	5



### NOTE!

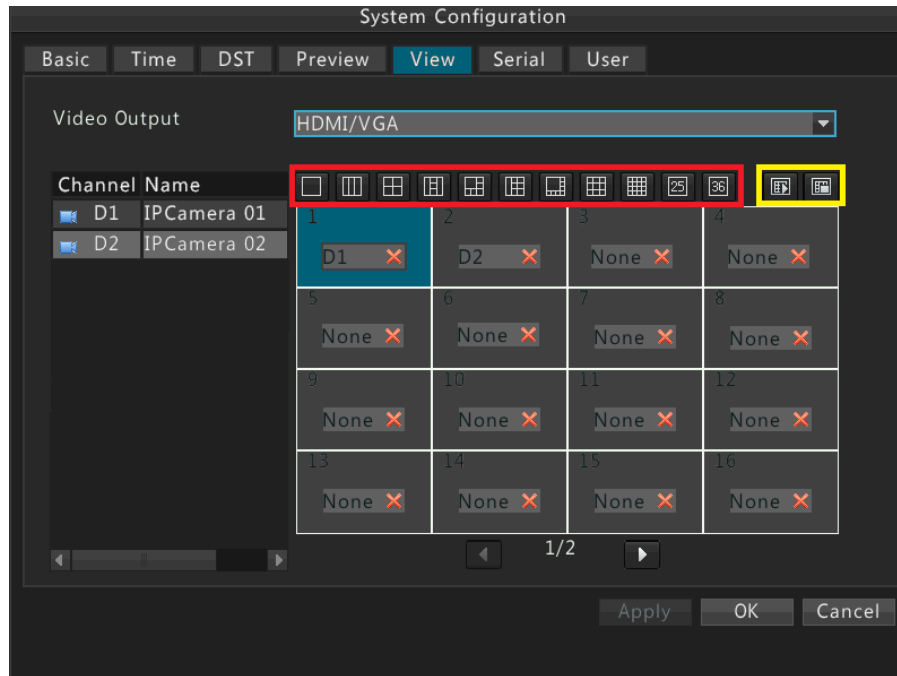
Depending on your device model, the supported output interfaces and number of screens may vary. See the actual display on your device.

3. After you have completed the configuration, click **OK**.

## View Configuration

View configuration is used to link channels to preview panes dynamically.

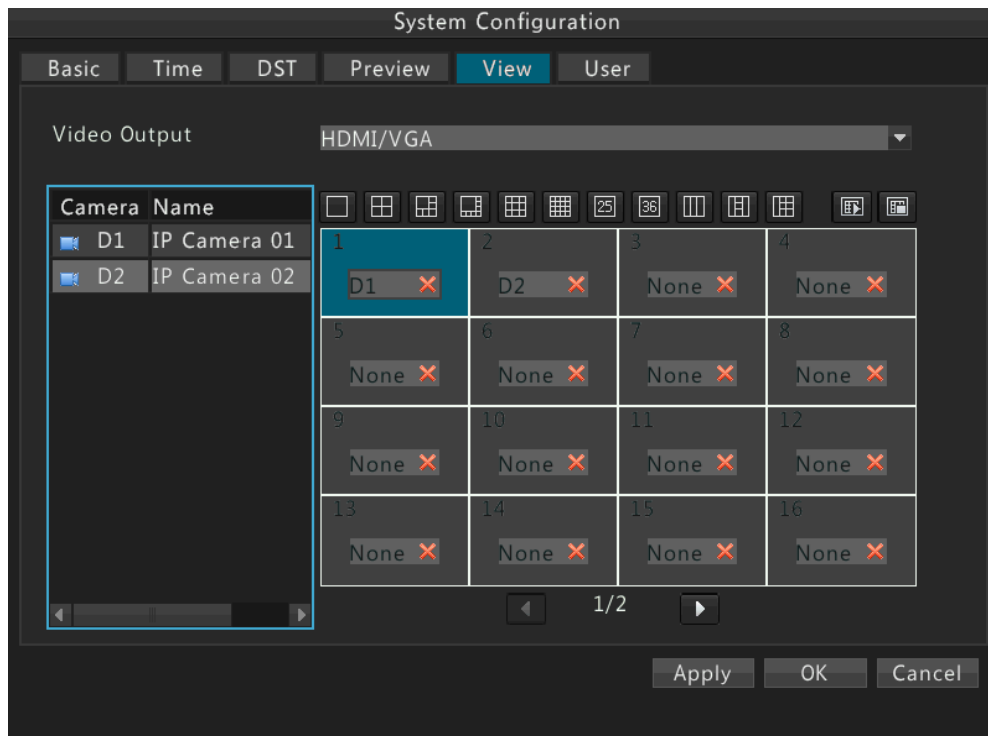
Click **Menu>System>View**.



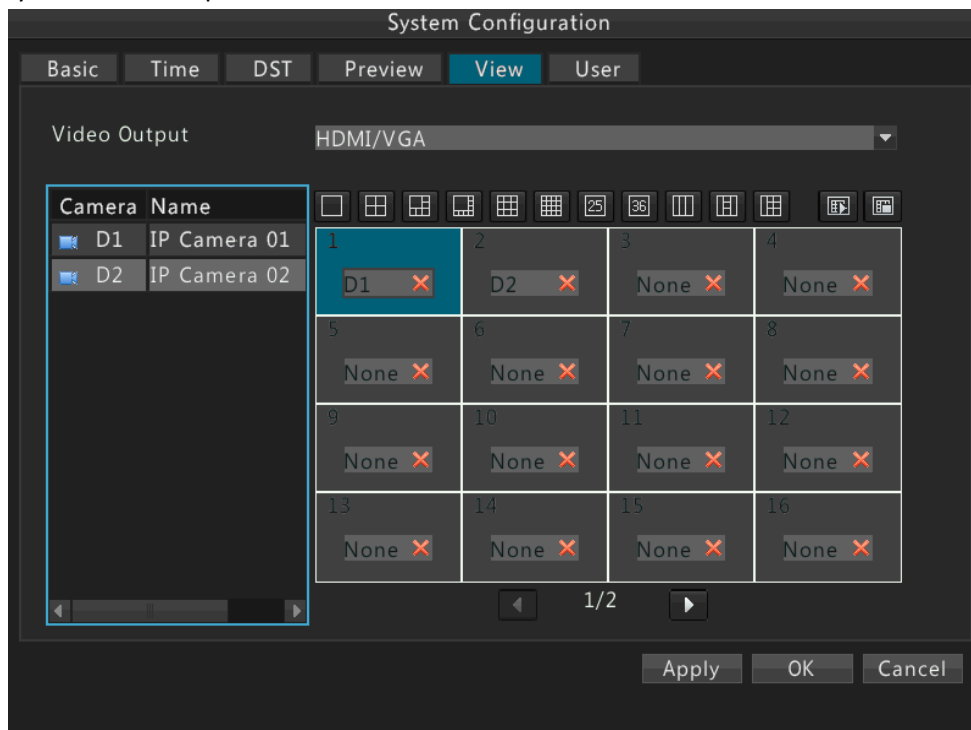
### NOTE!

- You can change the view by clicking a button in the red box. The number of panes that can be displayed may vary, depending on your device model.
- The two buttons in the yellow box are used to enable or disable preview for all panes.

1. Click to select the No.1 pane on the right, and then double-click D2 on the left. Now D2 is displayed in the No.1 pane, and **None** is displayed in the No.2 pane.



- Click to select the No.2 pane on the right, and then double-click D1 on the left. Now D1 is displayed in the No.2 pane.



- After you have completed the configuration, click **OK**.

## Serial Port Configuration

Serial port settings in the device should be consistent with that of the connected serial device. Serial port configuration is required for PTZ control.

1. Click **Menu>System>Serial**.
2. Configure the parameters for the serial port.

Serial No.	1
Type	RS485
Baud Rate	9600
Data Bit	8
Stop Bit	1
Check Bit	None

- 3.** After you have completed the configuration, click **OK**.

## User Configuration

User is the entity that manages and uses the system. User role is a collection of operation permissions. When a role is assigned to a user, this user is assigned all the permissions defined for the role.

There are three user types in the system:

- Admin: By default the super administrator of the system and has full permissions. The initial password for admin is 123456.
- Operator: By default an operator has basic permissions and channel permissions. Admin can modify permissions assigned to operators.
- Guest: By default a guest has channel permissions. Admin can modify permissions assigned to a guest.



**NOTE!**

Only admin can add, delete and modify users.

1. Click **Menu>System User**.

Select	Username	Role
	admin	Administrator

Add

Delete

Modify

2. User configuration
  - Add a user.
    - a. Click **Add**.
    - b. Set the username, password, user role and permissions.



- c. After you have completed the configuration, click **OK**.



## NOTE!

The system allows up to eight users including admin.

- Delete a User

Select the desired user(s) and then click **Delete**. After you have completed the configuration, click **OK**.

Select	Username	Role
	admin	Administrator
<input checked="" type="checkbox"/>	123	Operator
<div>Add Delete Modify</div>		

- Modify a User

- d. Select the desired user and then click **Modify**.

Select	Username	Role
	admin	Administrator
<input checked="" type="checkbox"/>	123	Operator
<div>Add Delete Modify</div>		

- e. Modify the password, role and permission as needed.

f. After you have completed the configuration, click **OK**.



#### NOTE!

The user must use the new password to log in after the password is changed.

## 12 System Maintenance

### System Information

View the basic information about the device for maintenance purpose.

1. Click **Menu>Maintain>SystemInfo**.
2. View the device information, including device model, bar code, and software version.

### Log Query

Logs record operations performed by users and device operation status. By analyzing logs, you can keep track of device operation status and view detailed alarm information.

1. Click **Menu>Maintenance>Log Query**.

Maintain

System Info

Log Query

Import/Export

Restore

Auto-Maintain

Upgrade

Start Time

2015 - 01 - 26

00:00:00

End Time

2015 - 01 - 26

23:59:59

Main Type

All

Sub Type

All Types

Query

Username	Operation Time	IP	Camera	Main Type	Sub Type
<div><div></div><div></div></div>					

Previous

Next

0 / 0

Jump

Back

2. Set query condition, including the start time and end time, main log type and subtype.
3. Click **Query**. Results matching the condition are displayed.

Maintain

System Info

Log Query

Import/Export

Restore

Auto-Maintain

Upgrade

Start Time

2015 - 01 - 26 00:00:00

End Time

2015 - 01 - 26 23:59:59

Main Type

All

Sub Type

All Types

Query

Username	Operation Time	IP	Camera	Main Type	Sub Type
	2015-01-26 17:12:51		D1	Alarm	Motion
	2015-01-26 17:12:41		D1	Alarm	Motion
	2015-01-26 17:09:12		D1	Alarm	Motion
	2015-01-26 17:09:02		D1	Alarm	Motion
admin	2015-01-26 17:06:34	127.0.0.1		Operation	Login
	2015-01-26 17:06:11		D1	Alarm	Motion
	2015-01-26 17:06:01		D1	Alarm	Motion
admin	2015-01-26 17:05:40	127.0.0.1		Operation	Login

Previous

Next

1 / 33

Jump

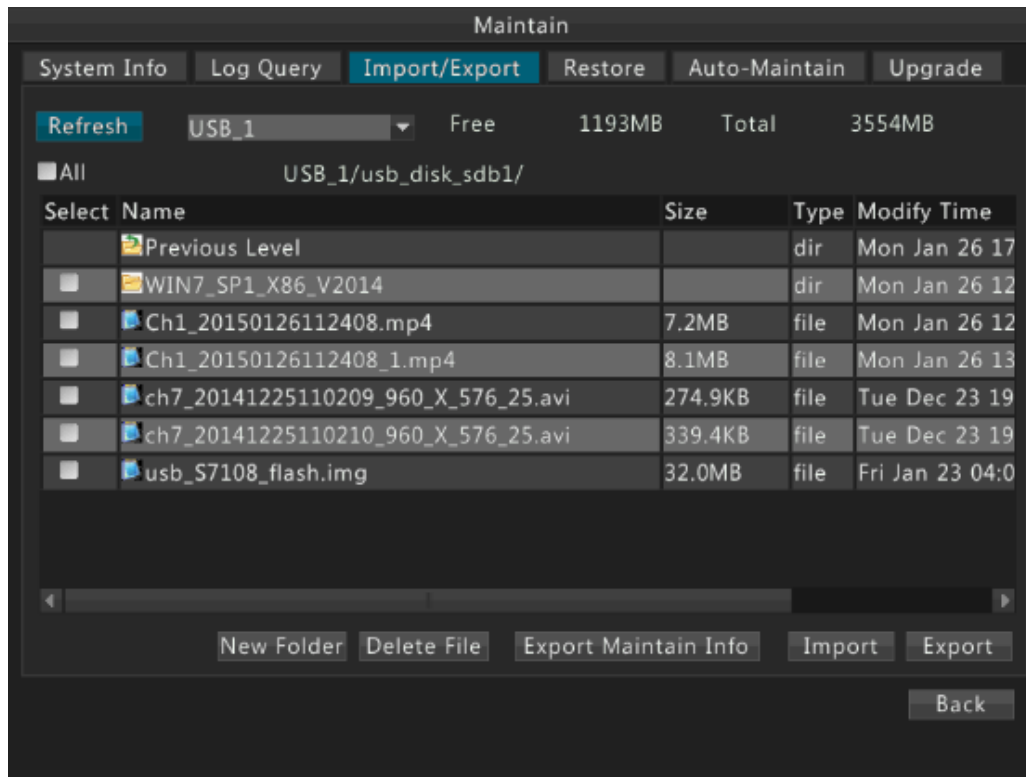
Back

## Import/Export

Users who have permission to configure can back up the system. Only admin can export system configurations to a USB drive or import system configurations and databases from a USB drive.

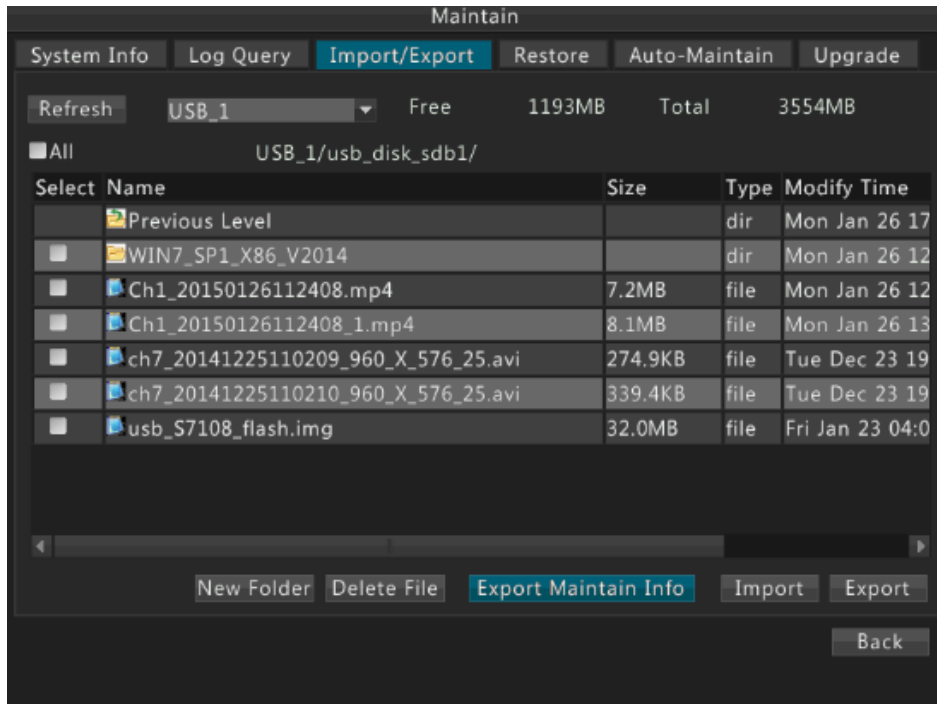
## Refreshing Information about a USB Drive

1. Click **Menu>Maintain>Import/Export**.

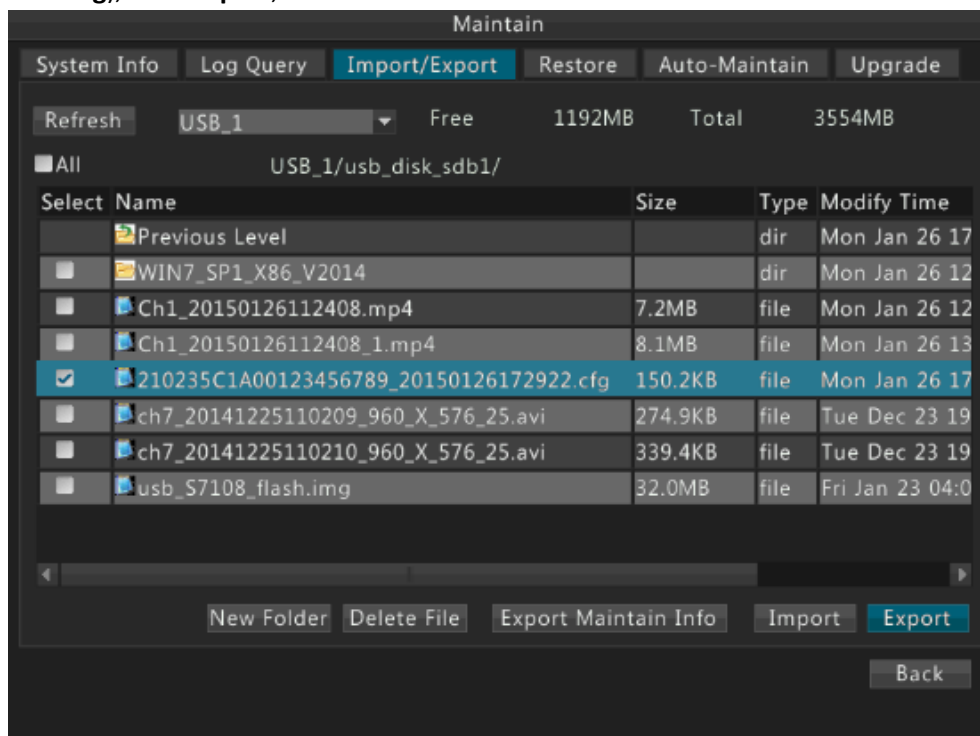


2. Import/Export Configurations

- To export system configurations, click **Export**. A file named \*.cfg will be created in the selected folder if the export operation is successful.
- To export maintenance information, click **Export Maintain Info**. A file named \*.tgz will be created in the selected folder if the export operation is successful.



- To import system configurations, double-click the directory in the list, select the correct file (named \*.cfg), click **Import**, and then click **OK**.



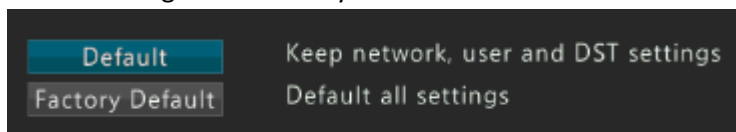
## NOTE!

- Delete files or folders with caution. The delete operation is irreversible.
- Only admin can export system configurations, maintenance information and import system configurations.

## System Restoration

The system can be restored in two ways:

- Restore: All settings, except network settings and user settings, will be restored to the defaults.
  - Default: All settings will be restored to the defaults.
1. Click **Menu>Maintain>Restore**.
  2. Click **Default** or **Factory Default** as required, and then click **OK**. The device will restart and restore the system according to the mode you have chosen.



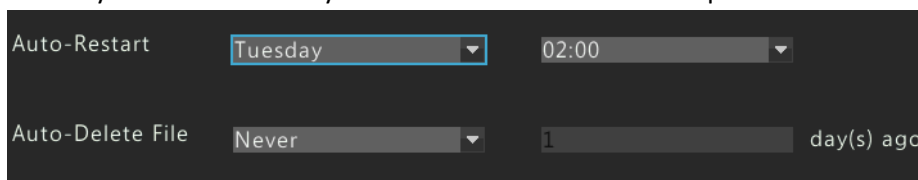
### NOTE!

Recorded videos and operation logs will not be deleted if you click **Default**.

## Auto-Maintain

Only admin can perform this operation.

1. Click **Menu>Maintain>Auto-Maintain**.
2. Set when the system automatically restarts and deletes files as required.



### NOTE!

Files that are deleted automatically cannot be recovered.

## System Upgrade

There are two ways to upgrade the device:

- Local upgrade: upgrade the device by using an upgrade file backed up in a USB drive. For more descriptions about using a USB drive, see System Upgrade.
- Remote upgrade: upgrade the device by using an upgrade file added in web. For more descriptions about using a USB drive, see [System Upgrade](#).

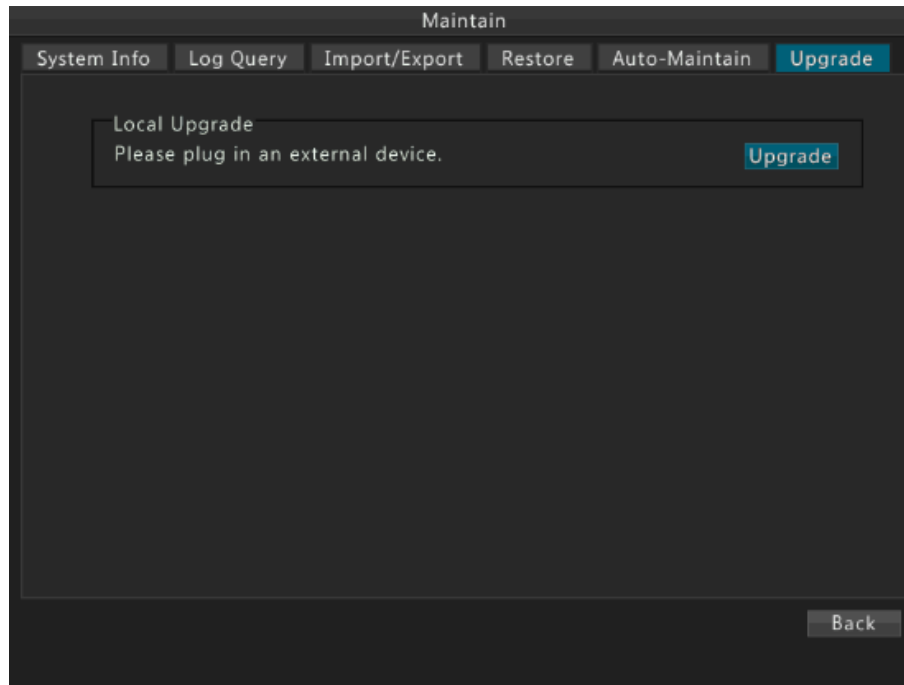


### NOTE!

- Maintain a normal power supply during upgrade. Use an Uninterrupted Power Supply (UPS) if necessary.
- Before you start a local upgrade, copy the correct upgrade file to the root directory of the USB drive. Otherwise, the upgrade will fail.
- The device will restart automatically after the upgrade is completed.

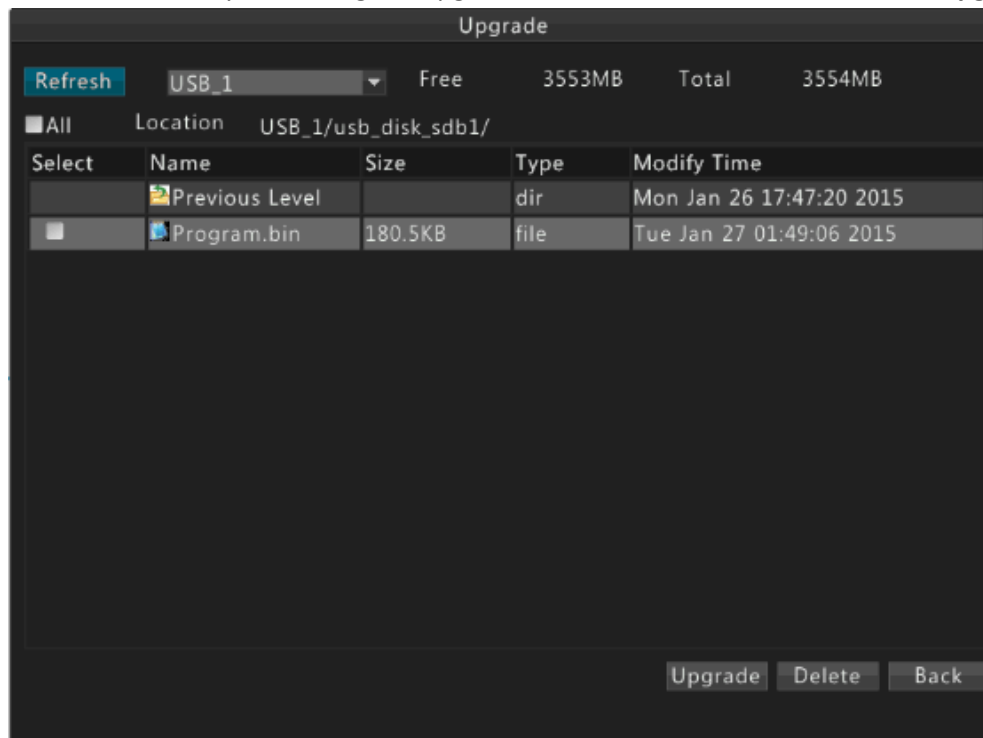
1. Local upgrade

- a. Click Menu>Maintain>Upgrade.



- b. Click **Upgrade**.

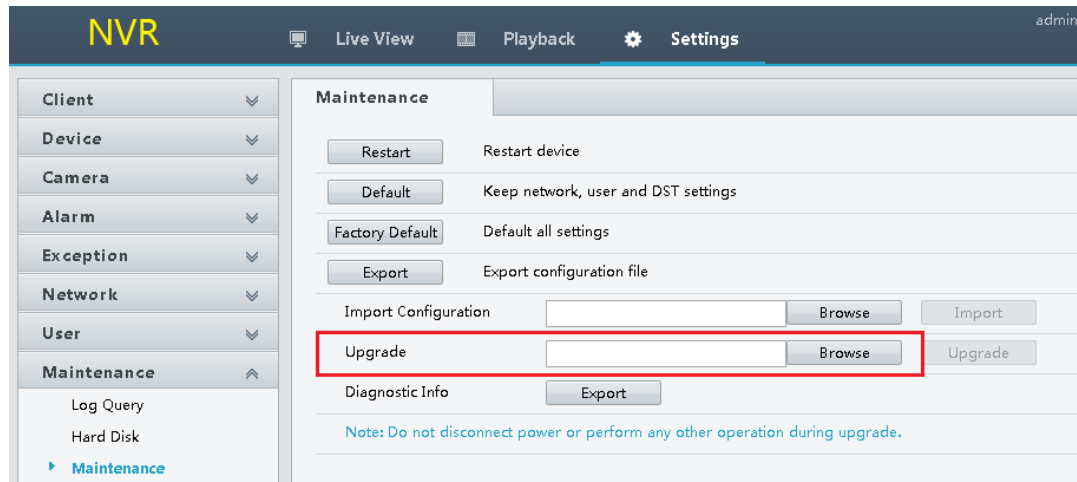
- c. Select the directory containing the upgrade file in the USB drive and then click **Upgrade**.



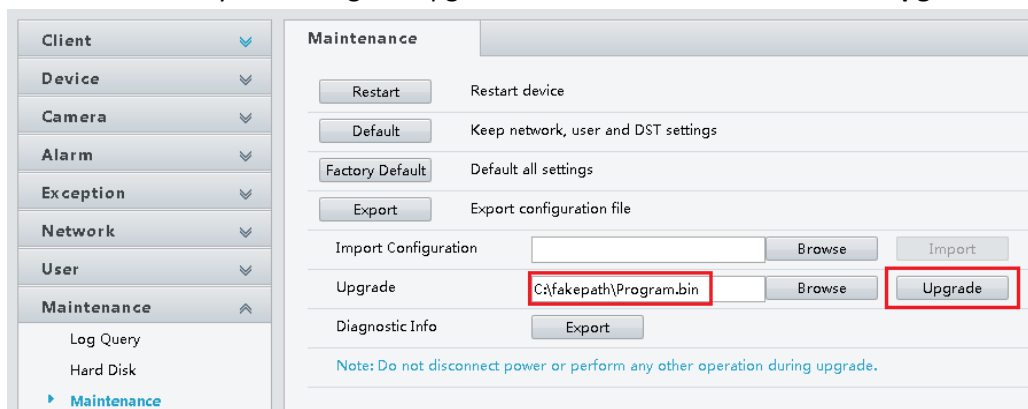
2. Remote upgrade

- a. Access the web page of the NVR. For more details, see “Part II Web-Based Operations” ;

- b. Select **Settings>Maintenance> Maintenance**.



- c. Click **Browse**.
- d. Select the directory containing the upgrade file from the PC and then click **Upgrade**.



## 13 Shutdown

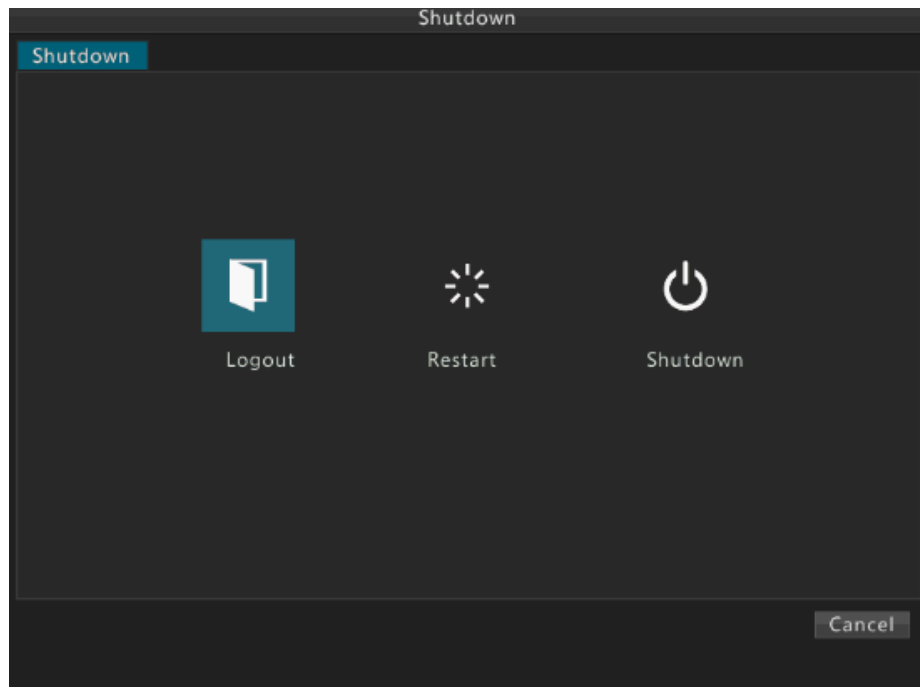
You can perform logout, restart and shutdown operations in the **Shutdown** window.

It is recommended that you disconnect the device from the power supply if the device will not be used for a long time.

You can also shut down the device by pressing the power button on the front panel for at least three seconds and then confirming the operation.

1. Click **Menu>Shutdown**.
2. Click the button as needed.





---

**Warning:**

Unsaved settings will be lost if the device is shut down in an incorrect manner, for example, due to a power failure. An incorrect shutdown during an upgrade may cause startup failures.

---

## Part II Web-Based Operations

### 1 Before You Begin

---

Make sure you have the required permission before you start. The following figures are for illustration purpose only because difference exists between different models. Please see the actual display on your device.



---

**NOTE!**

The parameters that are grayed out cannot be modified. For the actual parameters and parameter values, see the display on your device.

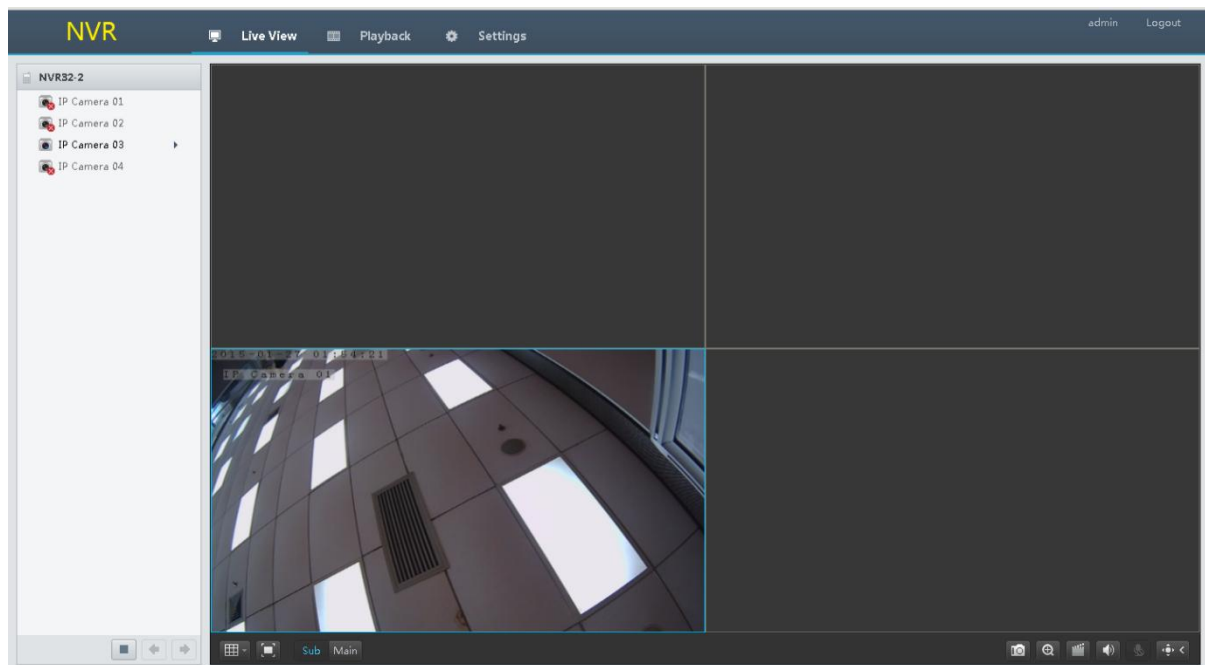
---

## 2 Login





1. Open the Web browser on your computer, input the IP address of the device and then press **Enter**. For the device with one network interface, the default IP address is 192.168.0.30. For the device with two network interfaces, the default IP address for network interface 1 is 192.168.0.30, and 192.168.1.30 for network interface 2. You need to load the latest ActiveX as prompted when logging in the first time. You need close the Web browser to complete the installation.
2. In the login dialog box, enter the correct username and password (123456 for admin) and then click **Login**.









## 3 Live View

By default the **Live Video** page is displayed when you are logged in.



**Table 3-1** Live View Control Buttons

Button	Description	Button	Description
	Start/stop preview for all panes		Previous screen/next screen
	Start/stop talk		Adjust microphone volume

Button	Description	Button	Description
	Switch screen layout		Set the clarity of images
	Display in full screen mode		Take a snapshot
	Start/Stop digital zoom		Start local recording
	Adjust volume, turn on/off sound.		Open/close the control panel



## NOTE!

- A snapshot is named in this format: IP address\_channel ID\_snapshot time.file extension. For example, 192.168.0.30\_D1\_20140311102123239.jpg, where 20140311102123239 means that the snapshot is taken at the system time of 10:21:23:239 on March 11th, 2014.
- By default, a snapshot is saved in this directory: C:\Users\username\Uware\Snap\system date (yyyy-mm-dd).
- A local recording is named in this format: IP address\_channel ID\_S recording start time E recording end time.file extension. The recording start and end times are in hh-mm-ss format.
- By default, a local recording is saved in this directory: C:\Users\username\Uware\Record\system date. The system date is in yyyy-mm-dd format.


## PTZ Control

PTZ control allows you to remotely control the rotation angle, iris, zoom, focus and turn on or off the wiper of a PTZ camera.



## NOTE!






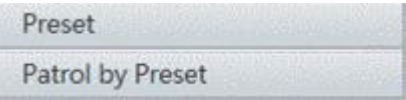
PTZ control depends on the functions and protocols that a PTZ camera supports. For example, some manufacturers use presets for other purposes (such as wiper or menu). Refer to the specifications for the PTZ for details.

1. Click the desired pane on the live view page, and then double-click an online PTZ camera on the left side to start live video in the pane.
2. Click  to open the control panel.




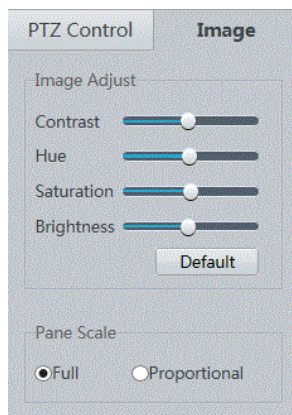
3. Control the PTZ camera using the buttons described in the table below.

**Table 3-2** PTZ Control Pane Description

Button	Description
	Control the rotation direction of a PTZ camera.
	Adjust the zoom, focus, and iris of the camera lens. <ul style="list-style-type: none"> <li><b>Note:</b> When adjusting iris and focus for high-definition Sony cameras that support the VISCA protocol, set the camera to MANUAL mode using the remote control.</li> </ul>
	Control the light.
	Control the wiper.
	Set the rotation speed of a PTZ camera.
	Preset list: Choose the preset for the PTZ rotation. Patrol by Preset: Choose the patrol route.

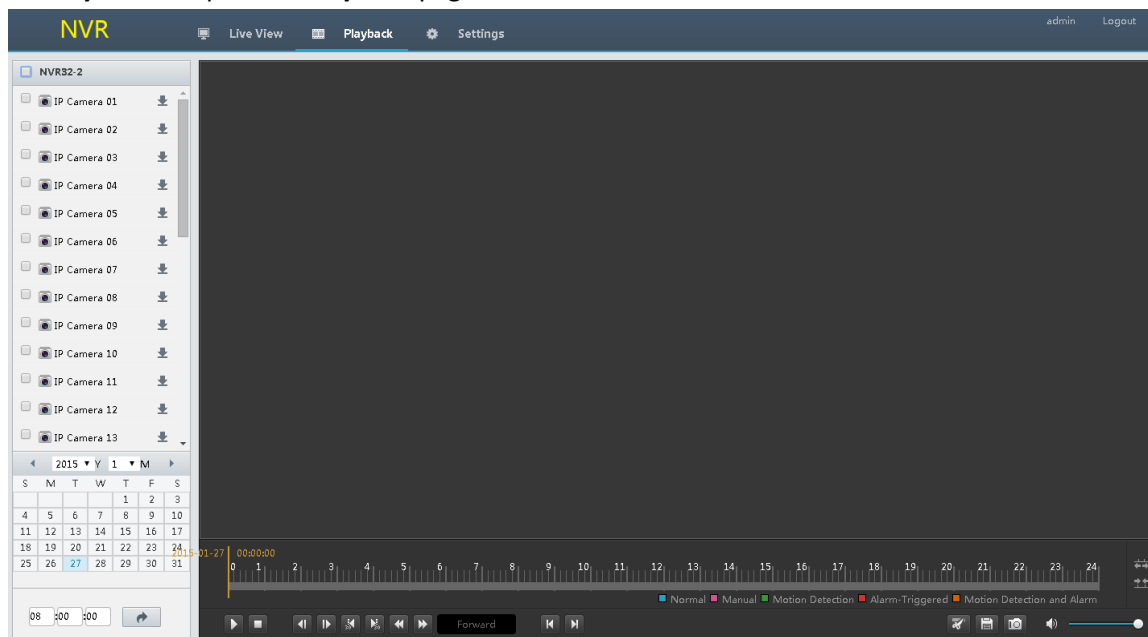
## Image Settings

1. Click the desired pane on the live view page, and then double-click an online PTZ camera on the left to start live video.
2. Click  to open the control panel, and then click **Image**.
3. Use the sliders to set the contrast, hue, saturation and brightness of images in preview status. Set the pane scale as needed.
















## 4 Playback

Click **Playback** to open the **Playback** page.

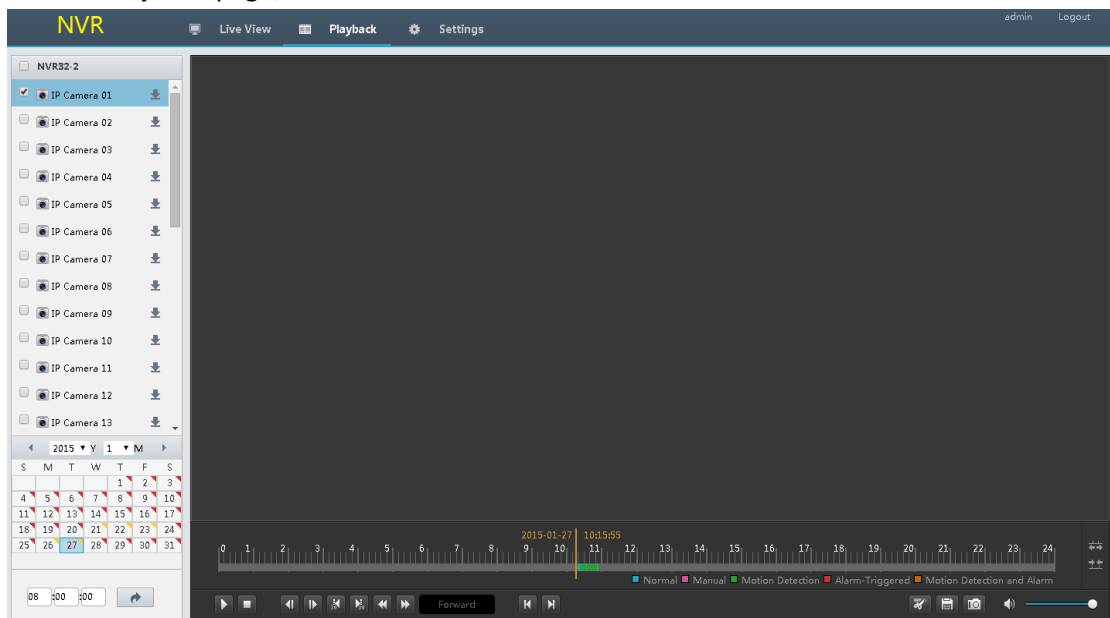



**Table 4-1** Playback Control Buttons

Button	Description	Button	Description
	Play/pause		Stop
	Rewind by frame		Forward by frame
	Rewind 30s		Forward 30s
	Speed down		Speed up
	Previous period		Next period
	Clip video/pause		Save
	Adjust volume, turn on/off sound	-	-

## Recording Playback

1. On the **Playback** page, select the desired camera on the left.



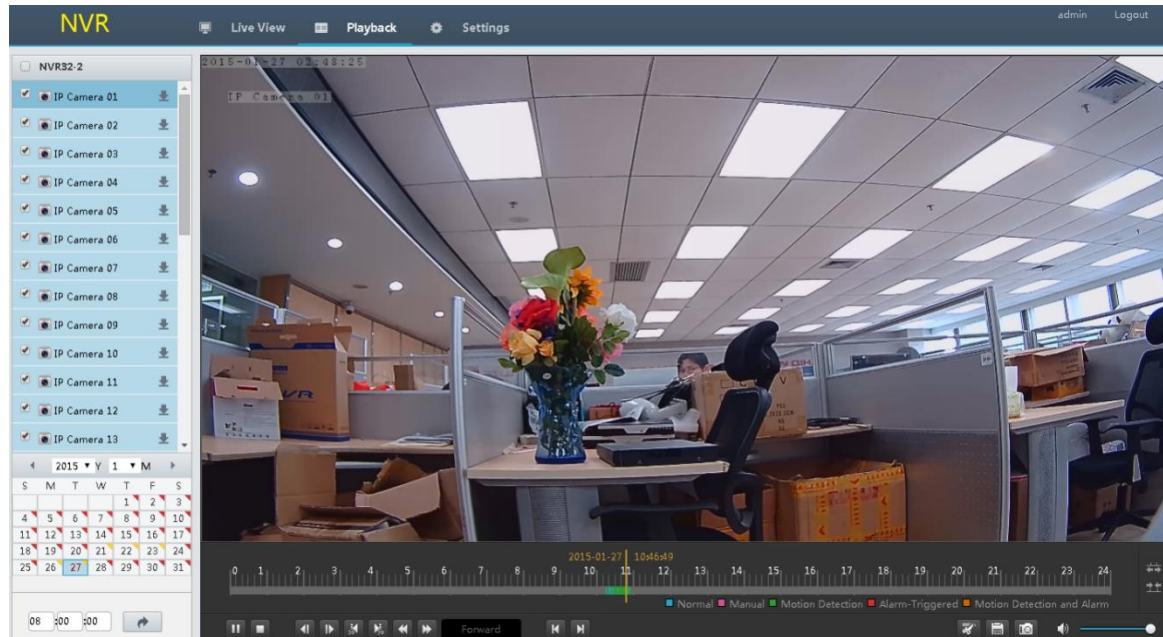
2. Query recordings using the following methods.
  - Click the desired date on the calendar. The timeline shows the status of recordings in the selected day. You can move the slider to set a start time for playback.
  - To query by time period, enter the time in the fields below the calendar and then click  to pinpoint the time.



## NOTE!


- Each date has a flag in the upper right corner to indicate recording status for that day. Different colors have different meanings.
- Green: The camera has a 24-hour recording for that day.
- Yellow: The camera has incomplete recording for that day (recording exists but less than 24 hours).
- Red: The camera has no recording for the whole day.

### 3. Click **Play** to start playback.



## Recording Download

Check that the camera has recorded video (recording) before you perform this operation.

1. On the **Playback** page, select the desired camera on the left and then click  on the right of the camera.
2. Download recordings.
  - a. Enter the start time and end time, and then click **Query**. Recordings during the set period are listed.
  - b. Select the desired recording file and download mode, and then click **Download**. The download progress is displayed. A download list appears when you click the progress bar.

Download IP Camera 03

Start Time

2015-01-27 00:00:00

End Time

2015-01-27 23:59:59

Query

	Start Time	End Time	Total Time	File Type
<input type="checkbox"/>	2015/01/27 00:00:00	2015/01/27 02:00:00	02:00:00	Normal
<input type="checkbox"/>	2015/01/27 02:00:52	2015/01/27 10:57:34	08:56:42	Normal
<input type="checkbox"/>	2015/01/27 11:22:50	2015/01/27 12:11:25	00:48:35	Normal
<input checked="" type="checkbox"/>	2015/01/27 12:14:09	2015/01/27 12:17:57	00:03:48	Normal

Speed

☒ High
 ☐ Normal

Download

NVR

Live View

Playback

Settings

1%

admin

Logout

No.	Camera	Progress	Operation
1	IP Camera 03	<div><div></div></div> 100%	✓
2	IP Camera 03	<div><div></div></div> 18%	↓



## NOTE!

By default a downloaded recording is saved to the following directory:  
C:\Users\username\Uware\Download\system date (in yyyy-mm-dd format).

# 5 Configuration

Click **Settings** on the main page, and then click the menu on the left to configure parameters.

NVR

Live View

Playback

Settings

35%

admin

Logout

Client

Client

Device

Camera

Alarm

Exception

Network

User

Maintenance

Client

Default Live Stream

Main Stream

Pane Scale

Full

Video Mode

Balanced

Video File Size

1 GB

Save file to

C:\Users\Administrator\Sui

Browse

Note: Local recording, snapshots, and downloaded recording are saved in the Record, Snap, Download folders.

Save



## Part III DDNS

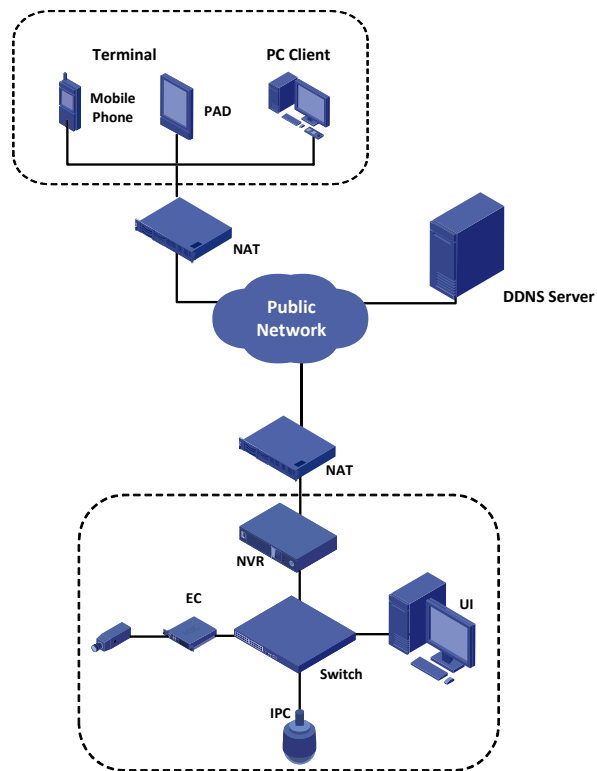
# 1 Overview

---

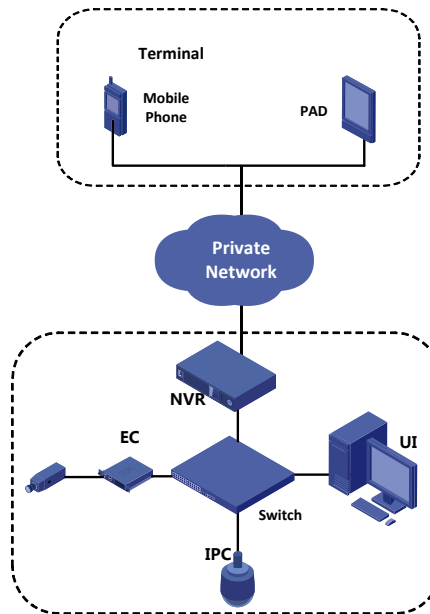
You can use the mobile app or the Web to view live or recorded video of your residence, shop or office anytime anywhere.

## Networking

### WAN



### LAN



## 2 Access Through the App

---

### How to Get the App



#### NOTE!

You are recommended to download the app via Wi-Fi.

---

You can get the free app by the following two methods:

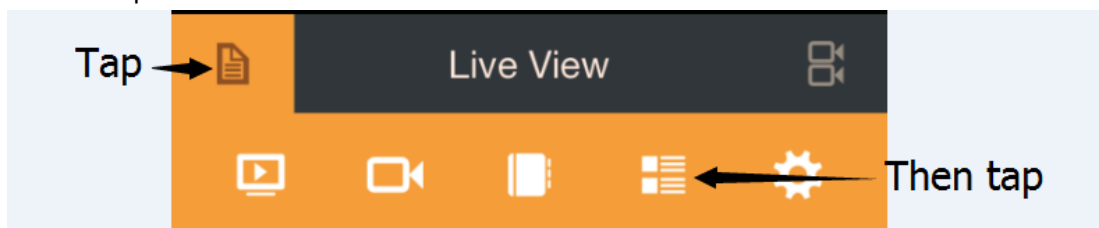
1. Scan the QR Code to get ISS Mobile for Android;
2. Scan the QR Code to get ISS Mobile for IOS;



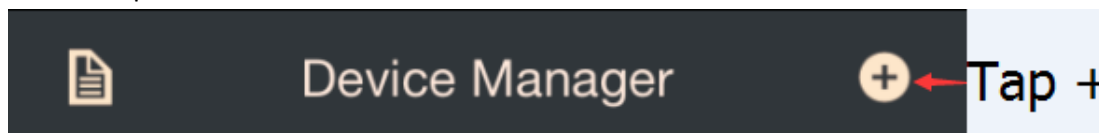
Or you can Search and download the ISS Mobile (IOS) from the App store and the ISS Mobile (Android) from Google Play.

## Configuration

### 1. Step2



### 2. Step3



### 3. Step4

Enter a name for NVR

Choose Diamond NVR Cloud under Mode dropdown list

New Device

Alias Device1

Mode Diamond NVR Cloud

ID 210235C1A001234567... [QR icon]

User Name admin

Password •••••

Camera No.0

Type:

AHD\_DVR

Diamond NVR

Diamond NVR Cloud

Press the QR code icon and line up the QR code on top of the NVR with the camera of your phone or tablet.

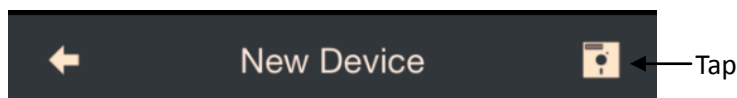
OR if your device does not have a camera, manually enter the Device ID printed on the label.

[QR code]

Device ID: xxxxxxxxxx

[NVR device]

### 4. Step5



### 5. Tap "Start Live View".



Congratulations! You can now view video from your cameras on your Smartphone or tablet!



## NOTE!

- If you have changed the User Name, Password from the defaults, you will need to update them.
- Find your Device ID.
- The Device ID is printed on a label on the top panel of the NVR.



- Make sure the UPNP of the router has been enabled.

## 3 Access Through the Browser

### Registration

1. Go to <http://www.hdcctvddns.com/> and click **Register**.
2. Complete the registration according to the instructions.

DDNS HOSTING  
Dynamic Domain Name Server

Register Step1

\* User Name:  OK

\* Password:  (Can only contains digits/English, 6-30 characters)

\* Confirm Password:  (Confirm Password and password should be same)

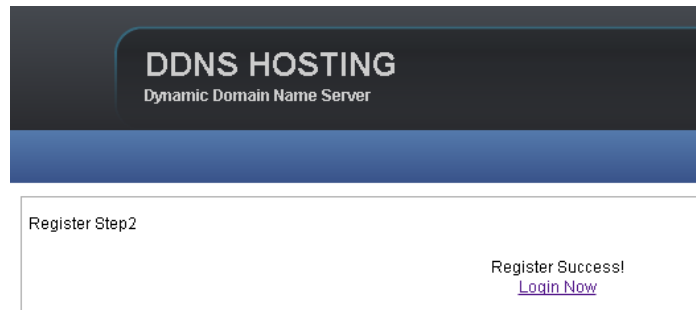
Real Name:  (Can only contains Chinese/English/digits/underline/spaces, less than 30 characters)

Mobile Phone:  (Can only contains digits, less than 30 characters)

\* Verify Code:  OK

### Log In

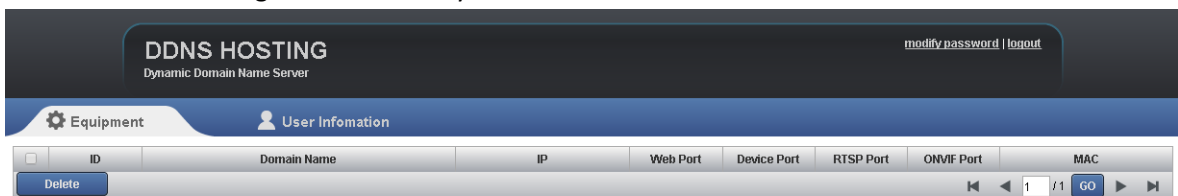
1. Finish registration and click **Login Now**.



2. Enter the username and password to **Login**.



3. DDNS Account Register successfully.



4. Setup Network and DDNS parameters of NVR. (See more details from **Network Configuration**)

Network

Basic PPPoE **DDNS** UPnP Email

DDNS ☒

DDNS Type HDCCTVDDNS

Domain testddns

Device Status Online

Username testgmail@gmail.com

Password \*\*\*\*\*

Apply OK Cancel

5. Click **UPnP**> enable UPnP>OK.

Network

Basic PPPoE DDNS **UPnP** Email

UPnP ☒

Mapping Type Auto

External Port

HTTP Port 50080 Stream Port 57070

RTSP Port 50554 Service Port 53830

Port Type	Mapping IP	External Port	Status
HTTP Port	0.0.0.0	50080	Inactive
RTSP Port	0.0.0.0	50554	Inactive
Stream Port	0.0.0.0	57070	Inactive
Service Port	0.0.0.0	53830	Inactive

Refresh

Apply OK Cancel

## Access

1. Refresh the page 'http://www.hdcctvddns.com/usercenter.html' and you will find the IP address of your domain.

www.hdcctvddns.com/usercenter.html

DDNS HOSTING  
Dynamic Domain Name Server

[modify password](#) | [logout](#)

Equipment
User Information

ID	Domain Name	IP	Web Port	Device Port	RTSP Port	ONVIF Port	MAC
1	testddns.hdcctvddns.com	192.168.3.38	80	6060	554	12001	48:ea:63:0f

Delete
1 / 1
GO

- Click the domain to go to the DVR login page in the browser, or access the device with it's domain +web port, e.g. <http://testddns.hdcctvddns.com/>

testddns.hdcctvddns.com

NVR

Username

admin

Password

Login

Reset

1440\*900 is recommended for best image quality.